ATTN: Ryan Imata
587-0219
(2 pages)

Ryan,

Here's a copy of the letter I sent with the construction permit for the Van der Bloomer well. The well completion report will be coming soon.

He is anxious to install his little pump—please let me know what else we need for the pump installation permit.

Thank you,

Bob
Ryan,

Enclosed you'll find the signed well construction permit for the Bleeraind well (#3187-01). Drilling will begin in the next few weeks.

Mr. Bleeraind plans to install a 45 g.p.m. (max.) pump for private, individual needs. Therefore we request to install the permanent pump prior to issuance of the pump installation permit, as per Sec.-Adm. 98-05. As a step down/lowdown test is not required for < 70 g.p.m. and a constant rate test is not required for < 50 g.p.m. Please advise as to what you'll need besides the well completion report for the permit to install the pump.

Thanks,

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

### Data Input

<table>
<thead>
<tr>
<th>Well Number</th>
<th>3487-01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Name</td>
<td>Bloeman Well</td>
</tr>
<tr>
<td>Ground Elevation</td>
<td>102</td>
</tr>
<tr>
<td>Cement Grout</td>
<td>95</td>
</tr>
<tr>
<td>Grouting Method</td>
<td>other</td>
</tr>
<tr>
<td>Hole Diameter</td>
<td>12</td>
</tr>
<tr>
<td>Total Depth</td>
<td>110</td>
</tr>
<tr>
<td>Estimated Head</td>
<td>100</td>
</tr>
<tr>
<td>Public Water Supply Well?</td>
<td>no</td>
</tr>
<tr>
<td>Solid Casing Material</td>
<td>steel</td>
</tr>
<tr>
<td>Solid Casing Specification</td>
<td>ASTM A53</td>
</tr>
<tr>
<td>Solid Casing Length</td>
<td>100</td>
</tr>
<tr>
<td>Solid Casing Diameter</td>
<td>6</td>
</tr>
<tr>
<td>Solid Casing Wall Thickness</td>
<td>0.375</td>
</tr>
<tr>
<td>Open Casing Length</td>
<td>10</td>
</tr>
</tbody>
</table>

### Results

#### Well Depth
- Theoretical Thickness of Aquifer: 4100
- 1/4 Aquifer Thickness: 1025

#### Depth of Well below Sea Level
- Depth: 8, Status: okay

#### Well Casing
- Minimum Wall Thickness
  - Material: steel
  - Minimum Thickness per standards: #N/A
  - Wall Thickness Provided: 0.375
  - #N/A

#### Length of solid casing Provided
- Length: 100, Status: okay

#### Casing Material
- ASTM A53, Status: in compliance

#### Annular Space
- Calculated Depth of Grouting: 1.4
- Depth of Grouting provided: 95, Status: okay
- Minimum Annular Space required: 2
- Thickness of Annular Space: 3, Status: okay
**State of Hawaii**

**COMMISSION ON WATER RESOURCE MANAGEMENT**

**Department of Land and Natural Resources**

**WELL COMPLETION REPORT - PART I**

**Well Construction**

Instructions: Please print in ink or type and send completed report (with attachments, if applicable) to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. The Commission may not accept incomplete reports. This form shall be submitted within 60 days of the completion of work. For assistance, please consult the Hawaii Well Construction and Pump Installation Standards or call the Regulation Branch at 587-0225. For updates to this form or additional information, please visit our website at http://www.hawaii.gov/dlnr/cwrm/.

<table>
<thead>
<tr>
<th>1. State Well No.:</th>
<th>3487-01</th>
<th>Well Name: Bloeman Well</th>
<th>Island: Hawaii</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Address:</td>
<td>HPP HC3 Box 11089 Keau, HI</td>
<td>Tax Map Key: 1-5-26: 164</td>
<td></td>
</tr>
<tr>
<td>3. Drilling Company:</td>
<td>RJR SERVICES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Drilling method used during construction:</td>
<td>☑ Percussion</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Date Well Construction (drilled, cased, grouted) completed:</td>
<td>4/10/04</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Was the subject well cored?</td>
<td>☑ Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Initial water-level encountered</td>
<td>100 ft. below ground</td>
<td>Date and time of measurement: 4/1/04 10am</td>
<td></td>
</tr>
<tr>
<td>8. Step-Drawdown Test completed?</td>
<td>☑ No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. Constant Rate Aquifer Test completed?</td>
<td>☑ No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. Water-level:</td>
<td>N/A</td>
<td>Date and time of measurement:</td>
<td></td>
</tr>
<tr>
<td>11. Chloride:</td>
<td>N/A</td>
<td>ppm</td>
<td></td>
</tr>
<tr>
<td>12. Temperature:</td>
<td>N/A</td>
<td>°F</td>
<td></td>
</tr>
<tr>
<td>13. Fill in the as-built section on the other side of this sheet.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14. Fill in attached surveyor's report.</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15. If a pump is not planned to be installed, please describe (below in the remarks section) how well is secured to prevent unauthorized access (example: lockable cover, threaded coupling, etc.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16. The proposed manufacturer's rated pump capacity is</td>
<td>30 gpm at a head of 120 ft.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Licensed Driller** (print)  
RJR Services  
C-57 Lic. No. C17301

