August 6, 2004

Mr. Louis B. Murphey

Dear Mr. Murphey:

Well Completion Report 1 & Pump Installation Permit for Well No. 5617-01

Thank you for your July 31, 2004 letter forwarding the deed documentation identifying you as the current owner and the SMA minor permit for well no. 5617-01.

For your information, there has been some confusion regarding this well and a related well, well no. 5517-03. We originally believed that the April 16, 2003 After-the-Fact SMA minor permit (attached) addressed both 5617-01 & 5517-03, hence, our July 8, 2003 letter (attached) approved a 9-month extension to well construction activities for 5617-01, which included pending pump testing and final plot plan results. We now understand in discussions with the County of Maui, Department of Planning that the April 16, 2003 letter was for well no. 5517-03 only and your July 28, 2003 SMA minor permit approval includes well no. 5617-01, which has been already drilled. After our review of well completion approval reports, we found that wells 5617-01 and 5517-03 had been incorrectly identified and actually switched. This was corrected in our June 3, 2003 letter (attached). Also, a pump installation permit was mistakenly applied for well no. 5617-01 was actually for well no. 5517-03. This too has been corrected.

At this point, we can proceed with permitting the installation of a pump in well no. 5617-01 in accordance with the following:

1) Pump test results for your proposed well capacity are filed (or it may become a special condition of the pump installation permit).
2) A completed application for pump installation permit is submitted (attached for your use).

Sincerely,

YVONNE Y. IZU
Deputy Director

RH: ss
Attachments

c: Wailani Drilling
August 14, 2003

Mr. Robert Rutledge

Dear Mr. Rutledge:

Well Completion Report for Well No. 5517-03

We received your Well Completion Report Part II for the Haiku-Summit Trade Well 2 (Well No. 5517-03) on July 16, 2003 and acknowledge that it is complete. Other than the continuing water use reporting requirement, the permitting requirements for this well are complete.

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

Sincerely,

ERNEST Y.W. LAU
Deputy Director

Cll:ss

C: Wailani Drilling, Inc.
Eric Bryant
To: Charley Ice  
For: Water Resource Commission  
Re: Summit Trade Well #2, Well No. 5517-03  P.I.P

Dear Charley:

As per my conversation with you Charley, we wanted to confirm that customer wants to leave test pump in as permanent pump. Owners wants to take advantage of the declaratory ruling #DEC-ADM98-G5 because proposed pump is rated at 40 g.p.m. Pump curve included.

Thank You,

Michael Robertson
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

   Geology Code for Well Index: __________

2. Pump Installation Check Mitch Ohye (initial)

   Yes  No  If no, describe deficiency

   data complete
   followed Special Cond & Elev.
   well database updated  ☐  ☐

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

4. Roy (initial) check

5. Sobia (initial) finalize

6. Bean (initial) signature

7. Charley/Lenore/Ryan File
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 Haiku-Summit Trade 2 (Well No. 5517-03) at Lower Ulumalu Road, Makawao, Maui, TMK 2-8-3:3, 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 40 gpm rated capacity at 608 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 permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee, well operator, and/or well owner notice of the proposed action and an opportunity to be heard.

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

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

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

Date of Approval: May 9, 2003  
Expiry Date: May 9, 2005

PETER T. YOUNG, Chairperson  
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until 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: __________  
Printed Name: Eric Bryant  
Firm or Title: Stream Resources, Inc.

Installer’s Signature: __________  
Printed Name: Michael Robertson

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  
Mau Department of Water Supply  
Wailani Drilling, Inc.
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 808-652-2255. For updates to this form or additional information, please visit our website at http://www.hawaii.gov/dlnr/cwm/

