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 of Well Limit = (Water Elevation - )
Example: Estimated = 2 ft. Water Level Elev. Bottom Elevation of Well Limit = (2 - ) = -18.5 ft.

Solid Casing Material:
Carbon Steel: compliant with (check one or more): [ ] ANSI/AWWA C200 [ ] API Spec. 5L [ ] ASTM A53 [ ] ASTM A139
And compliant with (check one or more): [ ] ASTM A216 (or A906) [ ] Type E [ ] Type S [ ] Grade B [ ] Other
Stainless Steel: (check one): [ ] ASTM A409 (production wells) [ ] ASTM A312 (monitor wells)
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
Thermoset Plastic: (check one) [ ] Reinforcement Wound Resin Pipe conforming to ASTM D2997
[ ] Centrifugally Cast Resin Pipe conforming to ASTM D2997
[ ] Reinforcement Plastic Mortor Pressure Pipe conforming to ASTM D3517
[ ] Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
[ ] PTFE Fluorocarbon Tubing conforming to ASTM D3296
[ ] 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
And compliant with (check one or more): [ ] ASTM A216 (or A906) [ ] Type E [ ] Type S [ ] Grade B [ ] Other
Stainless Steel: (check one): [ ] ASTM A409 (production wells) [ ] ASTM A312 (monitor wells)
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
Thermoset Plastic: (check one) [ ] Reinforcement Wound Resin Pipe conforming to ASTM D2997
[ ] Centrifugally Cast Resin Pipe conforming to ASTM D2997
[ ] Reinforcement Plastic Mortor Pressure Pipe conforming to ASTM D3517
[ ] Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
[ ] PTFE Fluorocarbon Tubing conforming to ASTM D3296
[ ] Fluorocarbon Tubing conforming to ASTM D3296

W/CP 95 App Form 10/05/04
WELL LOCATION INFORMATION

1) WELL ACRE (If a well exists): 0.6

2) WELL NAME: Helenithi well

3) COUNTY: Hawaii

4) TOWN: 1 - 5 - 52 - 33

The following will 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 (if applicable)

5 WELL OPERATOR’S NAME/COMPANY: James & Erynn Helenithi

6 LANDOWNER’S NAME/COMPANY: same

7 Well Operator’s Mailing Address: PO box 321 Kirtstown HI 96760

8. Proposed Work

☐ Construct New Well

☐ Modify Existing Well

☐ Abandon/Seal Well

9 Construction Type

☐ Drilled

☐ Dug

☐ Open

☐ Tunnel

10. Proposed Pumping Rate: 3 gpm (gallons per minute)

11. Proposed Pumping Rate: 12 gpm (gallons per minute)

12. Proposed Pumping Rate: 250 gpm (gallons per minute)

13. Proposed Pumping Rate: 500 gpm (gallons per minute)

14. Method of flow measurement:

☐ Flow meter

☐ Open Pipe

☐ Well

☐ Office

☐ Other

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

PROPOSED WELL CONSTRUCTION

PROPOSED PUMP INSTALLATION

16. Municipal (water systems serving greater than 25 individuals or 15 service connections)

17. Domestic Number of units to be served: 1

18. Industrial (describe)

19. Irrigation (describe crop and no. of acres)

20. Military (describe)

21. Other (describe)

OTHER LEGAL REQUIREMENTS

☐ Required: Items 22, 23 must be obtained before the application is approved.

22. Conservation District Use Permit (CDUP):

☐ Required: CDUP # date approved

☐ Not Required: (attach documentation from OCCLU)

23. Special Management Area Permit (SMAP):

☐ Required: SMA # date approved

☐ Not Required: (attach documentation from applicable County agency)

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

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 completed work submitted 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 to compliance, and any work done while the permit is in suspension may result in fines of up to $5000/day.

24. WELL DRILLER (Must be filled out if application is for Well Construction):

Rodney K Diamond

BC23379

License No.

HCR #3 Box 14073 Keaau HI 96749

Phone: 987-8100

Fax: 966-4129

E-mail: RodK_Diamond@hawaii.rr.com

25. PUMP INSTALLER (Must be filled out if application is for Pump Installation):

Rodney K Diamond

BC23379

License No.

