Papa'ula-Golting Well (5425-03)

Golting 5425-03 (Mr)
Call for survey
(803) 750 0800 x 303

PROJECT AREA

Exhibit 1
Mr. Eric J. Golting

Dear Mr. Golting:

Well Completion Report for Well No. 5425-03

We received your Well Completion Report Part II for the Papaula-Golting (Well No. 5425-03) on December 24, 2002 and acknowledge that it is complete. This completes the permitting process for this well.

If you have any questions, please contact Charley Ice of the Commission staff at 587-0251.

Sincerely,

[Signature]

DEAN A. NAKANO
Acting Deputy Director

Cl: ss

c: Wailani Drilling, Inc.
1. **Pump Tests Check (special condition of PIP? Yes/No)** Glenn Bauer (initial if yes) 
   - 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

2. **Pump Installation Check** Mitch Ohye (initial) 
   - Yes  No  
   - If no, describe deficiency
   
   - data complete
   - followed WCPI Stds
   - well database updated

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

4. Roy (initial) check

5. Subia (initial) finalize

6. Dean (initial) signature

7. Charley/Lenore/Ryan File
Return Receipt Fax Memo

Charley,

Enclosed are the following items:

- “Loose ends” check list with responses.
- Revised Lat. & Long. on Survey for Huelo-Jones Well (No.5413-12)
- Revised Lat. & Long. on Survey for Uaoa-Grossman Well (No.5616-08)
- Signed Pump Installation Permit for Papaula-Golting Well (No.5425-03)
- Well Completion Report Part II for Papaula-Golting Well (No.5425-03)
- Pump Rating Curve for Papaula-Golting Well (No.5425-03)
- Signed Well Construction Permit for Namale-Castellini Well (No.5514-08)
- Start Work Notice for Namale-Castellini Well (No.5514-08)
- Signed Well Construction Permit for Honokala-McKinney Well (No.5514-09)
- Start Work Notice for Honokala-McKinney Well (No.5514-09)

Please confirm receipt by checking off the enclosed items and faxing a copy of this memo to me at 808/572-0925. Thank you.

Sincerely,

Mike Robertson
Ph. 808/572-2673
Fax 572-0925 Cellular 264 7079
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

WELL COMPLETION REPORT - PART II
Pump Installation

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.state.hi.us/dlnr/cwrm/

1. State Well No.: 5425-03
   Well Name: Papaula-Golting
   Island: Maui

2. Address: 594 Stable Road
   Tax Map Key: 3-8-2:25

3. Pump Installation Company: Wailani Drillig

4. Date Pump Installed: 8/22/00

5. PERMANENT PUMP INFORMATION

   Pump Type, Make, Serial No.: 75830-5 A0711005-P10010VS
   Rated Capacity: 50 gpm at head of: 140 ft.
   Motor Type, H.P., Voltage, rpm: NDL2243025202 - 3 HP - 240V 3450 RPM
   Type of flow meter: Turbine which measures in gallons
   Model Number MM15 Serial Number

   Pump type (check one):
   - Deep Well Turbine
   - Submersible 3 HP
   - Centrifugal
   - Rotary
   - Rotary-Displacement
   - Propeller
   - Reciprocating
   - Rotary-Gear
   - Impulse

6. Method of flow measurement:
   - Flowmeter
   - Manufacturer Master Make MM15 Size 1.5”
   - Weir
   - Open Pipe
   - Orifice
   - Other*, explain below
   *attach schematic

7. Fill in the as-built section on the other side of this sheet.

8. Attach photograph of well and concrete pad clearly showing benchmark on concrete pad.

9. Other remarks/comments:

   

Pump Installation Contractor (print) Michael Roberts (C-57a/A Lic. No. 2015)
Signature Michael Roberts Date 12/18/02

Permittee (print) Bank of Hawaii Financial Plaza LLC
Signature Eric J. Golting Date 12/18/02

WCR2 Form 11/12/02 Page 2 of 2
9. AS-BUILT SECTION (Please attach as-built if different from diagram provided below)

Bench mark elevation surveyed to nearest 0.01 ft. = 6.05 ft. mean sea level

Elevation of top of chase tube = 7.08 ft. mean sea level

Pump intake depth = \( \frac{22}{1} \) ft. (referenced to bench mark)

Chase tube depth = \( \frac{22}{1} \) ft. (referenced to bench mark)

If airline installed, bottom of airline elevation = \( \frac{NA}{1} \) ft. mean sea level
Performance Curves 75 GPM Model 75S

FLOW RANGE: 45 - 95 GPM OUTLET SIZE: 2" NPT NOMINAL DIA.: 4"

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
4" MOTOR STANDARD, 2-10 Hp 3450 RPM.
* Also available with 6" motor, performance is the same only at Best Efficiency point.
Consult factory for actual performance.

Performance conforms to ISO 9906 Anne @ 5 ft. min. submergence.
Mr. Eric J. Golting

Dear Mr. Golting:

Pump Installation Permit
Papaula-Golting (Well No. 5425-03)

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 - Parts I & II as complete.

If you have any questions, please call Charley Ice of the Commission staff at 587-0251 or toll-free at 984-2400 extension 70251.

Aloha,

GILBERT S. COLOMA-AGARAN
Chairperson

Enclosure

c: Wailani Drilling, Inc.
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 Papaula-Golting (Well No. 5425-03) at 594 Stable Road, Maui, TMK 3-8-2:25, 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 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 50 gpm rated capacity at 30 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 (1/23/97). 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 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.

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: October 30, 2002
Expiration Date: October 30, 2004
GILBERT S. COLOMA-AGARAN, Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I 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: ___________________________ C-57, C-57a, or A 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.

Attachments:
USGS
Department of Health, Safe Drinking Water & Wastewater Branch
Maui Department of Water Supply
Wailani Drilling, Inc.

Drilling, Inc.
PUMP INSTALLATION PERMIT
Papaula-Golting, Well No. 5425-03

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 Papaula-Golting (Well No. 5425-03) at 594 Stable Road, Maui, TMK 3-8-2-25, subject to Hawaii Well Construction & Pump Installation Standards (1/23/97) 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 observe installation activities in accordance with §13-168-15, Hawaii Administrative Rules.

2. The pump installation permit shall be for installation of a 50 gpm rated capacity at 30 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 (1/23/97). If the HWCPS 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.

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Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I 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]
Permittee's Firm or Title: [Firm or Title]
Date: 12/18/02

Installer's Signature: [Signature]
Installer's Firm or Title: [Firm or Title]
Date: 12/18/02

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
  Maui Department of Water Supply
  Waianan Drilling, Inc.
COMMISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR PERMIT ISSUANCE

FROM: CHARLEY DATE: 18 Nov 02 SUSPENSE DATE: 

TO: INIT. TO: INIT. FOR: PLEASE:

BAUER, G. KUNIMURA, I. 3 Approval See Me
CHING, F. MATHIAS, T. 3 Signature
DANBARA, S. NAKAMA, L. 4 Information
FUJII, N. NAKANO, D. 
GOODING, K. NISHIOKA, L. 
HARDY, R. SAKODA, E. 
HIGA, D. OHYE, M. 
HIRANO, E. SUBIA, S. 
ICE, C. SWANSON, S. 
IMATA, R. UYENO, D. 
JINNAI, R. YODA, K. 