Signature:  
Date: 4/23/04

**Permittee** (print)  
Richard Vander Bloemen

Signature:  
Date: 1/29/09
Solid Casing Material:
Carbon Steel: compliant with (check one or more): □ ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
Stainless Steel: compliant with (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
□ Centrifugally Cast Resin Pipe conforming to ASTM D2997
□ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
□ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
□ PTFE Fluorocarbon Tubing conforming to ASTM D3296
□ FEP Fluorocarbon Tubing conforming to ASTM D3296

Open Casing Material:
Carbon Steel: compliant with (check one or more): □ ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
And compliant with (check one or more): □ ASTM A242 □ Type E □ Type S □ Grade B □ Other
Stainless Steel: (check one): □ ASTM A409 (production wells) □ ASTM A312 (monitor wells)
ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one) □ Schedule 40 □ Schedule 80
PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one) □ Schedule 40 □ Schedule 80 □ Schedule 120
Thermoset Plastic: (check one)
□ Filament Wound Resin Pipe conforming to ASTM D2996
□ Centrifugally Cast Resin Pipe conforming to ASTM D2997
□ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
□ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
□ PTFE Fluorocarbon Tubing conforming to ASTM D3296
□ FEP Fluorocarbon Tubing conforming to ASTM D3296

13. AS-BUILT WELL SECTION (Please attach as-built if different from diagram provided below)
Bench mark elevation: 100+ ft., msl*
(Survey to nearest 0.01 ft.)
Minimum of 2' Radius & 4" Thick Concrete Pad
Ground Elevation: 100 ft., msl

Solid Casing: (≥ 90% x (Ground Elev.-Water Level Elev))
Length: 100 ft.
Nominal Diameter: 6 in.
Wall Thickness: 0.375 in.
Bottom Elevation: -100 ft., msl

Open Casing: □ Perforated □ Screen
Length: 10 ft.
Nominal Diameter: 6 in.
Wall Thickness: 0.375 in.
Bottom Elevation: -110 ft., msl

Open Hole:
Length: N/A ft.
Diameter: N/A in.
Bottom Elevation: N/A ft., msl

**msl = mean sea level

8-3487-01 BLOEMEN

WCR1 Form 11/12/02 Page 2 of 4
## DRILLER'S LOG

**WELL NUMBER:** 3487-01

<table>
<thead>
<tr>
<th>Depths (ft.)</th>
<th>Rock Description, Water Level, etc.</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 10</td>
<td>Pahoehoe Lava</td>
<td></td>
</tr>
<tr>
<td>10 to 20</td>
<td>Broken Layers</td>
<td></td>
</tr>
<tr>
<td></td>
<td>of Black Rock</td>
<td></td>
</tr>
<tr>
<td>20 to 30</td>
<td>Hard Blue Rock</td>
<td></td>
</tr>
<tr>
<td>30 to 40</td>
<td>Red Cinders</td>
<td></td>
</tr>
<tr>
<td>40 to 50</td>
<td>Broken Layers</td>
<td></td>
</tr>
<tr>
<td></td>
<td>of Blue Rock</td>
<td></td>
</tr>
<tr>
<td>50 to 60</td>
<td>Broken Layers</td>
<td></td>
</tr>
<tr>
<td>60 to 70</td>
<td>Black Solid Rock</td>
<td></td>
</tr>
<tr>
<td>70 to 80</td>
<td>Black Solid Rock</td>
<td></td>
</tr>
<tr>
<td>80 to 90</td>
<td>Hard Blue Rock</td>
<td></td>
</tr>
<tr>
<td>90 to 100</td>
<td>Hard Blue Rock</td>
<td></td>
</tr>
<tr>
<td>100 to 110</td>
<td>Soft Red Cinders</td>
<td></td>
</tr>
</tbody>
</table>

### Remarks:
WELL NO: 3487-01

116' TOTAL DEPTH
100' SOLID CASING
GRavel PACK UP TO 95'
6' CASING
5 1/2' OPEN HOLE
STATIC WATER LEVEL @ 100'

GREUTED ANNULUS

WATER
MEMO and ROUTE SLIP

WCR 1 Check for Well No. 3487-01 (survey to regulation memo)