HCR #3 Box 14073 Keaau HI 96749

Phone: 987-8100

Fax: 966-4129

E-mail: RodK_Diamond@hawaii.rr.com

WCPI App. Form 10/05/04
<table>
<thead>
<tr>
<th>F YR APP D</th>
<th>SRC OBJ</th>
<th>COST</th>
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TOTAL $50.00

REMARKS:
LINE (1) B. Bells Well
LINE (2) Helenihi Well
LINE (3) 
LINE (4) 
LINE (5) 
LINE (6) 
LINE (7) 
LINE (8) 
LINE (9) 
LINE (10)
**PUBLIC RECORD DATA**

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<td>6th Ave HELENIHI</td>
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This information has been supplied by third parties and has not been independently verified by Hawaii Information Service and is, therefore, not guaranteed.
November 8, 2005

TO: Melanie Chinen, Administrator
   Historic Preservation
FROM: Dean Nakano, Acting Deputy Director
       Commission on Water Resource Management
SUBJECT: Well Construction/Pump Installation Permit Application
         Helenihi Well (Well No. 3586-09)

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 December 3, 2005. 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.

RI: ss
Attachment(s)

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: ________________
November 8, 2005

TO: Russell Tsuji, Administrator
    Land Division

FROM: Dean Nakano, Acting Deputy Director
    Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
          Helenihi Well (Well No. 3586-09)

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 December 3, 2005. 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: __________________
November 8, 2005

TO:          Honorable Chiyome L. Fukino, M.D., Director
             Department of Health
             Attention: Director’s Office
             Harold Yee, Wastewater Branch
             William Wong, Safe Drinking Water Branch
             Alec Wong, Clean Water Branch

FROM:        Peter T. Young, Chairperson
             Commission on Water Resource Management

SUBJECT:     Well Construction/Pump Installation Permit Application
             Helenihi Well (Well No. 3586-09)

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 December 3, 2005. 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 II, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

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

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

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

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

An NPDES permit is required.

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

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

No comments/objections

Contact Person: ____________________________ Phone: ____________________________

Signed: ____________________________ Date: ____________________________
November 8, 2005

Mr. Rod Diamond
Rod Diamond Drilling
HCR #3 Box 14073
Keeau, HI 96749

Dear Mr. Diamond:

Well Construction/Pump Installation Permit Application for Well No. 3586-09

Through a background search we have discovered that the status of your contractor’s license is “automatically forfeited due to insurance loss”. We understand that this was a mistake on the part of your insurance company, and it was not your fault. However, we cannot issue a permit until this situation is resolved, and we understand you have taken the appropriate steps towards the resolution. Until then we will continue processing your permit application. Please notify us when the insurance status is resolved.

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), extension 70255.

Sincerely,

DEAN A. NAKANO
Acting Deputy Director

RI:ss
Attachment
c: James Helenihi
COMMISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR NEW APPLICATIONS


DATE: 14-Sep-05
SUSPENSE DATE: 21-Sep-05

TO: NAKAMA, L. NAKANO, D. OHYE, M. SAKODA, E. SUBIA, S. SWANSON, S. UYENO, D. YODA, K. YOSHINAGA, M.

PLEASE:
1 Approval
1 Signature
3 Information

See Me
1 Review & Comment
Take Action

Type Draft acknow letter
2 Type Final w/elec. signat., label file folder

File
4 Xerox copies

SUSPENSE DATE: 1-21-05

WELL NUMBER 3586-09
WELL NAME Helenihi

WELL CONSTRUCTION

PUMP INSTALLATION

BoTH

ATTACHMENTS FOR APPLICATION PROCESSING - Both applicant & staff generated
1 TRANS. LATTICE
2 PERMIT PROCESS TABLE
3 CURRM MAP
4 APPL. FORM (11 COPIES)
5 USGS MAPS (11 COPIES)
6 TAX MAPS (11 COPIES)
7 PARCEL OWNER VERIF.
8 CONTRACTOR VERIF. DCCA LICENSE SCREEN PRINTOUT
9 ALL INFORMED IN
10 BACKGROUND CHECK
11 $25 FEE DEPOSIT SLIP
12 DHCP/CDUP/SMAP PRINTOUT

(SMA map printout http://gis.hicentral.com/website/parcelzoning/viewer.htm.)

