LICENSE SCREEN

[ Look up License Type Codes> ]
Please click a link listed below to display the other screen.

***** GENERAL LICENSEE *****

LIC ID: CT-21358  Active/Inactive: ACTIVE
NAME: VALLEY WELL DRILLING
TRADE NAME:
STATUS: CURRENT, VALID & IN GOOD STANDING/MAINT. REQUIREMENT DUE
ENTITY: PARTNERSHIP  BUSINESS CODE:
ORIG LIC DATE: 3/16/98  EXPIRE DATE: 9/30/04
CLASS PREFIX: C  SPECIAL PRIVILEGE:
RESTRICTION:  EDUCATION CODE:
BUSINESS ADDR:  MAILING ADDR:

Click here to enter search criteria for prior complaints history ->
For prior complaints and disciplinary history, contact licensing and business information center at

<-Back  New Search->

EMPLOYEES LIST  EMPLOYERS LIST  INSURANCE/BOND  LICENSE CLASS

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Hawaii State homepage  DCCA  Professional and Vocational Licensing Division

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<th>Taxkey</th>
<th>Subdiv/Condo</th>
<th>Tnr Property Address</th>
<th>Owner/Lessee</th>
<th>Beds</th>
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This information has been supplied by third parties and has not been independently verified by Hawaii Information Service and is, therefore, not guaranteed.
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**COMMISSION ON WATER RESOURCE MANAGEMENT**

**ROUTE SLIP FOR PERMIT ISSUANCE**

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**WELL NUMBER: 2245-01**

**WELL NAME: Kawaihui Test well**

- **WELL CONSTRUCTION**: EXPLORATORY

**ATTACHMENTS FOR WELL CONSTRUCTION PERMIT:**

1. COVER LETTER
2. PERMIT (2x)
3. SDWB
4. WWB
5. CWB
6. HEER
7. LD
8. HP
9. PUMP TEST
10. WCR I FORM

**ATTACHMENTS FOR PUMP INSTALLATION PERMIT:**

1. COVER LETTER
2. PERMIT (2x)
3. SDWB
4. WWB
5. CWB
6. HEER
7. LD
8. HP
9. WCR II FORM
10. WUR FORM

11. GLENN'S WORKSHEET

---

*Attached but date to be revised when application is submitted. Comments come in.*

*TO BE SENT TO APPLICANT*
Dear Mr. Smith:

Well Construction Permit
Kawai Nui Exploratory Well (Well No. 2345-01)

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 your 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 is a copy 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.

2. This wall thickness of the casing shall be in compliance with Section 2.4c of the Hawaii Well Construction and Pump Installation Standards.

This permit does not authorize work for your permanent pump installation. Approval and issuance of your pump installation permit is contingent upon completed application and information provided to and accepted by Commission staff as required in the Well Construction & Pump Installation Standards (1/23/97) and any special conditions performed under this permit. However, a permanent pump may be installed prior to the permanent pump installation permit issuance in accordance with the Commission’s April 15, 1998 Declaratory Ruling No. DEC-ADM98-G5, which states that:

"Permanent pump installation for capacities between 0-70 gpm and where the proposed use is for private individual needs in non-ground-water management areas may be allowed prior to the final pump installation permit issuance. When required as a condition of the well construction permit, subsequent pumping tests shall validate the acceptability of the permanent pump. The permanent pump installed prior to final pump installation permit issuance is subject to removal if the testing shows that a smaller pump is required to reduce the potential of affecting neighboring wells and localized upconing at the applicant's well."

If you qualify and wish to take advantage of this ruling, please include a written request to install the permanent pump prior to final pump installation permit issuance when you return to us your signed well construction permit.
Please sign and have the contractor sign both permit originals and return one for our files. Also, copies of the aquifer pump test worksheet and the well completion report form are enclosed for your use.

IMPORTANT - Drilling work shall not commence until a fully signed permit is returned to the Commission. Please provide all the information in this packet to your well drilling contractor. The permittee, well operator, and/or well owner are responsible for all conditions of the permit. This includes ensuring that the well construction contractor, or other party who constructs the well(s), submits a completed Part I of the Well Completion Report form (enclosed) within sixty (60) days after the well construction work is completed. Be advised that you may be subject to fines of up to $1000 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 [redacted] or toll-free at [redacted] 70255.

