WELL CONSTRUCTION PERMIT

Claudia Well, Well No. 3686-35

Note: This permit shall be prominently displayed at the construction site until the work is completed.

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 construction and testing of Claudia Well (Well No. 3686-35) at TMK 1-5-057:060, Hawaii, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules (HAR).

2. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

3. The well construction permit shall be for construction and testing of the well only. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the HWCPIS (the latest pump test worksheet can be obtained by contacting Commission staff or at www.hawaii.gov/dlnr/cwrm/resources_permits.htm). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson. No withdrawal of water shall be made for purposes other than testing without a Certificate of Pump Installation Completion. The permitted pump capacity described on the pump installation permit may be reduced in the event that the pump test does not support the capacity.

4. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson. If it can be shown that the well does not tap basal ground water then this condition may be waived after consultation with and acceptance by Commission staff. However, in no instance can the well be drilled deeper than one-half (1/2) of the theoretical thickness without Commission approval.

5. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.

6. In the event that historically significant remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and immediately contact the Department of Land and Natural Resources' State Historic Preservation Division. Work may recommence only after written concurrence by the State Historic Preservation Division.

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

8. The Well Completion Report Part I shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrm/resources_permits.htm for current form).

9. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.

10. The well construction permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

11. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

12. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

13. 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 Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

14. If the well is not to be used it must be properly capped. If the well is to be abandoned during the course of the project then the permittee must apply for a well abandonment permit in accordance with §13-168-12(f), HAR, prior to any well sealing or plugging work.

15. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

16. This permit shall apply to the location shown on the application only. If the well is to be relocated, the permittee shall apply for a new well construction/pump installation permit in accordance with §13-168-12(f), HAR.

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

Date of Approval: November 21, 2010
Expiration Date: November 21, 2012

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 and understand that I shall not commence work until I have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Driller's Signature: Derrick Moreira
C-57 License #: C-28002
Date: 12/3/10
Firm or Title: Derrick's Well Drilling and Pump Service

Please sign both copies of this permit, return one copy to the Commission office, and retain the other for your records.

Attachment
**PUMP INSTALLATION PERMIT**

**Claudia Well, Well No. 3686-35**

**Note:** This permit shall be prominently displayed at the site until the work is completed.

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 pump installation for **Claudia Well** (Well No. 3686-35) at TMK 1-5-057:060, Hawaii, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson to the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks 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 (HAR).

2. No withdrawal of water shall be made other than for testing until a Certificate of Pump Installation Completion has been issued by the Commission.

3. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

4. The pump installation permit shall be for installation of a 30 gpm rated capacity, or less, pump in the well. This permanent capacity may be reduced in the event that the pump test data does not support the capacity.

5. A water-level measurement access shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels.

6. The permittee shall install an approved meter or other appropriate means for measuring and reporting withdrawals and appropriate devices or means for measuring chlorides and temperature at the well head.

7. Well Completion Report Part II shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrm/resources_permits.htm for current form).

8. The permittee, well operator, and/or well owner shall comply with all applicable laws, rules, and ordinances, and non-compliance may be grounds for revocation of this permit.

9. The pump installation permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

10. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

11. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

12. The work proposed in the pump installation 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 Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

13. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

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

**Date of Approval:** November 21, 2010

**Expiration Date:** November 21, 2012

**Derrick Moreira**

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 and understand that I shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

**Installer's Signature:**

**Printed Name:** Derrick Moreira

**Firm or Title:** Derrick's Well Drilling and Pump Service

---

Please sign both copies of this permit, return one copy to the Commission office, and retain the other for your records.

**Attachments**
MEMO and ROUTE SLIP (ver. 5/11/10) 04/13/11

WCR 1 Check for Well No. 3686-35 (GW regulation route)

1. From Roy [initial] (initial) Yes No

   Initial entry in to well index
   Ingrid's spreadsheet updated needed/done

   Pump Tests Check

   Step-Drawdown Test: followed WCPI Stds
                       analysis attached    ☑ ☐    □<70 gpm no test required
   Constant Rate Test: followed WCPI Stds
                       analysis attached    ☑ ☐    □<50 gpm no test required

   Potential Well Interference: ☑ ☐
   Potential Stream Impacts:    ☑ ☐    If yes, stream name(s):
   Additional Testing or Data Required: ☑ ☐
   Pump Test Comments Attached:  ☑ ☐
   Proposed Pump Capacity is OK.: ☑ ☐

2. Well Log Check  Geology Code for Well Index: A44  Fm Name: Lower Jeremy JK [initial]

3. Construction Check  Charley/Ryan [initial]

   data complete     ☑ ☐ ☐
   followed Special Cond & elevations    ☑ ☐ ☐
   location unchanged from WCPIPA?    ☑ ☐ ☐
   red penciled completed location too.

   ATTACHMENTS FOR PUMP INSTALLATION PERMIT (2x):
   1 COVER LETTER
   2 COUNTY COMMENTS (DWS/SMA)
   3 DCH COMMENTS
   4 DLNR COMMENTS (LD/OCC CD/HBP)
   5 WCR 1 Accept
   6 WELL CONST. COMPLETION CERTIFICATE
   7 USGS MAP UPDATED
   8 PARCEL CHECK
   9 WELL DATABASE INPUT CHECK
   10 PUMP TEST WORKSHEET
   11 WELL As-Built CHECK PRINT

   not necessary – only WCP or BOTH.

   To be sent to driller/pump installer
   [To Landowner]
   Staff internal checks

4. Roy [initial] check (Entered WCR 1/WCCC accept date into database)
5. Susan H. [initial] finalize
6. Bill [initial] signature
7. Charley/Ryan File & Enter PIP issue date if attached/required
May 25, 2011

Ms. Claudia Miller
HCR2 Box 9629
Keeau, HI 96749

Dear Ms. Miller:

Water Meter Requirement & Notice of No Pumping for Well No. 3686-35

We have received the Well Completion Report Part II from the pump installer for the Claudia's Well (Well No. 3686-35), and found it to be acceptable with the exception of the installation of a water meter. We have acknowledged that the pump installer’s responsibilities for this pump installation are complete, and no further action is required from the pump installer at this time. We have written a letter to the contractor to this effect and you will receive a copy.

However, the pump installer has indicated that no water meter has been installed for this well as directed by you. Therefore, you are responsible for installing a water meter with a totalizer for this well prior to its operational use. After you install a water meter, you must complete the attached water meter installation report form and return it to our office before pumping your well. Upon our receipt of an acceptably completed water meter installation report form, we will send you a certificate of pump installation completion, which will then allow you to commence pumping water from this well. You cannot use water from this well without a certificate of pump installation completion. Use of water from this well (for purposes other than testing) without a certificate of pump installation completion is a violation and is subject to fines of up to $5,000 per day.

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

Sincerely,

WILLIAM M. TAM
Deputy Director

Rls
Encl: Water Meter Installation Report

c: Derrick's Drilling and Pump Service
Ms. Claudia Miller
HCR2 Box 9629
Keeau, HI 96749

Dear Ms. Miller:

Certificate of Well Construction Completion for Well No. 3686-35 (TMK 1-S-057:060)

We are pleased to inform you that the Well Construction work permitted for the Claudia’s Well (Well No. 3686-35) is complete and acceptable and welcome you as a new member to the community of well owners and ground water users in Hawaii.

