NOTICE TO START DRILLING

DATE: 9/13/2004

This is to inform you that we would like to start well construction on FENN Well No. 3687-10 and would like to use the test pump as the permanent pump prior to final pump installation permit issuance.

Fill free to call me at 808-987-8100 or home 808-966-6398.

Rod Diamond  Well Driller/ Contractor BC23379
WELL CONSTRUCTION PERMIT

Fenn Well, Well No. 3687-10

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 construction and testing of Fenn Well (Well No. 3687-10) at HPP, Hawaii, TMK 1-5-055: 129, subject to the Hawaii Well Construction & Pump Installation Standards (February 2004) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.
2. The well construction permit shall be for construction and testing of the well only. A minimum 1½-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 basalt ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson.
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 investigate 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 Staff 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 intra-stream flow standards. This permit or the authorization to construct the well shall not constitute a determination of water rights.
7. The following shall be submitted to the Chairperson within sixty (60) days after completion of work:
   a. Well completion report (attached - Part I, Well Construction Report)
   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 (February 2004; 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 assign shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, injury, or death arising out of any act or omission of the applicant, assign, officers, employees, 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: April 14, 2004
Expiration Date: April 14, 2006

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 satisfied all conditions, and returned 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: Isaac J. Fenn
Printed Name: Isaac J. Fenn
Firm or Title: Land Operater
Driller's Signature: Robert J. Fenn
Printed Name: Robert J. Fenn
Firm or Title: Driller

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

Attachment

Department of Health, Safe Drinking Water, Wastewater, and Clean Water Branches
Hawaii Department of Water Supply
March 22, 2004

TO: Dede Mamiya, Administrator
    Land Division
FROM: Ernest Y.W. Lau, Deputy Director
       Commission on Water Resource Management
SUBJECT: Well Construction/Pump Installation Permit Application
         Fenn Well (Well No. 3687-10)

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 April 30, 2004. 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. ______________________

[ ] 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: Original source of private title was issued prior to statehood when the state was not reserving water and mineral rights.

Contact Person: Gary Martin
Phone: 587-0421

Signed: Gary Martin
Date: APR 30 2004
Ref: 3687-10.wcp

Mr. Isaac Fenn
RR-3 Box 1051
Pahoa, HI 96778

Dear Mr. Fenn:

Well Construction Permit
Fenn Well (Well No. 3687-10)

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.

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 (February 2004) 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 587-0255 or toll-free at 974-4000 (Hawaii), 274-3141 (Kauai), 984-2400 (Maui), or 1-800-468-4644 (Lanai & Molokai), extension 70255.

Sincerely,

[Signature]

Peter T. Young
Chairperson

Enclosures
WELL CONSTRUCTION PERMIT

Fenn Well, Well No. 3687-10

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 construction and testing of Fenn Well (Well No. 3687-10) at HPP, Hawaii, TMK 1-5-055: 125, subject to the Hawaii Well Construction & Pump Installation Standards (February 2004) which include but are not limited to the following conditions:

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

2. The well construction permit shall be for construction and testing of the well only. A minimum 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 (February 2004, 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 thirty (30) days prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee, pump installation, 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 §13-165-12(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 losses, 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.

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

Date of Approval: April 14, 2004
Expiration Date: April 14, 2006

PETER T. YOUNG, Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the driller have signed, dated, and returned 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: ____________________________ Date: ______________

C-57 License #: ____________________________

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

C-57

USGS

Department of Health Safe Drinking Water, Wastewater, and Clean Water Branches

Hawaii Department of Water Supply
**Commission on Water Resource Management**

**Route Slip for Permit Issuance**

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**WELL NUMBER:** 3687-10  **WELL NAME:** Fern Well

**WELL CONSTRUCTION**

- **ATTACHMENTS FOR WELL CONSTRUCTION PERMIT:**
  - 1 COVER LETTER
  - 2 PERMIT (2x)
  - COMMENTS:
  - 3 SDWB
  - 4 WWB
  - 5 CWB
  - 6 HEER
  - 7 LD
  - 8 HP
  - 9 PUMP TEST
  - 10 WCR I FORM

**PUMP INSTALLATION**

- **ATTACHMENTS FOR PUMP INSTALLATION PERMIT:**
  - 1 COVER LETTER
  - 2 PERMIT (2x)
  - COMMENTS:
  - 3 SDWB
  - 4 WWB
  - 5 CWB
  - 6 HEER
  - 7 LD
  - 8 HP
  - 9 WCR II FORM
  - 10 WUR FORM

---

Accept appl. on 4/6/04

Note: In this area they haven't had much economic growth.
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 421
HONOLULU, HAWAII 96802

March 22, 2004

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: Well Construction/Pump Installation Permit Application
         Fenn Well (Well No. 3817-10)

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 April 30, 2004. 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:

[ ] The well qualifies as an aquifer which will serve as a source of possible water to a public water system (defined as serving 25 or more people at least 60 days per year or 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, §11-20-26.

