COMMISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR PERMIT ISSUANCE 1/22/10

FROM: RYAN
TO: INIT.
CHENG, C.
CHONG, R.
DANBARA, S.
ENGLAND, D.
FUJI, N.
HARDY, R.
HOAGBIN, S.
ICE, C.
IMATA, R.

DATE: 2/24/10
SUSPENSE DATE:

TO: INIT.
CHENG, C.
CHONG, R.
DANBARA, S.
ENGLAND, D.
FUJI, N.
HARDY, R.
HOAGBIN, S.
ICE, C.
IMATA, R.

WELL NUMBER 2684-01
WELL NAME Johnson

application type BOTH
1 WCP COVER LETTER
2 WCP
3 WELL CHECK PRINTOUT 
proposed well section issues?

4 PIP COVER LETTER
5 PIP

COMMENTS: date rec'd issues?
if checked, send to applicant

6 SDWB 
7 WWB 
8 CWB 
9 HEER 
10 LD 
11 HP 
12 LUC in-GD 
13 OCCL in-GD 
14 SMA in-SMA 
15 BWS (Oahu) 

NOTES:
DRILLER Rod Diamond
Diamond Construction and Water Well Drilling
23379
HCR#3 Box 14073
Keeau HI 96749

phone 966-4129
fax 966-4129
cell 987-8100

TMK 1-3-003:046
PUMP CAPACITY 40
WELL OWNER Gregory Johnson
LAND OWNER Gregory Johnson
COMMENT DEADLINE 1/18/10
Mr. Rod Diamond  
Diamond Construction and Water Well Drilling  
HCR#3 Box 14073  
Keeau, HI 96749  

Dear Mr. Diamond:  

Pump Installation Permit  
Johnson Well (Well No. 2684-01)  

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

Special Conditions  

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

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

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

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

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

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

Sincerely,  

LAURA H. THIELEN  
Chairperson  

Enclosure  

c: Gregory Johnson (with applicable comments – DOH)  
USGS  
Hawaii DWS
PUMP INSTALLATION PERMI

Johnson Well, Well No. 2684-01

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 Johnson Well (Well No. 2684-01) at TMK 1-3-003:046, Hawaii, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

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

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

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

4. The pump installation permit shall be for installation of a 40 gpm rated capacity, or less, pump in the well. This permanent capacity may be reduced in the event that the pump test data does not support the capacity.

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

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

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

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

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

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

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

12. The work proposed in the pump installation permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.

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

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

Date of Approval: January 26, 2010
Expiration Date: January 26, 2012

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

Installer’s Signature: [Signature] C-57, C-57a, or A License #: BC-23379 Date:

Printed Name: Rod Diamond Firm or Title: Diamond Construction and Water Well Drilling

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

Attachments
April 21, 2010

Ref: 2684-01.wcp

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

Dear Mr. Diamond:

Well Construction Permit

Johnson Well (Well No. 2684-01)

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

Special Conditions

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

2. The well shall be grouted in lifts to be in compliance with the requirement for PVC casing greater than 200'.

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

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

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

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

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

Sincerely,

Laura H. Thileen
Chairperson

Enclosures

c: Gregory Johnson (with applicable comments – DOH)
USGS
Hawaii DWS
WELL CONSTRUCTION PERMIT

Johnson Well, Well No. 2684-01

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 Johnson Well (Well No. 2684-01) at TMK 1-3-003:046, Hawaii, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules (HAR).
2. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.
3. The well construction permit shall be for construction and testing of the well only. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the HWCPIS (the latest pump test worksheet can be obtained by contacting Commission staff or at www.hawaii.gov/dlnr/cwrm/resources_permits.htm). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson. No withdrawal of water shall be made for purposes other than testing without a Certificate of Pump Installation Completion. The permitted pump capacity described on the pump installation permit may be reduced in the event that the pump test does not support the capacity.
4. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson. If it can be shown that the well does not tap basal ground water then this condition may be waived after consultation with and acceptance by Commission staff. However, in no instance can the well be drilled deeper than one-half (1/2) of the theoretical thickness without Commission approval.
5. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.
6. In the event that historically significant remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and immediately contact the Department of Land and Natural Resources’ State Historic Preservation Division. Work may recommence only after written concurrence by the State Historic Preservation Division.
7. The well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of correlative water rights.
8. The Well Completion Report Part I shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrm/resources_permits.htm for current form).
9. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.
10. The well construction permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.
11. If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.
12. Any variances from the HWCPIS shall be approved by the Chairperson prior to invoking the variance.
13. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.
14. If the well is to be abandoned during the course of the project then the permittee must apply for a well abandonment permit in accordance with §13-168-12(f), HAR, prior to any well sealing or plugging work.
15. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or related to or connected with the granting of this permit.
16. This permit shall apply to the location shown on the application only. If the well is to be relocated, the permittee shall apply for a new well construction/pump installation permit in accordance with §13-168-12(f), HAR.
17. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: January 26, 2010
Expiration Date: January 26, 2012