05/24/04

1. **Pump Tests Check**
   - Glenn Bauer (initial)
   - Yes No
   - If no, describe deficiency
     - Step-Drawdown Test:
       - followed WCPI Stds □ □
       - analysis attached □ □
       - proposed pump cap o.k. □
     - Aquifer Pump Test:
       - followed WCPI Stds □ □
       - T & S analysis attached □
     - Well Interference:
       - estimated Steady-State drawdown at 1-mile radius is _______ ft.
       - analysis attached □ □
     - Stream Surface Water Impacted: □ □ ← If yes, identify most probable stream
   - Geology Code for Well Index: QPI

2. **Construction Check**
   - Mitch Ohye (initial)
   - Yes No
   - If no, describe deficiency
     - data complete □ □
     - followed Special Cond & elevations □ □
     - well database updated □ □
     - Latitude NAD27 NAD83

3. Charley/Lenore/Ryan (initial) take action based on above analysis

ATTACHMENTS FOR PUMP INSTALLATION PERMIT:
- 1 COVER LETTER
- 2 PERMIT (2x)
- 3 DOH COMMENTS
- 4 LAND DIV. COMMENTS
- 5 WCR 2 FORM
- 6 WUR FORM
- 7 USGS MAP
- 8 PARCEL CHECK
- 9 DATABASE PRINTOUT
- 10 GLENN'S WORKSHEET
- 11 WELL AS-BUILT CHECK PRINT

4. Roy (initial) check
5. Subia (initial) finalize
6. Ernie (initial) signature
7. Charley/Lenore/Ryan File

not necessary – only WCP.

To be sent to applicant
June 9, 2004

Ref: 3487-01.pip

Mr. Richard Bloemen
HC3 Box 11089
Keeau, HI 96749

Dear Mr. Bloemen:

Pump Installation Permit
Bloemen Well (Well No. 3487-01)

Enclosed are two (2) originals of your approved Pump Installation Permit for the captioned well(s) that authorize permanent pump installation work for your well(s). As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 11:

**Special Conditions**

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

2. Please enclose the pump specification and rating curve for the installed pump with the Well Completion Report.

The permittee, well operator, and/or well owner are responsible for all conditions of the permit. 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.

Please sign and have the contractor sign both permit originals and return one for our files. A copy of your water use report form is enclosed for your use.

Except for the monthly water use report form, please provide copies of all the information in this packet to your pump installation contractor.

Finally, this letter is notice that we have accepted your Well Completion Report - Part I as complete.
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

Enclosure

c: RJR Services
PUMP INSTALLATION PERMIT
Bloemen Well, Well No. 3487-01

Note: This permit shall be prominently displayed at the site until the work is completed

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the pump installation for Bloemen Well (Well No. 3487-01) at HPP, Hawaii, TMK 1-5-26: 164, subject to the Hawaii Well Construction & Pump Installation Standards (February 2004) which include but are not limited to the following conditions:

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

2. The pump installation permit shall be for installation of a 30 gpm rated capacity at 120 ft. of head, or less, pump in the well.

3. The permittee, well operator, and/or well owner shall provide and maintain an approved meter or other appropriate means for measuring and reporting withdrawals and water levels, and appropriate devices or means for measuring chlorides and temperature. These data shall be measured monthly and reported to the Commission on an annual basis, on forms provided by the Chairperson (attached).

4. The proposed use 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 pump water from a well shall not constitute a determination of correlative water rights. The permittee, well operator, and/or well owner are notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

5. The permittee, well operator, and/or well owner shall complete and submit as-built drawings and Part II - (Permanent) Pump Installation Report of the Well Completion Report (attached) to the Chairperson within sixty (60) days after completion of work.

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

7. The pump installation permit application and any related staff submittal approved by the Commission are incorporated into this permit by reference. This permit is also subject to the Hawaii Well Construction & Pump Installation Standards (February 2004). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

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

9. 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.

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

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

Date of Approval: May 21, 2004
Expiration Date: May 21, 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 these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I 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: __________

Installer's Signature: ____________________________ 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.

Attachments:
- USGS
  - Department of Health/ Safe Drinking Water & Wastewater Branch
  - Hawaii Department of Water Supply
  - RJR Services
COMMISSION ON WATER RESOURCE MANAGEMENT