Sincerely,

[Signature]

Peter T. Young
Chairperson

Enclosures

c:
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 Kawai Nui Test Well (Well No. 2345-01) at 777 Kalanianaole Highway, Oahu, TMK 4-2-13: 010, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) 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. The well construction permit shall be for construction and testing of the well only. A minimum 1 1/4-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee, well operator, and/or well owner shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a pump testing worksheet is attached). The permittee, well operator, and/or well owner shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump and withdraw water for use. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson.

3. 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.

4. The permittee, well operator, and/or well owner 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.

5. In the event that subsurface cultural remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee, well operator, and/or well owner shall stop work and contact the Department's Historic Preservation immediately.

6. 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.

7. The following shall be submitted to the Chairperson within sixty (60) days after completion of work:
   b. Elevation (referenced to mean sea level, msl) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
   d. Plot plan and map showing the exact location of the well.
   e. Complete pumping test records, including time, pumping rate, drawdown, chloride content, and other data.

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

9. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

10. The permit may be revoked by the Commission if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. 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 three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee, well operator, and/or well owner notice of the proposed action and an opportunity to be heard.

11. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee, well operator, and/or well owner must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.

12. 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, assignee, officer, employee, contractors, and agents under this permit or relating to or connected with the granting of this permit.

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

Date of Approval: June 27, 2003
Expiration Date: June 27, 2005

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 a permit has been issued, dated, and returned to the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day starting from the permit date of approval.

Permittee's Signature: ___________________________ Date: ______________
Printed Name: ___________________________ Firm or Title: ___________________________
Driller's Signature: ___________________________ C-57 License #: _________________________ Date: ______________
Printed Name: ___________________________ Firm or Title: ___________________________

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

Attachment:

USGS
Department of Health/ Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
Ryan R Imata  
07/01/2003 08:17 AM  
To: Roy Hardy  
cc:  
Subject: RE: Kawainui Test Well

----- Forwarded by Ryan R Imata/DLNRIStateHiUS on 07/01/2003 08:17 AM -----

Elaine H Jourdane  
06/27/2003 10:39 AM  
To: Travis Hylton  
cc:  
Subject: RE: Kawainui Test Well

Thanks Travis for passing on the info.

Ryan: Our 'no effect' comments on the permit application should be coming to you next week.

Elaine "Muffet" Jourdane  
Assistant Archaeologist - O‘ahu  
State Historic Preservation Division

Travis Hylton  
06/27/2003 09:39 AM  
To: "David G. Smith"  
cc: Ryan.R.Imata  
Subject: RE: Kawainui Test Well

Aloha All,

I worked with Muffet yesterday and gave her an aerial photo with the well location identified on it, showing that it will not impact any known sites, and that in fact our site is already on disturbed land and can be accessed by an existing road. I also faxed her a figure showing the distance and relative positions of the trenches that Cultural Surveys made. Muffet indicated that she was satisfied with the aerial, and that things could move forward from her end.

Thanks to everyone for the kokua in helping this along!

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Travis W. Hylton P.E., R.E.M.  
Civil Engineer  
Oceanit
Travis - FYI...

----- Forwarded Message
From: Ryan.R.Imata
Date: Thu, 26 Jun 2003 10:55:42 -1000
To: "David G. Smith" <engineering.org>
Cc: iknutsen srspengler@h
Elaine.H.Jourdane  Roy Hardy
Subject: Kawainui Test Well

David -
I spoke to Muffet Jourdane at Historic Preservation this morning. She mentioned that she needs a better map showing the exact location of the well and the access to the site because construction may affect historic sites. Since I need to get the comments back from Historic Preservation prior to issuing the permit, you can work directly with Muffett to get her what she needs. I'll follow this up with a phone call later.

Thanks,
Ryan

----- End of Forwarded Message

-----Original Message-----
From: David G. Smith [mailto:
Sent: Thursday, June 26, 2003 2:11 PM
To: Travis Hylton
Cc: Ryan.R.Imata
Subject: FW: Kawainui Test Well

Travis - FYI...

