### COMMISSION ON WATER RESOURCE MANAGEMENT

#### ROUTE SLIP FOR PERMIT ISSUANCE 11/14/07

<table>
<thead>
<tr>
<th>FROM: RYAN</th>
<th>DATE: 6/25/08</th>
<th>SUSPENSE DATE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>TO:</td>
<td>INIT.</td>
<td>TO:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>KIMURA, J.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHING, F.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHONG, R.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DANBARA, S.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENGLAND, D.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FUJII, N.</td>
</tr>
<tr>
<td>1 HARDY, R.</td>
<td></td>
<td>SWANSON, S.</td>
</tr>
<tr>
<td>2 HOAGBIN, S.</td>
<td></td>
<td>UYENO, D.</td>
</tr>
<tr>
<td>ICE, C.</td>
<td></td>
<td>YODA, K.</td>
</tr>
<tr>
<td>IMATA, R.</td>
<td></td>
<td>YOSHINAGA, M.</td>
</tr>
<tr>
<td>3 KAWAHARA, K.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| WELL NUMBER: 3701-02 | WELL NAME: Lord JC 2 |

<table>
<thead>
<tr>
<th>application type</th>
<th>BOTH</th>
<th>1 WCP COVER LETTER</th>
<th>2 WCP</th>
<th>3 WELL CHECK PRINTOUT</th>
<th>4 PIP COVER LETTER</th>
<th>5 PIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 SDWB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 WWB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 CWB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 LD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 HP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 LUC</td>
<td>x</td>
<td>not in conservation district</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 OCCL</td>
<td>x</td>
<td>not in conservation district</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13 SMA</td>
<td>x</td>
<td>not in SMA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**

- DRILLER: Fred Page
- TMK: 1-6-003:104
- PUMP CAPACITY: 300
- WELL OWNER: Forest Investment and Mortgage Co., Inc.
- LAND OWNER: Robert Hamilton
- COMMENT DEADLINE: 6/20/08

Pls. Fax to Fred E. 945-5379 by Friday if possible.
Ref: 3701-02.wcp

Mr. Fred Page
Fred Page Drilling International
P.O. Box 1434
Pahoa, HI 96778

Dear Mr. Page:

Well Construction Permit
Lord JC 2 Well (Well No. 3701-02)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) that authorize:

1. 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. 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.

   2. The depth of the well shown on your proposed well section, along with your estimated water level elevation, indicates that your well will be greater than ¼ of the theoretical thickness of the aquifer. You must ensure that the total depth of the well below sea level shall be in compliance with Section 2.2 of the Hawaii Well Construction and Pump Installation Standards.

   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 Ryan Imata of the Commission staff at 587-0255.

   Sincerely,

   [Valid Signature]

   LAURA H. THIELEN
   Chairperson

   Enclosures

   c: Forest Investment and Mortgage Co., Inc. (with applicable comments – DOH SDWB, WWB, CWB)
   USGS
   Hawaii DWS
WELL CONSTRUCTION PERMIT

Lord JC 2 Well, Well No. 3701-02

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 Lord JC 2 Well (Well No. 3701-02) at TMK 1-6-003:104, 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/cwrml/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 basin 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 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/cwrml/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 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, 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(f).

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

Date of Approval: June 20, 2008
Expiration Date: June 20, 2010

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-16653 Date: ___________________________
Printed Name: Fred Page Firm or Title: Fred Page Drilling International

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

Attachment
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. 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.

3. The permittee shall conduct aquifer pump tests in accordance with the Hawaii Well Construction and Pump Installation Standards (revised February 2004) on the latest aquifer pump test data forms, which are available by contacting staff or on the web at www.hawaii.gov/dlnr/cwrm/forms.htm.

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 Ryan Imata of the Commission staff at 587-0255.

Sincerely,

Laura H. Theilen
Chairperson

Enclosure

c: Forest Investment and Mortgage Co., Inc. (with applicable comments – DOH SDWB, WWB, CWB)
USGS
Hawaii DWS
Note: This permit shall be prominently displayed at the site until the work is completed.

PUMP INSTALLATION PERMIT
Lord JC 2 Well, Well No. 3701-02

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 Lord JC 2 Well (Well No. 3701-02) at TMK 1-6-003:104, 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 300 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 20, 2008
Expiration Date: June 20, 2010

LAURA H. THIELEN, Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $5,000 per day starting from the permit date of approval.