<table>
<thead>
<tr>
<th>FROM: ERNIE</th>
<th>DATE: FEB 10 2004</th>
<th>SUSPENSE DATE:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>TO:</th>
<th>INIT.</th>
<th>TO:</th>
<th>INIT:</th>
<th>FOR:</th>
<th>PLEASE:</th>
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</thead>
<tbody>
<tr>
<td>ANAKALEA, P.</td>
<td></td>
<td>LAU, E.</td>
<td></td>
<td>Approval</td>
<td>___ See Me</td>
</tr>
<tr>
<td>BAUER, G.</td>
<td></td>
<td>MATHIAS, T.</td>
<td></td>
<td>Signature</td>
<td>___ Review &amp; Comment</td>
</tr>
<tr>
<td>CHING, F.</td>
<td></td>
<td>NAKAMA, L.</td>
<td></td>
<td>Information</td>
<td>___ Take Action</td>
</tr>
<tr>
<td>DANBARA, S.</td>
<td></td>
<td>NAKANO, D.</td>
<td></td>
<td></td>
<td>___ Type Draft</td>
</tr>
<tr>
<td>FUJII, N.</td>
<td></td>
<td>OHYE, M.</td>
<td></td>
<td></td>
<td>___ Type Final</td>
</tr>
<tr>
<td>GOODING, K.</td>
<td></td>
<td>SAKODA, E.</td>
<td></td>
<td></td>
<td>___ File</td>
</tr>
<tr>
<td>HARDY, R.</td>
<td></td>
<td>SUBIA, S.</td>
<td></td>
<td></td>
<td>___ Xerox ___ copies</td>
</tr>
<tr>
<td>HIGA, D.</td>
<td></td>
<td>SWANSON, S.</td>
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</tr>
<tr>
<td>ICE, C.</td>
<td></td>
<td>UYENO, D.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>IMATA, R.</td>
<td></td>
<td>YODA, K.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KUNIMURA, I.</td>
<td></td>
<td>YOSHINAGA, M.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

O.K. do do.
Ryan,

Enclosed you'll find the signed well construction permit for the Bloomer well (#3487-01) - drilling will begin in the next few weeks.

Mr. Bloomer plans to install a 4/5 g.p.m. (<max.>) pump for private, individual needs. Therefore, we request to install the permanent pump prior to issuance of the pump installation permit. As per DEC-ADM 48-657, as a step down test is not required for <90 g.p.m. and a constant rate test is not required for <50 g.p.m. Please advise as to what you'll need besides the well completion report.

For the permit to install the pump,

Thanks,

Bob
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 Bloomen Well (Well No. 3487-01) at HPP, Hawaii, TMK 1-5-26: 164, 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 observe all construction 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 1/2-inch diameter monitor well 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:
   - Elevation (referenced to mean sea level, msl) survey by a Hawaii-licensed surveyor.
   - As-built sectional drawing of the well.
   - Plot plan and map showing the exact location of the well.
   - 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, 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: January 9, 2004
Expiration Date: January 9, 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 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: [Signature]
Date: [Date]
Printed Name: [Name]
Driller's Signature: [Signature]
C-57 License #: [License#]
Date: [Date]
Printed Name: [Name]
Firm or Title: [Title]

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

Attachment
C: USGS
Department of Health's Safe Drinking Water, Wastewater, and Clean Water Branches
Hawaii Department of Water Supply
RJR Services
COMMISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR PERMIT ISSUANCE

FROM: RYAN
DATE: ____________ SUSPENSE DATE: ____________

<table>
<thead>
<tr>
<th>TO:</th>
<th>INIT.</th>
<th>TO:</th>
<th>INIT.</th>
<th>FOR:</th>
<th>PLEASE:</th>
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<tr>
<td>ANAKALEA, P.</td>
<td></td>
<td>LAU, E.</td>
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<td>3 Approval</td>
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<td>BAUER, G.</td>
<td></td>
<td>MATHIAS, T.</td>
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<td>UYENO, D.</td>
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<tr>
<td>KUNIMURA, I.</td>
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<td>YODA, K.</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>YOSHINAGA, M.</td>
<td></td>
<td></td>
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</tr>
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</table>

WELL NUMBER: 3481-01
WELL NAME: Bloeman well

☐ WELL CONSTRUCTION

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

TO BE SENT TO APPLICANT

☐ PUMP INSTALLATION

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

1 GLENN'S WORKSHEET

FOR OFFICE USE ONLY
January 20, 2004

Ref: 3487-01.wcp

Mr. Richard Vander Bloeman
HC3 Box 11089
Keeau, HI 96749

Dear Mr. Vander Bloeman:

Well Construction Permit
Bloeman Well (Well No. 3487-01)

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.

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 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

c: RJR Services
WELL CONSTRUCTION PERMIT
Bloeman Well, Well No. 3487-01

Note: This permit shall be prominently displayed at the site until the work is completed

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the construction and testing of Bloeman Well (Well No. 3487-01) at HPP, Hawaii, TMK 1-5-26: 164, 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 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 pumping test 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 (referred 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 rules, regulations 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, 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: January 9, 2004
Expiration Date: January 9, 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 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: _________________________ 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
C
USGS
Department of Health's Safe Drinking Water, Wastewater, and Clean Water Branches
Hawaii Department of Water Supply
RJR Services

W. Ray Funk
Chairperson
Commission on Water Resource Management

PETER T. YOUNG, Chairperson
Commission on Water Resource Management
Well No. 3487-01
Well Name Bloeman
Applicant 0