----- Forwarded Message
From: Ryan.R.Imata
Date: Thu, 26 Jun 2003 10:55:42 -1000
To: "David G. Smith" <engineering.org>
Cc: iknutsen srspengler@h
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Thanks,
Ryan

----- End of Forwarded Message
TO: Dede Mamiya, Administrator  
Land Division

FROM: Ernest Y.W. Lau, Deputy Director  
Commission on Water Resource Management

SUBJECT: Exploratory Well Construction Permit Application  
Kawai Nui Test Well (Well No. 2345-01)

Transmitted for your review and comment is a copy of the captioned Exploratory Well Construction 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 July 3, 2003. 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 5

C.s.s
Attachment(s)

RESPONSE:

A water lease/permit is required of this applicant and an application for such will be requested by our division. State-owned land acquired by Final Order of Condemnation, dated December 19, 1990, Civil No. 86-3315 in the circuit court of 1st circuit.

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

A water lease/permit has been obtained by the applicant through lease no. ____________________.

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

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

No objections

Other comments:

Contact Person: Gary Martin  
Phone [Redacted]

Signed: Gary Martin  
Date: JUN 26 2003
June 26, 2003

MEMORANDUM:

TO: Ryan Imata

FROM: Gary Martin

SUBJECT: Attachment to June 18, 2003 Regarding Kawainui Test Well (Well No. 2345-01)

Attached is a copy of a request from Steven Spengler, Ph.D., dated April 7, 2003, for a determination of necessity of a CDUA for the proposed well site. Also attached is the response letter by our Planning Branch, dated April 23, 2003.

On the "Application for Permit" the applicant, under number 8, marked that a Conservation District Use Permit is not required. Did applicant contact the Land Use Commission, as recommended by the Planning Branch, in coming to that conclusion?

Attachments
April 7, 2003

Dierdre Mamiya  
Administrator for Land Division
Department of Land and Natural Resources  
State of Hawaii

Dear Ms. Mamiya:

We are requesting information on whether a Conservation District Use Permit is required in conjunction with our proposal to drill a six-inch diameter, 60-foot deep water supply well at a property located at 777 Kalanianaole Hwy with the following TMK number: 4-2-013:010. The well would be used to supply water to fill ponds that are being restored to provide increased habitat for bird species that visit and reside within Kawainui marsh. At this stage of the study, we are simply proposing to drill the well and test it over a short duration (24 hours) to evaluate whether the groundwater resource in the area is sufficient to supply the required amount of water to the ponds. If it is determined that the well can supply the required amount of water to the ponds, a well installation permit will be sought that specifies the size of pump and estimated sustainable pumping rate for the well.

We request a sub-zone boundary determination for the portions of the lands at the TMK address above that are located in the conservation district. Is drilling an identified land use subject to approval for this parcel?

Please feel free to contact Ida Knutsen or myself at [Contact Information], should you have any questions or concerns.

Sincerely,

Steven Spengler, Ph.D.  
Environet, Inc.
Dear Mr. Spengler:

Subject: Necessity of a Conservation District Use Permit for the Proposed Drilling of a Six-Inch Diameter, 60-foot Deep Water Supply Well at a Property Located at 777 Kalanianaole Highway, Oahu TMK: (1) 4-2-013:010

The Land Division, Planning Branch is in receipt of your letter dated April 7, 2003 and received by the Department on April 8, 2003 requesting the necessity of a Conservation District Use Permit (CDUP) for the proposed drilling of a six-inch diameter, 60-foot deep water supply well at a property located at 777 Kalanianaole Highway, Oahu.

According to your letter the "well would be used to supply water to fill ponds that are being restored to provide increased habitat for bird species that visit and reside within Kawainui Marsh." Additionally the letter notes,

"At this stage of the study, we are simply proposing to drill the well and test it over a short duration (24 hours) to evaluate whether the groundwater resource in the area is sufficient to supply the required amount of water to the ponds. If it is determined that the well can supply the required amount of water to the ponds, a well installation permit will be sought that specifies the size of the pump and estimated pumping rate for the well."

The proposed project is located within the Kawainui marsh on TMK: (1) 4-2-013:010 which appears to be located outside the Conservation District. As a consequence, the project would not require a CDUP. However, please contact the State Land Use Commission for an official confirmation of State land use classification at prior to conducting any work on the site.
We hope this letter helps resolve some of the outstanding issues regarding your client's properties. Please feel free to contact Matthew Myers, of the Land Division, Planning Branch at [redacted]

Aloha,

Dierdre S. Mamiya
Administrator

Cc: Oahu Board Member  
Oahu District Land Office  
Chairperson's Office  
DOCARE
TO: Honorable Chiyome L. Fukino, M.D., Director
    Department of Health
    Attention: Harold Yee, Wastewater Branch
              William Wong, Safe Drinking Water Branch
              Dr. Keith Kawaoka, Hazardous Evaluation and Emergency Response
              Alec Wong, Clean Water Branch

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

SUBJECT: Exploratory Well Construction Permit Application
         Kawai Nui Test Well (Well No. 2345-01)

Transmitted for your review and comment is a copy of the captioned Exploratory Well Construction 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 July 3, 2003. 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 [Contact Information]

C: [Contact Information]
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, §§11-22-20.