FOLDER: 1 THIS NON FILE FOLDER, ATTACHED FOLDER ALREADY MADE, IN FILE CABINET

INCOMPLETE ACTION DATES
DATE ACTION

FRM applicant/on application

see and address background loose ends for B. Bells app that came in too

James
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 Helenihi Well (Well No. 3586-09) at TMK 1-5-052: 033, 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

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 15 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 60 days after completion of work. This form can be obtained by contacting staff or on the internet at www.hawaii.gov/dlnr/cwrm.

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 any related staff submittal approved by the Commission are incorporated into this permit by reference. This permit is also subject to the HWCPIS. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.

10. 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.

11. 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.

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

Date of Approval: December 2, 2005
Expiration Date: December 2, 2007

PETER T. YOUNG, 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-23379 Date: 12-6-05
Printed Name: Rod Diamond Firm or Title: Diamond Construction and Water Well Drilling

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.
FLOW RANGE: 5 - 14 GPM

OUTLET SIZE: 1¼ " NPT

NOMINAL DIA. 4"

10S60-58DS (5 HP)

10S50-48DS (5 HP)

10S30-34 (3 HP)

10S20-27 (2 HP)

10S15-21 (1½ HP)

10S10-15 (1HP)

10S07-12 (¾ HP)

10S05-9 (½ HP)

10S03-6 (¼ HP)

OPERATING RANGE: 5 to 14 GPM
CAPACITIES BELOW 5 GPM
SEE MODEL 7S

3450 RPM

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
MOTOR STANDARD, 3450 RPM.

Performance conforms to ISO 9906. 1999 (E) Annex A
Minimum submergence is 2 feet.
Bench mark elevation surveyed to nearest 0.01 ft. = 97.4 ft. mean sea level

Elevation of top of chase tube = N/A ft. mean sea level

Pump intake depth = 101 ft. (referenced to bench mark)

Chase tube depth = N/A ft. (referenced to bench mark)

If airline installed, bottom of airline elevation = N/A ft. mean sea level
## 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 808-482-225. For updates to this form or additional information, please visit our website at [http://www.state.hi.us/dlrw/cwm](http://www.state.hi.us/dlrw/cwm).

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<th>HELENIHI WELL</th>
<th>Island:</th>
<th>Hawaii</th>
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<td>4. Date Pump Installed:</td>
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<td>Other*, explain below</td>
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*attach schematic

7. Fill in the as-built section on the other side of this sheet.

8. Attach the rating curve for the installed pump.

9. Attach photograph of well clearly showing the benchmark on the concrete pad, the well

10. Other remarks/comments:

---

**Pump Installation Contractor (print):** Rod Diamond

**C-57/C-57a/A Lic. No.:** BC 23379

**Signature:** [Signature]

**Date:** 12-9-05
WCR 2 Check for Well No. 3586-09 (survey to regulation memo)

1. **Pump Tests Check** (special condition of PIP? Yes/No)  Kevin Gooding (initial if yes)  
   
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<th>Yes</th>
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<th>If no, describe deficiency</th>
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</table>

   **Step-Drawdown Test**
   
   followed WCPl Stds
   analysis attached
   proposed pump cap o.k.

   **Aquifer Pump Test**
   
   followed WCPl Stds
   T & S analysis attached

   **Well Interference**
   
   estimated Steady-State
   drawdown at 1-mile radius is __________ ft.
   analysis attached

   **Stream Surface Water Impacted**
   
   If yes, identify most probable stream

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔</td>
<td></td>
</tr>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

   **Geology Code for Well index:** Q P  

2. **Pump Installation Check**  Mitch Ohye (initial)  
   
<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
<th>If no, describe deficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔</td>
<td></td>
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</tbody>
</table>

   data complete
   followed Special Cond & Elev.
   well database updated

3. **Charley/Lenore/Ryan** (initial) take action based on above analysis

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

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

4. Roy (initial) check (Entered WCR 2/PICC accept date into database)  
5. Susan (initial) finalize
6. Charley/Lenore/Ryan File
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 Helenihi Well (Well No. 3586-09) at TMK 1-5-052: 033, 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 shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.