To protect Hawaii’s natural ground water resources for the benefit of all, the following requirements apply to the use of your well:

1. Before this well can be pumped on a regular basis, a certificate of pump installation completion must be obtained.
2. If the well is not in use it must be properly capped.
3. If the well is to be abandoned then the landowner must cause a licensed contractor to apply for a well abandonment permit in accordance with §13-168-12(f), HAR, prior to any well sealing or plugging work.
4. In the event that the well operator and/or landowner changes, the Commission shall be notified prior to the change.
5. In the event the benchmark in the concrete base of the well is altered in any way, an updated version of the Well Elevation page of the Well Completion Report Part I shall be submitted to the Commission. If a licensed surveyor had estimated the original benchmark elevation then a licensed surveyor must establish the new benchmark elevation. The Well Elevation portion of the Well Completion Report Part I can be obtained by contacting Commission staff or at our website at www.hawaii.gov/dlnr/cwrm/resources_permits.htm.

Because ground water in Hawaii is a public trust, and adverse effects at one well may affect other water resources, any violation of the above conditions or any other provision of the Hawaii Administrative Rules may be subject to fines of up to $5,000 per day. The Commission needs your help and asks that you do your part in utilizing this shared resource. We prefer to work with you in meeting the goal of protecting our ground water resources together.

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

Sincerely,

WILLIAM M. TAM
Deputy Director

RI:ss

c: Derrick’s Well Drilling
May 25, 2011

Mr. Derrick Moreira
Derrick's Drilling and Pump Service
P.O. Box 2187
Keeau, HI 96749

Dear Mr. Moreira:

Well Completion Report Parts I and II for Well No. 3686-35

We received your Well Completion Report Parts I and II for the Claudia's Well (Well No. 3686-35) on February 2, 2011 and acknowledge that they are complete.

This completes your obligation under the well construction permit. A certificate of well construction completion will be issued to the well operator/landowner and you will receive a copy. This certificate transfers responsibility of specific aspects of well usage and maintenance from you to the well operator/landowner.

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

Sincerely,

WILLIAM M. TAM
Deputy Director

RI:ss

c: Claudia Miller
## Well Check Program

4/1/04 - Revised for update to Well Standards (February 2004)

### Data Input

<table>
<thead>
<tr>
<th>Data Input</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Number</td>
<td>3686-35</td>
</tr>
<tr>
<td>Well Name</td>
<td>Claudia</td>
</tr>
<tr>
<td>Ground Elevation</td>
<td>30</td>
</tr>
<tr>
<td>Cement Grout</td>
<td>20</td>
</tr>
<tr>
<td>Grouting Method</td>
<td>other</td>
</tr>
<tr>
<td>Hole Diameter</td>
<td>12</td>
</tr>
<tr>
<td>Total Depth</td>
<td>38</td>
</tr>
<tr>
<td>Water Level</td>
<td></td>
</tr>
<tr>
<td>Public Water Supply Well?</td>
<td>no</td>
</tr>
<tr>
<td>Solid Casing Material</td>
<td>pvc plastic plastic</td>
</tr>
<tr>
<td>Solid Casing Specification</td>
<td>Schedule 40</td>
</tr>
<tr>
<td>Solid Casing Length</td>
<td>29</td>
</tr>
<tr>
<td>Solid Casing Diameter</td>
<td>6</td>
</tr>
<tr>
<td>Solid Casing Wall Thickness</td>
<td>0.280</td>
</tr>
<tr>
<td>Open Casing Length</td>
<td>10</td>
</tr>
</tbody>
</table>

### Results

#### Well Depth

- **Theoretical Thickness of Aquifer**: 82
- **1/4 Aquifer Thickness**: 20.5
- **Depth of Well below Sea Level**: -8 okay

#### Well Casing

- **Minimum Wall Thickness Material**: pvc plastic
- **Minimum Thickness per standards**: no requirement
- **Wall Thickness Provided**: 0.28 no standard
- **Minimum Length of Solid Casing**: 25.2
- **Length of solid casing Provided**: 29 okay
- **Casing Material**: Schedule 40 in compliance
- **Annular Space**
  - **Calculated Depth of Grouting**: 19.6
  - **Depth of Grouting provided**: 20 okay
  - **Minimum Annular Space required**: 2
  - **Thickness of Annular Space**: 3 okay
MEMO and ROUTE SLIP (ver4/29/10/10) 04/13/11

**WCR 2 Check for Well No. 3686-35 (GW regulation route)**

1. From Roy (initial)

   **Pump Tests Check (special condition of PIP? Yes/No)**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>If no, describe deficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

   **Step-Drawdown Test:**
   - followed WCPI Stds analysis attached
   - If <70 gpm no test required

   **Aquifer Pump Test:**
   - followed WCPI Stds T & S analysis attached
   - If <50 gpm no test required

   **Potential Well Interference:**
   - If yes, stream names:

   **Potential Stream Impacts:**
   - If yes, stream names:

   **Additional Testing or Data Required:**
   - If yes, stream names:

   **Pump Test Comments Attached:**
   - If yes, stream names:

   **Proposed Pump Capacity is OK:**
   - If yes, stream names:

2. **Pump Installation Check**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>NA</th>
<th>If no, describe deficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   **data complete**
   - followed Special Cond & Elevations
   - well database updated

   ATTACHMENTS FOR ACCEPTANCE:
   - 1. WCR2 ACCEPTANCE LETTER
   - 2. PUMP INST. COMPLETION CERTIFICATE
   - 3. METER INSTALL. REPORT (IF NECESSARY)
   - 4. WUR FORM (if necessary)
   - 5. USGS MAP UPDATED
   - 6. PARCEL CHECK
   - 7. WELL DATABASE INPUT CHECK
   - 8. PUMP TEST WORKSHEET
   - 9. PUMP As-Built CHECK PRINT

   } To be sent to driller
   { } To be sent to landowner/operator
   { } Staff internal checks

3. Roy (initial) check (Entered WCR 2/PICC accept date into database)

4. Susan H. (initial) finalize

5. Bill (initial) signature

6. Charley/ Ryan File
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
WELL COMPLETION REPORT - PART I

Well Construction

Instructions: Please print in ink or type and send completed report (with attachments, if applicable) to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. The Commission may not accept incomplete reports. This form shall be submitted within 60 days of the completion of work. For assistance, please consult the Hawaii Well Construction and Pump Installation Standards or call the Regulation Branch at 887-0225. For updates to this form or additional information, please visit our website at http://www.hawaii.gov/cwnm/.

1. State Well No.: 3686-35
   Well Name: Claudia's Well
   Island: Hawaii

2. Address: 15-964 Paradise Kail Drive Keaau, HI 96749
   Tax Map Key: 1-5-057-060

3. Drilling Company: Derrick's Well Drilling & Pump Services, LLC

4. Drilling method used during construction: ☑ Rotary ☐ Percussion ☐ Other (describe)

5. Date Well Construction (drilled, cased, grouted) completed: 12/14/2010
   Attach completed Driller's Log

6. Was the subject well cored? ☑ Yes ☐ No

7. Step-Drawdown Test completed? ☑ No ☐ Yes
   Attach Step-Drawdown Test form (12/17/97 SDPTD Form)

8. Constant Rate Aquifer Test completed? ☑ No ☐ Yes
   Attach Constant Rate Aquifer Test form (12/17/97 CRPTD Form)

Water Level Data:

<table>
<thead>
<tr>
<th>Reference point elevation</th>
<th>Depth to water (feet)</th>
<th>Water Level ft. above mean sea level (see note below)</th>
<th>Date/time of measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground = 30 ft. msl</td>
<td>32</td>
<td>2</td>
<td>12/13 3p</td>
</tr>
<tr>
<td>Ground = 30 ft. msl</td>
<td>32</td>
<td>2</td>
<td>12/14 1p</td>
</tr>
</tbody>
</table>

Note: all elevations referenced to mean sea level, take the ground elevation (surveyed or estimated if survey not required at this time) and subtract the depth to the water level.