WELL NUMBER 5425-03 WELL NAME Papaula Golting

☐ 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

TO BE SENT TO APPLICANT

FOR OFFICE USE ONLY

☐ 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

TO BE SENT TO APPLICANT

FOR OFFICE USE ONLY
1. **Pump Tests Check**
   - Glenn Bauer (initial)
   - Step-Drawdown Test:
     - followed WCPI Stds
     - analysis attached
     - proposed pump cap o.k.
   - Yes No
   - If no, describe deficiency

2. **Construction Check**
   - Mitch Ohye (initial)
   - Yes No
   - data complete
   - followed WCPI Stds
   - well database updated

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

4. Roy (initial) check

5. Susan Subia (initial) finalize

6. Linnel (initial) signature

7. Charley/Lenore/Ryan File
Charley, enclosed are the following items:

* Hardcopy of previously faxed paperwork for Nahiku Betsill Well
  ✔ Signed Well Completion Report Part 1 for Nahiku Betsill Well
  ✔ Step Test and constant rate test results for Nahiku Betsill Well
  ✔ Elevation certificate from surveyor for Nahiku Betsill Well
  ✔ Drillers log for Nahiku Betsill Well
  ✔ Letter of request for Nahiku Betsill Well

* Hardcopy of previously faxed paperwork for Kea Lani Irrigation Well
  ✔ Signed Well Completion Report Part 1 for Kea Lani Irrigation Well
  ✔ Step Test and constant rate test results for Kea Lani Irrigation Well
  ✔ Elevation certificate from surveyor for Kea Lani Irrigation Well
  ✔ Drillers log for Kea Lani Irrigation Well
  ✔ Elevation certificate from surveyor for Eric Golting

* Resubmitting Corrected:
  ✔ Well Completion Report Part I for Eric Golting

  ✔ Signed Well Completion Report Part 1 for Kea ele ku-Smith
  ✔ Constant rate test results for Kea ele ku-Smith
  ✔ Elevation certificate from surveyor for Kea ele ku-Smith
  ✔ Driller’s log for Kea ele ku-Smith

  ✔ Signed Well Completion Report Part I for Spreckelsville-Wark
  ✔ Constant rate test results for Spreckelsville-Wark
  ✔ Elevation certificate from surveyor for Spreckelsville-Wark
  ✔ Driller’s log for Spreckelsville-Wark

  ✔ Signed Pump Installation Permit for Honopou-Bathelt
  ✔ Signed Well Completion Report Part II for Honopou-Bathelt

Please confirm receipt by checking off the enclosed items and faxing a copy of this memo to me at 808-572-0925. Thank you.

Sincerely,

Ann Robertson
1. State Well No.: 5428-03  
   Well Name: Papaula-Getting  
   Island: Maui
2. Address: 544 Old Stable Road  
   Tax Map Key: 3-8-02-25
3. Drilling Company: Wallani Drilling
4. If drilled, type of Rig:  
   - Rotary  
   - Percussion
5. Date Well Construction (drilled, cased, grouted) completed: 3/24/00  
   Attach Driller's Log (W/4. E. Rule) Form
6. Initial water-level encountered: 48 ft. below ground  
   Date and time of measurement: 3/22/00 8:00
7. Step-Drawdown Test completed?  
   - Yes  
   - No
   Attach Step-Drawdown Test form (12/7/77 SWPD Form)
8. Constant Rate Aquifer Test completed?  
   - Yes  
   - No
   Attach Constant Rate Aquifer Test form (12/13/77 CRPD Form)
9. Water-level: 1.33 ft. above msl  
   Date and time of measurement: 3/22/00
10. Chloride: 360 ppm  
    Date and time of sampling: 3/22/00
11. Temperature: 70° F  
    Date and time of measurement: 3/22/00
12. Fill in the as-built section on the other side of this sheet.
13. Attach plot plan and surveyor's stamped elevation report.
14. 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.)
15. Remarks: 
   -

---

Licensed Driller (print): Mike Ederen  
C-57 Lic. No. 220115
Signature: [Signature]  
Date: 3/14/00

Surveyor (print): [Surveyor name]  
L.P.L.S. Lic. No. [License number]  
[Survey attached]
Signature: [Signature]  
Date: [Date]

Permittee (print): [Permittee name]  
Signature: [Signature]  
Date: 3/14/00
13. AS-BUILT WELL SECTION

(Please attach as-built if different from diagram provided below)

Elevation at top of casing: 7.0 ft., msl

Hole Diameter: 13.35 in.

Minimum of 2' Radius & 4' Thick Concrete Pad

Ground Elevation: 5.58 ft., msl

Solid Casing Material: (≥ 90% x (Ground Elev.-Water Level Elev))

Length: 50 ft.
Nominal Diameter: _____ in.
Wall Thickness: _____ in.
Bottom Elevation: -44.25 ft., msl

Open Casing: □ Perforated □ Screen
Length: 0 ft. (N/A)
Nominal Diameter: _____ in.
Wall Thickness: _____ in.
Bottom Elevation: _____ ft., msl

Open Hole:
Length: 7 ft.
Diameter: 6.25 in.
Bottom Elevation: -51.25 ft., msl

*msl = mean sea level

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

Open Casing Material: (N/A)
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
October 17, 2002

Mr. Charley Ice  
State Commission on Water Resource Management  
P.O. Box 621  
Honolulu, Hawaii 96813  

Subject: Existing Well on TMK (2) 3-8-2:25  
Spreckelsville, Maui, Hawaii  

Dear Mr. Ice,  

This is to inform you that based on our field survey conducted on September 19, 2002, we have determined that the elevation of the top of the well casing based on mean sea level datum is 7.08 feet.  

If you have any questions or concerns, please feel free to contact us.  

Very truly yours,  

Reed M. Ariyoshi  
Licensed Professional Land Surveyor  
Certificate Number 6597  

cc: Eric Golting  
Ann Robertson
FAX: Transmitting 3 pages, including this one; call 587-0251 with any reception problems.

TO: Reid Ariyoshi  Date: 08 Oct 02
FROM: Charley Ice

Transmitting surveyor form (p.4 of Well Completion Report Part 1) and plot of Golting's property for locating well.

Mahalo.
July 18, 2002

Mr. Eric J. Golting

Dear Mr. Golting:

Elevation Survey Requirement
Papaula-Golting Well (Well No. 5425-03)

In a letter dated March 6, 2001, we noted the Commission’s deferral of action on the lack of a wellhead elevation survey for the captioned well. Over a year has elapsed since that time, with no apparent action to resolve this matter. Staff has learned that surveyors use a variety of benchmarks, and that each maintains proprietary benchmarks for their own use. Staff is aware that others in this vicinity have been able to complete this requirement, and consultants feel certain that options are available. Staff is prepared to return to the Commission to resolve this matter.

Please respond within 30 days as to your progress in locating a surveyor who can perform this work for you, and why we should not recommend that the Commission order fines or well closure. Be aware that fines are potentially up to $1000 per day.