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 at www.hawaii.gov/dlnr/cwrm/forms.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 basalt 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.

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 subsurface cultural 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' Division of Historic Preservation.

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 upstream 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/forms.htm for current forms).

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 any related staff submittal approved by the Commission are incorporated into this permit by reference. This permit shall be approved by the Chairperson prior to invoking the variance.

11. 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 six months before the permit expires.

12. 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) prior to any well sealing or plugging work.

13. The permittee, its successors, assigns, heirs, or devisees 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 or connected with the granting of this permit.

14. 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 Hawaii Administrative Rules §13-168-11(f).

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

Date of Approval: December 2, 2005
Expiration Date: December 2, 2007

PETER T. YOUNG, 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 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-23379
Printed Name: Rod Diamond
Firm or Title: Diamond Construction and Water Well Drilling

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.
Well Elevation

Benchmark Elevation
EST97.4

I certify that the elevation shown above:
1) Was done in accordance with acceptable surveying practices
2) Is accurate to the nearest 0.01 ft.
3) Is referenced to mean sea level
SKETCH OF WELL LOCATION
(Referenced to permanent landmark, i.e. building, road, fence, etc.)

N 19° 36° 23
W 154° 38 3

8-3586-09 HELEN

6TH AVE HPP KEAAU HI
**WELL NUMBER:** 3586-09

<table>
<thead>
<tr>
<th>Depths (ft.)</th>
<th>Rock Description, Water Level, etc.</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 103</td>
<td>BASALT / WATER AT 97'</td>
<td>12-5-05</td>
</tr>
</tbody>
</table>

**Remarks:**

_WCR1 Form 10/19/04 Page 3 of 5_
13. AS-BUILT WELL SECTION (Please attach as-built if different from diagram provided below)

Elevation at top of casing: 98.6 ft, msl
(to nearest 0.01 ft.)

Hole Diameter: 12 in.

Minimum of 2" Radius & 4" Thick Concrete Pad

Ground Elevation: 97 ft, msl

Elevation: 0.0111.
(Survey to nearest 0.01 ft.)

Survey Benchmark: 97.4 ft.

Open Casing: [ ] Porfiorated [ ] Screen

Length: 6 ft.
Nominal Diameter: 6 inches
Wall Thickness: Schedule 40
Bottom Elevation: -6 ft, msl

Open Hole:
Length: N/A
Diameter: ________ in.
Bottom Elevation: ________ ft, msl

Solid Casing Material:
Carbon Steel: compliant with (check one or more): □ ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
And compliant with (check one or more): □ ASTM A242 or A606 □ Type E □ Type S □ Grade B □ Other

Stainless Steel: (check one):
□ ASTM A409 (production wells) □ ASTM A312 (monitor wells)
□ API Spec. 5L □ ASTM A53 □ ASTM A139

ABS Plastic conforming to ASTM F490 and ASTM D1527: (check one)
□ Schedule 40 □ Schedule 80

PVC Plastic conforming to ASTM F490 and (ASTM D1785 or ASTM D2241): (check one)
□ Schedule 40 □ Schedule 80 □ Schedule 120

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/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
And compliant with (check one or more): □ ASTM A242 or A606 □ Type E □ Type S □ Grade B □ Other

Stainless Steel: (check one):
□ ASTM A409 (production wells) □ ASTM A312 (monitor wells)
□ API Spec. 5L □ ASTM A53 □ ASTM A139

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□ 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
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 96803. 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 808-0226. For updates to this form or additional information, please visit our website at http://www.state.hi.us/dlnr/cwmw/

1. State Well No.: 3586-09  Well Name: HELENIHI WELL  Island: Hawaii
2. Address: PO BOX 321 KIRITISTOWN HI 96760  Tax Map Key: 1-5-52-33
3. Drilling Company: Diamond Drilling and Pump
4. Drilling method used during construction: Rotary
5. Date Well Construction (drilled, cased, grouted) completed: 12-9-05

In addition to the driller's log, if a geologic log was prepared, please submit with this form.