9. Initial encountered during drilling (this should also be filled in on the driller's log)

10. Just prior to casing installation

11. After casing installation (this information should be before any pump tests are performed with casing installed)

12. As-built section filled in completely ☑

13. Photograph of well and concrete pad showing benchmark on concrete pad attached ☑

14. GPS coordinates provided in degrees, minutes, seconds ☑

15. If a pump is not planned to be installed, please describe (below in the remarks section) how well is secured to prevent unauthorized access (example: lockable cover, threaded coupling, etc.)

16. Remarks:

Licensed Driller (print) Derrick Moreira
C-57 Lic. No. C-28001
Signature
Date 01/26/2011
12. AS-BUILT WELL SECTION

(Please attach as-built if different from standards provided below)

Solid Casing Material:
- Carbon Steel: compliant with (check one or more): ☐ ANSI/AWWA C200 ☐ API Spec 5L ☐ ASTM A53 ☐ ASTM A139
- Stainless Steel: compliant with (check one or more): ☐ ASTM A242 or A606 ☐ Type E ☐ Type S ☐ Grade B ☐ Other
- ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one) ☐ Schedule 40 ☐ Schedule 80
- PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one): ☐ Schedule 40 ☐ Schedule 80 ☐ Schedule 120
- Thermostet Plastic: (check one) ☐ Filament Wound Resin Pipe conforming to ASTM D2996
  ☐ Centrifugally Cast Resin Pipe conforming to ASTM D2997
  ☐ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
  ☐ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
  ☐ PTFE Fluorocarbon Tubing conforming to ASTM D3296
  ☐ FEP Fluorocarbon Tubing conforming to ASTM D3296

Open Casing Material:
- Carbon Steel: compliant with (check one or more): ☐ ANSI/AWWA C200 ☐ API Spec. 5L ☐ ASTM A53 ☐ ASTM A139
- Stainless Steel: compliant with (check one or more): ☐ ASTM A242 or A606 ☐ Type E ☐ Type S ☐ Grade B ☐ Other
- ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one) ☐ Schedule 40 ☐ Schedule 80
- PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one): ☐ Schedule 40 ☐ Schedule 80 ☐ Schedule 120
- Thermostet Plastic: (check one) ☐ Filament Wound Resin Pipe conforming to ASTM D2996
  ☐ Centrifugally Cast Resin Pipe conforming to ASTM D2997
  ☐ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
  ☐ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
  ☐ PTFE Fluorocarbon Tubing conforming to ASTM D3296
  ☐ FEP Fluorocarbon Tubing conforming to ASTM D3296

WCR1 Form 10/18/04 Page 2 of 5
### DRILLER'S LOG

**WELL NUMBER:** Claudias Well

**Remarks:**
Lots of cave ins from 20 - 30 feet

<table>
<thead>
<tr>
<th>Depth (ft.)</th>
<th>Rock Description</th>
<th>Water Level</th>
<th>Cl-</th>
<th>Dates</th>
<th>Depth (ft.)</th>
<th>Rock Description</th>
<th>Water Level</th>
<th>Cl-</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 10</td>
<td>Soft Black Cinder</td>
<td>__________</td>
<td></td>
<td>12/13</td>
<td>__________</td>
<td>__________</td>
<td>__________</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 to 20</td>
<td>Hard Blue Rock</td>
<td>__________</td>
<td></td>
<td>12/13</td>
<td>__________</td>
<td>__________</td>
<td>__________</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20 to 30</td>
<td>Soft Black Rocks</td>
<td>__________</td>
<td></td>
<td>12/13</td>
<td>__________</td>
<td>__________</td>
<td>__________</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30 to 35</td>
<td>Hard Blue Rock</td>
<td>__________</td>
<td></td>
<td>12/13</td>
<td>__________</td>
<td>__________</td>
<td>__________</td>
<td></td>
<td></td>
</tr>
<tr>
<td>35 to 38</td>
<td>Soft porous rock/cinder</td>
<td>2</td>
<td></td>
<td>12/13</td>
<td>__________</td>
<td>__________</td>
<td>__________</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

In addition to the driller's log, if a geologic log was prepared, please submit with this form.
SKETCH OF WELL LOCATION
(Referenced to permanent landmark, i.e. building, road, fence, etc.)
Provide Latitude and Longitude of well referenced to NAD83 to nearest second

Attach photos of completed well and concrete pad

NAD83:
Latitude: 19 degrees 36 min 22 sec
Longitude: 154 degrees 56 min 33 sec

EXAMPLE
PROPERTY LINE
Lat: 19°36'45"
Long: 154°57'18"
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
WELL COMPLETION REPORT - PART II
Pump Installation

Instructions: Please print in ink or type and send completed report (with attachments, if applicable) to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. The Commission may not accept incomplete reports. This form shall be submitted within 60 days of the completion of work. For assistance, please consult the Hawaii Well Construction and Pump Installation Standards or call the Regulation Branch at 587-0225. For updates to this form or additional information, please visit our website at http://www.state.hi.us/dlnr/cwnm/

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. State Well No.: 3686-35</td>
<td>Well Name: Claudia's Well</td>
<td>Island: Hawaii</td>
</tr>
<tr>
<td>2. Address: 15-964 Paradise Ala Kai Drive, Kealani, HI 96749</td>
<td>Tax Map Key: 1-5-057-060</td>
<td></td>
</tr>
<tr>
<td>3. Pump Installation Company: Derrick's Well Drilling &amp; Pump Services, LLC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Date Pump Installed: 12/17/2010</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. PERMANENT PUMP INFORMATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Type, Make, Serial No.: Submersible, Grundfos, 16810-19</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated Capacity: 16 gpm</td>
<td>at head of: 100 ft.</td>
<td></td>
</tr>
<tr>
<td>Motor Type, H.P., Voltage, rpm: Franklin Submersible, 1HP, 230V, 3450RPM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump type (check one):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>[ ] Deep Well Turbine</td>
<td>[ ] Rotary</td>
<td></td>
</tr>
<tr>
<td>[ ] Submersible</td>
<td>[ ] Rotary-Displacement</td>
<td></td>
</tr>
<tr>
<td>[ ] Centrifugal</td>
<td>[ ] Reciprocating</td>
<td></td>
</tr>
<tr>
<td>[ ] Submersible</td>
<td>[ ] Rotary-Gear</td>
<td></td>
</tr>
<tr>
<td>[ ] Centrifugal</td>
<td>[ ] Impulse</td>
<td></td>
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<tr>
<td>6. Method of flow measurement:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>[ ] Flowmeter Manufacturer Mastermeter Model no. Size 5/8&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>[ ] Other, explain and attach schematic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Fill in the as-built section on the other side of this sheet.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Attach the rating curve for the installed pump.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. Attach photograph of well clearly showing the benchmark on the concrete pad, the well head, and the method of flow measurement.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. Well Owner Company Claudia Miller Contact Claudia Miller</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address HCR2 Box 9629, Kealani, HI 96749</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone 808-982-5588 Fax none</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Land Owner Company same Contact same</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address same</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone same Fax none</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12. Remarks Flowmeter to be installed at a later date.</td>
<td></td>
<td></td>
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Pump Installation Contractor (print) Derrick Moreira C-57/C-57a/A Lic. No. C-28001
Signature Date 01/26/2011
7. AS-BUILT PUMP SECTION

(Please attach as-built if different from diagram provided below)

Bench mark elevation
surveyed to nearest 0.01 ft. =
31.6 ft. mean sea level

Elevation of top of chase tube
na ft. mean sea level

Pump intake depth = 36.2 ft.
(referenced to bench mark)

Chase tube depth = na ft.
(referenced to bench mark)