**SECTION 1: WELL LOCATION INFORMATION**

<table>
<thead>
<tr>
<th>Island</th>
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</thead>
<tbody>
<tr>
<td>Aquifer System</td>
<td>######</td>
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<tr>
<td>Aquifer Sector</td>
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</table>

**Proposed Use**

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<thead>
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<tbody>
<tr>
<td>Proposed Withdrawal</td>
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<tr>
<td>System Sustainable Yield</td>
<td>#VALUE!</td>
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**SECTION 2: WELL SECTION DATA** *(enter data in grey cells only)*

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<thead>
<tr>
<th>Elevation at top of casing</th>
<th>132 ft., m.s.l.</th>
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<tbody>
<tr>
<td>Ground Elevation</td>
<td>130 ft., m.s.l.</td>
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<tr>
<td>Cement Grout</td>
<td>120 ft.</td>
</tr>
<tr>
<td>Rock Packing</td>
<td>20 ft.</td>
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<tr>
<td>Hole Diameter</td>
<td>18.5 in.</td>
</tr>
<tr>
<td>Total Depth</td>
<td>140 ft.</td>
</tr>
</tbody>
</table>

| Estimated Head            | 1 ft., m.s.l.  |
| Calculated Aquifer Thickness | 41 ft. |
| County Water Supply (Y/N ?) | NO |

**Solid Casing**

<table>
<thead>
<tr>
<th>Material</th>
<th>Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Designation</td>
<td>ASTM A53</td>
</tr>
</tbody>
</table>

| Diameter | 6 in. |
| Wall Thickness | 0.28 in. |

**Casing**

<table>
<thead>
<tr>
<th>Material</th>
<th>Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Designation</td>
<td>ASTM A53</td>
</tr>
</tbody>
</table>

| Length | 10 ft. |
| Diameter | 6 in. |
| Wall Thickness | 0.28 in. |
| Openings | 0 sq.in./l.f. |

| Open Hole |
| Length | 0 ft. |
| Diameter | 0 in. |

**SECTION 3: CHECKLIST** *(values to check are shaded)*

**Well Depth**

| Theoretical Thickness of Aquifer | 41 ft. |
| 1/4 Aquifer Thickness | 10.25 ft. |
| Depth of Well below Sea Level | 10 ft. |

**Well Casing**

| Minimum Wall Thickness |
| Material |
| County or Non-County | Steel |
| Minimum Thickness per standards | #N/A in. |
| Well Thickness Provided | 0.280 in. |
| Minimum Length of Solid Casing | #N/A |
| 90% of ground to top of aquifer | 116.1 ft. |
| Length of solid casing Provided | 130 ft. |

**Annular Space**

| Material |
| Casing |
| ASTM A53 |

| Depth of Grouting |
| Calculated Depth of Grouting | 90.3 ft. |
| Depth of Grouting provided | 120 ft. |
| Thickness of Annular Space | 6.25 in. |

Okay (refer to HWCPIS Section 2.2)

Okay (refer to HWCPIS Section 2.4 c)

Okay (refer to HWCPIS Section 2.4 d)

Okay (refer to HWCPIS Section 2.4 e)

Okay (refer to HWCPIS Section 2.6 c)

Okay (refer to HWCPIS Section 2.6 d)
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
   ______ X e. other: No known historic sites; please contact SHPD should lava tubes be
     encountered during drilling of 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

Date 1-7-04
To: Ryan Imata  
Commission On Water Resource Management  
Department of Land and Natural Resources  

Via Fax No. (808) 587-0219  

From: Edward Chen  
Clean Water Branch  

Subject: Well Construction/Pump Installation Permit Application  
Bloeman Well (Well No. 3487-01)  

Date: December 30, 2003  

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 wastewater, and well purge wastewater. 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 (808) 586-4352.  

2. For Well Pump Testing  

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

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 621
HONOLULU, HAWAII 96819

December 11, 2003

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

SUBJECT: Well Construction/Pump Installation Permit Application
Bloemen Well (Well No. 3487-01)

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

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

1. This well qualifies 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.

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 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.

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 preventors by physically separating potable and non-potable systems by an air gap or an approved backflow preventor, 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.

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

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

6. An NPDES permit is required.

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

8. No comments/objections

Contact Person: ____________________________ Phone: ________________

Signed: ____________________________ Date: ________________
STATE MESSENGER DELIVERY

Date: 12-24-2003

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

Attn: Ryan Jinata

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. 3407-08 Shirley Well
Well No. 3407-01 Bloemen Well

Please find enclosed the application of the above subject project.
Facsimile Request and Cover Sheet
Wastewater Branch
919 Ala Moana Blvd. Room 309
Honolulu, Hawaii 96814-4920
(808) 586-4294 Fax (808) 586-4300

Date: 12/22
To: La Verne Hayamoto
Hawaii District Health Office (Hilo)
Ph (808) 933-0401 Fax (808) 933-0400