[ ] This well does not qualify as a source serving a public water system (serves less than 25 people or a source of at least 60 days per year of 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 supplies 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 [ ] located near the proposed well site (information attached).

[ ] An NPDES permit is required.

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

[ ] No comments/objections

Contact Person: Alec Wong
Phone: [Contact Information]
Signed: Alec Wong
 Date: 06/26/03

CSC-318
The Department of Health, Clean Water Branch has the following comments:

1. For Well-Drilling Activities

Any discharge to State waters of treated process wastewater effluent associated with well drilling activities is regulated by Hawaii Administrative Rules, Title 11, Chapter 55, Appendix I, effective September 22, 1997. Treated process wastewater effluent covered by this general permit includes well drilling slurries, lubricating fluids wastewaters, and well purge wastewaters. This general permit does not cover well pump testing. The applicable Notice of Intent Forms and filing fee shall be submitted at least thirty (30) days before the start of discharge to the Department of Health, Clean Water Branch at [Contact Information]. Inquiries may be directed to the Clean Water Branch at [Contact Information].

2. For Well Pump Testing

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

JS/cr
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

June 18, 2003

TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Harold Yee, Wastewater Branch
William Wong, Safe Drinking Water Branch
Dr. Keith Kawaoka, Hazardous Evaluation and Emergency Response
Alec Wong, Clean Water Branch

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

SUBJECT: Exploratory Well Construction Permit Application
Kawai Nui Test Well (Well No. 2345-(1))

Transmitted for your review and comment is a copy of the captioned Exploratory Well Construction 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 July 3, 2003. 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.

C: ss
Attachment(s)

RESPONSE:

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

[ ] This well does not qualify as a source served a public water system (serves less than 25 people or more people at least 90 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
(intention attached).

[ ] An HPDES permit is required.

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

[ ] No comments/objections.

Contact Person: Bill Wong
Phone: __________

Signed: Bill Wong

Date: _JUN 24 2003_
STATE MESSENGER DELIVERY

Date: June 24, 2003

To: Commission on Water Resource Management
Department of Land & Natural Resources
State of Hawaii

Attn: Ryan Imoto

From: Lori Kajiwara
Planning & Design Section
Email: Lkajiwara@watercommission.hawaii.gov

Subject: Well Construction/Pump Installation Permit/Water Use Permit for Well No. 2345-01

Kawai Nui Test Well

Please find enclosed the application of the above subject project.

STATE MESSENGER DELIVERY
TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Harold Yee, Wastewater Branch
William Wong, Safe Drinking Water Branch
Dr. Keith Kawaoka, Hazardous Evaluation and Emergency Response
Alec Wong, Clean Water Branch

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

SUBJECT: Exploratory Well Construction Permit Application
Kawai Nui Test Well (Well No. 2345-01)

Transmitted for your review and comment is a copy of the captioned Exploratory Well Construction 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 July 3, 2003. 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 [Contact Person: Ryan N. Kajiwara].

C: 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 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 [if ] 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.

No comments/objections

Contact Person: Ryan N. Kajiwara

Signed: Ryan N. Kajiwara

Date: 6-24-2003
June 18, 2003

TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Harold Yee, Wastewater Branch
William Wong, Safe Drinking Water Branch
Dr. Keith Kawakoa, Hazardous Evaluation and Emergency Response
Alec Wong, Clean Water Branch

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

SUBJECT: Exploratory Well Construction Permit Application
Kawai Nui Test Well (Well No. 2345-01)

Transmitted for your review and comment is a copy of the captioned Exploratory Well Construction 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 July 3, 2003. 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

C:s
Attachment(s)

RESPONSE:

[1] This well qualifies as a source of non-potable water to a public water system (defined as serving 25 or more people at least 60 days per year or at least 15 service 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 Potable Water Systems, §§11-20-26.

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

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

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

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

[1] An NPDES permit is required.