If airline installed,
bottom of airline elevation =
-5 ft. mean sea level

Swl 32'
16S10-10, 60 Hz

Pumped liquid = Water
Liquid temperature = 68 °F
Density = 62.29 lb/ft³
**COMMISSION ON WATER RESOURCE MANAGEMENT**

**ROUTE SLIP FOR PERMIT ISSUANCE 1/22/10**

<table>
<thead>
<tr>
<th>FROM: RYAN</th>
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<th>SUSPENSE DATE:</th>
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<th>INIT.</th>
<th>TO: CHONG, R.</th>
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<th>FOR: Approval</th>
<th>PLEASE: See Me</th>
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<tr>
<th>TO: DANBARA, S.</th>
<th>INIT.</th>
<th>TO: FUJII, N.</th>
<th>INIT.</th>
<th>FOR: Information</th>
<th>PLEASE: Take Action</th>
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<tr>
<th>TO: HARDY, R.</th>
<th>INIT.</th>
<th>TO: OHYE, L.</th>
<th>INIT.</th>
<th>FOR: Type Draft</th>
<th>PLEASE: Type Final</th>
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<th>TO: HOAGBIN, S.</th>
<th>INIT.</th>
<th>TO: KIMURA, J.</th>
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<th>FOR: File</th>
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<th>TO: KUNIMURA, I.</th>
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<th>TO: DANBARA, S.</th>
<th>INIT.</th>
<th>FOR: Info</th>
<th>PLEASE: Final</th>
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**WELL NUMBER 3686-35**

**WELL NAME Claudia**

**application type** BOTH

1. **WELL COVER LETTER**
2. **WCP**
3. **WELL CHECK PRINTOUT**

**proposed well section issues?**

| 4 | **PIP COVER LETTER** | |

| 5 | **PIP** | |

**COMMENTS:**

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<tr>
<th>6</th>
<th><strong>SDWB</strong></th>
<th>date rec'd</th>
<th>issues?</th>
<th>If checked, send to applicant</th>
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<td>7</td>
<td><strong>WWB</strong></td>
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<td>8</td>
<td><strong>CWB</strong></td>
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<td></td>
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<tr>
<td>9</td>
<td><strong>HEER</strong></td>
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<td></td>
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<tr>
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<td><strong>LD</strong></td>
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<td></td>
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<tr>
<td>11</td>
<td><strong>HP</strong></td>
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<td><strong>OCCL</strong></td>
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<td>14</td>
<td><strong>SMA</strong></td>
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<td>15</td>
<td><strong>BWS (Oahu)</strong></td>
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**NOTES:**

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<tr>
<th>DRILLER</th>
<th>Derrick Moreira</th>
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<tr>
<td></td>
<td>Derrick's Drilling and Pump Service</td>
</tr>
<tr>
<td></td>
<td>28002</td>
</tr>
<tr>
<td></td>
<td>P.O. Box 2187</td>
</tr>
<tr>
<td></td>
<td>Kailua</td>
</tr>
<tr>
<td></td>
<td>96749</td>
</tr>
<tr>
<td></td>
<td>phone 986-7627</td>
</tr>
<tr>
<td></td>
<td>fax 986-7696</td>
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<tr>
<td>PUMP CAPACITY</td>
<td>30</td>
</tr>
<tr>
<td>WELL OWNER</td>
<td>Claudia Miller</td>
</tr>
<tr>
<td>LAND OWNER</td>
<td>Claudia Miller</td>
</tr>
<tr>
<td>COMMENT DEADLINE</td>
<td>1/0/00</td>
</tr>
<tr>
<td>90-DAY DEADLINE</td>
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</tbody>
</table>
November 30, 2010

Mr. Derrick Moreira
Derrick's Well Drilling and Pump Service
P.O. Box 2187
Keeau, HI 96749

Dear Mr. Moreira:

Pump Installation Permit
Claudia Well (Well No. 3686-35)

Enclosed are two (2) originals of your approved Pump Installation Permit for the captioned well(s) that authorize permanent pump installation work for your well(s). As part of the Chairperson’s approval, the following special conditions were added and are part of your permit under Permit Condition 14:

Special Conditions

1. If the elevation benchmark needs to be altered, the permittee, well operator, and/or well owner shall ensure that the benchmark is transferred (or the well resurveyed) and documentation of the new benchmark shall be submitted to the Commission within sixty (60) days after the pump is installed.

2. Attached for your information are copies of the Department of Health's (DOH) review comments. Please note DOH’s requirements related to discharge of effluent from well drilling and testing activities. Also, please contact the Noise Radiation and Indoor Air Quality Branch at 586-4700 to check compliance with construction noise permit requirements for this project.

The permittee is responsible for all conditions of the permit. This includes ensuring the submission of a completed Well Completion Report Part II form within sixty (60) days after the pump installation work is completed. Be advised that you may be subject to fines of up to $5,000 per day for any violations of your permit conditions starting from the permit approval date.

Please sign both permit originals and return one copy to the Commission office for our files.

IMPORTANT - Pump installation shall not commence until a fully signed permit is returned to the Commission.

If you have any questions, please call Ryan Imata of the Commission staff at 587-0255.

Sincerely,

Laura H. ThieLEN
Chairperson

Enclosure

c: Claudia Miller (with applicable comments – DOH WWB, CWB)
Claudia Well, Well No. 3686-35

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 pump installation for Claudia Well (Well No. 3686-35) at TMK 1-5-057:060, Hawaii, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson to the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks 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 (HAR).

2. No withdrawal of water shall be made other than for testing until a Certificate of Pump Installation Completion has been issued by the Commission.

3. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

4. The pump installation permit shall be for installation of a 30 gpm rated capacity, or less, pump in the well. This permanent capacity may be reduced in the event that the pump test data does not support the capacity.

5. A water-level measurement access shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels.

6. The permittee shall install an approved meter or other appropriate means for measuring and reporting withdrawals and appropriate devices or means for measuring chlorides and temperature at the well head.

7. Well Completion Report Part II shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrm/resources_permits.htm for current form).

8. The permittee, well operator, and/or well owner shall comply with all applicable laws, rules, and ordinances, and non-compliance may be grounds for revocation of this permit.

9. The pump installation permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

10. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

11. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

12. The work proposed in the pump installation 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 Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

13. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

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

Date of Approval: November 21, 2010
Expiration Date: November 21, 2012
LAURA H. THIELEN, 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 and understand that I shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Installer's Signature: [signature] C-57, C-57a, or A License #: C-28002 Date:
Printed Name: Derrick Moreira Firm or Title: Derrick's Well Drilling and Pump Service

Please sign both copies of this permit, return one copy to the Commission office, and retain the other for your records.

Attachments
November 30, 2010

Mr. Derrick Moreira
Derrick’s Well Drilling and Pump Service
P.O. Box 2187
Keeau, HI 96749

Dear Mr. Moreira:

Well Construction Permit
Claudia Well (Well No. 3686-35)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) that authorize well construction activities but excludes installation work for a permanent pump. As part of the Chairperson’s approval, the following special conditions were added and are part of your permit under Permit Condition 17:

Special Conditions

1. Attached for your information are copies of the Department of Health’s (DOH) review comments. Please note DOH’s requirements related to discharge of effluent from well drilling and testing activities. Also, please contact the Noise Radiation and Indoor Air Quality Branch at 586-4700 to check compliance with construction noise permit requirements for this project.

Please refer to the Permit Processes Worksheet (transmitted with your acknowledgement letter) for further information regarding the process of drilling a well and installing a pump.

No withdrawal of water shall be made other than for testing purposes until a certificate of pump installation completion has been issued by the Commission.