From: Lori Kajiwara, Planning/Design Section
Email: ikajiwara@oha.health.state.hi.us

Subject: Request for Information

Do you have any IWS files or records on or nearby the following well site: W/In 1000.
(3) L-5-26: [ ] Richard Vander Bloemen
HCB BOX 11089
Kona, HI

Please check all that apply:
[ ] sewered [ ] no record [ ] cesspool [ ] septic tank [ ] aerobic unit

File # if applicable: _______ # of Bedrooms _______
Record Date: ____________________________
Submit Date: ____________________________
Plan Approval Date: ______________________
Inspection Date: 10-10-91
System "Approval for Use" Date: ______________________

Other: ____________________________

Please fax site/plot plan if available. Thank you.
DEPARTMENT OF HEALTH
STATE OF HAWAII
75 AUPUNI ST.
HILO, HI 96720
PHONE: 961-7371

Cesspool Specifications:

"A" Diameter: 6'
"B" Depth: 10'
"C" Depth, below finished grade to cover: 1'
"D" Depth to Groundwater: N/A
"E" Type Retaining Wall: N/A

Finished grade

X-SECTION

Cover Specifications

Thickness: 6"
Diameter: 14 x 16
Rebars: #4
Spacing: 12"
December 11, 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: Well Construction/Pump Installation Permit Application
Bloemen Well (Well No. 3487-01)

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

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

[ ] 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.

X 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: Loni N. Kajiwara
Phone: 986-4294
Signed: Loni N. Kajiwara
Date: 12-24-2003
December 11, 2003

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  
Bloemen Well (Well No. 3487-01)

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

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by January 23, 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 occurred prior to Statehood.

Contact Person: Gary Martin  
Phone: 587-0421

Signed: Gary Martin  
Date: DEC 23 2003
TO: Honorable Chiyoue 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
Bloomen Well (Well No. 3487-01)

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

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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 at 587-0255.

R:ss
Attachment(s)

RESPONSE:

[1] This well qualifies as a source which will serve as a source of potable water to a public water system (defined as serving 25 or more people at least 60 days per year or more than 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, §§11-20.29.

[1] This well does not qualify as a source serving a public water system (serves less than 25 people or fewer 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 well from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

[1] If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate all 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.

[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.

[1] An NPDES permit is required.

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

No comments/objections

Contact Person: Dr. Keith Kawaoka
Phone: 586-4249

Signed: ___________________________ Date: DEC 19 2003

Fax to: Commission on Water Resources Mkt. 587-0219
December 11, 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 Kawaoke, Hazardous Evaluation and Emergency Response
   Aloc Wong, Clean Water Branch

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

SUBJECT: Well Construction/Pump Installation Permit Application
   Bloomen Well (Well No. 3487-01)

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

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

R:ss
Attachment(s)

RESPONSE:

[ ] This well qualifies as a source which will serve as a source of potable water to a public water system (defined as serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR) Title 11, Chapter 50, Rules Relating to Potable Water Systems, §11-20-28.

[ ] 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 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 prevention, 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[ ] 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: 586-4258

Signed: Bill Wong
   Date: DEC 17 2003
December 11, 2003

Mr. Richard Vander Sioemen
HC 3 Box 11089
Keeau, HI 96749

Dear Mr. Vander Sioemen:

Well Construction/Pump Installation Permit Application for Well No. 3487-01

We acknowledge receipt, on December 5, 2003, of your completed Well Construction/Pump Installation permit application and filing fee for the Sioemen Well (Well No. 3487-01). You can expect your application to be processed within ninety (90) days from this date.

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,

ERNEST Y.W. LAU
Deputy Director

RI:ss

c: Bob Richardson
December 11, 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: Well Construction/Pump Installation Permit Application
Bloemen Well (Well No. 3487-01)

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

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

[ ] 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 [] 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: ___________
December 11, 2003

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
Bloemen Well (Well No. 3487-01)

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

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by January 23, 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: ______________
December 11, 2003

TO: Holly McElidowney, Acting Administrator
    Historic Preservation

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

SUBJECT: Well Construction/Pump Installation Permit Application
         Bloemen Well (Well No. 3487-01)

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

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by January 23, 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.

RE: 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: ______________
<table>
<thead>
<tr>
<th>Approved Well No.</th>
<th>Well Name</th>
<th>Applicant</th>
<th>Driller</th>
<th>Type</th>
<th>Well Construction</th>
<th>Pump Installation</th>
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<tr>
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<td>Hawaiian Paradis</td>
<td>Walter Moe</td>
<td>C-17301</td>
<td>WELL</td>
<td>10/11/1999</td>
<td>10/20/1999</td>
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</table>
LICENSE SCREEN

Please click a link listed below to display the other screen.

