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 13:

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.

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 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 Lenore Y. Nakama of the Commission staff at 587-0218 or toll-free at 974-4000 (Hawaii), 274-3141 (Kauai), 984-2400 (Maui), or 1-800-468-4644 (Lanai & Molokai), extension 70218.

Sincerely,

Peter T. Young
Chairperson

Enclosures

c: Shelley and Jeffrey Hecht (with applicable comments – DOH SDWB & CWB)
USGS
Hawaii DWS
WELL CONSTRUCTION PERMIT
Oh Well, Well No. 3586-06

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 Oh Well (Well No. 3586-06) at TMK 1-5-030:171, 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.

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/twrmlfonm.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.

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 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/dlr/cwr/forms.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 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.

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 no later than the date the permit expires.

12. If the well is 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, 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. 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 §13-168-12(0).

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

Date of Approval: June 2, 2005
Expiration Date: June 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 #: BC-23379 Date: __________
Printed Name: Rodney K. Diamond Firm or Title: ______________

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

Attachment:
USGS
Hawaii Department of Water Supply
Shelly and Jeffrey Hocht
Ref: 3586-06pip

Mr. Rodney K. Diamond
HCR #3 Box 14073
Keaau, HI 96749

Dear Mr. Diamond:

Pump Installation Permit
Oh Well (Well No. 3586-06)

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 11:

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.

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 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 Lenore Y. Nakama of the Commission staff at 587-0218 or toll-free at 974-4000 (Hawaii), 274-3141 (Kauai), 984-2400 (Maui), or 1-800-468-4644 (Lanai & Molokai), extension 70218.

Sincerely,

Peter T. Young
Chairperson

Enclosure

c: Shelley and Jeffrey Hecht (with applicable comments – DOH SDWB & CWB)

USGS

DWS
PUMP INSTALLATION PERMIT
Oh Well, Well No. 3586-06

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 Oh Well (Well No. 3586-06) at TMK 1-5-030:171, 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 12 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: June 2, 2005
Expiration Date: June 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: ____________________________  C-57, C-57a, or A License #: BC-23379  Date: ________________

Printed Name: _______________________________ Firm or Title: _______________________________

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.
### 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>3586-06</td>
</tr>
<tr>
<td>Well Name</td>
<td>OH</td>
</tr>
<tr>
<td>Ground Elevation</td>
<td>80</td>
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<tr>
<td>Cement Grout</td>
<td>60</td>
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<td>Grouting Method</td>
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<td>Hole Diameter</td>
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<tr>
<td>Total Depth</td>
<td>90</td>
</tr>
<tr>
<td>Estimated Head</td>
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<tr>
<td>Public Water Supply Well?</td>
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</tr>
<tr>
<td>Solid Casing Material</td>
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<tr>
<td>Solid Casing Specification</td>
<td>Schedule 40</td>
</tr>
<tr>
<td>Solid Casing Length</td>
<td>80</td>
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<tr>
<td>Solid Casing Diameter</td>
<td>6</td>
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<tr>
<td>Solid Casing Wall Thickness</td>
<td></td>
</tr>
<tr>
<td>Open Casing Length</td>
<td>10</td>
</tr>
</tbody>
</table>

### Results

#### Well Depth

| Theoretical Thickness of Aquifer | 41             |
| 1/4 Aquifer Thickness           | 10.25          |

#### Well Casing

| Minimum Wall Thickness          |                |
| Material                       | pvc plastic    |
| Minimum Thickness per standards|                |

| Wall Thickness Provided        | 0 too small    |
| Minimum Length of Solid Casing|                |
| 50% of ground to top of aquifer| 71.1           |

| Length of Solid Casing Provided| 80 okay        |
| Casing Material                | Schedule 40    |
| (for provisory + check for 200' limit) | In compliance |

#### Annular Space

| Depth of Grouting              | 55.3           |
| Calculated Depth of Grouting   |                |

| Depth of Grouting provided     | 60 okay        |
| Minimum Annular Space required | 2              |

| Thickness of Annular Space     | 3 okay         |
April 29, 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
Oh Well (Well No. 3586-06)

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 June 2, 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 Lenore Y. Nakama of the Commission staff at 567-0218.