Please sign both permit originals and return one copy to the Commission office for our files. For copies of the aquifer pump test worksheet, please call staff or visit www.state.hi.us/dlnr/cwrm/forms.htm.

IMPORTANT - Drilling work shall not commence until a fully signed permit is returned to the Commission. The permit shall be prominently displayed or made available at the construction site during construction. Be advised that you may be subject to fines of up to $5,000 per day for any violations of your permit conditions starting from the permit approval date.

If you have any questions, please call Ryan Imata of the Commission staff at 587-0255 or toll-free at 974-4000 (Hawaii), 274-3141 (Kauai), 984-2400 (Maui), or 1-800-468-4644 (Lanai & Molokai), extension 70255.

Sincerely,

[Signature]

LAURA H. THIELEN
Chairperson

Enclosures

c: Claudia Miller (with applicable comments – DOH WWB, CWB)
WELL CONSTRUCTION PERMIT
Claudia Well, Well No. 3686-35

Note: This permit shall be prominently displayed at the construction site until the work is completed

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 construction and testing of Claudia Well (Well No. 3686-35) at TMK 1-5-087:060, Hawaii, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules (HAR).

2. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.

3. The well construction permit shall be for construction and testing of the well only. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the HWCPIS (the latest pump test worksheet can be obtained by contacting Commission staff or at www.hawaii.gov/dlnr/cwrm/resources_permits.htm). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson.

4. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless authorized by the Chairperson. If the well can be shown that the well does not tap basal ground water then the condition may be waived after consultation with and acceptance by Commission staff. However, in no instance can the well be drilled deeper than one-half (1/2) of the theoretical thickness without Commission approval.

5. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.

6. In the event that historically significant remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall report work and immediately contact the Department of Land and Natural Resources' State Historic Preservation Division. Work may recommence only after written concurrence by the State Historic Preservation Division.

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

8. The Well Completion Report Part I shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff visit www.hawaii.gov/dlnr/cwrm/resources_permits.htm for current form).

9. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.

10. The well construction permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

11. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

12. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

13. 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 Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

14. If the well is not to be used it must be properly capped. If the well is to be abandoned during the course of the project then the permittee must apply for a well abandonment permit in accordance with §13-168-12(3), HAR, prior to any well sealing or plugging work.

15. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.

16. The permittee shall apply to the location shown on the application only. If the well is to be relocated, the permittee shall apply for a new well construction/pump installation permit in accordance with §13-168-12(3), HAR.

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

Date of Approval: November 21, 2010
Expiration Date: November 21, 2012

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 and understand that I shall not commence work until I have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Driller's Signature: ______________ C-57 License #: C-28002 Date: ______________
Printed Name: Derrick Moreira Firm or Title: Derrick's Well Drilling and Pump Service ______________

Please sign both copies of this permit, return one copy to the Commission office, and retain the other for your records.

Attachment
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<th>Data Input</th>
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<td>Claudia</td>
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<tr>
<td>Ground Elevation</td>
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<td>Cement Grount</td>
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<td>Well Depth</td>
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</tr>
<tr>
<td>Theoretical Thickness of Aquifer</td>
<td>205</td>
</tr>
<tr>
<td>1/4 Aquifer Thickness</td>
<td>51.25</td>
</tr>
<tr>
<td>Depth of Well below Sea Level</td>
<td>-5 okay</td>
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| Well Casing                                                              |               |
| Minimum Wall Thickness                                                  |               |
| Material                                                                | pvc plastic   |
| Minimum Thickness per standards                                         | no requirement|
| Wall Thickness Provided                                                  | 0.28          |
| Minimum Length of Solid Casing                                          |               |
| 90% of ground to top of aquifer                                        | 23.4          |
| Length of solid casing Provided                                         | 30 okay       |
| Casing Material                                                         | Schedule 40   |
| (for pvc only - check for 200' limit)                                   | in compliance |

| Annular Space                                                           |               |
| Depth of Grouting                                                      |               |
| Calculated Depth of Grouting                                           | 18.2          |
| Depth of Grouting provided                                             | 21 okay       |
| Minimum Annular Space required                                         | 2             |
| Thickness of Annular Space                                             | 3 okay        |
October 19, 2010

Mr. Ryan Imata  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii  
PO Box 621  
Honolulu, HI 96809

Dear Mr. Imata:

Subject: Special Management Area Use Permit Requirements for Well Construction/ Pump Installation Permit Application 
Claudia Well (Well No. 3686-35) 
Land Owner: Claudia Miller  
Tax Map Kev: (3) 1-5-057:060; Hawaiian Paradise Park, Puna, Hawai‘i

This is a follow up letter to an email received by Derrick’s Well Drilling & Pump Services LLC. The email corrected the Application for a Well Construction/ Pump Installation Permit to indicate the domestic number of units to be served as one. This letter replaces our previous letter dated October 4, 2010.

The subject parcel is zoned as A-1a (Agricultural - minimum 1-acre lot size) and is located within the State Land Use Agricultural district. In addition, the entire parcel is located in the Special Management Area (SMA) and does have frontage along the coastline.

According to the County of Hawai‘i Real Property Tax Records, a building permit for the existing single-family dwelling was issued on February 20, 1970. According to Chapter 205A-22, Hawaii Revised Statutes and Planning Commission Rule 9-4(e) (2) (O) relating to Special Management Area, “development” does not include “Structural and non-structural improvements to existing single-family residences, where otherwise permissible”. Therefore, the proposed construction of a water well may be considered exempt from the definition of “development”.

Hawai‘i County is an Equal Opportunity Provider and Employer
Mr. Ryan Imata  
Commission on Water Resource Management  
Department of Land and Natural Resources  
Page 2  
October 19, 2010

This well project does not require any further review against the SMA rules and regulations.

If you have questions, please feel free to contact Bethany Morrison of this office at 961-8138.

Sincerely,

BJ LEITHEAD TODD  
Planning Director

ce: Claudia Miller  
HCR2 9629  
Kea‘au, Hawai‘i 96749
Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by October 24, 2010. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

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

RESPONSE:

[ ] A water lease/permit is required of this applicant and an application for such will be requested by or division.

[ ] A water lease/permit is not required of this applicant.

[ ] A water lease/permit has been obtained by the applicant through lease no. ____________________________.

[ ] Other relevant Land Division rules/regulations, information, or recommendations are attached.

[ ] No objections

[ ] Other comments: Original source of private title was issued prior to statehood.

Contact Person: Gary Martin Phone: 587-0421

Signed: Gary Martin Date: 10/13/10
Subject: National Pollutant Discharge Elimination System Regulations for the Well Construction/Pump Installation Permit Application(s) for the Subject Well(s)

Dear Mr. Imata:

The Department of Health, Clean Water Branch (CWB) has the following comments for the subject well:

1. For Well-Drilling Activities

Any discharge to State waters of treated process wastewater effluent associated with well drilling activities is regulated by Hawaii Administrative Rules (HAR), Title 11, Chapter 55, Appendix I, effective October 22, 2007, and compiled June 15, 2009. Treated process wastewater effluent covered by this general permit includes well drilling slurries, lubricating fluids wastewater, and well purge wastewater. This general permit does not cover well pump testing. The applicable Notice of Intent (NOI) Forms and filing fee shall be submitted at least 30 calendar days before the start of discharge to the:

Department of Health

Clean Water Branch

919 Ala Moana Boulevard, Room 301

Honolulu, Hawaii 96814-4920

The CWB-NOI Forms are available online at http://www.hawaii.gov/health/environmental/water/cleanwater/forms/genl-index.html. Inquiries may be directed to the CWB at (808) 586-4309 or by fax (808) 586-4352.