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

[ ] No comments/objections

Contact Person: Dr. Keith Kawakoa
Phone: 

Signed: 
Date: 6/24/03

Fax to: Commission on Water Resources Mgt.
The Department of Health, Clean Water Branch has the following comments:

1. For Well-Drilling Activities

Any discharge to State waters of treated process wastewater effluent associated with well drilling activities is regulated by Hawaii Administrative Rules, Title 11, Chapter 55, Appendix I, effective November 7, 2002. Treated process wastewater effluent covered by this general permit includes well drilling slurries, lubricating fluids wastewaters, and well purge wastewaters. This general permit does not cover well pump testing. The applicable Notice of Intent Forms and filing fee shall be submitted at least thirty (30) days before the start of discharge to the Department of Health, Clean Water Branch at

2. For Well Pump Testing

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

JS/cr
FROM: RYAN
DATE: 1-May-03
SUSPENSE DATE: 

TO: BAUER, G. 
TO: LUM, A. 
INIT. 3 Approval
INIT. 3 Approval
FOR: Susense Date:
PLEASE:
See Me
1 Review & Comment
Take Action
1 Review & Comment
Type Draft acknowledge letter
Type Final, label new file folder

BAUER, G. 
CHING, F. 
FUJII, N.
HARDY, R.
HIGA, D.
HIRANO, E.
ICE, C.
IMATA, R.
JINNAI, R.
KUNIMURA, I.

DATE: 1-May-03
WELL NUMBER: 2345-01
WELL NAME: Kawai Nui Test

ATTACHMENTS FOR APPLICATION PROCESSING - Both applicant & staff generated
1 TRANS. LETTER
2 CWRM MAP
3 APPL. FORM (3X)
4 USGS MAPS (3X)
5 TAX MAPS (3X)
6 PARCEL OWNER VERIF. MLS PRINTOUT
7 CONTRACTOR VERIF. DCCA LICENSE SCREEN PRINTOUT
8 ALL INFO FILLED IN
9 BACKGROUND CHECK

FOLDER:
1 MADE NEW FILE FOLDER, ATTACHED
FILE FOLDER ALREADY MADE, IN FILE CABINET

INCOMPLETE ACTION DATES:

DATE ACTION

1) Need WSP unless they only construct a well
2) Don't need tax (gov. agencies exempt)
No tax maps
June 18, 2003

Mr. David Smith  
Department of Land and Natural Resources  
Division of Forestry and Wildlife

Dear Mr. Smith:

**Exploratory Well Construction Permit Application for Well No. 2345-01**

We acknowledge receipt, on June 4, 2003, of your completed Exploratory Well Construction permit application for the Kawai Nui Test Well (Well No. 2345-01). You can expect your application to be processed within ninety (90) days from this date.

Also, because government agencies are exempt from filing fees for Well Construction and Pump Installation Permits, we are returning your check for the filing fee.

For your information, the process of constructing a well is normally regulated and permitted in two (2) steps. First, a well construction permit is issued for drilling and testing purposes only. Based upon information provided by you through a Well Completion Report Part 1 (Well Construction), a pump installation permit (upon completed application) may then be issued to authorize pump work. If a pump is installed then a Well Completion Report Part 2 (Pump Installation) is required.

Additionally, based on a phone conversation between Ryan Imata of Commission staff and Ida Knutsen of Environet Inc. on June 4, 2003, we understand that the well is exploratory for production well purposes. You should understand that if the well is capable of producing water, there is no guarantee that you will be able to pump its capacity as additional permits are required. The additional permits required are 1) a Water Use Permit and 2) a Pump Installation Permit. Data gathered during the initial well construction phase of this exploratory well will provide important evidence towards addressing issues related to these two additional permits.

If you have any questions about your permit application, please contact Ryan Imata of the Commission staff at [contact information].

Sincerely,

[Signature]

ERNEST Y.W. LAU  
Deputy Director

RI:ss  
Enclosure  

c: Ida Knutsen, Environet Inc.
June 18, 2003

TO: Honorable Chiyome L. Fukino, M.D., Director
   Department of Health
   Attention: Harold Yee, Wastewater Branch
            William Wong, Safe Drinking Water Branch
            Dr. Keith Kawakka, Hazardous Evaluation and Emergency Response
            Alec Wong, Clean Water Branch

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

SUBJECT: Exploratory Well Construction Permit Application
         Kawai Nui Test Well (Well No. 2345-01)

Transmitted for your review and comment is a copy of the captioned Exploratory Well Construction 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 July 3, 2003. 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 [redacted].