If you have any questions, please contact Charley Ice of the Water Commission staff at (808) 587-0251.

Sincerely,

LInNEL T. NISHIOKA
Deputy Director

Cl:ss
<table>
<thead>
<tr>
<th>FROM: Charley</th>
<th>DATE:</th>
<th>SUSPENSE DATE:</th>
</tr>
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<tbody>
<tr>
<td>TO:</td>
<td>INIT.</td>
<td>TO:</td>
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<tr>
<td>BAUER, G.</td>
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<td>HARDY, R.</td>
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<td>FUJII, N.</td>
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<td>HIRANO, E.</td>
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<td>OHYE, M.</td>
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<td>JINNAI, R.</td>
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<td>YODA, K.</td>
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Gill 5425-03. 14

If this is for Kathy
PLOT PLAN
(Provide Latitude and Longitude of well referenced to NAD27 to nearest second)
March 6, 2001

Eric J. Golting

Dear Mr. Golting:

Request for Exemption from Elevation Survey Requirement
Papaula-Golting Well (Well No. 5425-03)

At its February 28, 2001 meeting, the Commission deferred action on your request, requesting staff to further explore alternative benchmark sites to conduct an elevation survey for your well.

We are in the process of inquiring about other benchmarks in the area. We hope to return for the Commission's action at its March 21, 2001 meeting if no reasonable alternative benchmark sites can be found.

If you have any questions, please contact Charley Ice of the Water Commission staff at 587-0251 or toll-free from Maui at 984-4644, extension 70251.

Sincerely,

LINNEL T. NISHIOKA
Deputy Director

Ct:ky

c. Wailani Drilling Company
STAFF SUBMITTAL

for the meeting of the
COMMISSION ON WATER RESOURCE MANAGEMENT

February 28, 2001
Honolulu, Oahu

Eric J. Golting
Request for Exemption from Survey Requirement
Papula-Golting Well (Well No. 5425-03), TMK 3-8-2:25
Papaula Point, Spreckelsville, Maui

APPLICANT:
Eric J. Golting
10700 East Bethany Drive
Aurora, CO 80014-2625

LANDOWNER:
Same

LOCATION MAP:
See Exhibit 1.

BACKGROUND:

February 2, 2000
Application for Well Construction Permit accepted as complete.

March 17, 2000
Well Construction Permit issued.

November 28, 2000
Well Completion Report submitted, complete excepting elevation survey for wellhead.

January 23, 2001
Letter from permittee informing the Commission that he had contacted several surveying firms concerning this required condition of his permit. He was told that the only survey monument available for this area was within the airport, immediately adjacent, and that the airport authority requires a $2,000,000 bond for surveyors to enter and conduct such a survey.

Item 5
ANALYSIS/ISSUES:

Standard Permit Condition #7(b) requires a wellhead elevation survey by a Hawaii-licensed surveyor. The purpose for this is to accurately measure the water level in a well to aid understanding the aquifer response to pumping. In turn, regional patterns in water levels can identify potential problems that the Commission can avoid by taking appropriate steps.

The well in question is right on the coast, at an elevation of approximately 6 feet, in sandy soil underlain by soft gray rock and an approximately 5-ft thick layer of basalt at a depth of about 43 feet below the surface (about -37 feet, msl). Beneath this layer is brackish water (about 360 mg/l Cl) that supports pumping at 50 gpm with very little drawdown. The water will be used for irrigating about 5.5 acres at a private home.

Staff believes that the requirement for obtaining a survey in this case creates an onerous and excessive burden on the permittee. Further, because the water is brackish and in an isolated area, our concern for precise water level measurements at this time in this case is low. Other wells within a one-mile radius are older, small wells with no survey requirement and consequently no benchmark measurement. One newer well in this area is also non-compliant with the survey requirement but complete in all other permit requirements. This other well would also require Commission action for exemption from the survey requirement.

RECOMMENDATION:

That the Commission exempt the Papaula-Golting Well (Well No. 5425-03) from the requirement for surveying the wellhead elevation.

Respectfully submitted,

LINNEL T. NISHIOKA
Deputy Director

Exhibit(s): 1 (Location Map)
Dear Mr. Golting:

Survey for Papaula-Golting Well
(Well No. 5425-03)

Thank you for your letter of January 23, 2001, indicating your unsuccessful efforts to acquire an elevation survey for your captioned well. We are aware of the difficulties you have faced, and appreciate your efforts.

Commission action to exempt this well from this standard condition is required, and we will notify you when it will go before the Commission. Meanwhile, you may wish to discuss this matter with your driller since several other wells in your area which have been constructed or are in the process of construction. These wells also require bench marks to be established and survey coordination may reduce your elevation survey costs for your reconsideration.

If you have any questions, please contact Charley Ice of the Water Commission staff at (808) 587-0251.

Sincerely,

LINNEL T. NISHIOKA
Deputy Director

Cl:ky
c. Wailani Drilling Company
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The nearest is Ruben (1) and you know how successful he was. He's been filing with a big damage. Young and work are 2 unfinished wells? Benchmark that could be referenced. Golfing is right in the beach, so maybe not too bad. (If no can, have to go to course).
January 23, 2001

State Water Commission
Attn: Mr. Charlie Ice
P.O. Box 621
Honolulu, HI 96809

Re: Papaula Golting Well, 594 Stable Road, Paia, Maui
   Well Number: 5425-03

Dear Mr. Ice:

Please be advised that I have contacted several surveying firms including Warren S. Unemori in order to determine the wellhead elevation of the above referenced well. I have been advised by every surveyor that there is no available elevation benchmark to use for the purposes of determining the wellhead elevation except for the one on the Maui Airport property. The problem is that the airport authority requires a $2,000,000 bond by the surveyor prior to entering upon their property.

This well was drilled by Wailani Drilling and they have been very persistent in reminding me that this elevation does need to be provided to the State Water Commission. Since I have been unable to secure a surveyor that is willing to perform the work and the well is only used for irrigation for a private home on the ocean, I would like to request an exemption from furnishing this elevation. Please advise if it is possible to waive this requirement and still finalize the paperwork for this well.

I look forward to hearing from you at your earliest convenience regarding this request for exemption.

If you have any questions, do not hesitate to contact me.

Eric J. Golting
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 421, Honolulu, Hawaii 96820. 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 .wrm.hi .us/wells/interpret/

1. State Well No.: 5425-03
   Well Name: PAPAYA GETTING
   Island: MAUI

2. Address: 399 OLD STABLE ROAD
   Tax Map Key: 3-B-02.25

3. Drilling Company: MAUI DRILLING

4. If drilled, type of Rig: ☐ Rotary ☐ Percussion

5. Date Well Construction (drilled, cased, grouted) completed: 3/14/00
   Attach Driller's Log (72/80a DI. Form)
   In addition to the driller's log, if a geologic log was prepared, please submit with this form.