2. For Well Pump Testing

The discharger shall take all measures necessary to prevent the discharge of pollutants from entering State waters. Such measures shall include, if necessary, containment of initial discharge until the discharge is essentially free of pollutants. If the discharge is entering a stream or river bed, best management practices shall be implemented to prevent the discharge from disturbing the clarity of the receiving water. If the discharge is entering a storm drain, the
discharger must obtain written permission from the owner of the storm drain prior to discharge. Furthermore, best management practices shall be implemented to prevent the discharge from collecting sediments and other pollutants prior to entering the storm drain.

3. For Construction Activities Disturbing One (1) or More Acres of Total Land Area

By HAR, Title 11, Chapter 55, Appendix C, effective October 22, 2007, and compiled June 15, 2009, an NPDES permit or Notice of General Permit Coverage is required before the start of the construction activities that result in the disturbance of one (1) or more acres of total land area, including clearing, grading, and excavation. The total land area includes a contiguous area where multiple separate and distinct construction activities may be taking place at different times on different schedules under a larger common plan of development or sale. An NOI (see Comment No. 1, above) shall be submitted 30 calendar days before the start of construction activities.

Thank you for the opportunity to comment,

Joanna
Joanna L. Seto
Engineering Section Supervisor
Clean Water Branch
State of Hawaii Department of Health
Phone: (808) 586-4309
Fax: (808) 586-4352

Notice: This information and attachments are intended only for the use of the individual(s) or entity to which it is addressed, and may contain information that is privileged and/or confidential. If the reader of this message is not the intended recipient, any dissemination, distribution, or copying of this communication is strictly prohibited and may be punishable under state and federal law. If you have received this communication and/or attachments in error, please notify the sender via e-mail immediately and destroy all electronic and paper copies.
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

September 22, 2010

TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Acting Chief, Wastewater Branch
Stuart Yamada, Chief, Safe Drinking Water Branch
Alec Wong, Chief, Clean Water Branch
Dr. Keith Kawecka, Office of Hazard Evaluation and Emergency Response

FROM: Laura H. Thielen, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
Claudia Well (Well No. 3686-35) TMK 1-5-057:060
Well address: 15-964 Paradise Ala Kai Drive

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit 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 24, 2010. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

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

R: ss
Attachment(s)

RESPONSE:

[Well description and criteria]

For the applicant's information, a source of possible wastewater contamination is located near the proposed well site (information attached).

An NPDES permit is required.

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

One-Stop database screen info

Contact Person: Jerry Kunogawa Eng. in Hilo 933-0401

Signed: Date: 9-27-2010
STATE OF HAWAII - DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH DIVISION - SANITATION BRANCH
SANITARIAN'S REPORT OF CESSPOOLS

Dist: 48

Property Owner: Robert H. Higa
Address: 1515 Keale St., Waipahu

New Construction: Yes
Intended for: Lodging House

Builder or Contractor: Self

Distance from building: 10 ft.
Boundary: 20 ft.
Stream or well: 0

Diameter (clear): 6 ft.
Depth: 16 ft.
No ft. down to water if any: 0

Capacity (Gallons): 3172
Ground slope: uneven

State soil or rock formation starting from surface: Layered lava rock formation from surface to bottom

Kind of wall or curb: Natural rock
Kind of cover: Concrete

Distance from surface of ground to top of cover: 14 ft.

Approved: 6-2-70

San. B. Poo: San. Inspector
SANITARIAN
FROM: RYAN
DATE: 24-Aug-10
SUSPENSE DATE: 31-Aug-10

TO: FUJII, N.
INIT: 1
TO: HARDY, R.
INIT: 2
TO: HOAGBIN, S.
INIT: 3
TO: IMATA, R.
INIT: 4
FOR: KUNIMURA, I.
INIT: 1
NAKAMA, L.
INIT: 3
UYENO, D.
INIT: 3
YODA, K.
INIT: 4
YOSHINAGA, M.
INIT: 4

PLEASE:
1 Approval
Review & Comment
2 Signature
Take Action
3 Signature
Information
4 Type Final, label file folder, update People.doc
5 File & Input Issue Date
6 Xerox __ copies

WELL NUMBER "3686 - 2"
WELL NAME Claudia
WUP Number na

WELL CONSTRUCTION
PUMP INSTALLATION

ATTACHMENTS FOR APPLICATION PROCESSING - Both applicant & staff generated

1 TRANS. LETTER
2 PERMIT PROCESS TABLE
3 CWRM MAPS
4 APPL. FORM (11 COPIES)
5 USGS MAPS (11 COPIES)
6 TAX MAPS (11 COPIES)
7 PARCEL OWNER VERIF.
8 CONTRACTOR VERIF.
9 ALL INFO FILLED IN
10 BACKGROUND CHECK
11 $25 FEE DEPOSIT SLIP
12 DHP/CDUP/SMA pre-screen

13 EA 343 S(a) triggers? NO

(SMA map printout http://gis.hicentral.com/website/parcelzoning/viewer.htm., or INGRID'S SMA/CD MAP)
(LUC map printout http://luc.state.hi.us/luc_maps.htm., or INGRID'S SMA/CD MAP)

INCOMPLETE ACTION DATES:

DATE ACTION

FILE FOLDER ALREADY MADE, IN FILE CABINET

FILE FOLDER ALREADY MADE, IN FILE CABINET
September 22, 2010

Mr. Derrick Moreira
Derrick’s Well Drilling and Pump Service
P.O. Box 2187
Keeau, HI 96749

Dear Mr. Moreira:

Well Construction/Pump Installation Permit Application for Well No. 3686-35

We acknowledge receipt, on August 23, 2010, of your completed Well Construction/Pump Installation permit application and filing fee for the Claudia Well (Well No. 3686-35). You can expect your application to be processed within ninety (90) days from this date.

For your information, the attached table describes the process, responsible parties, and deadline requirements for drilling or modifying a well and installing, modifying, or replacing a pump.

By this acceptance letter, we are also notifying the well operator/landowner that water may not be pumped for purposes other than testing until the certificate of well construction/pump installation completion letter is issued to the well operator and landowner. Additionally, the permitted pump capacity described on the pump installation permit may be reduced in the event that the pump test does not support the capacity. No certificate of pump installation will be issued until the Commission has determined that the pump capacity will not have adverse effects on the aquifer, other nearby wells, or streams. In other words, you may need to remove the pump and install a smaller pump at the Commission’s discretion before you can withdraw water for purposes other than testing.

If you have any questions about your permit application, please contact Ryan Imata of the Commission staff at 587-0255 or toll-free at 974-4000 (Hawaii), 274-3141 (Kauai), 984-2400 (Maui), or 1-800-468-4644 (Lanai & Molokai) extension 70255.

Sincerely,

LENORE N. OHYE
Acting Deputy Director

RI:ss
Attachment

c: Claudia Miller
TO: Honorable Chiyoue L. Fukino, M.D., Director
   Department of Health
   Attention: Acting Chief, Wastewater Branch
               Stuart Yamada, Chief, Safe Drinking Water Branch
               Alec Wong, Chief, Clean Water Branch
               Dr. Keith Kawaoka, Office of Hazard Evaluation and Emergency Response

FROM: Laura H. Thielen, Chairperson
      Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
         Claudia Well (Well No. 3686-35) TMK 1-5-057:060
         Well address: 15-964 Paradise Ala Kai Drive

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit 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 24, 2010. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact 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 (defined as 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 utilizing 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).

An NPDES permit is required.

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

In the event that the location of the well changes but is still within the parcel described on this application, our division considers the comments to still be applicable, and do not need to review the new location.