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 connection) 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.

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

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

[ ] An NPDES permit is required.

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

[ ] No comments/objections

Contact Person: ____________________________ Phone: ______________

Signed: ____________________________ Date: ______________
TO: Dede Mamiya, Administrator
Land Division

FROM: Ernest Y.W. Lau, Deputy Director
Commission on Water Resource Management

SUBJECT: Exploratory Well Construction Permit Application
Kawai Nui Test Well (Well No. 2345-01)

June 18, 2003

Transmitted for your review and comment is a copy of the captioned Exploratory Well Construction 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 July 3, 2003. 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 __________

C: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. ________________.

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

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

[ ] No objections

[ ] Other comments:

Contact Person: ___________________ Phone: ____________

Signed: ___________________ Date: ______________
June 18, 2003

TO: Holly McEldowney, Acting Administrator
    Historic Preservation
FROM: Ernest Y.W. Lau, Deputy Director
    Commission on Water Resource Management
SUBJECT: Exploratory Well Construction Permit Application
    Kawai Nui Test Well (Well No. 2345-01)

Transmitted for your review and comment is a copy of the captioned Exploratory Well Construction 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 July 3, 2003. 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 [Redacted].

C:ss
Attachment(s)

RESPONSE:

[ ] There may be areas in the vicinity of the well site that contain subsurface cultural remains such as artifacts, burials or concentrations of shells or charcoal.

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

[ ] No objections

[ ] Other comments:

Contact Person: ___________________________ Phone: ____________

Signed: ___________________________ Date: ________________
PAY TO THE ORDER OF: Dept. of Land and Natural Resources

$ 25.00

Twenty-Five and 00/100

MEMO Application for permit

AUTHORIZED SIGNATURE
Aloha Ryan,

I noticed that Environet's name and contact information is not listed on the permit application, but since we are the ones who have submitted the application, we will provide any missing information and any other required permit applications. Please use the information provided below to contact me if you have any concerns or need any other materials for the application. It would also be greatly appreciated if you could give me a call or send me an e-mail when the application has been reviewed.

Thank you very much for your time and effort,

Ida

Ida Knutsen
Environmental Scientist
Environet, Inc.

PS: Please let me know if you got the Tax Map I just faxed. Mahalo!

----- Original Message ----- 
From: Ryan.R.Imata@hawaii.gov [mailto:Ryan.R.Imatagreg]  
Sent: Friday, May 16, 2003 8:45 AM  
To: icnutsen@  
Subject: Kawainui Test Well

----- Forwarded by Ryan R Imata/DLNR/StateHiUS on 05/16/2003 08:45 AM ----- 

Ryan R Imata

To: vikinggreg@greg

05/06/2003 10:12 AM

Subject: Kawainui Test Well

Aloha David!

We have received your application form for the Kawainui Test Well. I have a few questions/requirements before we can accept your application as complete.

You need to send in the Tax Map portion showing the location of the well per item 2(b) on your application form.
Also, the process of applying for a permit is split into a Well Construction Permit and a Pump Installation Permit. You have not checked off the box indicating if this is one or the other or both. This is important, because if you intend to apply for a Pump Installation Permit at this time, you will also need to apply for a Water Use Permit.

It is important also to note that the process is that you will apply for the Well Construction Permit, after which you will drill and pump test your well. Upon submission of the pump test results, assuming we have accepted a Water Use Permit, we can then analyze the test results and process your application for the Water Use Permit. The risk associated with this is that there is no guarantee that after you drill and pump test your well, that you will actually get a Water Use Permit.

Please feel free to respond to this e-mail or call me at [Redacted] to discuss this further.

Ryan
Subject: ida knudsen
Entry Type: Phone call
Start: Mon 6/16/2003 10:48 AM
End: Mon 6/16/2003 10:48 AM
Duration: 0 hours

asked me to check on what lenore said regarding smaller diameter wouldn't require wcp

new cell =********
<table>
<thead>
<tr>
<th>Subject:</th>
<th>ida knutsen</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
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<td>Fri 5/16/2003 8:42 AM</td>
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</tr>
<tr>
<td>Duration:</td>
<td>0 hours</td>
</tr>
</tbody>
</table>

sent in wcp for kawainui marsh - what else do they need to do?
I forwarded her the e-mail requesting the information pertaining to drilling the well as exploratory, etc.
Aloha David!