LYN:ss
Attachment(s)

RESPONSE:

1. 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 and at least 60 days per year or 6 or more service connections) and must receive Director of Health approval prior to use to comply with Hawaii Administrative Rules (HARR), Title 11, Chapter 25, Rules Relating to Potable Water Systems, §11-26-23.

2. 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 6 service connections) and if the well water is used for drinking, the private owner should heed the bacteriological and chemical presence before using such water and maintain monitor the water quality thereafter. However, if future plans use from this source increases to meet the public water system definition then Director of Health approval is required before implementation.

3. 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 properly 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.

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

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

6. An NPDES permit is not required.

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

8. 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 be applicable, and we do not need to review the new location.

No comments/objections.

Contact Person: Peter T. Young
Phone: 586-4258

Signed: Peter T. Young

Date: JUN - 2 2005
The Department of Health, Safe Drinking Water Branch has the following additional comments for the Well Construction / Pump Installation Permit Application for the Oh Well (Well No. 8-3586-06 Hawaii):

**Underground Injection Control (UIC) Comments:**

In general, a shallow well, or a well that recharges quickly from local rainfall, should not be used as a potable water source because such a well increases the risk of having unsatisfactory groundwater quality that when consumed may compromise health. Factors that directly influence a well's groundwater quality include wastewater disposal systems (cesspools, septic systems, drainage wells), lawn/garden/crop-growing activities, and even the proximity to the ocean where salt water intrusion may occur.
April 29, 2005

TO:         Harry M. Yada, Acting Administrator Land Division
FROM:       Dean A. Nakano, Acting Deputy Director Commission on Water Resource Management
SUBJECT:    Well Construction/Pump Installation Permit Application
            Oh Well (Well No. 3586-06)

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 June 2, 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 Lenore Y. Nakama of the Commission staff at 587-0218.

LYN:ss
Attachment(s)

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: Original source of private title was issued prior to statehood in 1959.

Contact Person: ___________________________ Phone: 587-0421
Signed: ___________________________ Date: MAY 17, 2005
Mr. Chris Yuen, Director
County of Hawaii
Planning Department
101 Pauahi Street
Hilo, HI 96720

Dear Mr. Yuen:

Special Management Area Use Permit Requirements for
Well Construction/Pump Installation Permit Application
Oh Well (Well No. 3586-06)

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 June 2, 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 Lenore Y. Nakama of the Commission staff at 587-0218.

Sincerely,

DEAN A. NAKANO
Acting Deputy Director

RESPONSE:

[ ] This well project [ ] requires [ ] does not require a SMA. If a SMA is required it [ ] 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: Esther Inamura Phone: (808) 961-8288

Signed: Alice Shimada Date: 5/6/05
April 29, 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
         Oh Well (Well No. 3586-06)

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 June 2, 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 Lenore Y. Nakama of the Commission staff at 587-0218.

LYN:ss
Attachment(s)

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, §11-2 - 9.

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 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.

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 NDOES 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 we do not need to review the new location.

No comments/objections.

Contact Person: Lenore Y. Nakama
Phone: 587-0218
Signed: Lenore Y. Nakama
Date: 05-05-05
April 29, 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

On Well (Well No. 3586-06)

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 June 2, 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 Lenore Y. Nakama of the Commission staff at 587-0218.

LYN:ss
Attachment(s)

RESPONSE:

[1] 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 less than 15 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, §11-20-20.

[1] 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 installing such use and routinely monitor the water quality thereafter. However, if future plans exist from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

[1] 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 supplies with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

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

[1] For the applicant's information, a source of possible wastewater contamination [1][1] is not located near the proposed well site (information attached).

[1] An N-POES permit is required.

[1] 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 we do not need to review the new location.

[1] No comments/objections

Contact Person: Alec Wong
Phone: 586-4209
Date: 5/5/05

Signed: PETER T. YOUNG, CHAIRMAN

STATE OF HAWAI'I

DEPARTMENT OF LAND AND NATURAL RESOURCES

COMMISSION ON WATER RESOURCE MANAGEMENT

P.O. BOX 521
HONOLULU, HAWAII 96820
The Department of Health, Clean Water Branch has the following comments:

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, Title 11, Chapter 55, Appendix I, effective September 22, 1997. Treated process wastewater effluent covered by this general permit includes well drilling slurry fluids, lubricating fluids wastewaters, and well purge wastewaters. This general permit does not cover well pump testing. The applicable Notice of Intent Forms and filing fees shall be submitted at least thirty (30) days before the start of discharge to the Department of Health, Clean Water Branch at 919 Ala Moana Boulevard, Room 301, Honolulu, Hawaii 96814-4920 or P.O. Box 3378, Honolulu, Hawaii 96801-3378. Inquiries may be directed to the Clean Water Branch at (808) 586-4309 or by fax at (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 the 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 that 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.