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

LIC ID: CT-17301  
NAME: ROBERT J RICHARDSON

TRADE NAME: RJR SERVICES

STATUS: CURRENT, VALID & IN GOOD STANDING/MAINT. REQUIREMENT DUE

ENTITY: INDIVIDUAL  
BUSINESS CODE: SOLE OWNER

ORIG LIC DATE: 2/10/92  
EXPIRE DATE: 9/30/04

CLASS PREFIX: C  
SPECIAL PRIVILEGE:

RESTRICTION: EDUCATION CODE:

BUSINESS ADDR: 74-5066 KUMAKANI ST  KAILUA KONA HI 96740

MAILING ADDR: P O BOX 390804  KEAOUHI HI 96739

Click here to enter search criteria for prior complaints history ->

For prior complaints and disciplinary history, contact licensing and business information center at (808)587-3295.

<-Back  New Search->

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Hawaii State homepage  || DCCA  || Professional and Vocational Licensing Division
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<th>Subdiv/Condo</th>
<th>Property</th>
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<th>Baths</th>
<th>Land area</th>
<th>Living area</th>
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<td>F 15-1907 13 AVE VANDER</td>
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<td>1.00 ac</td>
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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.
COMMISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR NEW APPLICATIONS

FROM: RYAN  DATE: 18-Nov-03  SUSPENSE DATE: 25-Nov-03

TO: BAUER, G. INIT TO: NAKAMA, L. INIT FOR: Approval
CHING, F. HARDY, R. NISHIOKA, L.
FUJI, N. HIRA, D.
HAROLD, E. ICE, C.
HIGA, D. HIRANO, E.
HIGA, D. HIRANO, E.
HIGA, D. HIRANO, E.
IMATA, R. 5 IMATA, R.
KUNIMURA, I.
KUNIMURA, I.

WELL NUMBER 2487-01  WELL NAME Bloemen

WELL CONSTRUCTION  PUMP INSTALLATION  BOTH

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

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

INCOMPLETE ACTION DATES:

DATE ACTION
12/5/03 TMK map missing

PLEASE:
1 Review & Comment
2 Take Action
3 Approval
4 Signature
5 Type Draft acknow letter
6 Type Final, label new file folder
7 File
8 Xerox copies

See Me
Review & Comment
Take Action
Approval
Signature
Type Draft acknow letter
Type Final, label new file folder
File
Xerox copies
WATER RESOURCE MANAGEMENT

APPLICANT INFORMATION: (Fill out all three, if applicable, and place a check next to the primary applicanl)
1. (a) □ WELL OWNER: [Signature]
   Contact Person: [Name]
   Mailing Address: [Address]
   Phone: [Number]
   Fax: [Number]
   Email: [Email]

2. [Signature]
   Contact Person: [Name]
   Mailing Address: [Address]
   Phone: [Number]
   Fax: [Number]
   Email: [Email]

3. [Signature]
   Contact Person: [Name]
   Mailing Address: [Address]
   Phone: [Number]
   Fax: [Number]
   Email: [Email]

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

2. WELL NAME: [Name]
   Island: [Island]
   Address: [Address]
   Tax Map Key: [Key]
   Zone: [Zone] Sec.: [Sec.] Lot: [Lot] Parcel: [Parcel]

3. Proposed Work: [Check all that apply]
   - [Yes] □ New Well
   - [Yes] □ Install New Pump
   - [Yes] □ Modify Existing Well
   - [Yes] □ Modify Pump
   - [Yes] □ Abandon/Seal

4. Construction: [Check all that apply]
   - [□] Drilled
   - [□] Dug
   - [□] Shaft
   - [□] Tunnel

5. Proposed Pumping Rate: [Number] gallons per minute

6. Proposed Use: [Check all that apply]
   - [□] Municipal (Including hotels, stores, etc.)
   - [□] Industrial
   - [□] Domestic (Individual, noncommercial water system)
   - [□] Irrigation ( corp.)
   - [□] Ornamental
   - [□] Military
   - [□] Other (explain): [Description]

7. (a) Proposed Amount of Withdrawal: [Number] gallons per day

(b) Method of Flow Measurement: [Check all that apply]
   - [□] Flow meter
   - [□] Open pipe
   - [□] Weir
   - [□] Office
   - [□] Other (explain): [Description]

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 567-0414
   - [□] Not Required
   - [□] Required, date approved

   Environmental Impact Statement (EIS) or Environmental Assessment (EA) To determine if an EIS or EA is necessary, call OECG at 566-4185
   - [□] Not Required
   - [□] Required, date published in OECG bulletin

   Special Management Area Permit (SMAP) To determine if an SMAP is necessary: on Oahu, call 527-6374; on Hawaii, call 961-8288; for Maui county, call 270-7235; on Kauai, call 241-6577.
   - [□] Not Required
   - [□] Required, date approved

9. Remarks, Explanations: [Description]

Note: Signing below indicates the signatures understand and swear that the information provided on this application is accurate and true to the best of their knowledge. Further, the signatures understand that approval of this application attaches the following 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 permit work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of cumulative water rights and shall not guarantee the pump capacity or future use up to the permit pump capacity; 5) in the event that the application is not completed correctly, any permit may be suspended until the item is brought into compliance, and any work done while the permit is in suspension may result in fines of up to $1000/day.