6. Initial water-level encountered: 48 ft. below ground
   Date and time of measurement: 3/12/00 8:00
   Monthly/year time

7. Step-Drawdown Test completed? 
   [ ] No [ ] Yes
   Attach Step-Drawdown Test form (12/7/97 SDPTD Form)

8. Constant Rate Aquifer Test completed? 
   [ ] No [ ] Yes
   Attach Constant Rate Aquifer Test form (12/7/97 CRPTD Form)

9. Water-level: (inTches) .5 ft. above msl
   Date and time of measurement: 3/22/00
   Monthly/year time

10. Chloride: 360 ppm
   Date and time of sampling: 3/22/00
   Monthly/year time

11. Temperature: 70° F
   Date and time of measurement: 3/22/00
   Monthly/year time

12. Fill in the as-built section on the other side of this sheet.

13. Attach plot plan and surveyor's stamped elevation report.

14. 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.)

15. Remarks: __________________________

Licensed Driller (print) MIKE EDOCASIO
C-57 Lic. No. 620115
Signature __________________________
Date 3/14/00

Surveyor (print) __________________________
L.P.I.S. Lic. No. __________________________
Signature __________________________
Date __________________________

Permittee (print) __________________________
Signature __________________________
Date 3/24/00
13. AS-BUILT WELL SECTION
(Please attach as-built if different from diagram provided below)

Solid Casing Material:
Carbon Steel: compliant with (check one or more): □ ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
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

Open Casing Material: (N/A)
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
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□ PTFE Fluorocarbon Tubing conforming to ASTM D3296
□ FEP Fluorocarbon Tubing conforming to ASTM D3296

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

**Elevation at top of casing 7.25 ft., msl**
(to nearest 0.01 ft.)

**Hole Diameter: 12.35 in.**

Minimum of 2\(^\circ\) Radius & 4\(^\circ\) Thick Concrete Pad

**Ground Elevation: 5.75 ft., msl**

**Solid Casing:** (90% x (Ground Elev.-Water Level Elev.))

- **Length:** 50 ft.
- **Nominal Diameter:** 6" in.
- **Wall Thickness:** 2.50 in.
- **Bottom Elevation:** -44.25 ft., msl

**Open Casing:**

- **Perforated:**
- **Screen:**

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

**Open Hole:**

- **Length:** 71 ft.
- **Diameter:** 6.25 in.
- **Bottom Elevation:** -51.25 ft., msl

*msl = mean sea level

Signatures:

**SA70-03 PAPALLA - GOLTING**
# CONSTANT-RATE PUMP TEST DATA

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<th>Pumped Well No.</th>
<th>Observation well no.</th>
<th>Pumped Well Name</th>
<th>Distance between Obs. &amp; Pumped Well</th>
<th>Target Q</th>
<th>Reference pt. for depth to water</th>
<th>Static Water Level @ start of test</th>
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<td>5425-03</td>
<td>NA</td>
<td>PAPA-CALOTTING</td>
<td>NA</td>
<td>50 gpm</td>
<td>6.25 ft. msl EST</td>
<td>6.50 ft. msl EST</td>
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Water level measurements by:  
- ✔ steel tape  
- ☐ pressure transducer  
- ☐ airline

**START TEST**  
Date: 8/22/00  
Time of day: 8:00 AM

| Flow Meter Reading | Start Test | Pumping rate Q (gpm) | EC (umhos) | Temp.  
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| Suggested elapsed time (min) | Actual elapsed time (min) | Depth to water (nearest 0.1 ft) | Drawdown (unadjusted to nearest 0.1 ft) | Pumping rate Q (gpm) | EC (umhos) | Temp.  
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<td>Drawdown (unadjusted to nearest 0.1 ft)</td>
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<td>EC (µhos)</td>
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¹ Chloride sampling required
² Use same ending drawdown figure as start for recovery
### Table 2 (CRPTD Form 12/17/97)

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**END TEST** Date: **8/22/90**  Time of day: **4:00 PM**

**ADDITIONAL REMARKS:**

Person in charge of pump test (print): **WILL STEELE**  
Signature: **[Signature]**

The signature above indicates that the data reported on this form is accurate and true to the best of the person's knowledge who operated this pump test.
## CONSTANT-RATE PUMP TEST DATA

**Pumped Well No.:** S425-03  
**Pumped Well Name:** PAPALLA GOLTING  
**Target Q:** 50 gpm  
**Observation well no.:** N/A  
**Distance between Obs. & Pumped Well:** N/A ft.  
**Reference pt. for depth to water:** 7.08 ft. msl  
**Static Water Level @ start of test:** 1.33 ft. msl

Water level measurements by:  
☐ steel tape  
☐ pressure transducer  
☐ airline

**START TEST**  
**Date:** 02/22/00  
**Time of day:** 8:00 AM

### Flow Meter Reading

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Flow meter reading at end of pumped period: 24020 gals

1 Chloride sampling required
2 Use same ending drawdown figure as start for recovery
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**END TEST** Date: 8/22/80 Time of day: 4:00 PM

**ADDITIONAL REMARKS:**

Person in charge of pump test (print): **WILL STEELE**

Signature: **[Signature]**

The signature above indicates that the data reported on this form is accurate and true to the best of the person's knowledge who operated this test.
AUG-16-2000 07:34 AM WAILANI DRILLING INC 8085729925 P.03

State of Hawai'i
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 521, Honolulu, Hawaii 96808. 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 808-668-1419. For updates to this form or additional information, please visit our website at http://www.state.hi.us/dlnr/wrm/

1. State Well No.: 5425-03 Well Name: PAPUEA-OTTING - island: MAUI
2. Address: 599 OLD STABLE ROAD Tax Map Key: 3-8 -02 -25
3. Drilling Company: WAILANI DRILLING
4. If drilled, type of Rig: ☑ Rotary ☐ Percussion
5. Date Well Construction (drilled,cased,grouted) completed: 3/24/00 Attach Driller's Log (326/89 Dr. Form)

In addition to the driller's log, if a geologic log was prepared, please submit this form.

6. Initial water-level encountered ______ ft. below ground Date and time of measurement: 3/22/00 8:00 month/day/year
7. Step-Drawdown Test completed? ☑ No ☐ Yes Attach Step-Drawdown Test form (12117/97 SDPTD Form)
8. Constant Rate Aquifer Test completed? ☑ No ☐ Yes Attach Constant Rate Aquifer Test form (12117/97 CRPTD Form)

Parameters prior to pump test:
9. Water-level: (INCHES) 15 ft. above msl Date and time of measurement:
10. Chloride: 1200 ppm Date and time of sampling:
11. Temperature: 70 °F Date and time of measurement:

12. Fill in the as-built section on the other side of this sheet.
13. Attach plot plan and surveyor's stamped elevation report.
14. 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.)
15. Remarks:

Licensed Driller (print) MIKE EDEI.CS C-57 Lic. No. 6201/5
Signature
Date 8/16/00

Surveyor (print)
L.P.L.S. Lic. No.
please attach stamped report
Signature
Date

Permittee (print)
Signature
Date
Wailani Drilling Company

Mike Robertson 655 Kulike Road Haiku, Maui, Hawaii 96708
Ph. 808/572-2673 Fax 572-0925 Cellular 264 7079

Lic.#C20115

For: Claude Ice
From: Mike Robertson

Re: Well Data

Enclosed are W-4-1 from: Jerry Rock
Shane O'Neill
Modena Street
Eric Gotting
Fred Haring

Rock and O'Neill will have survey soon,
and also possibly Eric Gotting.
Before we mail hard copies this week we will get signatures
of owners.