Installer’s Signature: __________________________ C-57, C-57a, or A License #: C-16653 Date: __________________________
Printed Name: Fred Page Firm or Title: Fred Page Drilling International

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

Attachments
## Well Check Program
4/1/04 - Revised for update to Well Standards (February 2004)

### Data Input

<table>
<thead>
<tr>
<th>Data Input</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Number</td>
<td>3701-01</td>
</tr>
<tr>
<td>Well Name</td>
<td>Lord JC 1</td>
</tr>
<tr>
<td>Ground Elevation</td>
<td>225</td>
</tr>
<tr>
<td>Cement Grout</td>
<td>220</td>
</tr>
<tr>
<td>Grouting Method</td>
<td>positive displacement</td>
</tr>
<tr>
<td>Hole Diameter</td>
<td>14</td>
</tr>
<tr>
<td>Total Depth</td>
<td>253</td>
</tr>
<tr>
<td>Depth to Water</td>
<td>223 calculated head</td>
</tr>
<tr>
<td>Public Water Supply Well?</td>
<td>no</td>
</tr>
<tr>
<td>Solid Casing Material</td>
<td>stainless steel</td>
</tr>
<tr>
<td>Solid Casing Specification</td>
<td>ASTM A409</td>
</tr>
<tr>
<td>Solid Casing Length</td>
<td>225</td>
</tr>
<tr>
<td>Solid Casing Diameter</td>
<td>10</td>
</tr>
<tr>
<td>Solid Casing Wall Thickness</td>
<td>0.250</td>
</tr>
<tr>
<td>Open Casing Length</td>
<td>30</td>
</tr>
</tbody>
</table>

### Results

#### Well Depth
- Theoretical Thickness of Aquifer: 82
- 1/4 Aquifer Thickness: 20.5

#### Well Casing
- Minimum Wall Thickness Material: stainless steel
- Minimum Wall Thickness Provided: 0.25
- Minimum Length of Solid Casing: 200.7
- Length of solid casing Provided: 225
- Casing Material: ASTM A409
- (for PVC only - check for 200' limit): okay

#### Annular Space
- Calculated Depth of Grouting: 156.1
- Depth of Grouting provided: 220
- Thickness of Annular Space: 2

### Notes
- Section 2.2: Depth of Well below Sea Level -28 too deep
- Section 2.4(b): Minimum Thickness per standards
- Section 2.4(c): Length of solid casing Provided
- Section 2.4(d): Casing Material
- Section 2.6(c): Depth of Grouting provided
- Section 2.6(d): Thickness of Annular Space
The Department of Health, Clean Water Branch (CWB) 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 (HAR), Title 11, Chapter 55, Appendix I, effective October 22, 2007. Treated process wastewater effluent covered by this general permit includes well drilling slurries, lubricating fluids wastewater, and well purge wastewater. This general permit does not cover well pump testing. The applicable Notice of Intent (NOI) Forms and filing fee shall be submitted at least 30 calendar days before the start of discharge to the:

   Department of Health
   Clean Water Branch
   919 Ala Moana Boulevard, Room 301
   Honolulu, Hawaii 96814-4920

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

2. For Well Pump Testing

The discharger shall take all measures necessary to prevent the discharge of pollutants from entering State waters. Such measures shall include, if necessary, containment of initial discharge until the discharge is essentially free of pollutants. If the discharge is entering a stream or river bed, best management practices shall be implemented to prevent the discharge from disturbing the clarity of the receiving water. If the discharge is entering a storm drain, the discharger must obtain written permission from the owner of the storm drain prior to discharge. Furthermore, best management practices shall be implemented to prevent the discharge from collecting sediments and other pollutants prior to entering the storm drain.
3. For Construction Activities Disturbing One (1) or More Acres of Total Land Area

By HAR, Title 11, Chapter 55, Appendix C, effective October 22, 2007, an NPDES permit or Notice of General Permit Coverage is required before the start of the construction activities that result in the disturbance of one (1) or more acres of total land area, including clearing, grading, and excavation. The total land area includes a contiguous area where multiple separate and distinct construction activities may be taking place at different times on different schedules under a larger common plan of development or sale. An NOI (see Comment No. 1, above) shall be submitted 30 calendar days before to the start of construction activities.
May 20, 2008

TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health

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

SUBJECT: Well Construction/Pump Installation Permit Application
Lord JC Well (Well No. 3701-01)

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 20, 2008. 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:

The 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 or 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 introducing such use and routinely monitor the water quality thereafter. However, if future planned use from this source statement 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 the non-potable system by an air gap or approved backflow preventer, and by clearly labeling all non-potable pipes with warning signs to prevent inadvertent consumption of non-potable water. Backflow preventer 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 [15] 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: Donna M. Okimoto
Phone: 587-0300

Signed: Donna M. Okimoto
Date: 06/08/08
June 3, 2008

Ken C. Kawahara, P.E., Deputy Director
Commission on Water Resource Management
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Kawahara:

SUBJECT: Chapter 6E-8 Historic Preservation Review –
Request for Comment on a Well Construction/Pump Installation Permit
Application, Lord JC Well (No. 3701-01)
Kea’au Ahupua’a, Puna District, Island of Hawai’i
TMK: (3) 1-6-003:023

Thank you for the opportunity to comment on this project.

We determine that no historic properties will be affected by this undertaking because:

☑ Intensive cultivation has altered the land
☐ Residential development/urbanization has altered the land
☐ Previous grubbing/grading has altered the land
☐ An accepted archaeological inventory survey (AIS) found no historic properties
☐ SHPD previously reviewed this project and mitigation has been completed
☐ Other:

In the event that historic resources, or suspected human skeletal remains, lava tubes or, lava blisters/bubbles are identified during the construction activities, all work needs to cease in the immediate vicinity of the find, the find needs to be protected from additional disturbance, and the State Historic Preservation Division, Hawaii Island Section, needs to be contacted immediately at (808) 981-2979.

Please contact Timothy Scheffler, Ph.D. at (808) 981-2979 if you have any questions or concerns regarding this letter.

Aloha,

Nancy McMahon, Acting Archaeology Branch Chief
State Historic Preservation Division

TS
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 20, 2008. 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 Inuma of the Commission staff at 587-0255.

Subject: Well Construction/Pump Installation Permit Application

Lord JC Well (Well No. 3701-01)

May 20, 2008

TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Director's Office
Tomás See, Chief, Wastewater Branch
Stuart Yamada, Chief, Safe Drinking Water Branch
Alec Wong, Chief, Clean Water Branch

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

SUBJECT: Well Construction/Pump Installation Permit Application

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 20, 2008. 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 Inuma of the Commission staff at 587-0255.

R:ss Attachment(s)

RESPONSE: UIC: NO remarks. 5/09/08 CH

This well qualifies as a source which will serve as a source of public water to a public water system (defined as serving 25 or more people at least 60 days per year or has 15 or more non-reconnecting connections) and must receive Director of Health approval prior to use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Public 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 or more service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before utilizing such use and properly 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 prevention, 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/guidelines, information, or recommendations are attached.

In the event that the location of the well changes but is still within the parcel described on that 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: Michael Miyahira Phone: __________

Signed: __________ Date: __________
CWRM APPLICATION SOURCE: Lord JC Well (Well No. 3701-01)

Safe Drinking Water Branch Engineering Section

This well may be used as a source of water for a water bottling company. If the water will be used for bottled water, the water company is required to obtain Department of Health (DOH) approval that the water meets drinking water standards.

DOH approval is based primarily upon the submission of a satisfactory engineering report, which addresses the requirements set in the Hawaii Administrative Rules, Title 11, Chapter 20, Rules Relating to Potable Water Systems, Section 29 Use of New Sources of Raw Water for Public Water Systems (11-20-29).