JS/cr
April 29, 2005

TO: Samuel J. Lemmo, Administrator
   Office of Conservation and Coastal Lands

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

SUBJECT: Well Construction/Pump Installation Permit Application
          Oh Well (Well No. 3586-06)

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 June 2, 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 Lenore Y. Nakama of the Commission staff at 587-0218.

Contact Person: Dawn Hegger
Phone: 587-0380
Signed: Dawn Hegger
Date: May 4, 2005
Mr. Rodney K. Diamond  
HCR #3 Box 14073  
Keaau, HI 96749

Dear Mr. Diamond:

Well Construction/Pump Installation Permit Application for Well No. 3586-06

We acknowledge receipt, on April 11, 2005, of your completed Well Construction/Pump Installation permit application and filing fee for the Oh Well (Well No. 3586-06). You can expect your application to be processed within ninety (90) days from this date.

For your information, the attached table (Permit Process 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. Until then, all aspects of the permits are the responsibility of the contractor. 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 Lenore Y. Nakama of the Commission staff at 587-0218 or toll-free at 974-4000 (Hawaii), extension 70218.

Sincerely,

DEAN A. NAKANO
Acting Deputy Director

LYN:ss  
Attachment  
c: Shelly and Jeffrey Hecht
April 29, 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
Oh Well (Well No. 3586-06)

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 June 2, 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 Lenore Y. Nakama of the Commission staff at 587-0218.

LYN:ss
Attachment(s)

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 90 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20:29.

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

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

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

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

[ ] 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 we do not need to review the new location.

[ ] No comments/objections

Contact Person: ___________________________ Phone: __________
Signed: ___________________________ Date: __________
April 29, 2005

TO: Harry M. Yada, Acting Administrator
    Land Division

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

SUBJECT: Well Construction/Pump Installation Permit Application
          Oh Well (Well No. 3586-06)

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 June 2, 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 Lenore Y. Nakama of the Commission staff at 587-0218.

LYN:ss
Attachment(s)

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: Melanie Chinen, Administrator  
Historic Preservation  

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

SUBJECT: Well Construction/Pump Installation Permit Application  
Oh Well (Well No. 3596-06)  

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 June 2, 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 Lenore Y. Nakama of the Commission staff at 587-0218. 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.  

LYN: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: _______________________________
April 29, 2005

TO: Samuel J. Lemmo, Administrator  
Office of Conservation and Coastal Lands

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

SUBJECT: Well Construction/Pump Installation Permit Application  
Oh Well (Well No. 3586-06)

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 June 2, 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 Lenore Y. Nakama of the Commission staff at 587-0218.

LYN:ss
Attachment(s)

RESPONSE:

[ ] This well project [ ] requires [ ] does not require a CDUP. If a CDUP is required it [ ] has has not been approved and [ ] is [ ] is not currently active.

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

[ ] No objections

[ ] Other comments:

Contact Person: ___________________________ Phone: ________________

Signed: _______________________________ Date: ________________
April 29, 2005

Mr. Chris Yuen, Director
County of Hawaii
Planning Department
101 Pauahi Street
Hilo, HI 96720

Dear Mr. Yuen:

Special Management Area Use Permit Requirements for
Well Construction/Pump Installation Permit Application
Oh Well (Well No. 3586-06)

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 June 2, 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 Lenore Y. Nakama of the Commission staff at 587-0218.