Thank you: Mike Robertson

Mike Robertson

C.C.
Constant Rate Pump Data

Well: 5425-03
Name: Parula Golf Inc.
Wailani Drilling Company® Lic. # C20115
Mike Robertson 655 Kulike Road Haiku, Maui, Hawaii 96708 Golting Well Log and drawing* 04/07/00
Ph. 808-572-2673 Fax 572-0925 Cellular 264-7079 Papaula-Golting Well State Well- #5425-03 Elevation 6.25 ft, m.s.l.

3 HP Controller
6" in. well seal

8' x 8' x 6' Concrete Slab

Soft gray Rock

Clay & sand

1/2 in. sounding tube
sched. 40 PVC
to 40 ft.

Total Depth 57 ft.

Static Water Level = 5.75 ft.

12 in. borehole to 45 ft.
# 12 layflat submersible

6 in. sch. 40 PVC casing
0' - 47 ft.

3 h.p. Grunflos 50 gpm
submersible pump set at
10 ft. (intake)

*Note: not drawn to scale
Mr. Eric Golting

Dear Mr. Golting:

Well Construction Permit
Papaula-Golting Well (Well No. 5425-03)

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

"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 validated 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 may not proceed without a validated permit 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 date of this permit approval.

If you have any questions, please call the Commission staff at 587-0251 or toll-free at 984-2400, extension 70251.

Aloha,

TIMOTHY E. JOHN
Chairperson

Enclosures

c: Wailani Drilling, Inc.
WELL CONSTRUCTION PERMIT
Papaula-Golting Well (Well No. 5425-03)

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 Papaula-Golting Well (Well Nos. 5425-03) at Papaula Point, Spreckelsville, Maui, TMK 3-8-2:25, 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 one-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee, well operator, and/or well owner shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a pump testing worksheet is attached). The permittee, well operator, and/or well owner shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump and withdraw water for use. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson.
3. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson.
4. The permittee, well operator, and/or well owner shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.
5. In the event that subsurface cultural remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee, well operator, and/or well owner shall stop work and contact the Department's Historic Preservation immediately.
6. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of correlative water rights.
7. The following shall be submitted to the Chairperson within sixty (60) days after completion of work:
   b. Elevation (referenced to mean sea level, msl) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
   d. Plot plan and map showing the exact location of the well.
   e. Complete pumping test records, including time, pumping rate, drawdown, chloride content, and other data.
8. The permittee, well operator, and/or well owner shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.
9. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997, HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.
10. The permit may be revoked by the Commission if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee, well operator, and/or well owner notice of the proposed action and an opportunity to be heard.
11. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee, well operator, and/or well owner must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.
12. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, 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: March 17, 2000
Expiration Date: March 17, 2002

TIMOTHY E. JOHNS, 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: ______________________ 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/Safe Drinking Water, Wastewater, and Clean Water Branches
Maul Department of Water Supply
WELL CONSTRUCTION PERMIT

Pepoonate-Goosing Well, Well No. 4746-03

In accordance with the Department of Land and Natural Resources, Commission on Water Resource Management (Commission), Section 13-195, entitled "Water Use, Wells, and Stream Division Water", this document pertains to the construction and testing of Pepoonate-Goosing Well (Well No. 4746-03) at Pepeekeo, Keaau, Island of Hawai‘i, subject to the Hawai‘i Island Condominium & Planned Development Act (HRS §15-130), as amended, and subject to the enforcement by the State Department of Health.

1. The Commissioner of the Commission on Water Resource Management (Commission), P.O. Box 211, Honolulu, HI 96805, shall be notified in writing at least two (2) weeks before any work is commenced by the permittee, and the Commission shall be allowed to inspect installation activities in accordance with §15-195-15, Hawai‘i Administrative Rules.

2. The well construction permit shall be for construction and testing of the well only. A maximum one-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Commission, in accordance with well codes. The Commission shall connect to the Commission and conduct a pump test in accordance with the Schedule A pump test worksheet attached. The permittee shall submit to the Commission the test results as a basis for support of an application to install a pump and groundwater well. No permittee pump may be installed until a pump installation permit is approved and issued by the Commission.

3. In shallow ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (the initial head) of the saturated ground water unless otherwise authorized by the Commission.

4. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to stabilize roads to avoid periods of high rainfall, and to negotiate any cleared areas to be reseeded.

5. The operator shall submit a flood control plan to prevent flooding during construction.

6. The suspended well construction shall not adversely affect existing or future uses of water in the area, including any surface water or established low-flow streams. The permittee shall be responsible for ensuring compliance with applicable water laws.

7. The following shall be submitted to the Commission on or before the date of completion:
   a. Written permit application (Part I, Well Construction Permit).
   b. Elevation (referred to mean sea level, U.S. survey) by a Hawaii Board surveyor.
   c. As-built section drawing of the well.
   d. Well 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 its fuel water shall comply with all applicable laws, rules, and standards; non-compliance may result in revocation of this permit.

9. The well construction permit application is incorporated into this permit by reference and is subject to the Hawai‘i Island Condominium & Planned Development Act (HRS §15-130). If the HAPA is not followed and as a consequence water is wasted or contaminated, a fine will be assessed.

10. 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 permittee may be required to submit a reapply for a new permit.

11. The permit shall be submitted to the Commission at least two (2) months prior to the date the permit expires. If the permit extension date is not filed, the permit may be revoked by the permittee, and an opportunity to be heard.

12. The permittee, its successors, and assigns shall indemnify, defend, and hold the Department of Land and Natural Resources harmless from and against any loss, liability, claims, or demands for property damage, personal injury, or death arising out of any act or omission of the operator, agent, officers, employees, contractors, and agents under this permit or related to or connected with the permit of the permittee.

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

Date of Approval: March 17, 2000
Expiration Date: March 17, 2000

THOMAS J. JOHN, CHAIRMAN
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 do not hold a valid permit until the date hereof.

Permittee's Signature: Eric J. Goosing
Printed Name: Eric J. Goosing

Date of Issue: March 17, 2000

Licence No.: 2018
City of License: Waimea

Date of Issue: March 17, 2000

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

Attachment:

Department of Health Safe Drinking Water, Water Supply, and Loan and Water Branches

Cooperative of Water Supply and City and County of Honolulu water resources.

Date: 2/01/66
Transmitted for your review and comment is a copy of the captioned well 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 March 16, 2000.

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 Charley Ice of the Commission staff at 587-0251.

RESPONSE:

[1] This well qualifies as a source which will serve as a source of potable water to a public water system (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.