[ ] The well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before installing such use and routinely monitor the water quality thereafter. However, if future 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 aspects 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.

[ ] No comments/objections

Contact Person: Bill Wong
Phone: 808-225-0258

Signed: Bill Wong
Date: 4/12/04
1. We believe there are no historic properties present because:
   a. intensive cultivation has altered the land
   b. residential development/urbanization has altered the land
   c. previous grubbing/grading has altered land
   d. an acceptable archaeological assessment or inventory survey found no
      historic properties
   __ e. other: No known historic sites; please contact SHPD should lava tubes or
      cultural remains be encountered during drilling of the well.

2. This project has already gone through the historic preservation review process.
   a. mitigation has been completed
   b. other:
   __ X. Thus, we believe that “no historic properties will be affected by this undertaking.

Signed: Jeanne M. Knapp
Historic Preservation Division, Kona
Jeanne M. Knapp

Date: 4-7-04
Wastewater Branch
919 Ala Moana Blvd. Room 309
Honolulu, Hawaii 96814-4920
Phone (808) 586-4294 Fax (808) 586-4300

STATE MESSENGER DELIVERY

Date: 4-1-2004

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

Attn: Ryan Imata

From: Lori Kajiwara
Planning & Design Section
Email: Lkajiwara@eha.health.state.hi.us

Ph 586-4290 direct line
Fax 586-4300

Subject: Well Construction/Pump Installation Permit/Water Use Permit for
Well No. 3687-10 Penn Well

Please find enclosed the application of the above subject project.

STATE MESSENGER DELIVERY
March 22, 2004

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: Well Construction/Pump Installation Permit Application
Fenn Well (Well No. 3687-10)

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 April 30, 2004. 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 50 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, § 11-20-01.

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.

[ ] No comments/objections

Contact Person: Lori N. Kajiwara
Phone: 926-0241

Signed: Lori N. Kajiwara
Date: 4-1-2004
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Acceptable app.
March 22, 2004

Mr. Isaac Fenn
RR3 Box 1051
Pahoa, HI 96778

Dear Mr. Fenn:

Well Construction/Pump Installation Permit Application for Well No. 3687-10

We have received your Well Construction/Pump Installation permit application and filing fee for the Fenn Well (Well No. 3687-10). However, your application is incomplete. Matters which must be addressed before we accept your application as complete are as follows:

1. Because we understand that you have recently purchased your property, to expedite matters we will begin processing your permit. However, we will be unable to accept your application or issue a permit. As soon as possible, please submit the documentation (deed, etc.) that indicates that the property has been transferred to you.

Upon receipt of the above information we will accept your application as complete and you can then expect your application to be processed within ninety (90) days.

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.

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), 274-3141 (Kauai), 984-2400 (Maui), or 1-800-468-4644 (Lanai & Molokai) extension 70255.

Sincerely,

[Signature]

ERNEST Y.W. LAU
Deputy Director

R: ss
TRUSTEES' LAND COURT DEED

PARTIES TO DOCUMENT:

GRANTOR: Laverne Dice and Virginia Dice, Trustees, or their Successors in Trust, under the Dice Living Trust dated December 15, 2000, and any amendments thereof, 21222 1st Avenue So., Des Moines, Washington 98198

GRANTEE: Isaac James Fenn, husband of Patricia Ross Fenn, and Patricia Ross Fenn, wife of Isaac James Fenn, as joint tenants, RR 3 Box 1051, Pahoa, Hawaii 96778

PROPERTY DESCRIPTION:

Lot 2442, Block 7, area 1 acre, Keāau, District of Puna, Island and County of Hawaii, State of Hawaii

LIBER/PAGE: DOCUMENT NO.: 2746396
TRANSFER CERTIFICATE OF TITLE NO.: 594,049

TMK (3) 1-5-055-129
TRUSTEES' LAND COURT DEED

GRANTOR: LAVERNE DICE and VIRGINIA DICE, Trustees, or their Successors
in Trust, under the Dice Living Trust dated December 15, 2000, and
any amendments thereof, having full power to sell, convey,
exchange, mortgage, lease, assign, or otherwise deal with and
dispose of all lands of the trust estate and interests therein, both of
whose mailing address is 21222 1st Avenue So., Des Moines,
Washington 98198.