6. Was the subject well cored? ☐Yes ☐No
7. Initial water-level encountered 97 ft. below ground  Date and time of measurement: 12-6-05 AM

8. Step-Drawdown Test completed? ☐No ☐Yes
9. Constant Rate Aquifer Test completed? ☐No ☐Yes

Parameters prior to pump test:
10. Water-level: 33 ft. above msl Date and time of measurement: 12-6-05 AM
11. Chloride: 32 ppm Date and time of sampling: 12-6-05 AM
12. Temperature: °F 66° Date and time of measurement: 12-6-05 AM

13. Fill in the as-built section on the other side of this sheet.
14. Attach photograph of well and concrete pad showing benchmark on concrete pad.
15. Fill in attached surveyor's report.
   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: NONE

Licensed Driller: Rod Diamond  C-57 Lic. No. BC 23379

Signature: 

Date: 12-9-05
5. Your approved pump has a capacity of 10 gpm at a head of 420 ft. In the future, pump replacements of equal or lesser capacity will not require an additional permit from the Commission, but will require the submission of a Well Completion Report Part II by the licensed pump installer. If the pump replacement is greater than the existing pump, you will need to apply for a new pump installation permit.

6. The landowner shall cause the well operator to maintain the installed meter or other appropriate means for measuring and reporting withdrawals and water levels, and appropriate devices or means for measuring chlorides and temperature. These data shall be measured monthly and reported to the Commission on a yearly basis, on forms provided by the Chairperson (attached), in accordance with §13-168-7, HAR.

7. 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. The authorization to drill a well and/or install a pump shall not constitute a determination of correlative water rights. The landowner and well operator are notified that the quantity of water taken from the well and/or the pump capacity could be reduced by the Commission in the future.

8. In the event that your installed pump is less than 70 gallons per minute, and no elevation survey has been completed, you may be required to do one in the future.

Because groundwater 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/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), 274-3141 (Kauai), 984-2400 (Maui), or 1-800-468-4644 (Lanai & Molokai).

Sincerely,

W. Roy Ishibashi

DEAN A. NAKANO
Acting Deputy Director

RI:ss
Encl: Water Use Report Forms

C: Hawaii Department of Water Supply
   Rod Diamond
Mr. James Helenihi
P.O. Box 321
Kurtistown, HI 96760

Dear Mr. Helenihi:

Certificate of Pump Installation Completion for Well No. 3586-09

We are pleased to inform you that the Pump installation work permitted for the Helenihi Well (Well No. 3586-09) is complete and acceptable and welcome you as a new member to the community of well owners and groundwater users in Hawaii. This certificate of pump installation completion allows you to commence pumping your well for reasonable & beneficial water use.

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

1. If the well is not in use it must be properly capped.

2. 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) prior to any well sealing or plugging work.

3. In the event that the well operator and/or landowner changes, the Commission shall be notified of the change prior to the change, and all forms shall be transferred to the new owner.

4. In the event the benchmark in the concrete base of the well is altered in any way, an updated elevation survey (page 5 of the Well Completion Report Part I) shall be submitted to the Commission. The Well Completion Report Part I can be obtained by contacting staff or at www.hawaii.gov/dlnr/cwrm/forms.htm.
February 23, 2006

Mr. James Helenihi
P.O. Box 321
Kuristown, HI 96760

Dear Mr. Helenihi:

Certificate of Well Construction Completion for Well No. 3586-09

We are pleased to inform you that the Well Construction work permitted for the Helenihi Well (Well No. 3586-09) is complete and acceptable and welcome you as a new member to the community of well owners and groundwater 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) 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 of the change prior to the change, and all forms shall be transferred to the new owner.
5. In the event the benchmark in the concrete base of the well is altered in any way, an updated elevation survey (page 5 of the Well Completion Report Part I) shall be submitted to the Commission. The Well Completion Report Part I can be obtained by contacting staff or at www.hawaii.gov/dlnr/cwrm/forms.htm.