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

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

No comments/objections

Contact Person: William Wong Phone: 587-0250
Signed: William Wong Date: 3/17/00
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, Chapter 11-55, 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
**WELL NUMBER: 5425-03**

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<th>Depths (ft.)</th>
<th>Rock Description, Water Level, etc.</th>
<th>Dates</th>
<th>Depths (ft.)</th>
<th>Rock Description, Water Level, etc.</th>
<th>Dates</th>
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<td>48 to 57</td>
<td>A.A. &amp; cinders</td>
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Remarks:
**Wailani Dröling Company**  
Lic. # C20115

**Mike Robertson**  
655 Kulike Road  
Haiku, Maui, Hawaii 96708  
Ph. 808-572-2673  
Fax 572-0925  
Cellular 264-7079

**Golting Well Log and drawing**  
* 04/07/00

**Papaula-Golting Well**  
State Well- #5425-03  
Elevation 7.08 ft, m.s.l.  
Top of casing

---

**Diagram Description:**

- **3 HP Controller**
- **6" in. well seal**
- **8' x 8' x6'' Concrete Slab**
- **Soft gray Rock**
- **Clay & sand**
- **AA & Cinders**
- **sounding tube**
- **6 in. sch. 40 PVC casing**
- **60 gal. pressure tanks**
- **2" tail valve**
- **Flow Meter**

**Details:**

- **Total Depth 57 ft.**
- **Static Water Level = 5.75 ft.**  
  (from top of casing)

*Note: not drawn to scale

**Correction of well log:**

- **40 - 48** Blue rock
- **48 - 57** AAC & Cinders
TO: Mike Robertson
FROM: Charley Ice

Date: 17 March 00

Transmitting the Well Construction Permit for the Papaula-Golting well (52625-03). It has been approved.

Please note we are faxing the permit unsigned. The signed copy will be sent normal post.

We hope you appreciate the value of signed documents, and impress the importance of fully signed/validate permit being returned for our records, once you receive your copy signed by the Commission Chair.

Return Fax: 587-0219
Return Post: P.O.Box 621, Honolulu 96809
**SECTION 1: WELL LOCATION INFORMATION**

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**SECTION 2: WELL SECTION DATA** *(enter data in grey cells only)*

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<td>Material</td>
</tr>
<tr>
<td>Designation</td>
</tr>
<tr>
<td>Length</td>
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<tr>
<td>Diameter</td>
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<tr>
<td>Wall Thickness</td>
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<tr>
<td>Openings</td>
</tr>
<tr>
<td>Length</td>
</tr>
<tr>
<td>Diameter</td>
</tr>
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</table>

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

<table>
<thead>
<tr>
<th>Well Depth</th>
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<tbody>
<tr>
<td>Theoretical Thickness of Aquifer</td>
</tr>
<tr>
<td>1/4 Aquifer Thickness</td>
</tr>
<tr>
<td>Depth of Well below Sea Level</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Well Casing</th>
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<tbody>
<tr>
<td>Minimum Wall Thickness</td>
</tr>
<tr>
<td>Material</td>
</tr>
<tr>
<td>Minimum Thickness per standards</td>
</tr>
<tr>
<td>Wall Thickness Provided</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Minimum Length of Solid Casing</th>
</tr>
</thead>
<tbody>
<tr>
<td>90% of ground to top of aquifer</td>
</tr>
<tr>
<td>Length of solid casing Provided</td>
</tr>
<tr>
<td>Casing Material</td>
</tr>
<tr>
<td>Annular Space</td>
</tr>
<tr>
<td>Depth of Grouting</td>
</tr>
<tr>
<td>Depth of Grouting provided</td>
</tr>
<tr>
<td>Thickness of Annular Space</td>
</tr>
</tbody>
</table>
TO: Honorable Bruce S. Anderson, Director
Department of Health
Attention: Dennis Tulang, Wastewater Branch
William Wong, Safe Drinking Water Branch

FROM: Timothy E. Johns, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Applications
Papaula-Golting Well (Well No. 5425-03)

Transmitted for your review and comment is a copy of the captioned well 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 March 16, 2000.

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 Charley Ice of the Commission staff at 587-0251.

RESPONSE:

This well qualifies as a source which will serve as a source of potable water to a public water system (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, §11-20-0.

This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connection(s) 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 located near the proposed well (information attached).

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

No comments/objections.

Contact Person: ohi n. kajiwara
Phone: 566-2944

Signed: ohi n. kajiwara
Date: 3-9-2000
TO: Dean Y. Uchida, Administrator
    Land Division

FROM: Linnel T. Nishioka, Deputy Director
    Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Applications
    Papaula-Golting Well (Well No. 5425-03)

Transmitted for your review and comment is a copy of the captioned well application.

We would appreciate your comments on the captioned with regard to the programs, plans, and objectives specific to your division. Specifically, Item 9 on the application has been added per your request concerning water lease/permits administered by your division. Please respond by returning this cover memo form by March 16, 2000.

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 Charley Ice of the Commission staff at 587-0251.

RESPONSE:

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

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

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

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

[ ] No objections

[ ] Other comments:

Contact Person: Phone: 587-0438
Signed: Date: 3/16/2000
Mr. and Mrs. Eric Golting

Dear Mr. and Mrs. Golting:

Well Construction/Pump Installation Permit Application for Papaula-Golting Well (Well No. 5425-03)

We acknowledge acceptance, on February 2, 2000, of your completed well construction/pump installation permit application for the Papaula-Golting Well (Well No. 5425-03). 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 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 Charley Ice of the Commission staff at 587-0251 or toll free at 984-2400, extension 70251.

Sincerely,

LINNEL T. NISHIOKA
Deputy Director

Cl: ss

C: Wailani Drilling Inc.
TO: Honorable Bruce S. Anderson, Director
Department of Health
Attention: Dennis Tulang, Wastewater Branch
William Wong, Safe Drinking Water Branch

FROM: Timothy E. Johns, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Applications
Papaula-Golting Well (Well No. 5425-03)

Transmitted for your review and comment is a copy of the captioned well 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 March 16, 2000.

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 Charley Ice of the Commission staff at 587-0251.

RESPONSE:

[ ] This well qualifies as a source which will serve as a source of potable water to a public water system (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, §11.20-20.

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

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

[ ] No comments/objections

Contact Person: ____________________________ Phone: ____________________________
Signed: ____________________________ Date: ____________________________
TO: Dean Y. Uchida, Administrator  
Land Division
FROM: Linnel T. Nishioka, Deputy Director  
Commission on Water Resource Management
SUBJECT: Well Construction/Pump Installation Permit Applications  
Papaula-Golting Well (Well No. 5425-03)

Transmitted for your review and comment is a copy of the captioned well application.

We would appreciate your comments on the captioned with regard to the programs, plans, and objectives specific to your division. Specifically, Item 9 on the application has been added per your request concerning water lease/permits administered by your division. Please respond by returning this cover memo form by March 16, 2000.

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 Charley Ice of the Commission staff at 587-0251.

Cl:ss  
Attachment(s)

RESPONSE:
[ ] A water lease/permit is required of this applicant and an application for such will be requested by our division.
[ ] A water lease/permit is not required of this applicant.
[ ] A water lease/permit has been obtained by the applicant through lease no. ____________________
[ ] Other relevant Land Division rules/regulations, information, or recommendations are attached.
[ ] No objections
[ ] Other comments:

Contact Person: ___________________________ Phone: ___________________________
Signed: ___________________________ Date: ___________________________
TO: Honorable Bruce S. Anderson, Director
    Department of Health
    Attention: Dennis Tulang, Wastewater Branch
    William Wong, Safe Drinking Water Branch

FROM: Timothy E. Johns, Chairperson
    Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Applications
          Papaula-Golting Well (Well No. 5425-03)

Transmitted for your review and comment is a copy of the captioned well 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 March 16, 2000.