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

Driller's Signature: ____________________________  C-57 License #: BC-23379  Date: ________________
Printed Name: Rod Diamond  Firm or Title: Diamond Construction and Water Well Drilling

Please sign both copies of this permit, return one copy to the Commission office, and retain the other for your records.
Well Check Program  
4/1/04 - Revised for update to Well Standards (February 2004)

### Data Input

<table>
<thead>
<tr>
<th>Well Number</th>
<th>2684-01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Name</td>
<td>Johnson</td>
</tr>
<tr>
<td>Ground Elevation</td>
<td>315</td>
</tr>
<tr>
<td>Cement Grout</td>
<td>235</td>
</tr>
<tr>
<td>Grouting Method</td>
<td>other</td>
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<tr>
<td>Hole Diameter</td>
<td>10</td>
</tr>
<tr>
<td>Total Depth</td>
<td>335</td>
</tr>
<tr>
<td>Water Level</td>
<td>10 Depth to water 305</td>
</tr>
<tr>
<td>Public Water Supply Well?</td>
<td>no</td>
</tr>
<tr>
<td>Solid Casing Material</td>
<td>pvc plastic plastic</td>
</tr>
<tr>
<td>Solid Casing Specification</td>
<td>Schedule 40</td>
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<tr>
<td>Solid Casing Length</td>
<td>315</td>
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<tr>
<td>Solid Casing Diameter</td>
<td>6</td>
</tr>
<tr>
<td>Solid Casing Wall Thickness</td>
<td>20</td>
</tr>
<tr>
<td>Open Casing Length</td>
<td></td>
</tr>
</tbody>
</table>

### Results

#### Well Depth

- Theoretical Thickness of Aquifer | 410 |
- 1/4 Aquifer Thickness | 102.5 |
- Depth of Well below Sea Level | -20 okay Section 2.2 |

#### Well Casing

- Minimum Wall Thickness Material | pvc plastic |
- Minimum Thickness per standards | no requirement |
- Wall Thickness Provided | 0 no standard Section 2.4(b) |
- Minimum Length of Solid Casing | 274.5 |
- 90% of ground to top of aquifer | 315 okay Section 2.4(c) |
- Length of solid casing Provided | 315 okay Section 2.4(c) |
- Casing Material | Schedule 40 in compliance Section 2.4(d) |
- (for pvc only - check for 200' limit) | too deep for plastic Section 2.4(d) |

#### Annular Space

- Depth of Grouting | 213.5 |
- Calculated Depth of Grouting | 235 okay Section 2.6(c) |
- Depth of Grouting provided | 235 okay Section 2.6(c) |
- Minimum Annular Space required | 2 |
- Thickness of Annular Space | 2 okay Section 2.6(d) |
TO: Morris Atta, Administrator
Land Division

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

SUBJECT: Well Construction/Pump Installation Permit Application
Johnson Well (Well No. 2684-01) TMK 1-3-001:046

November 23, 2009

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

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by December 23, 2009. 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 Ryota Imata of the Commission staff at 587-0255.

RESPONSE:

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

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

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

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

[X] No objections

[X] Other comments: Original source of private title is Grant 7263 issued prior to statehood.