Because groundwater 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/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), 274-3141 (Kauai), 984-2400 (Maui), or 1-800-468-4644 (Lanai & Molokai).

Sincerely,

DEAN A. NAKANO
Acting Deputy Director

cc: Hawaii Department of Water Supply
    Rod Diamond
February 23, 2006

Mr. Rod Diamond
Diamond Construction and Water Well Drilling
HIC#3 Box 14073
Keeau, HI 96749

Dear Mr. Diamond:

Well Completion Report Parts I & II for Well No. 3586-09

We received your Well Completion Report Parts I & II for the Helenihi Well (Well No. 3586-09) on December 14, 2005 and acknowledge that they are complete.

This completes your obligation under the well construction and pump installation permits. A certificate of well construction completion and a certificate of pump installation completion will be issued to the well operator/landowner and you will receive copies. These certificates transfer responsibility of all 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), 274-3141 (Kauai), 984-2400 (Maui), or 1-800-468-4644 (Lanai & Molokai).

Sincerely,

DEAN A. NAKANO
Acting Deputy Director

RI:ss

c: James Helenihi
MEMO and ROUTE SLIP (ver. 12/21/05) 12/27/05

WCR 1 Check for Well No. 3586-09 (survey to regulation memo)

1. **Pump Tests Check**  Kevin Gooding (initial)

   - Step-Drawdown Test
     - followed WCPI Stds
     - analysis attached
     - proposed pump cap o.k.
   - Aquifer Pump Test:
     - followed WCPI Stds
     - T & S analysis attached
   - Well Interference:
     - estimated Steady-State drawdown at 1-mile radius is ________ ft.
     - analysis attached
   - Stream Surface Water Impacted:
     - [ ]  [ ] If yes, identify most probable stream

2. **Construction Check**  Mitch Ohye (initial)

   - data complete
   - followed Special Cond & elevations
   - well database updated

3. **Charley/Leno/ere/Ryan** (initial) take action based on above analysis

   - ATTACHMENTS FOR PUMP INSTALLATION PERMIT (2x):
     1. COVER LETTER
     2. COUNTY COMMENTS (DWS/SMA)
     3. DOH COMMENTS
     4. DLNR COMMENTS (LD/OCCL/DHP)
     5. WCR 1 Accept
     6. WELL CONST. COMPLETION CERTIFICATE
     7. USGS MAP UPDATED
     8. PARCEL CHECK
     9. WELL DATABASE INPUT CHECK
     10. LENNIS 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. Haagbin (initial) finalize
6. Mitch (initial) signature (Entered PIP issue date if required)
7. Charley/Leno/ere/Ryan File
WELL LOCATION INFORMATION

1. STATE WEL NO. (if already assigned) 2. WELL NAME 3. ISLAND 4. TOWN

5. WELL OPERATOR'S NAME/COMPANY 6. LANDOWNER'S NAME/COMPANY

Well Operator's Contact Landowner's Contact

Well Operator's Mailing Address Landowner's Mailing Address

Well Operator's Phone Well Operator's Fax Well Operator's E-mail

Landowner's Phone Landowner's Fax Landowner's E-mail

PROPOSED WELL CONSTRUCTION

PROPOSED PUMP INSTALLATION

10. Install New Pump. 11. Proposed Pumping Rate, gpm (gallons per minute)

12. Proposed Amount of Withdrawal, gpd (gallons per day)

13. Method of flow measurement

Flowmeter: Open Pipe: Well: Orifice: Other:

9. Is this well part of a battery of wells? Yes x 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) Deferred

PROPOSED USE

Site Photo

☐ 15. Municipal (water systems serving greater than 25 individuals or 15 service connections)

☒ 16. Domestic Number of units to be served: 1

☐ 17. Industrial (describe)

☐ 18. Irrigation (describe crop and no. of acres)

☐ 19. Military (describe)

☐ 20. Other (describe)

OTHER LEGAL REQUIREMENTS if required, items 22, 23, 24, and 25, must be obtained before the Commission can legally issue a permit

21. Conservation District Use Permit (CDUP): Well is in Conservation District Well is not in Conservation District

Required: CDUP # date approved

Not Required: Urban documentation from CDUP

I have not checked with CDUP about whether or not a CDUP is required. I understand that checking with the County prior to making this application will expedite my review. I further understand that issues raised by the agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.