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 Charley Ice of the Commission staff at 587-0251.

Class: Attachment(s)

RESPONSE:

[1] This well qualifies as a source which will serve as a source of potable water to a public water system 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 before it is used to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, 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 more people at least 60 days per year or 15 service connections) and if the well water is used for drinking, the owner must test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future plans for the 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 cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable piping with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

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

[1] For the applicant's information, a source of possible wastewater contamination [ ] is located near the proposed well site (information attached).

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

No comments/objections.

Contact Person: Athina Fujimoto Phone: 586-2294
Signed: Osami Fujimoto Date: 3-6-2000
TO: Honorable Bruce S. Anderson, Director
   Department of Health
   Attention: Dennis Tulang, Wastewater Branch
   William Wong, Safe Drinking Water Branch

FROM: Timothy E. Johns, Chairperson
       Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Applications
         Papaula-Golling Well (Well No. 5426-03)

Transmitted for your review and comment is a copy of the captioned well 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 March 16, 2000.

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 Charley Ice of the Commission staff at 587-0251.

RESPONSE:

This well qualifies as a source which will serve as a source of potable water to a public water system (serving 25 or more people at least 90 days per year or 15 service connections) and meet the requirements of Hawaii Administrative Rules (AR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-30-25.

This well does not qualify as a source serving a public water system (serving less than 25 people or more people at least 90 days per year or 15 service connections) and if the well water is used for drinking, the potable water source test for bacteriological and chemical presence before initiating such use and routinely monitor the well quality thereafter. However, if other planned uses from this source increases to meet the public water system definition then renewal 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 sources 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 wasterwater contamination [Item 1] is not located near the proposed well site (information attached).

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

No comments/objections.

Contact Person: William Wong
Phone: 586-4258

Signed: __________________________ Date: 3/11/2000
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, Chapter 11-55, 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
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
APPLICATION FOR PERMIT

Well Construction or Pump Installation

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

1. (□) Well Owner: Eric Golting
   Mailing Address: 594 Stable Road
   Contact Person: Same
   Phone:
   Fax:
   (□) Land Owner: Same as above
   Mailing Address: 
   Fax:
   (□) Contractor: Wailani Drilling Inc
   Mailing Address: 655 Kulike Rd, Haiku, HI 96708
   Fax: 57235925
   E-mail: 
   Lic #: 2015
   (Circle one (C-57C-57A, or A)

Well & Pump Information: (Please fill in the diagram on the back of this form)

2. Well Location/Name: Stable Road Geothermal Well
   Island: Maui
   Address 594 Stable Road
   Tax Map Key: 3-8-082-35
   Attach the relevant portion of (a) a 7.5-Minute Series U.S.G.S topographic map (scale 1"=24,000), and (b) a property tax map, showing well location referenced to established property boundaries.

3. Proposed Work:
   (Check all that apply)
   □ Drill New Well
   □ Deepen
   □ Install New Pump
   □ Modify Existing Well
   □ Revisit
   □ Modify Pump
   □ Abandon/Seal
   □ Replace Pump
   □ Well No: ____________________________
   * Well No: Be sure to complete and submit well abandonment report upon completion of work.

4. Construction:
   □ Dig
   □ Bore
   □ Drive
   □ Drilled
   □ Bored
   □ Subsurface
   □ Dug
   □ Bored
   □ Drive
   □ Bored
   □ Subsurface
   □ Yes
   □ No
   □ Please describe:

5. Proposed Pump Information: Rated Pump Capacity:
   □ Deep Well Turbine
   □ Submersible
   □ Rotary
   □ Pump
   □ Rotary-Displacement
   □ Impulse
   □ Reciprocating
   □ Impulse
   □ Reciprocating
   □ Impulse
   □ Propeller
   □ Electric, rated horsepower:
   □ Diesel
   □ Gas
   □ Oil
   □ Electric, rated horsepower:
   □ Oil
   □ Electric, rated horsepower:
   □ Oil
   □ Electric, rated horsepower:

6. Proposed Use:
   (Check all that apply)
   □ Municipal (including hotels, stores, etc.)
   □ Industrial
   □ Domestic (individual, noncommercial water system)
   □ No. of Dwelling Units:
   □ No. of Acres:
   □ Irrigation (crop)
   □ Other (explain):
   □ Other (explain):
   □ Other (explain):

7. (a) Proposed Amount of Withdrawal: 20,000 gallons per day
   (b) Method of Flow Measurement:
   □ Flowmeter
   □ Open pipe
   □ Weir
   □ Orifice
   □ Other (explain)

Other Important Information:

8. Pending Actions:
   □ ODA
   □ SMA
   □ EIS
   □ EA
   □ NONE
   □ Other (explain)

9. If a pump installation permit request is part of this application, please answer the following: THE LANDOWNER CERTIFIES THAT THE SUBJECT PROPERTY, OR A PORTION THEREOF, WAS □ OR WAS NOT □ A STATE OF HAWAII LAND PATENT GRANT ISSUED AFTER 1980. (Please check with your title search company or the Land Division, Department of Land and Natural Resources at 987-0414 for help.)

10. Remarks, Explanations:
    (If more space is needed, please attach additional sheet)

I understand that approval of this application attaches the following standard conditions: 1) the proposed work 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 30 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) proof approval shall not constitute a determination of cumulative water rights and shall not establish new pump capacity or future use to be the permitted pump capacity.

Well Owner
Signature: Date: 8/31/99

Landowner
Signature: Date: 8/31/99

Contractor: Wailani Drilling Inc
Signature: Date: 8/31/99

Field Checked By: ____________________________
Latitude: ____________________________
Aquifer System Name: ____________________________
Date: ____________________________
State Well No: 5425-08
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
APPLICATION FOR PERMIT
☐ Well Construction or ☐ Pump Installation

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0225. (Also, please check our website at - http://www.hawaii.gov/divdwm/dwm.html)

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

1. (a) WELL OWNER: Eric Goltin
   Contact Person: Same
   Phone: 
   Mailing Address: 
   Fax: 
   E-mail: 

   (b) LAND OWNER: Same as above
   Contact Person: 
   Phone: 
   Mailing Address: 
   Fax: 
   E-mail: 

   (c) CONTRACTOR: Wailani Drilling Inc
   Contact Person: Mike Robertson
   Phone: 5732673
   Mailing Address: 655 Kuikie Rd, Haiku, HI 96718
   Fax: 5730935
   E-mail: 
   Lic #: 20115
   (circle one: C-21, C-57a, or A)

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

2. WELL LOCATION NAME: Stable Road Goltin Well
   Island: Maui
   Address: 594 Stable Road
   Island: Maui
   Tax Map Key: 3-8-02A25
   Attach the relevant portion of (a) a 7.5-Minute Series USGS topographic map (scale 1"=24,000), and (b) a property tax map, showing well location referenced to established property boundaries.