Contact Person: Gary Martin Phone: 587-0421

Signed: Gary Martin Date: Dec 10, 2009
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 824
HONOLULU, HAWAI'I 96809

November 23, 2009

TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Tomas See, Chief, Wastewater Branch
Stuart Yamada, Chief, Safe Drinking Water Branch
Alec Wong, Chief, Clean Water Branch
Dr. Keith Kawaoka, Office of Hazard Evaluation

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

SUBJECT: Well Construction/Pump Installation Permit Application
Johnson Well (Well No. 2684-01)

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 December 23, 2009. 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.

Riss
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, §11-20-29.

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 pipes 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 [1] is not located near the proposed well site (information attached).

An NPDES permit is required.

Other relevant DOI-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: Michael Hasegawa
Phone: 587-0258
Signed: 12/5/09

Date: 12/5/09
CWRM Application Source: Johnson Well
(Well No. 2684-01)
TMK: (3)1-3-3: 46

Safe Drinking Water Branch (SDWB) - Engineering Section

See attached private water wells information sheet.

SDWB Underground Injection Control (UIC) Section

Well water quality should be initially and periodically tested for it’s acceptable and intended use, especially if for human consumption. Water quality should not be presumed acceptable and unchanging. Land-based activities around the well and within the well’s recharge area may, over time, have an unacceptable effect on the well’s water quality. Well construction materials and related equipment could also affect water quality.
WARNING! As the owner of a privately-owned well, you should NOT assume that water from your well is safe for consumption. It is your responsibility to make sure that your well water is safe to drink. The only way to do this is to have your well regularly tested for bacteriological and chemical contaminants.

There are no regulations controlling water quality in private wells serving individual residences as there are for public water systems (public or privately owned utilities supplying water to 25 or more people or 15 service connections). In other words, there are no enforceable limits for contaminants and no requirements for regular testing. Private wells are often found in rural areas, where many activities such as onsite wastewater disposal can contaminate the ground water.

U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) RECOMMENDATIONS

The EPA recommends that private well owners test their well water each year for such contaminants as Total Coliform Bacteria, Nitrates, as well as any other contaminants that may be of concern in your area. More frequent testing may be appropriate if you suspect a problem. EPA also suggests that you consider testing for pesticides, organic chemicals, and heavy metals before using it for the first time. Please refer to the EPA website on Private Drinking Water Wells at http://www.epa.gov/safewater/privatewells/faq.html

OTHER CONTAMINANTS

Water testing can be very expensive. It is important that you spend time to identify what other potential contaminants may be of concern. Please refer to the EPA website on Private Drinking Water Wells at http://www.epa.gov/safewater/privatewells/faq.html for more helpful information. Be aware of what and how you use and dispose of household and garden chemicals. Also determine the location of nearby septic tanks or cesspools, and agricultural or industrial activities in the area. General information on known chemical contamination of ground water in Hawaii can also be found at the DOH website www.hawaii.gov/health/environmental/water/sdwb/conmaps/pdf/conmaps05.pdf

LABORATORIES

Local commercial laboratories can be found in the yellow pages of the telephone book under “Laboratories, Analytical.” Whenever possible, utilize a laboratory that is certified or approved for the specific drinking water tests and carefully follow their instructions for collecting, storing, and transporting the samples. Just be sure to ask the lab to use EPA approved methods for drinking water analysis. A list of labs certified or approved by the Department of Health can be found at www.hawaii.gov/health/environmental/water/sdwb/sdwb/pdf/Testing%20labs.pdf. As lab certification status changes constantly, confirm their status when you contact the lab. Please note that the list is limited to currently regulated contaminants in public water systems.

RESULTS

Once the lab provides you with the test results, you will be in a better position to determine if your well water is safe to drink or what contaminant you need to treat for. Generally, you should compare the results with Federal (www.epa.gov/safewater/mcl.html) and State (www.hawaii.gov/health/environmental/water/sdwb/sdwb/pdf/State%20MCL.pdf) drinking water standards. Where your test results are greater than the State or Federal maximum contaminant levels, your well water should be considered as unsafe for consumption.
TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Tomas See, Chief, Wastewater Branch
Stuart Yamada, Chief, Safe Drinking Water Branch
Alec Wong, Chief, Clean Water Branch
Dr. Keith Kawaoka, Office of Hazard Evaluation and Emergency Response

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

SUBJECT: Well Construction/Pump Installation Permit Application
Johnson Well (Well No. 2684-01)

November 23, 2009

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

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by December 23, 2009. 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.