GRANTEE: ISAAC JAMES FENN, husband of Patricia Ross Fenn, and
PATRICIA ROSS FENN, wife of Isaac James Fenn, both of whose
mailing address is RR 3 Box 1051, Pahoa, Hawaii 96778.

Transfer of Property

In exchange for money or other valuable consideration, Grantor
 Grants, bargains and sells to Grantee the property described in Exhibit A.

Transfer of All Property Rights and Interests

Also granted is all of Grantor's right, title and interest in the property.

This grant includes, where applicable, rents (right to payments from another
person's use of the property), profits (right to take soil and anything growing on the
property), buildings, improvements (man-made changes to the property),
easements (right to use someone else's property for a limited purpose like a
roadway or for utility lines) and all other rights and benefits belonging to the property.

How Title To Be Held

Grantee shall take title as joint tenants, and the property, property rights and Grantor's promises shall flow to Grantee, their assigns, (anyone to whom Grantee gives right, title or interest in the property), the surviving joint tenant, his or her heirs, devisees, personal representatives and assigns (anyone to whom the law says the property goes to on the surviving joint tenant's death), in fee simple forever.

Grantor's Promises

Grantor gives a general warranty of title:

Grantor promises to be the lawful fee simple owner and to have the legal right to convey the property. There are no liens, claims or charges against the property except those mentioned in Exhibit A.

Grantor will warrant and defend the fee simple title being conveyed if challenges are made by others. Grantor will be responsible for any losses Grantee may suffer in case someone else holds some of the rights being conveyed by Grantor.

Grantor's promises are also made on behalf of Grantor's heirs, personal representatives, successors in trust and assigns (anyone who the law says takes over Grantor's obligations under this Deed).
The terms "Grantor" or "Grantee" mean and include the male and female gender, the singular or plural, and individuals, corporations or partnerships, depending on the situation.

Grantor agrees to everything that is in this Deed, which is made on this 21 day of march, 2004.

LAVERNE DICE

VIRGINIA DICE

Trustees, or their Successors in Trust, under the Dice Living Trust dated December 15, 2000, and any amendments thereof

GRANTOR

Approved as to Form

RAYMOND K. HASEGAWA
Attorney at Law
STATE OF WASHINGTON  
COUNTY OF King  

On this 21st day of March, 2007, before me personally appeared LAVERNE DICE, one of the Trustees, under the Dice Living Trust dated December 15, 2000, and any amendments thereof, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that she executed the same as her free act and deed as said Trustee.

M. Chin  
Print Name: M. Chin  
Notary Public, State of Washington

My Commission expires:  
29 March 2007
STATE OF WASHINGTON  
COUNTY OF King  

On this 21st day of March 2004,

before me personally appeared VIRGINIA DICE, one of the Trustees, under the Dice Living Trust dated December 15, 2000, and any amendments thereof, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that she executed the same as her free act and deed as said Trustee.

[Notary Seal]  
Print Name: Moitar Chin  
Notary Public, State of Washington

My Commission expires: 29 March 2009
ALL OF THAT CERTAIN PARCEL OF LAND SITUATE AT KEAAU, DISTRICT OF HONAUNAU, ISLAND AND COUNTY OF HAWAII, STATE OF HAWAII, DESCRIBED AS FOLLOWS:

LOT 2442, AREA 1 ACRE, IN BLOCK 7, AS SHOWN ON MAP 58, FILED WITH LAND COURT APPLICATION NO. 1053 (AMENDED) OF W. H. SHIPMAN, LIMITED.