Sincerely,

[Signature]

DEAN A. NAKANO
Acting Deputy Director

RESPONSE:

[ ] This well project [ ] requires [ ] does not require a SMA. If a SMA is required it [ ] 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: ______________________
Document No:
L3237903 (5 pages)

Fee:
$5.00

Recorded:
2005-03-08

Class:
DEED

Grantor(s):
USHIMURA NAGAYO

Grantee(s):
HECHT JEFFREY J
HECHT SHELLEY R

TMK:
3-1-5-030-171

Description:
CT 737431 NOTED ON CT 340420 LOT 1297 BLK 9 MAP 84 APP 1053

Copyright © 2005 State of Hawaii Bureau of Conveyances

WARRANTY Deed

This Warranty Deed, made this ____ day of ______________________, 2005, by:

Nagayo Ushimura, wife of Keeichi Ushimura, whose address is 5-17-7 Kasumigaseki-Higashi Kawagoe-Shi Saitama, Japan 350-1103 (hereinafter referred to as “GRANTOR”), in favor of

Jeffrey Joseph Hecht and Shelley Rene Hecht, husband and wife, whose address is HCR 3 Box 10003, Keaau, Hawaii 96749 (hereinafter referred to as “GRANTEE”);

WITNESSETH:

That for TEN AND NO/100 DOLLARS ($10.00), and other valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, the Grantor does hereby grant, bargain, sell and convey unto Grantee, as Tenants by the Entirety, in fee simple, all of that certain real property described in Exhibit “A” attached hereto and made a part hereof.

Warranty Deed
Ushimura Hecht
TMK 3rd 1-5-030-171
**STATE OF HAWAII**
**DEPARTMENT OF LAND AND NATURAL RESOURCES**
**COMMISSION ON WATER RESOURCE MANAGEMENT**
**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 587-0255. For further information and updates to this application form, visit http://www.hawai.gov/dlnr/cwrm.

---

**WELL LOCATION INFORMATION**

<table>
<thead>
<tr>
<th>1. STATE WELL NO. (if already assigned)</th>
<th>2. WELL NAME</th>
<th>3. ISLAND</th>
<th>4. TOW</th>
<th>5.</th>
<th>6.</th>
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<tbody>
<tr>
<td>ST-100</td>
<td>OI Well</td>
<td>Hawaii</td>
<td>5</td>
<td>0</td>
<td>17</td>
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</table>

The following must be attached before this application is accepted as complete (check if attached):

- 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)

**WELL OPERATOR'S NAME/COMPANY**

- Well Operator's Name: Shelley Hecht
- Well Operator's Address: HCR #3 Box 1003 Keani HI 96749

**LANDOWNER'S NAME/COMPANY**

- Landowner's Name: Same
- Landowner's Address: Shelly Hecht 550

**Well Operator's Phone/WELL OPERATOR'S E-MAIL**

- Phone: 808-969-0878
- E-mail: Same

**LANDOWNER'S PHONE/LANDOWNER'S E-MAIL**

- Phone: 808-969-0878
- E-mail: Same

**PROPOSED WELL CONSTRUCTION**

| 8. Proposed Work | B. Construction Type
<table>
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<tr>
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<tbody>
<tr>
<td>Construct New Well</td>
<td>Drilled</td>
</tr>
<tr>
<td>Modify Existing Well</td>
<td>Open Pipe</td>
</tr>
<tr>
<td>Abandon/Seal Well</td>
<td>New Pump</td>
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</table>

**PROPOSED PUMP INSTALLATION**

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<tr>
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</thead>
<tbody>
<tr>
<td>Install New Pump</td>
<td>Replace Pump</td>
</tr>
<tr>
<td>(gallons per minute)</td>
<td>12</td>
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</tbody>
</table>

**PROPOSED USE**

- Municipal (water systems serving greater than 25 individuals or 15 service connections)
- Domestic (describe)
- Irrigation (describe and no. of acres)
- Military (describe)
- Other (describe)

**OTHER LEGAL REQUIREMENTS**

- Conservation District Use Permit (CDUP) Required: CDUP # date approved
- Required: CDUP # date approved
- Not Required: CDUP # date approved
- Special Management Area Permit (SMAP) Required: SMAP # date approved
- Special Management Area Permit (SMAP) Not Required: SMAP # date approved
- Agency: (attach documentation from applicable County agency)

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

**For Official Use Only:**

- Permit Number: 15-0011-9 9:08

---

**WICRI App. Form 10/05/94**
**PROPOSED WELL SECTION** (Please attach schematic different from diagram provided below)

**HOLE ELEVATION**

- Minimum of 2" Radius 5.4" Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)