RI: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 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 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 subsequently 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 preventer devices should be visually 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 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 it 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: Richard Palmer
Phone: 586-0257

Signed: ____________________________
Date: ____________________________
LINDA LINGLE
GOVERNOR OF HAWAII

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

November 23, 2009

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

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R: 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 II, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

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

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

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

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

[ ] An NPDES permit is required.

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

[ ] In the event that 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

[X] No comments/objections

Contact Person: Jerry Nunogawa, Eng. in Hilo 933-0401

Signed: Yuki Munkami on Oahu Date: 11-24-09
**COMMISSION ON WATER RESOURCE MANAGEMENT**

**ROUTE SLIP FOR NEW APPLICATIONS**

**FROM:** RYAN  
**DATE:** 6-Nov-09  
**SUSPENSE DATE:** 13-Nov-09

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<td>NAKAMA, L.</td>
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**WELL NUMBER** 243M-0  
**WELL NAME** Johnson  
**WUP Number** na

- WELL CONSTRUCTION
- PUMP INSTALLATION
- WUPA

**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. DHPP/CDUP/SMA pre-screen

**FOLDER:**
- MADE NEW FILE FOLDER, ATTACHED
- FILE FOLDER ALREADY MADE, IN FILE CABINET

**INCOMPLETE ACTION DATES:**

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(SMA map printout http://gis.hicentral.com/website/parcelzoning/viewer.htm, or INGRID'S SMA/CD MAP)

(LUC map printout http://luc.state.hI.us/luc_maps.htm, or INGRID’S SMA/CD MAP)
Mr. Rod Diamond  
Diamond Construction and Water Well Drilling  
HCR #3 Box 14073  
Keeau, HI 96749

Dear Mr. Diamond:

Well Construction/Pump Installation Permit Application for Well No. 2684-01

We have received your Well Construction/Pump Installation permit application and filing fee for the Johnson Well (Well No. 2684-01). However, we will not be able to accept your application as complete until the Special Management Area (SMA) issues are resolved with respect to your other unresolved completion reports.

Upon resolution of the SMA issues, we will accept your application as complete and you can then expect your application to be processed within ninety (90) days. However, this review will significantly cut down on that time.

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

Sincerely,

KEN C. KAWAHARA, P.E.  
Deputy Director

RI: ss  
Attachment  
c: Gregory Johnson
November 23, 2009

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

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

SUBJECT: Well Construction/Pump Installation Permit Application
          Johnson Well (Well No. 2684-01)

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 December 23, 2009. 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: ___________________________ Phone: ____________

Signed: ___________________________ Date: ____________
TO:  Morris Atta, Administrator  
Land Division  

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

SUBJECT:  Well Construction/Pump Installation Permit Application  
Johnson Well (Well No. 2684-01) TMK 1-3-00:046  

November 23, 2009

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

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by December 23, 2009. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

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

RESPONSE:

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

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

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

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

[ ] No objections

[ ] Other comments:

Contact Person: ___________________________  Phone: ___________________________

Signed: ___________________________  Date: ___________________________
November 23, 2009

TO: Dr. Puualaokalani Aiu, Administrator
    Historic Preservation

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

SUBJECT: Well Construction/Pump Installation Permit Application
          Johnson Well (Well No. 2684-01) TMK: 1-3-001-046

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

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by December 23, 2009. 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: ______________
Assessed values and Building Details reflect tax year 2009 for all islands. Taxes reflect tax year 2009.

Search criteria: TMK Taxkey 3-1-3-3-46

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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.

Copyright ©11/13/2009 by Hawaii Information Service
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**TOTAL $100.00**

**REMARKS:**

- LINE (1) Maunanoni Well
- LINE (2) Johnson Well
- LINE (3) Zierk Well
- LINE (4) Nahm Well
- LINE (5)
- LINE (6)
- LINE (7)
- LINE (8)
- LINE (9)
- LINE (10)
WELL LOCATION INFORMATION

1. STATE WELL NO. (if already assigned)
   Johnson Well

2. IL & CITY
   Hawaii

3. ZONE
   1

4. SEC
   3

5. TPK
   003

6. PALM
   046

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

☐ Portion of 7.5-Minute Series USGS topographic map (scale 1:24,000) with well location labeled and include the name of the quad map.