I have not checked with CDUP about whether or not a CDUP is required. I understand that checking with CDUP prior to making this application will expedite my review. I further understand that issues raised by the agency 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: SMAP # date approved

Not Required: Urban documentation from SMAP

I have not checked with the County about whether or not an SMAP is required. I understand that checking with the County prior to making this application will expedite my review. I further understand that issues raised by the agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.

☐ 23. Historic Preservation Division (HPD) of the DLNR

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 further understand that the HPD may delay or result in denial of the permit issuance, or revocation of the permit after it is issued. Additionally, the history of past land use is attached.

☐ 24. Water Use Permit No. (if applicable)

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

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 into compliance, and any work done without the permit is in suspension may result in fines of up to $500/day.

Rodney K Diamond

BC23379

C37/C37a/55

987-8100 966-4129

diamond.drilling.pump@gmail.com

Rodney K Diamond

BC23379

C37/C37a/55

987-8100 966-4129

diamond.drilling.pump@gmail.com
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 Helenihi Well (Well No. 3586-09) at TMK 1-5-052:033, 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. The permittee shall submit to the Chairperson the 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 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. The HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

12. Any variance 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 pump test 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: March 3, 2010
Expiration Date: March 3, 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 #: BC-23379  Date: ___________________________
Printed Name: Rod Diamond  Firm or Title: Diamond Construction and Water Well Drilling

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

Attachment
March 4, 2010

Ref: 3586-09.wcp2

Mr. Rod Diamond
Diamond Construction and Water Well Drilling
HCR#3 Box 14073
Keeau, HI 96749

Dear Mr. Diamond:

Well Construction Permit
Helenihi Well (Well No. 3586-09)

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: James Helenihi
USGS
Hawaii DWS
<table>
<thead>
<tr>
<th>TO</th>
<th>INIT</th>
<th>TO</th>
<th>INIT</th>
<th>FOR</th>
<th>PLEASE</th>
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<td>CHONG, R.</td>
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<td>KIMURA, J.</td>
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<td>DANBARA, S.</td>
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<td>KUNIMURA, I.</td>
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<td>ENGLAND, D.</td>
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- 0014 - No 2nd comments
  per Mike Rigniann
  & Lori Morelanni

- OK to issue
  only modifications of equity
  will be applied per request.
### Well Check Program

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

<table>
<thead>
<tr>
<th>Data Input</th>
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<tbody>
<tr>
<td>Well Number</td>
<td>3586-09</td>
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<tr>
<td>Well Name</td>
<td>Helenhi</td>
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<tr>
<td>Ground Elevation</td>
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<td>Cement Grout</td>
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<td>Grouting Method</td>
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<td>Total Depth</td>
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<td>Water Level</td>
<td>Depth to water</td>
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<td>Solid Casing Specification</td>
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<td>Open Casing Length</td>
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### Results

#### Well Depth

| Theoretical Thickness of Aquifer | 164 |   |
| 1/4 Aquifer Thickness | 41 |   |
| Depth of Well below Sea Level | -17 | okay | Section 2.2 |

#### Well Casing

<table>
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<tr>
<th>Minimum Wall Thickness</th>
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<tbody>
<tr>
<td>Material</td>
</tr>
<tr>
<td>Minimum Thickness per standards</td>
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<tr>
<td>Well Thickness Provided</td>
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<tr>
<td>Minimum Length of Solid Casing</td>
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<tr>
<td>90% of ground to top of aquifer</td>
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<tr>
<td>Length of solid casing Provided</td>
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<tr>
<td>Casing Material</td>
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<td>(for pvc only - check for 200' limit)</td>
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#### Annular Space

<table>
<thead>
<tr>
<th>Depth of Grouting</th>
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<tbody>
<tr>
<td>Calculated Depth of Grouting</td>
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<tr>
<td>Depth of Grouting provided</td>
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<tr>
<td>Minimum Annular Space required</td>
</tr>
<tr>
<td>Thickness of Annular Space</td>
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