Section 11-20-29 requires in part, an engineering report prepared by a licensed professional engineer, and shall include all potential sources of contamination and water quality analyses for all regulated contaminants, performed by a laboratory certified by the State Laboratories Division of the State of Hawaii. Additional parameters may be required by the Director for this submittal or additional tests required upon the review of the information submitted.
May 20, 2008

TO: Honorable Chiyome L. Fukino, M.D., Director
    Department of Health
    Attention: Director's Office
    AlohaSee, Chief, Wastewater Branch
    Stuart Yamada, Chief, Safe Drinking Water Branch
    Alec Wong, Chief, Clean Water Branch

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

SUBJECT: Well Construction/Pump Installation Permit Application
         Lord JC Well (Well No. 3701-01)

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 20, 2008. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

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

RESPONSE:

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

[ ] This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before 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: Nenye Munogawa Phone: 933-0401
Signed: [Signature] Date: 05-29-08
May 20, 2008

TO: Morris Atta, Acting Administrator
Land Division

FROM: Ken C. Kawahara, P.E., Deputy Director
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
Lord JC Well (Well No. 3701-01) TMK 1-6-003:023

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 20, 2008.** 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.

RI: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.**

Contact Person: Gary Martin Phone: 587-0421

Signed: Gary Martin Date: MAY 27 2008
COMMISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR NEW APPLICATIONS

FROM: RYAN
DATE: 11-Apr-08
SUSPENSE DATE: 18-Apr-08

TO: CHING, F.
INIT. ________

TO: KUNIMURA, I.
INIT. ________

FOR: 1 Approval
3 Signature
6 Information

PLEASE:
1 Review & Comment
2 Take Action
4 Type Draft acknow letter
6 File
5 Xerox copies

FROM:
CHING, F.
FUJII, N.
GOODING, K.
HARDY, R.
HIGA, D.
HOAGBIN, S.
ICE, C.
IMATA, R.
KAWAHARA, K.

DATE: 11-Apr-08
SUSPENSE DATE: 18-Apr-08

WELL NUMBER 3701-02
WELL NAME Lord JC 2

☐ WELL CONSTRUCTION ☐ PUMP INSTALLATION ☐ BOTH

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

FOLDER: ✣ MADE NEW FILE FOLDER, ATTACHED
☐ FILE FOLDER ALREADY MADE, IN FILE CABINET

INCOMPLETE ACTION DATES:

DATE ACTION

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
May 19, 2008

Mr. Fred Page
Fred Page Drilling International
P.O. Box 1434
Pahoa, HI 96778

Dear Mr. Page:

Well Construction/Pump Installation Permit Application for Well No. 3701-02

We acknowledge receipt, on April 21, 2008, of your completed Well Construction/Pump Installation permit application and filing fee for the Lord JC 2 Well (Well No. 3701-02). You can expect your application to be processed within ninety (90) days from this date.

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

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

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

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

RI:ss
Attachment
c: Shikwan Sung
TO: Honorable Chiyome L. Fukino, M.D., Director
   Department of Health
   Attention: Director’s Office
   Tomas See, Chief, Wastewater Branch
   Stuart Yamada, Chief, Safe Drinking Water Branch
   Alec Wong, Chief, Clean Water Branch

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

SUBJECT: Well Construction/Pump Installation Permit Application
   Lord JC 2 Well (Well No. 3701-02)

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 20, 2008. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

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

RESPONSE:

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

- This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before 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.

- 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: ___________________________
May 19, 2008

TO: Morris Atta, Acting Administrator  
    Land Division

FROM: Ken C. Kawahara, P.E., Deputy Director  
      Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application  
         Lord JC 2 Well (Well No. 3701-02) TMK 1-6-003:104

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 20, 2008. 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: ____________
May 19, 2008

TO: Dr. Puaalaokalani Ai, Administrator
   Historic Preservation

Morgan Davis
   Historic Preservation

FROM: Ken C. Kawahara, P.E., Deputy Director
   Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
   Lord JC 2 Well (Well No. 3701-02) TMK: 1-6-003:104

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 20, 2008. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

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

RESPONSE:

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

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

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

Contact Person: ________________________ Phone: ______________

Signed: _______________________________ Date: ________________
3687-04 Gudrun
1. Is there a meter installed?
Kenneth Heineman
No
Daniel Greenlaw
No
Patrick Fix
No
Bennett Taylor
No
Tom King
No
Malcolm Saxby
No
Daniel Greenlaw

3688.02

3688.07 Nonl Kal
1. Is there a meter installed?

3881-07' Nonl Kal
1. Is there a meter installed?

3687.09 Hal. OKai
1. Is there a meter installed?

3687-12 That's A Deep Subject
1. Is there a meter installed?