We have received your application form for the Kawainui Test Well. I have a few questions/requirements before we can accept your application as complete.

You need to send in the Tax Map portion showing the location of the well per item 2(b) on your application form.

Also, the process of applying for a permit is split into a Well Construction Permit and a Pump Installation Permit. You have not checked off the box indicating if this is one or the other or both. This is important, because if you intend to apply for a Pump Installation Permit at this time, you will also need to apply for a Water Use Permit.

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Please feel free to respond to this e-mail or call me at [redacted] to discuss this further.

Ryan
To: Ryan Imata  
From: Ida Knutsen  

Re: Kawainui Marsh well construction permit  

☑ Urgent  ☐ For Review  ☐ Please Comment  ☐ Please Reply  ☐ Please Recycle  

Comments:  

Mr. Imata,  

Here is the Tax map given to us by US Army Corps of Engineers. Please let me know if you need anything else.  

Thank you very much,  

Ida Knutsen
**State of Hawaii**
**Commission on Water Resource Management**
**Department of Land and Natural Resources**
**APPLICATION FOR PERMIT**

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management. Application must be accompanied by 5 copies and a non-refundable filing fee of $250 payable to the State of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0225.

**APPLICANT INFORMATION:** (Fill out all three, if applicable, and place a check next to the primary contact)

<table>
<thead>
<tr>
<th>1. (a)</th>
<th><strong>WELL OWNER:</strong> DLNR</th>
<th><strong>Contact Person:</strong> David Smith</th>
<th><strong>Phone:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Mailing Address:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. (b)</td>
<td><strong>LAND OWNER:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Mailing Address:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. (c)</td>
<td><strong>CONTRACTOR:</strong></td>
<td><strong>Contact Person:</strong> Mike Sober</td>
<td><strong>Phone:</strong></td>
</tr>
<tr>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

**WELL & PUMP INFORMATION:** (Please fill in the diagram on the back of this form.)

2. **WELL NAME:** Kawai Nui Test Well  
   **Island:** Oahu  
   **Address:** 777 Kalanianaloa Hwy  
   **Tax Map Key:** 1-4-2-013-010  
   **Zone:** Sec  Plat Parcel

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

3. **PROPOSED WORK:**  
   (check all that apply)
   - [ ] Construct New Well
   - [ ] Install New Pump
   - [ ] Modify Existing Well
   - [ ] Modify Pump
   - [ ] Abandon/Seal

   **State Well No.:** (if unknown, please call Commission at 587-0225)

4. **CONSTRUCTION:**  
   [ ] Drilled  
   [ ] Dug  
   [ ] Shaft  
   [ ] Tunnel

   Is this well part of a battery of wells?  
   [ ] Yes  
   [ ] No (Please describe)

5. **PROPOSED PUMPING RATE:** 300 gallons per minute

6. **PROPOSED USE:**  
   (check all that apply)
   - [ ] Municipal (including hotels, stores, etc.)  
   - [ ] Domestic (individual, noncommercial water system)

   Does this well serve 25 or more people at least 60 days per year or have 15 or more service connections?  
   [ ] Yes  
   [ ] No

   - [ ] Irrigation (crop)  
   - [ ] No. of Acres:

   - [ ] Military

   - [ ] Other (explain): Water source

7. **PROPOSED AMOUNT OF WITHDRAWAL:**  
   (a) [ ] Flowmeter [ ] Open-pipe [ ] Weir [ ] Orifice [ ] Other (explain):  
   [ ] gallons per day for pond restoration

   (b) **METHOD OF FLOW MEASUREMENT:**  
   [ ] Flowmeter [ ] Open-pipe [ ] Weir [ ] Orifice [ ] Other (explain):

**OTHER IMPORTANT INFORMATION:**

8. **LEGAL REQUIREMENTS:** If required, these permits must be obtained before the Commission can legally issue a permit.