No comments/objections

Contact Person: __________________ Phone: __________________
Signed: ___________________ Date: ___________________
TO: Morris Atta, Administrator  
Land Division  

FROM: Lenore N. Ohye, Acting Deputy Director  
Commission on Water Resource Management  

SUBJECT: Well Construction/Pump Installation Permit Application  
Claudia Well (Well No. 3686-35) TMK 1-5-057:060  

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.  

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by October 24, 2010. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.  

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

RESPONSE:  

- [ ] A water lease/permit is required of this applicant and an application for such will be requested by our division.  
- [ ] A water lease/permit is not required of this applicant.  
- [ ] A water lease/permit has been obtained by the applicant through lease no. __________.  
- [ ] Other relevant Land Division rules/regulations, information, or recommendations are attached.  
- [ ] No objections  
- [ ] Other comments:  

Contact Person: ___________________________ Phone: ___________________________  

Signed: ___________________________ Date: ___________________________
TO:       Dr. Puualo'akalani Ai, Administrator  
          Historic Preservation  
          Attn: Theresa Donham

FROM:    Lenore N. Ohye, Acting Deputy Director  
          Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application  
          Claudia Well (Well No. 3686-35) TMK: 1-5-057:060

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump  
Installation permit application.

We would appreciate your comments on the captioned application with regard to the programs,  
plans, and objectives specific to your division. Please respond by returning this cover memo form by  
October 24, 2010. If we do not receive comments or a request for additional review time by this date, we  
will assume you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this  
permit application or request additional review time, please contact Ryan Imata of the Commission staff  
at 587-0255. If you require additional information regarding specific information that can be provided by  
the applicant, please contact the applicant directly at the contact information provided on the application  
form.

RESPONSE:

[ ] This is a [ ] public (county or state) project [ ] private project and [ ] will [ ] may disturb historic sites.

[ ] We concur that the work described under this permit will not disturb historic sites.

[ ] We do not concur that the work described under this permit will not disturb historic sites. We require the following for  
our concurrence:

Contact Person: ____________________________ Phone: __________________

Signed: ____________________________ Date: __________________
Ms. Bobby Jean Leithead Todd
Planning Director
Planning Department
County of Hawaii
101 Aupuni Street, Suite 3
Hilo, HI 96720

Dear Ms. Todd:

Special Management Area Use Permit Requirements for
Well Construction/Pump Installation Permit Application
Claudia Well (Well No. 3686-35)

Transmitted for your review and comment is a copy of the captioned Well Construction/Pump
Installation permit application.

We would appreciate your comments on the captioned application with regard to the SMA permitting
requirements specific to your division. Please respond by returning this cover memo form by October 24,
2010. If we do not receive comments or a request for additional review time by this date, we will assume you
have no comments.

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

Sincerely,

[Signature]
LAURA H. THIELEN
Chairperson

RI:ss

RESPONSE:

[ ] This well project [ ] does not require a SMA. If a SMA is required if [ ] has [ ] has not been approved
and [ ] is [ ] is not currently active.

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

[ ] No objections

[ ] Other comments:

Contact Person: __________________________ Phone: __________________________
Signed: ________________________________ Date: __________________________
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<th>Bds</th>
<th>Bths</th>
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<th>Liv area (sq ft)</th>
<th>Last Sale</th>
<th>Sale Instrument</th>
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<td>11/9/2004</td>
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Copyright ©9/21/2010 by Hawaii Information Service
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</tr>
<tr>
<td><strong>NAME:</strong> DERRICK'S WELL DRILLING &amp; PUMP SERVICES LLC</td>
</tr>
<tr>
<td><strong>TRADE NAME:</strong></td>
</tr>
<tr>
<td><strong>STATUS:</strong> CURRENT, VALID &amp; IN GOOD STANDING</td>
</tr>
<tr>
<td><strong>ENTITY:</strong> ORGANIZATION (LIMITED LIABILITY COMPANY)</td>
</tr>
<tr>
<td><strong>ORIG LIC DATE:</strong> 06/19/2007</td>
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<tr>
<td><strong>CLASS PREFIX:</strong> C</td>
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<td><strong>RESTRICTION:</strong></td>
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<tr>
<td><strong>CONDITIONS AND LIMITATIONS:</strong></td>
</tr>
<tr>
<td><strong>BUSINESS ADDR:</strong> 15-2005 29TH AVE KEAAU HI 96749</td>
</tr>
<tr>
<td><strong>MAILING ADDR:</strong> P O BOX 2187 KEAAU HI 96749</td>
</tr>
</tbody>
</table>

Click here to enter search criteria for prior complaints history ->
For prior complaints and disciplinary history, contact licensing and business information center at (808) 587-3295.
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<th>COST OBJ CTR</th>
<th>PROJECT PH ACT</th>
<th>AMOUNT</th>
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<td>S 11 326 C</td>
<td>1026 0752</td>
<td></td>
<td>(1) $25.00</td>
<td>Derrick's Well Drilling &amp; Pump Services, LLC</td>
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**TOTAL** $ 25.00

**REMARKS:**

LINE (1) Claudia’s Well
LINE (2)
LINE (3)
LINE (4)
LINE (5)
LINE (6)
LINE (7)
LINE (8)
LINE (9)
LINE (10)
**APPLICATION FOR A WELL CONSTRUCTION / PUMP INSTALLATION PERMIT**

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by 6 copies and a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 808-587-4226. For further information and updates to this application form, visit http://www.hawaii.gov/dlnr/cwrm.

**WELL LOCATION INFORMATION**

<table>
<thead>
<tr>
<th>1. STATE WELL NO.</th>
<th>2. WELL NAME</th>
<th>3. ISLAND</th>
<th>4. TMK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Claudia’s Well</td>
<td>Hawaii</td>
<td>1 - 5 - 57 - 60</td>
</tr>
</tbody>
</table>

The following be attached before this application is accepted as complete (check off if attached):
- Portion of 7.5-Minute Series USGS topographic map (scale 1:24,000) with well location labeled and include the name of the quad map
- Property tax map showing well location referenced to established property boundaries
- Photograph of the proposed well site
- A schematic diagram showing the well site, access road and proposed well infrastructure
- For dug wells, an existing plan with cross section profiles showing existing and final grades

<table>
<thead>
<tr>
<th>5. WELL OPERATOR’S NAME/COMPANY</th>
<th>6. LANDOWNER’S NAME/COMPANY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Derrick’s Well Operator’s Contact</td>
<td>Claudia Miller</td>
</tr>
<tr>
<td></td>
<td>Claudia Miller</td>
</tr>
</tbody>
</table>

**PROPOSED WELL CONSTRUCTION**

7. Proposed Work
- Modify Existing Well
- Abandon/Seal Well
- Construct New Well

8. Construction Type
- Drilled Well
- Dug Well
- Shaft
- Tunnel

**PROPOSED PUMP INSTALLATION**

10. Proposed Work
- Install New Pump
- Replace Pump

11. Proposed Pumping Rate
- gpm
- Flowmeter
- Other (explain)

12. Proposed Amount of Withdrawal
- gpd
- 15,000

9. Is this well part of a battery of wells? Yes No

14. Proposed Surveyor name and license number (a surveyor is required for all Well Construction Permits and may be required for some Pump Installation Permits)

**PROPOSED USE**

- 15. Municipal (water systems serving greater than 25 individuals or 15 service connections)
- 16. Domestic - Number of units to be served: 2
- 17. Industrial (describe)
- 18. Irrigation (describe crop and no. of acres)
- 19. Military (describe)
- 20. Other (describe)

**OTHER LEGAL REQUIREMENTS**

If required, items 21, and 22 must be obtained before the Commission can legislate a permit:

21. Conservation District Use Permit (CDUP)
- Well is in Conservation District
  - Required, CDUP #
  - Not Required (attach documentation from OCCL)
  - I have not checked with OCCL about whether or not a CDUP is required. I understand that checking with OCCL prior to making this application will expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.
  - Well is not in Conservation District
  - I have not checked if well is in or out Conservation District. I understand that checking if the well is in a Conservation District may expedite my review. I further understand that issues raised may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.