3505-02 Puna Certified Nursery
1. Is there a meter installed?

3687-15 Greenlaw 2
1. Is there a meter installed?

4707-01 JJCO
1. Is there a meter installed?

3602-07 Laka
1. Was a pump ever installed?

3687-17 Greenlaw 3
1. Is there a meter installed?

3687-32 Terry D. Weil
1. Is there a meter installed?

3687-36 Irrida
1. Is there a meter installed?
2. Submit photo

3687-35 Bessie
1. Was a pump ever installed?
2. Sign and return Well Construction and Pump Installation Permits. Permits enclosed

3687-11 Wallace One
1. Is there a meter installed?

3687-11 Wallace One
1. Is there a meter installed?

3087-01 Moxley
1. What do you plan to do with this well? Abandon

3486-03 Woody
1. Is there a meter installed?

For the following wells, they have expired - are there plans to drill?
2879-11 Moana 1
2888-13 Little Dog
3688-09 Maka Puna Luawal
7549-01 Uluwial 1
3688-08 Waipukalani
3081-03 Szom Jas

Moana Technologies LLC
William Ray
No
David Young
No
Thomas Baldwin
No
Noel Morin drilled
Alohilani Nursery
No

Drilled, pump to be installed

3081-03 Szom Jas

08 APR 4 00
00

RECEIVED

Thanks
Fred & Bert!!!

Ryan

Search criteria: TMK Taxkey 3-1-6-3-104

PUBLIC RECORD DATA

<table>
<thead>
<tr>
<th>Taxkey</th>
<th>Subdiv/Condo Tnr</th>
<th>Address</th>
<th>Owner/Lessee</th>
<th>Bds</th>
<th>Bths</th>
<th>Land area</th>
<th>Liv area</th>
<th>Last Sale</th>
<th>Instr</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-1-6-3-104</td>
<td>Keaau</td>
<td>F</td>
<td>WEINERT, ERIC D/ETAL</td>
<td>0</td>
<td>0</td>
<td>31.17 ac</td>
<td>0</td>
<td>8/7/2000</td>
<td>DEED</td>
</tr>
</tbody>
</table>

This information has been supplied by third parties and has not been independently verified by Hawaii Information Service and is, therefore, not guaranteed.

Copyright ©5/15/2008 by Hawaii Information Service
<table>
<thead>
<tr>
<th>SRC/ F YR APP D OBJ</th>
<th>COST OBJ CTR PROJECT PH ACT AMOUNT</th>
<th>NAME/DESCRIPTION (WANG INPUT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S 08 326 C 1026 0752</td>
<td>(1) $25.00</td>
<td>Craig La Chance</td>
</tr>
<tr>
<td>&quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot;</td>
<td>(2) $25.00</td>
<td>Waimea Water Services</td>
</tr>
<tr>
<td>&quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot;</td>
<td>(3) $25.00</td>
<td>Tate Robinson</td>
</tr>
<tr>
<td>&quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot;</td>
<td>(4) $25.00</td>
<td>Tate Robinson</td>
</tr>
<tr>
<td>&quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot;</td>
<td>(5) $25.00</td>
<td>Melinda Friedman</td>
</tr>
<tr>
<td>&quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot;</td>
<td>(6) $25.00</td>
<td>Janet Tengan</td>
</tr>
<tr>
<td>&quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot;</td>
<td>(7)</td>
<td></td>
</tr>
<tr>
<td>&quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot;</td>
<td>(8)</td>
<td></td>
</tr>
<tr>
<td>&quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot;</td>
<td>(9)</td>
<td></td>
</tr>
<tr>
<td>&quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot; &quot;</td>
<td>(10)</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL $150.00

REMARKS:
LINE (1) Well No.3686-21
LINE (2) Kukuipahu #1 Well
LINE (3) Lord JC 1 Well
LINE (4) Lord JC 2 Well
LINE (5) TMK: 5-1-005:37, #3
LINE (6) TMK: 4-6-034:009
LINE (7)
LINE (8)
LINE (9)
LINE (10)
**PROPOSED WELL CONSTRUCTION**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Construct New Well</td>
<td>☐ Drilled</td>
<td>☐ Install New Pump</td>
<td>300</td>
</tr>
<tr>
<td>☐ Modify Existing Well</td>
<td>☐ Dug</td>
<td>☐ Replace Pump</td>
<td></td>
</tr>
<tr>
<td>☐ Abandon/Seal Well</td>
<td>☐ Shaft</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ Tunnel</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

| 14. Proposed Surveyor name and license number (a surveyor is required for all Well Construction Permits and may be required for some Pump Installation Permits) | Tupa Maunaakea 2-7546 |