TOGETHER WITH AN UNDIVIDED 1/750TH INTEREST IN AND TO LOTS 60; 62; 8297; 8363; 8385; 8387 AND 3115 IN BLOCK 7; AND LOT 1 IN BLOCK 10; AS SHOWN ON MAPS 10, 10, 55, 56, 57, 58 AND 65, RESPECTIVELY, OF SAID APPLICATION NO. 1053 (AMENDED); AND LOT 4-B, AS SHOWN ON MAP 2 OF LAND COURT APPLICATION NO. 1689 OF W. H. SHIPMAN, LIMITED; TO BE USED IN COMMON WITH OTHERS ENTITLED THERETO, FOR ROADWAY AND UTILITY PURPOSES ONLY.

BEING ALL OF THE PREMISES DESCRIBED IN AND COVERED BY TRANSFER CERTIFICATE OF TITLE NO. 594,049.

ISSUED TO: LAVERNE DICE AND VIRGINIA DICE, TRUSTEES, OR THEIR SUCCESSORS IN TRUST, UNDER THE DICE LIVING TRUST, DATED DECEMBER 15, 2000, AND ANY AMENDMENTS THEREOF

(QUITCLAIM DEED RECORDED OCTOBER 22, 2001 AS LAND COURT DOCUMENT NO. 2746396 OF OFFICIAL RECORDS.)

SUBJECT, HOWEVER, TO:

AS TO LOTS 60 AND 62 ONLY:

Right of way over and across Lots 60 and 62, in favor of Lot 58, as granted by that certain Deed recorded as Land Court Document No. 104733 of Official Records.

AS TO LOT 4-B ONLY:

a. Title to all mineral and metallic mines reserved to the State of Hawaii.

b. A Lease of Right of Way for utility purposes in favor of Hawaiian Telephone Company (now Verizon Hawaii Inc.) for a term of 30 years from May 6, 1955, and thereafter from year to year until terminated by either party on 90 days written notice, recorded as Land Court Document No. 181820, as amended, of Official Records.

AS TO LOT 62 ONLY:

Easement 29 for utility purposes, shown on Map No. 10 filed with Land Court Application No. 1053, as set forth by Land Court Order No. 17102, recorded April 24, 1959.

AS TO LOT 8387 ONLY:

Easement 30 for utility purposes, shown on Map No. 57 filed with Land Court Application No. 1053, as set forth by Land Court Order No. 17102, recorded April 24, 1959.

EXHIBIT A
AS TO LOTS 62 AND 8387 ONLY:


AS TO LOTS 60, 62, 8297, 8363, 8385, 8387, 3115, 1 AND 4-B:

Exception, reservation and power in favor of Hawaiian-Paradise Park Corp., its successors and assigns, as set forth or disclosed by the Deed recorded as Land Court Document No. 485027 of Official Records.

According to the public records, the foregoing document was assigned to Paradise Hui Hanalike, a Hawaii nonprofit corporation (now Hawaiian Paradise Park Owners Association), by assignment as set forth by Land Court Order No. 77755 recorded April 2, 1986.

AS TO THE UNDIVIDED INTEREST IN LOTS 8297 AND 8387:

Final Order of Condemnation filed in the Third Circuit Court of the State of Hawaii with Civil No. 89-212, condemning a portion of Lots 8297 and 8387 more particularly described therein.

Note: The foregoing instrument is not noted on Transfer Certificate of Title 594,049.
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<tr>
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<td>Well Name</td>
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<td>Minimum Wall Thickness</td>
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<tr>
<td>Minimum Length of Solid Casing</td>
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<td>90% of ground to top of aquifer</td>
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<tr>
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<td>Casing Material</td>
<td>ASTM A53 In compliance</td>
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<td>(For pvc only - Check for 200 limit)</td>
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<td>Annular Space</td>
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<td>Section 2.6(d)</td>
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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 919 Ala Moana Boulevard, Room 301, Honolulu, Hawaii 96814-4920 or P.O. Box 3378, Honolulu, Hawaii 96801-3378. Inquiries may be directed to the Clean Water Branch at (808) 586-4309 or by fax at (808) 586-4352.

2. For Well Pump Testing

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

JS/cr
March 22, 2004

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: Well Construction/Pump Installation Permit Application

Fenn Well (Well No. 3687-10)

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 April 30, 2004. 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:

[1] The well qualifies as a source which will serve as a source of possible 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 26, Rules Relating to Potable Water Systems, §§11-20-20.

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

[3] If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by 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.