22. Special Management Area Permit (SMAP)
- Required, SMA #
  - date approved
  - Not Required (attach documentation from applicable County agency)
  - I have not checked with the county about whether or not an SMA Permit is required. I understand that checking with the County prior to making this application may expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.
  - I have not consulted with the HPD regarding potential impacts of well construction activities on historic sites. I have attached applicable documentation from the HPD.
  - I have not consulted with the HPD regarding potential impacts of well construction activities on historic sites. I understand that checking with the HPD prior to making this application may expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.

23. State Historic Preservation Division (SHPD) of the Department of Land and Natural Resources
- I have consulted with the HPD regarding potential impacts of well construction activities on historic sites. I have attached applicable documentation from the HPD.
- I have not consulted with the HPD regarding potential impacts of well construction activities on historic sites. I understand that checking with the HPD prior to making this application may expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.

Additional remarks, explanations, etc. (attach additional sheet if more space is needed)

**SITE PHOTO**

- 24. WELL DRILLER (Must be filed out if application is for Well Construction)
  - Derrick’s Well Drilling & Pump Svc C-28001
  - Signature: Print
  - Date: 08/18/10

- 25. PUMP INSTALLER (Must be filed out if application is for Pump Installation)
  - Derrick’s Well Drilling & Pump Svc C-28001
  - Signature: Print
  - Date: 08/18/10

NOTE: Signing below indicates that the signatories understand and swear that the information provided is accurate and true to the best of their knowledge.

Further, the signatories understand that upon permit approval: (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 60 days after the completion date of the permitted work; (3) in the event that the application is not completed correctly, any permit may be suspended until the item is brought in to compliance, and any work done while the permit is in suspension may result in fines of up to $5000/day.
October 4, 2010

Mr. Ryan Imata  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawai‘i  
PO Box 621  
Honolulu, HI 96809  

Dear Mr. Imata:

Subject: Special Management Area Use Permit Requirements for Well Construction/ Pump Installation Permit Application  
Claudia Well (Well No. 3686-35)
Land Owner: Claudia Miller  
Tax Map Key: (3) 1-5-057:060; Hawaiian Paradise Park, Puna, Hawai‘i

This is in response to your request for comments regarding an application for a well construction/ pump installation permit for the subject property. The application proposes a withdrawal of 15,000 gallons per day. In addition, the application states that the well will serve 2 domestic units.

The subject parcel is zoned as A-1a (Agricultural - minimum 1-acre lot size) and is located within the State Land Use Agricultural district. In addition, the entire parcel is located in the Special Management Area (SMA) and does have frontage along the coastline.

According to the County of Hawai‘i Real Property Tax Records, a building permit for the existing single-family dwelling was issued on February 20, 1970. According to Chapter 205A-22, Hawaii Revised Statutes and Planning Commission Rule 9-4(e) (2) (O) relating to Special Management Area, “development” does not include “Structural and non-
structural improvements to existing single-family residences, where otherwise permissible”. Therefore, the proposed construction of a water well may be considered exempt from the definition of “development”.

However, according to Chapter 25 of the Hawai‘i County Code (Zoning), only one single-family dwelling or one farm dwelling shall be permitted on any building site in the Agricultural district. Additional farm dwellings may be permitted only upon the following conditions:

a. The applicant shall complete an application for an additional farm dwelling and submit an agricultural development and use program, farm plan or other evidence of the applicant’s continual agricultural productivity or farming operation for the review and approval by this department.

b. A farm dwelling agreement for each additional farm dwelling shall be executed between the property owner and the County of Hawaii.

An application for an additional farm dwelling has not been submitted or approved by this office. Our concern is the amount of proposed water withdrawal from this well and its usage. As previously stated, our department has only approved one single-family dwelling—not the 2-units proposed by the application.

Therefore, more information is needed about the proposed use of the well before an SMA determination can be made.

If you have questions, please feel free to contact Bethany Morrison of this office at 961-8138.

Sincerely,

BJ LEITHEAD TODD
Planning Director

BJM:cs
P:\wpwin60\CZM\Letters\2010\DLNRWellConstructionPermit15057060.doc

cc: Claudia Miller
PROPOSED WELL SECTION (Please attach schematic if different from diagram provided below)

For non-salt water Basal Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or, Bottom Elevation = \( \frac{1}{4} \times \text{Aquifer Thickness} \)

Example: Estimated + 2 ft. Water Level Elev. \( \rightarrow \) Bottom Elevation of Well Limit = \( \left( \frac{\text{Water Elevation} - \text{Ground Elevation}}{4} \right) \) = -18.5 ft.

Solid Casing Material:
- Carbon Steel: compliant with (check one or more): ANSI/AWWA C200, API Spec. 5L, ASTM A53, ASTM A139
- Stainless Steel: compliant with (check one or more): ASTM A409 (production wells), ASTM A312 (monitor wells)
- ABS Plastic: conforming to ASTM F480 and ASTM D1527
- PVC Plastic: conforming to ASTM F480 and ASTM D3517
- Thermoset Plastic: (check one)
  - Filament Wound Resin Pipe conforming to ASTM D2996
  - Centrifugally Cast Resin Pipe conforming to ASTM D2997
  - Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
  - Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
  - PTFE Fluorocarbon Tubing conforming to ASTM D3296
  - FEP Fluorocarbon Tubing conforming to ASTM D3296

Open Casing Material:
- Carbon Steel: compliant with (check one or more): ANSI/WWA C200, API Spec. 5L, ASTM A53, ASTM A139
- Stainless Steel: compliant with (check one or more): ASTM A409 (production wells), ASTM A312 (monitor wells)
- ABS Plastic: conforming to ASTM F480 and ASTM D1527
- PVC Plastic: conforming to ASTM F480 and ASTM D1785
- Thermoset Plastic: (check one)
  - Filament Wound Resin Pipe conforming to ASTM D2996
  - Centrifugally Cast Resin Pipe conforming to ASTM D2997
  - Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
  - Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
  - PTFE Fluorocarbon Tubing conforming to ASTM D3296
  - FEP Fluorocarbon Tubing conforming to ASTM D3296

*The approximate elevation must be referenced to mean sea level (msl) at the time of application filing. Final elevations of well components shall be submitted in the Well Completion/Abandonment reports and referenced to a benchmark which has been established by a surveyor licensed by the State.

WCI App. Form 10/05/04
Proposed Well Site

- 508
- 509
- 510
- Adelle Davis Sieglinger Estate

- 74
- 73
- 72

- 70.93
- 83.82
- 125.00

- 0.34 Ac.
- 0.38 Ac.
- 0.43 Ac.

- 50.00
- 80.00

- 72

- Robert F. Hills &
  wf. Winifred
  E. - 47
  0.86 Ac.

- 396

- 60

- 100.00

- 395

- 61
  0.83 Ac.

- 100.00

- 62
  0.23 Ac.

- 100.00

- 394

- 100.00

- 383

- 13

- 0.27 Ac.

- 384

- 12
  0.23 Ac.

- 100.00

- 385

- 11
  0.23 Ac.

- 100.00

- 386

- 100.00

- 100.00

- 100.00

- 100.00

- 100.00

- 100.00

- 100.00
PARID: 150570600000
MILLER, CLAUDIA GRACIELA

Proposed Well Site

Hawaii County