3. PROPOSED WORK:
   (Check all that apply)
   ☐ Drill New Well  ☐ Deepen  ☐ Install New Pump
   ☐ Modify Existing Well  ☐ Redrill  ☐ Modify Pump
   ☐ Abandon/Seal  ☐ Replace Pump
   * Well No. : Be sure to complete and submit well abandonment report upon completion of work.

4. CONSTRUCTION:
   ☐ Dug  ☐ Bored  ☐ Driven  ☐ Drilled
   Is this well a part of a battery of wells?  ☐ Yes  ☐ No (Please describe.)

5. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: 50 gallons per minute
   Pump Type (Check one):
   ☐ Deep Well Turbine  ☐ Rotary  ☐ Propeller
   ☐ Submersible  ☐ Rotary-Displacement  ☐ Reciprocating
   ☐ Centrifugal  ☐ Rotary-Gear  ☐ Impulse
   Powered by:
   ☐ Diesel  ☐ Gas  ☐ Electric, rated horsepower 5.3

6. PROPOSED USE:
   (Check all that apply)
   ☐ Municipal (including hotels, stores, etc.)  ☐ Industrial
   ☐ Domestic (individual, noncommercial water system)  ☐ No. of Dwelling Units: No. of Acres: 
   ☐ Irrigation (crop)  ☐ Military  ☐ Other (explain): 

7. (a) PROPOSED AMOUNT OF WITHDRAWAL: 30,000 gallons per day
   (b) METHOD OF FLOW MEASUREMENT: ☐ Flowmeter  ☐ Open-pipe  ☐ Weir  ☐ Orifice  ☐ Other (explain)

OTHER IMPORTANT INFORMATION:

8. PENDING ACTIONS:
   ☐ CDUA  ☐ SMA  ☐ EIS  ☐ EA  ☐ NONE  ☐ Other (explain)

9. If a pump installation permit request is part of this application, please answer the following: THE LANDOWNER CERTIFIES THAT THE SUBJECT PROPERTY, OR A PORTION THEREOF, WAS ☐ OR WAS NOT ☐ A STATE OF HAWAII LAND PATENT GRANT ISSUED AFTER 1980. (Please check with your title search company or the Land Division, Department of Land and Natural Resources at 587-0414 for help.)

10. REMARKS, EXPLANATIONS:
    (If more space is needed, please attach additional sheet)

I understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 30 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 correlative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner: ___________________________ Landowner: ___________________________
Signature: ___________________________ Date: ___________________________

Contractor: Wailani Drilling Inc
Signature: ___________________________ Date: 8/30/99

Field Checked By: ___________________________ Longitude: ___________________________
Date: ___________________________ Aquifer System Name: ___________________________
Latitude: ___________________________ State Well No: ___________________________

WCPIFORM (4/9/99)
Please refer to the HAWAII WELL CONSTRUCTION AND PUMP INSTALLATION STANDARDS to assure that your construction plans are in compliance with all existing regulations.

Solid Casing: \((\geq 90\% \times \text{(Ground Elevation - Water Level Elevation)})\)
- Material: \(\text{Schedule } 40 \text{ PVC}\)
- Length: \(\) ft.
- Diameter: \(\) in.
- Wall Thickness: \(\) in.
- Bottom Elevation: \(\) ft., msl

Open Casing:  
- Material:  
- Length: \(\) ft.
- Diameter: \(\) in.
- Bottom Elevation: \(\) ft., msl

Material:
- Crushed Basalt
- Rounded Gravel

Water Level Elevation: \(\) ft., msl

For non-salt water Basalt Wells - bottom elevation of well should not be deeper than \(1/4\) of aquifer thickness or, Bottom Elevation of Well Limit = \(\left(\frac{2 \times \text{Water Level Elevation}}{41}\right)\) 
Example: Estimated + 2 ft. Water Level Elev. \(\rightarrow\) Bottom Elevation of Well Limit = \(\left(\frac{2 \times 12}{41}\right)\) = -18.5 ft.

* The approximate elevation must be referenced to mean sea level (msl) at the time of application filing. Final elevations of well components shall be submitted in the Well Completion/Well Abandonment reports and referenced to a benchmark which has been established by a surveyor licensed by the State.

Solid Casing Material:
- Steel: compliant with (check one or more):  
  - ANSI/AWWA C200
  - API Spec. 5L
  - ASTM A53
  - ASTM A139
- Stainless Steel: (check one):  
  - ASTM A409
  - ASTM A312
- ABS Plastic conforming to ASTM F460 and ASTM D1527: (check one)  
  - Schedule 40  
  - Schedule 80
- PVC Plastic conforming to ASTM F490 and (ASTM D1785 or ASTM D2241): (check one)  
  - Schedule 40  
  - Schedule 80

Thermoset Plastic: (check one)  
- Filament Wound Resin Pipe conforming to ASTM D2966
- Centrally 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 C960
- PTFE Fluorocarbon Tubing conforming to ASTM D3296
- FEP Fluorocarbon Tubing conforming to ASTM D3296

Open Casing Material:
- Steel: compliant with (check one or more):  
  - ANSI/AWWA C200
  - API Spec. 5L
  - ASTM A53
  - ASTM A139
- Stainless Steel: (check one):  
  - ASTM A409
  - ASTM A312
- ABS Plastic conforming to ASTM F460 and ASTM D1527: (check one)  
  - Schedule 40  
  - Schedule 80
- PVC Plastic conforming to ASTM F490 and (ASTM D1785 or ASTM D2241): (check one)  
  - Schedule 40  
  - Schedule 80

Thermoset Plastic: (check one)  
- Filament Wound Resin Pipe conforming to ASTM D2966
- Centrally 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 C960
- PTFE Fluorocarbon Tubing conforming to ASTM D3296
- FEP Fluorocarbon Tubing conforming to ASTM D3296

Elevation at top of casing 8 ft., msl
(Survey to nearest 0.01 ft.)

Minimum annular space between hole and casing ≥ 3'

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

Material:  
- Crushed Basalt
- Rounded Gravel

Rock or Gravel Packing:  
- ft.

Water Level Elevation: \(0.1\) ft., msl

Total Depth: 50 ft.

Minimum of 2' Radius & 4" Thick Concrete Pad

Ground Elevation: 7 ft., msl

Please refer to the HAWAII WELL CONSTRUCTION AND PUMP INSTALLATION STANDARDS to assure that your construction plans are in compliance with all existing regulations.
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**REMARKS:**
LINE (1) Well No. 5425-03 (WCPA/PIPA)
LINE (2)
LINE (3)

ARAPAHOE FINANCIAL PLAZA LLC
10700 E BETHANY DR. #200
AURORA, CO 80014-2625
Date September 1, 1999
**Pay to the order of Dept. of Land and Natural Resources** $**25.00**

**For Filing Fee**

10700 E. Colfax Ave.
Aurora, CO 80010
(303) 364-6000
ValueChoice (303) 364-6000
NOTE:
LOCATIONS OF BUILDINGS AS SHOWN ON PLAN ARE BASED ON
TOPOGRAPHIC SURVEY MAP OF TK: 3-8-02: 25, DATED MAY 1, 1986.

EXHIBIT