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


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

[8] No comments/recommendations

Contact Person: Alec Wong
                Phone: 586-4309

Signed: Alec Wong
        Date: 3/31/04
# COMMISSION ON WATER RESOURCE MANAGEMENT

## ROUTE SLIP FOR NEW APPLICATIONS

**FROM:** Ryan, G.  
**DATE:** 16-Mar-04  
**TO:** Lau, E.  
**INIT:**  
**TO:** Nakama, L.  
**INIT:**  
**FOR:** Approval  
**FOR:** Signature  
**SUSPENSE DATE:** 23-Mar-04  
**PLEASE:**  
- Review & Comment  
- Take Action  
- Type Draft acknow letter  
- Type Final, label new file folder  
- File  
- Xerox copies  

## WELL NUMBER

**WELL NUMBER:** 3087-10  
**WELL NAME:** Fenn  

![Check boxes and options](image)

**ATTACHMENTS FOR APPLICATION PROCESSING:** Both applicant & staff generated  
1. TRANS. LETTER  
2. CWRM MAP  
3. APPL. FORM (SCOPIES)  
4. USGS MAPS (5 COPIES)  
5. TAX MAPS (6 COPIES)  
6. PARCEL OWNER VERIF. MLS PRINTOUT  
7. CONTRACTOR VERIF. DCAC LICENSE SCREEN PRINTOUT  
8. ALL INFO FILLED IN  
9. BACKGROUND CHECK  
10. $25 FEE DEPOSIT SLIP  
11. DHP, SMA, EA check  

**FOLDER:**  
- Made new file folder, attached  
- File folder already made, in file cabinet  

**INCOMPLETE ACTION DATES:**

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<tr>
<td>3/18/04</td>
<td>Wrong owner - they just bought (call back tomorrow)</td>
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<td>4/12/04</td>
<td>App. Acceptable as complete.</td>
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</tbody>
</table>

---

Accord to lady @ phone F 13313.

Issac
March 22, 2004

Mr. Isaac Fenn
RR3 Box 1051
Pahoa, HI 96778

Dear Mr. Fenn:

Well Construction/Pump Installation Permit Application for Well No. 3687-10

We have received your Well Construction/Pump Installation permit application and filing fee for the Fenn Well (Well No. 3687-10). However, your application is incomplete. Matters which must be addressed before we accept your application as complete are as follows:

1. Because we understand that you have recently purchased your property, to expedite matters we will begin processing your permit. However, we will be unable to accept your application or issue a permit. As soon as possible, please submit the documentation (deed, etc.) that indicates that the property has been transferred to you.

Upon receipt of the above information we will accept your application as complete and you can then expect your application to be processed within ninety (90) days.

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.

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), 274-3141 (Kauai), 984-2400 (Maui), or 1-800-468-4644 (Lanai & Molokai) extension 70255.

Sincerely,

[Signature]

ERNEST Y.W. LAU
Deputy Director

R: ss
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: Well Construction/Pump Installation Permit Application  
Fenn Well (Well No. 3687-10)

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 April 30, 2004. 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.

[ ] 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:  Well Construction/Pump Installation Permit Application  
           Fenn Well (Well No. 3687-10)  

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 April 30, 2004. 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. __________________________.

[ ] 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: ____________
March 22, 2004

TO: Holly McEldowney, Acting Administrator
    Historic Preservation

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

SUBJECT: Well Construction/Pump Installation Permit Application
         Fenn Well (Well No. 3687-10)

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 April 30, 2004. 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:

[ ] 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: ___________
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<td>Isaac J. Fenn</td>
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**TOTAL** $ 25.00

**REMARKS:**
LINE (1) __________
LINE (2) __________
LINE (3) __________
LINE (4) __________
LINE (5) __________
LINE (6) __________
LINE (7) __________
LINE (8) __________
LINE (9) __________
LINE (10) __________
APPLICATION FOR PERMIT

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

1. □ WELL OWNER: 
   Contact Person: 
   Mailing Address: 
   Fax: 
   E-mail: 
2. □ LAND OWNER: 
   Contact Person: 
   Mailing Address: 
   Fax: 
   E-mail: 
3. □ CONTRACTOR: 
   Contact Person: 
   Mailing Address: 
   Fax: 
   E-mail: 

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

2. WELL NAME: 
   Address: 
   Tax Map Key: 

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

4. CONSTRUCTION: 
   □ Drilled 
   □ Dug 
   □ Shaft 
   □ Tunnel

5. PROPOSED PUMPING RATE: 
   gallons per minute

6. PROPOSED USE: (check all that apply)
   □ Municipal (including hotels, stores, etc.) 
   □ Domestic (individual, non-commercial water system)
   □ Irrigation (crop)
   □ Military
   □ Other (please specify):