Well Owner: [Name]
Landowner: [Name]
Signature: [Signature]
Date: [Date]

For official use only
Latitude: [Number]
Longitude: [Number]
Aquifer System No.: [Number]
State Well No.: [Number]
10. PROPOSED WELL SECTION (Please attach schematic if different from diagram provided below)

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
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<tr>
<td>Cement Grout</td>
<td>130 ft (min. 70% of distance from ground elevation to top of water surface or 500 ft, whichever is less)</td>
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<tr>
<td>Total Depth</td>
<td>140 ft</td>
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<tr>
<td>Elevation at top of casing</td>
<td>132, ft</td>
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<tr>
<td>Rock or Gravel Packing</td>
<td>20 ft</td>
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<tr>
<td>Solid Casing</td>
<td>(2.90% x (Ground Elevation - Water Level Elevation))</td>
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<td>Total Length</td>
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<td>Wall Thickness</td>
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<td>Open Casing</td>
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<td>Total Length</td>
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<tr>
<td>Diameter</td>
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<tr>
<td>Bottom Elevation</td>
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</table>

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

For non-salt water Basal Wells - bottom elevation of well shall not be deeper than 1/4 of aquifer thickness or,

Bottom Elevation of Well Limit = (Water Elevation - 41.2 ft) / 4

Example: Estimated + 2 ft. Water Level Elev. → Bottom Elevation of Well Limit = (2 + 41.2 ft) / 4 = -18.5 ft.

**Solid Casing Material:**
- Carbon Steel: compliant with (check one or more): ANSI AWWA C200, API Spec. 5L, ASTM A53, ASTM A139
- Stainless Steel: compliant with (check one or more): ASTM A242, Type E, Type S, Grade B, Other
- ABB Plastic conforming to ASTM F480 and ASTM D1937: (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 D2995, Centrifugally Cast Resin Pipe conforming to ASTM D2297, Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517, Glass Fiber Reinforced Resin Pressure 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, ASTM A139
- Stainless Steel: compliant with (check one or more): ASTM A242, Type E, Type S, Grade B, Other
- ABB Plastic conforming to ASTM F480 and ASTM D1937: (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 D2995, Centrifugally Cast Resin Pipe conforming to ASTM D2297, Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517, Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C960, PTFE Fluorocarbon Tubing conforming to ASTM D3296, FEP Fluorocarbon Tubing conforming to ASTM D3296
11/11/03

Ryan —

Permit application for A
Aquaculture Life well — would
really like to get the pump
installation permit too.
Please let me know — Yes
in a hurry so what ever you
can do will be appreciated —

Also — Still waiting to hear
from you on the pump permit for
Creek Coged #1 — Should I file
a permit application & it’s an
identical assembly to well #1 —

Please give me a call —

Thank —

Bob
**Department of Land and Natural Resources**

**UAC or Attached Worksheet**

**Date:** 11/15/03

<table>
<thead>
<tr>
<th>F. YR</th>
<th>APP D</th>
<th>SRC OBJ</th>
<th>COST</th>
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**Total:** $50.00

**Remarks:**

- LINE (1) Hamilton Residence Well, tmk 2-8-03:0021
- LINE (2) Richard Vander Bloemen Well, tmk: 1-5-26:164
- LINE (3)                   
- LINE (4)                   
- LINE (5)                   
- LINE (6)                   
- LINE (7)                   
- LINE (8)                   
- LINE (9)                   
- LINE (10)                  

**Document No.:**

**SRC/Cost FYR App D Obj Cost Project PH ACT Amount Name/Description (WANG Input)**

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**Total:** $50.00

**Remarks:**

- LINE (1) Hamilton Residence Well, tmk 2-8-03:0021
- LINE (2) Richard Vander Bloemen Well, tmk: 1-5-26:164
- LINE (3)                   
- LINE (4)                   
- LINE (5)                   
- LINE (6)                   
- LINE (7)                   
- LINE (8)                   
- LINE (9)                   
- LINE (10)                  

**Document No.:**
Ryan —

Here's the T.I.M.E. map & A Blow up For the #6 & #8 Bloomer well — Please let me know if it doesn't come over legibly & I'll mail it —

Also... I have the pump installation permit application & Chim. Ready — The Oklahoma back up well should be completed soon — Can we address the permit app. prior to the well completion report & if so if the identical well to #9 but will be a little deeper — Please let me know —

Thank

Boo

Ph. 640-2592