   - **Conservation District Use Permit (CDUP):** To find out if a CDUP is necessary, call DLNR Land Division at 587-0414  
   - **Environmental Impact Statement (EIS) or Environmental Assessment (EA):** To determine if an EIS or EA is necessary, call the OEQC at 587-4185  
   - **Special Management Area Permit (SMAP):** To determine if an SMAP is necessary, call DLNR Plant Protection Section at 527-5374

   **April 23, 2000**  
   [ ] Not Required  
   [ ] Required if approved, date approved

   **April 23, 2000**  
   [ ] Not Required  
   [ ] Required if approved, date approved

9. **REMARKS, EXPLANATIONS:**

   (if more space is needed, please attach additional sheet)

   **NOTE:** Signing below indicates the signatories understand and swear that the information provided on this application is accurate and true to the best of their knowledge. Further, the signatories understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 60 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of cumulative water rights; 5) the contractor shall not undertake any work prior to payment of the permit fee; 6) 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 $1,000/day.

   **Well Owner:**  
   **Signature:** Mike Sober  
   **Date:** April 23, 2000  
   (print legibly)

   **Contractor:**  
   **Signature:** Mike Sober  
   **Date:** April 23, 2000  
   (print legibly)

   **For official use only**

   **Latitude:**  
   **Longitude:**  
   **Aquifer System No.:**  
   **State Well No.:**

   **WCPSPA Form 82-1/01**
10. PROPOSED WELL SECTION (Please attach schematic if different from diagram provided below)

**Solid Casing Material:**
- Carbon Steel: compliant with (check one or more): □ ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
- Stainless Steel: (check one or more): □ ASTM A242 □ Type E □ Type S □ Grade B □ Other
- ABS Plastic: conforming to ASTM F480 and ASTM D1527 (check one): □ Schedule 40 □ Schedule 80
- PVC Plastic: conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one): □ Schedule 40 □ Schedule 80 □ Schedule 120
- Thermoset Plastic: (check one)
  - □ Filament Wound Resin Pipe conforming to ASTM D2996
  - □ Centrífugally 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 D3206

**Open Casing Material:**
- Carbon Steel: compliant with (check one or more): □ ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
- Stainless Steel: (check one or more): □ ASTM A242 □ Type E □ Type S □ Grade B □ Other
- ABS Plastic: conforming to ASTM F480 and ASTM D1527 (check one): □ Schedule 40 □ Schedule 80
- PVC Plastic: conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one): □ Schedule 40 □ Schedule 80 □ Schedule 120
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  - □ Filament Wound Resin Pipe conforming to ASTM D2996
  - □ Centrífugally 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 D3206

* 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-saline water Basalt Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or,

\[
\text{Total Elevation Limit} = \frac{(2 \times \text{Aquifer Thickness})}{4}
\]

Example: Estimated 2 ft. Water Level Elevations Bottom Elevation of Well Limit = \left( \frac{2 \times 2}{4} \right) = 1.5 ft.

**Solid Casing Material:**
- Carbon Steel: compliant with (check one or more): □ ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
- Stainless Steel: (check one or more): □ ASTM A242 □ Type E □ Type S □ Grade B □ Other
- ABS Plastic: conforming to ASTM F480 and ASTM D1527 (check one): □ Schedule 40 □ Schedule 80
- PVC Plastic: conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one): □ Schedule 40 □ Schedule 80 □ Schedule 120
- Thermoset Plastic: (check one)
  - □ Filament Wound Resin Pipe conforming to ASTM D2996
  - □ Centrífugally 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 D3206

**Open Casing Material:**
- Carbon Steel: compliant with (check one or more): □ ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
- Stainless Steel: (check one or more): □ ASTM A242 □ Type E □ Type S □ Grade B □ Other
- ABS Plastic: conforming to ASTM F480 and ASTM D1527 (check one): □ Schedule 40 □ Schedule 80
- PVC Plastic: conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one): □ Schedule 40 □ Schedule 80 □ Schedule 120
- Thermoset Plastic: (check one)
  - □ Filament Wound Resin Pipe conforming to ASTM D2996
  - □ Centrífugally 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 D3206
Produced by the United States Geological Survey
in cooperation with National Imagery and Mapping Agency
Topography compiled 1952. Planimetry derived from imagery
taken 1998 and other sources. Survey control current as of 1982
Boundaries current as of 2000
North American Datum of 1983 (NAD 83). Projection and
1000-meter grid: Universal Transverse Mercator, zone 4
10 000-foot ticks: Hawaii Coordinate System of 1983
(zone 3)
Old Hawaiian Datum is shown by dashed corner ticks
The values of the shift between NAD 83 and Old Hawaiian Datum