7. (a) PROPOSED AMOUNT OF WITHDRAWAL: 
   gallons per day

   (b) METHOD OF FLOW MEASUREMENT:
   □ Flowmeter 
   □ Open-pipe 
   □ Weir 
   □ Office 
   □ Other (please specify):

OTHER IMPORTANT INFORMATION:

5. 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

6. Environmental Impact Statement (EIS) or Environmental Assessment (EA) To determine if an EIS or EA is necessary, call OEQC at 586-4185
   □ Required 
   □ Not Required
   □ If required, date approved:
   □ Special Management Area Permit (SMA) To determine if an SMA is necessary, on Oahu, call 527-3374; on Maui, call 901-6288; for Nā Pali
   county, call 270-7239; on Kauai, call 241-6677.
   □ Required 
   □ Not Required
   □ If required, date approved:

7. ARCHEOLOGICAL REQUIREMENTS: 
   To find out if an archeological work is required, contact DLNR Archaeology Program at 808-586-4185.
   □ Required 
   □ Not Required
   □ If required, please attach letter from DLNR Archaeological Survey.

10. REMARKS, EXPLANATIONS:

   (If more space is needed, please attach additional sheet.)

NOTE: Signing below indicates the signatory undersigned and swears that the information provided on this application is accurate and true to the best of their knowledge. Further, the signatory understands 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/abandonee 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 compliance with wetlands rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity; 5) in the event that the application is not completed correctly, any permit may be suspended until the item is brought into compliance, and any work done while the permit is in suspension may result in fines up to $10,000 per day. 

Well Owner: Isaac J. Fern
Landowner: Isaac J. Fern
Contractor: Isaac J. Fern

Signature: Isaac J. Fern
Signature: Isaac J. Fern
Signature: Isaac J. Fern

Date: 03-08-64
Date: 03-08-64
Date: 03-08-64

For official use only
Latitude 
Aquafr System No. 
Longitude 
State Well No. 

WCPRA Form 7/17/63
10. PROPOSED WELL SECTION

Please refer to the HAWAII WELL CONSTRUCTION AND PUMP INSTALLATION STANDARDS to ensure that your as-built is in compliance with applicable standards.

Solid Casing: (≥ 90% x (Ground Elev. - Water Level Elev.)
- Total Length: 60 ft.
- Nominal Diameter: 6 3/8 in.
- Wall Thickness: 0.188 in.
- Bottom Elevation: 10 ft., msl

Open Casing: (check one)
- Perforated: [ ]
- Screen: [ ]
- Total Length: 10 ft.
- Nominal Diameter: 6 3/8 in.
- Wall Thickness: 0.188 in.
- Bottom Elevation: 80 ft., msl

note: Neither bentonite nor mud should be used in automatic screen evaluation.

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

Solid Casing Material:
- Carbon Steel: compliant with (check one or more): [ ] ANSI/AWWA C200 [ ] API Spec. 5L [ ] ASTM A53 [ ] Other
- Stainless Steel: compliant with (check one or more): [ ] ASTM A499 (production well) [ ] ASTM A312 (monitor wells) [ ] Other
- ABS Plastic conforming to ASTMF480and 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 Mirror Pressure Pipe conforming to ASTM D3517 [ ]
  - Glass Fiber Reinforced Resin Mirror Pipe conforming to AWWA C960 [ ]
  - 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 [ ] Other
- Stainless Steel: compliant with (check one or more): [ ] ASTM A499 (production well) [ ] ASTM A312 (monitor wells) [ ] Other
- ABS Plastic conforming to ASTMF480and 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 Mirror Pressure Pipe conforming to ASTM D3517 [ ]
  - Glass Fiber Reinforced Resin Mirror Pipe conforming to AWWA C960 [ ]
  - PTFE Fluorocarbon Tubing conforming to ASTM D3296 [ ]
  - FEP Fluorocarbon Tubing conforming to ASTM D3296 [ ]

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

For non-salt Basal Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or, Bottom Elevation of Well Limit = (Water Elev. + 4.1 x Water Level Elev.) Example: Estimated + 2 ft. Water Level Elev. Bottom Elevation of Well Limit = (2 x 5.1 x 4.1) = -16.5 ft.