- Ground Elevation: 80 ft., msl

**Annular space between hole and casing (1") for positive displacement, 3" for other methods:**

- Rock or Gravel Packing

- Material:
  - Crushed Basalt
  - Rounded Gravel

**Estimated Water Level Elevation:**

- ft., msl

**Solid Casing:**

- Total Length: 80 ft.
- Nominal Diameter: 6 in.
- Well Thickness: 5/8 in.
- Bottom Elevation: 60 ft., msl

**Open Casing:**

- Total Length: 10 ft.
- Nominal Diameter: 6 in.
- Well Thickness: 5/8 in.
- Bottom Elevation: 60 ft., msl

**Open Hole:**

- Length: NA ft.
- Diameter: NA in.
- Bottom Elevation: NA ft., msl

---

**Solid Casing Material:**

- Carbon Steel: compliant with (check one or more): ANSI/AWWA C200, API Spec. 5L, ASTM A33, ASTM A139
- Stainless Steel (check one):
  - ASTM A409 (production welds)
  - ASTM A612 (monitor welds)
- ABS Plastic conforming to ASTM F480 and ASTM D1597 (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 D2517
  - Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
  - PTFE Fluorocarbon Tubing conforming to ASTM D2996
  - FEP Fluorocarbon Tubing conforming to ASTM D3096

**Open Casing Material:**

- Carbon Steel: compliant with (check one or more): ANSI/AWWA C200, API Spec. 5L, ASTM A33, ASTM A139
- Stainless Steel (check one):
  - ASTM A409 (production welds)
  - ASTM A612 (monitor welds)
- ABS Plastic conforming to ASTM F480 and ASTM D1597 (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 D2517
  - Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
  - PTFE Fluorocarbon Tubing conforming to ASTM D2996
  - FEP Fluorocarbon Tubing conforming to ASTM D3096

---

*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 Well Abandonment reports and referenced to a benchmark which has been established by a surveyor licensed by the State.*

For non-salt water Basal Wells - bottom elevation of well shall not be deeper than 1/4 of aquifer thickness or, Bottom Elevation of Well Limit = (Water Elevation) - (Ground Elev. - Water Level Elav.)

Example: Estimated +2 ft. Water Level Elev. - Bottom Elevation of Well Limit = (2 + 4 ft.) = -1.5 ft.
MEMORANDUM FOR THE RECORD

FROM: Lenore Nakama
SUBJECT: WCPIA for 3586-06

4/6/05 Called Rod Diamond and left message that he needs to submit the new information that is required in our updated application form (launched 2/18/05 with the CWRM approval of new standard conditions). Basically, the only additional info are:

- 8 copies of a photo of proposed well site
- 8 copies of a schematic diagram showing well site, access road, infrastructure
- Proposed surveyor's name & license #
- Identification and signature of proposed pump installation contractor (for combined well & pump applications)

Rod said that he would prefer to just transfer the info from the old form to the new form and submit a new application on the new form.
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<th>Address</th>
<th>Owner/Lessee</th>
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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.
LICENSE CLASS SCREEN

There were 2 specific license classes on this licensee!

***** LICENSE CLASS FOR THIS LICENSEE *****
LIC: CT-23379 RODNEY K DIAMOND

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<-Back  New Search->

Hawaii State homepage || DCCA || Professional and Vocational Licensing Division
## Well Background Check

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### DOCUMENT NO.: UAC OR ATTACHED WORKSHEET

**DATE:** March 28, 2005

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**REMARKS:**

LINE (1) OH Well tmk: 1-5-030:171
LINE (2) Tom's Well, tmk: 4-9-14:24
LINE (3) CB No. 2 Well, tmk: 3-8-7:89
LINE (4) VIP Sanitation Well, tmk: 9-1-13:09
LINE (5)                                    
LINE (6)                                    
LINE (7)                                    
LINE (8)                                    
LINE (9)                                    
LINE (10)                                   


APPLICATION FOR PERMIT

WELL & PUMP INFORMATION:

2. WELL NAME: Oahu
   Address: 14th Ave HDO
   Island: Oahu
   Tax Map Key: 1 9 3 171
   Attatch: (a) portion of a 1:5-Minute Series USGS topographic map (scale 1:24,000) with well location labeled and include the name of the quad map
   (b) a property tax map, showing well location referenced to established property boundaries

3. PROPOSED WORK:
   (check all that apply)
   □ Construct New Well
   □ Modify Existing Well
   □ Abandon/Seal
   □ Install New Pump
   □ Modify Pump
   □ State Well No: (If unknown, please call Commission at 587-0225)