---

**OTHER LEGAL REQUIREMENTS**

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

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

2. Management Area Permit (SMA)
   - Required, SMA #: ____________________________, date approved ________________
   - Not Required (attach documentation from applicable County agency)
   - I have not checked with the County about whether or not an SMA Permit is required. I understand that checking with the County prior to making this application will expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.

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

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

---

**LOCATION INFORMATION**

<table>
<thead>
<tr>
<th>WELL NO. (if already assigned)</th>
<th>2. WELL NAME</th>
<th>3. ISLAND</th>
<th>4. TMK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LORD TC 2</td>
<td>HAWAII</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**PROPOSED PUMP INSTALLATION**

<table>
<thead>
<tr>
<th>12. Proposed Amount of Withdrawal, gpd (gallons per day)</th>
<th>13. Method of flow measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>30,000</td>
<td>Flowmeter</td>
</tr>
<tr>
<td></td>
<td>Open Pipe</td>
</tr>
<tr>
<td></td>
<td>Weir</td>
</tr>
<tr>
<td></td>
<td>Orifice</td>
</tr>
</tbody>
</table>

**24. WELL DRILLER**

Fred Page Drilling International Inc C-16653

<table>
<thead>
<tr>
<th>License/business name</th>
<th>C-57 License No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fred Page Drilling International Inc C-16653</td>
<td>C-57 License No.</td>
</tr>
</tbody>
</table>

**25. PUMP INSTALLER**

Fred Page Drilling International Inc C-16653

<table>
<thead>
<tr>
<th>License/business name</th>
<th>C-57C/57A License No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fred Page Drilling International Inc C-16653</td>
<td>C-57C/57A License No.</td>
</tr>
</tbody>
</table>
**PROPOSED WELL SECTION** (Please attach schematic if different from diagram provided below)

- **Ground Elevation:** 183 ft., msl*
- **Maximum of 2' Radius & 4' Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)**
- **Minimum of 2' Radius & 4' Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)**

**Grouting method:**
- Positive displacement
- Other

**Cement Grout:** 180 ft. (min. 70% of distance from ground elevation to top of water surface or 500 ft., whichever is less.)

**Annular space between hole and casing (1.5" for positive displacement, 3" for other methods):** 2 in.

**Rock or Gravel Packing:**
- Material:
  - Crushed Basalt
  - Rounded Gravel

**Estimated Water Level Elevation:** 2 ft., msl*

**Solid Casing:** (± 90% x (Ground Elev.-Water Level Elev.)
- **Total Length:** 186 ft.
- **Nominal Diameter:** 10 in.
- **Wall Thickness:** 250 in.
- **Bottom Elevation:** 185 ft., msl*

**Open Casing:**
- **Total Length:** 30 ft.
- **Nominal Diameter:** 10 in.
- **Wall Thickness:** 250 in.
- **Bottom Elevation:** 220 ft., msl*

**Open Hole:**
- **Length:** n/a ft.
- **Diameter:** 78 in.
- **Bottom Elevation:** 220 ft., msl*

*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 should not be deeper than 1/4 of aquifer thickness or:

**Bottom Elevation of Well Limit = (Water Elevation - 4 x Water Level Elevation) / 4**

Example: Estimated + 2 ft. Water Level Elev. → Bottom Elevation of Well Limit = (2 - 4 x (2.25)) = -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 A242 (or A606)
  - 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
  - Schedule 120
- PVC Plastic conforming to ASTM F480 and ASTM D1785 or ASTM D2241: (check one)
  - Schedule 40
  - Schedule 80
  - Schedule 120
  - Schedule 160
- 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)
- 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)
  - 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

WCPI App. Form 05/12/05
Well Name: Lord JC 2
TMK: 1-6-003:10.4

Schematic