☐ Property tax map, showing well location referenced to established property boundaries.

☐ Photograph of the proposed well site.

☐ A schematic diagram showing the well site, access road and proposed well infrastructure (if applicable).

5. WELL OPERATOR’S NAME/COMPANY
   Same

6. LANDOWNER’S NAME/COMPANY
   Gregory D. Johnson

7. WELL OPERATOR’S Contact
   Catherine J. Johnson

8. LANDOWNER’S Contact
   Same

Well Operator’s Mailing Address
   13-941 Kamaili Rd., Opihikao
   PO Box 1417

Landowner’s Mailing Address
   Hilo, HI 96778
   808-217-8046

Well Operator’s Phone
   808-937-9308

Landowner’s Phone
   808-937-9308

Well Operator’s E-mail

Landowner’s E-mail

PROPOSED WELL CONSTRUCTION

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

8. Construction Type
   X Drilled.
   X Dug.
   X Shaft.
   X Tunnel.

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

10. Proposed Work
    X Install New Pump.
    X Replace Pump

11. Proposed Pumping Rate, gpm (gallons per minute)
    40

12. Proposed Amount of Withdrawal, gpd (gallons per day)
    1500 estimated + or -

13. Method of flow measurement
    X Flow meter
    X Open Pipe
    X Wear
    X Orifice
    X Other

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

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

16. Domestic Number of units to be served: 1

17. Irrigation (describe crop and no. of acres) 10 Acres Misc.

18. Military (describe)

19. Other (describe)

OTHER LEGAL REQUIREMENTS

20. Conservation District Use Permit (CDUP)
    X Required, CDUP # date approved
    ☐ Not Required

21. Conservation District Use Permit (CDUP)
    ☐ Required, CDUP # date approved
    ☐ Not Required (attach documentation from CDUP)

22. Special Management Area Permit (SMAP)
    ☐ Required, SMAP # date approved
    ☐ Not Required (attach documentation from applicable County agency)

23. Historic Preservation District (HPD) of the DLNR
    ☐ I have consulted with the HPD regarding potential impacts of well construction activities on historic sites. I have attached applicable documentation from the HPD.

24. WELL DRILLER (Must be filled out if application is for Well Construction)
    Rodney K Diamond
    BC23379
    License Business Name
    capture business name
    Signature
    Rod K Diamond
    9-14-09
    Date
    HCR #3 Box 14073 Keaau HI 96749
    Address
    987-8100
    Phone
    966-4129
    Fax
    E-mail

25. PUMP INSTALLER (Must be filled out if application is for Pump Installation)
    Rodney K Diamond
    BC23379
    License Business Name
    capture business name
    Signature
    Rod K Diamond
    9-14-09
    Date
    HCR #3 Box 14073 Keaau HI 96749
    Address
    987-8100
    Phone
    966-4129
    Fax
    E-mail

NOTE: Signing below indicates that the signatories understand and swear that the information provided is accurate and true to the best of their knowledge. Further, the signatories understand that upon permit approval: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion report within 60 days after the completion date of the permitted work; 3) in the event that the application is not completed correctly, any permit may be suspended until the item is brought into compliance, and any work done while the permit is in suspension may result in fines of up to $1000/day.
as Septic

House

\[300'\] APP.

\textit{proposed well location}
PROPOSED WELL SECTION (Please attach schematic if different from diagram provided below)

Hole Diameter: 10 inches

Elevation at top of casing: 316 ft., msl*

Minimum of 2' Radius & 4" Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)

Ground Elevation: 315 ft., msl*

Cement Grout: 235 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.

Solid casing: (= 90% x (Ground Elev. - Water Level Elev))

Total Length: 315 ft.
Nominal Diameter: 6 in.
Wall Thickness: 340 in.
Bottom Elevation: -0 ft., msl*

Open Casing: Perforated Screen
Total Length: 20 ft.
Nominal Diameter: 6 in.
Wall Thickness: 340 in.
Bottom Elevation: -20 ft., msl*

Note: Neither bentonite nor mud should be used in saturated zone during drilling.

Open Hole:
Length: NA ft.
Diameter: in.
Bottom Elevation: -0 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,

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
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

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
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WCPI App. Form 10/05/04