4. CONSTRUCTION:
   □ Dug
   □ Shaft
   □ Tunnel
   □ Is this well part of a battery of wells? □ Yes □ No (Please describe)

5. PROPOSED PUMPING RATE: 2.0 gallons per minute

6. PROPOSED USE:
   (check all that apply)
   □ Municipal (including hotels, stores, etc.)
   □ Domestic (individual, noncommercial water system)
   □ Irrigation (crop)
   □ Other (explain):
   □ No of Acres:
   □ Military
   □ Yes □ No
   □ Does this well serve 25 or more people at least 60 days per year or have 15 or more service connections?

7. (a) PROPOSED AMOUNT OF WITHDRAWAL: 250 gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
      □ Flowmeter
      □ Open pipe
      □ Weir
      □ Office
      □ Other (explain):

OTHER IMPORTANT INFORMATION:

8. LEGAL REQUIREMENTS: If required, these permits must be obtained before the Commission can legally issue a permit.
   Conservation District Use Permit (CDUP): To find out if a CDUP is necessary, call DLNR Land Division at 587-0414
   □ Not Required (If required, date approved)
   Environmental Impact Statement (EIS) or Environmental Assessment (EA): To determine if an EIS or EA is necessary, call OEOC at 568-4185
   □ Not Required (If required, date published in OEOC bulletin)
   Special Management Area Permit (SMA): To determine if an SMA is necessary, call the Department of Land and Natural Resources, Office of Special Management Areas, 570-7235.
   □ Not Required (If required, date approved)

9. ARCHEOLOGICAL REQUIREMENTS:
   To find out if an archeological work is required: call the Department of Land and Natural Resources, Office of Special Management Areas, 570-7235.
   □ Not Required (If required, please attach letter from DLNR Historic Preservation

10. REMARKS, EXPLANATIONS:
    (If more space is needed, please attach additional sheet)

NOTE: Signing below indicates the signatories understand and accept that the information provided on this application is accurate and true to the best of their knowledge. Further, the signatories understand that approval of this application attaches the following standard conditions: 1) the proposed work 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 90 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of cumulative water rights and shall not guarantee the pump capacity or future use up to the approved pump capacity; 5) 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 while the permit is in suspension may result in fines of up to $1000/day.

Well Owner: Shelley Hecht Contact Person: Jeffery Shank
Well Owner (print legibly): Shelley Hecht +Jeffery Shank
Signature: date 2-23-05

Contractor: Rod Diamond Contact Person: Rod
Contractor (print legibly): Rod Diamond
Signature: Rod Diamond
Signature: date 3-22-05

For official use only

Latitude: Aquifer System No. 35H-03
Longitude: State Well No. 35H-03

WCPPA Form 711793
10. PROPOSED WELL SECTION (Please attach schematic if different from diagram provided below)

**Solid Casing Material:**
- Compliant with (check one or more):
  - ANSI/AWWA C200
  - API Spec. 5L
  - ASTM A53
  - ASTM A139
- Compliant with (check one or more):
  - ASTM A242
  - Type E
  - Type S
  - Grade B
  - Other

**Stainless Steel:**
- Compliant with (check one):
  - ASTM A409 (production well)
  - 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:**
- Conforming to:
  - FEP Fluorocarbon Tubing conforming to ASTM D3296
  - Fluorocarbon Tubing conforming to ASTM D3296

**Open Casing Material:**
- Compliant with (check one or more):
  - ANSI/AWWA C200
  - API Spec. 5L
  - ASTM A53
  - ASTM A139
- Compliant with (check one or more):
  - ASTM A242
  - Type S
  - Grade B
  - Other

**Stainless Steel:**
- Compliant with (check one):
  - ASTM A409 (production well)
  - 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:**
- Conforming to:
  - FEP Fluorocarbon Tubing conforming to ASTM D3296
  - Fluorocarbon Tubing conforming to ASTM D3296

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**Solid Casing Material:**
- Compliant with (check one or more):
  - ANSI/AWWA C200
  - API Spec. 5L
  - ASTM A53
  - ASTM A139

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**Open Casing Material:**
- Compliant with (check one or more):
  - ANSI/AWWA C200
  - API Spec. 5L
  - ASTM A53
  - ASTM A139