<table>
<thead>
<tr>
<th>1. State Well No.:</th>
<th>5617-03</th>
<th>2. Address:</th>
<th>Holomalu Gulch, Ulumalu, Makawao</th>
</tr>
</thead>
<tbody>
<tr>
<td>5. PERMANENT PUMP INFORMATION</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Type, Make, Serial No.:</td>
<td>Grundfos 40S 100-30</td>
<td>Rated Capacity:</td>
<td>40 gpm at head of: 608 ft.</td>
</tr>
<tr>
<td>Motor Type, H.P., Voltage, rpm:</td>
<td>230 V 10 HP 3450</td>
<td>Type of flow meter:</td>
<td>Water Turbine which measures in gallons</td>
</tr>
<tr>
<td>Pump type (check one):</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ Deep Well Turbine</td>
<td>□ Submersible</td>
<td>□ Centrifugal</td>
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</tr>
<tr>
<td>□ Rotary</td>
<td>□ Rotary-Displacement</td>
<td>□ Rotary-Gear</td>
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<tr>
<td>□ Propeller</td>
<td>□ Reciprocating</td>
<td>□ Impulse</td>
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</tr>
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<td>6. Method of flow measurement:</td>
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<tr>
<td>□ Flowmeter</td>
<td>Manufacturer:</td>
<td>METER Make:</td>
<td>METER</td>
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<tr>
<td>□ Weir</td>
<td>Model Number:</td>
<td>MM-2</td>
<td>Serial Number:</td>
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<tr>
<td>□ Open Pipe</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ Orifice*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ Other*, explain below</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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:

We were waiting trying to get the confusion only the 2 well straightened out

Pump Installation Contractor (print) Michael Robertson  
C-57/C-57a/A Lic. No. 20115

Signature | Michael Robertson  | Date | 7/1/03 |

Permittee (print) | Haiku-Summit Trade |

Signature | John E. Pres  | Date | 7/1/03 |
Bench mark elevation surveyed to nearest 0.01 ft. = 396.9 ft. mean sea level

Elevation of top of chase tube 396.9 ft. mean sea level

Pump intake depth = 399 ft. (referenced to bench mark)

Chase tube depth = 399 ft. (referenced to bench mark)

If airline installed, bottom of airline elevation = 3.66 MSL
FLOW RANGE: 24 - 55 GPM
OUTLET SIZE: 2" NPT
NOMINAL DIA. 4"

OPERATING RANGE: 24 to 55 GPM
CAPACITIES BELOW 24 GPM
SEE MODEL 25S

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
4" MOTOR STANDARD, 1-10 HP/3450 RPM.
6" MOTOR STANDARD, 15-20 HP/3450 RPM.
* Also available with 5" motor.

Performance conforms to ISO 9906 Annex A
@ 5 ft. min. submergence.
June 3, 2003

Ref: 5517-03.cor.ltr

Mr. Mike Robertson
Wailani Drilling, Inc.
655 Kulike Road
Haiku, HI 96708

Dear Mr. Robertson:

Document Corrections – Well Numbering
Haiku-Summit Trade Well 2 (Well No. 5517-03)

To confirm our telephone conversation of May 29, 2003, please be advised that the recent transmittal of a well completion report and the subsequent issuance of a pump installation permit were incorrectly labeled as being for Haiku-Summit Trade Well #1 (Well No. 5617-01). We note by the survey information that the subject well is not Well #1 but the more mauka of the two Summit Trade wells, namely Haiku-Summit Trade Well #2 (Well No. 5517-03). Under §13-168-12(g), we are amending your current pump installation permit for Well #1 (5617-01) to specify Well #2 (5517-03) instead, to reflect the change. An amended new pump installation permit and Well Completion Report Part 2 for Well #2 is enclosed herewith to correct the documents previously issued for Well #1 on May 16, 2003. The original permit issued for Well #1 is hereby canceled.

Thanks for your help in clarifying this matter. If you have any questions, please call Charley Ice of the Commission staff at 587-0251 or toll-free at 984-2400, extension 70251.

Sincerely,

[Signature]
ERNEST Y.W. LAU
Deputy Director

Cl:ss
Enclosures
June 3, 2003

Ref: 5517-03.pip

Mr. Robert Rutledge

Dear Mr. Rutledge:

Pump Installation Permit  
Haiku-Summit Trade 2 (Well No. 5517-03)

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.

The permittee, well operator, and/or well owner are responsible for all conditions of the permit. Be advised that you may be subject to fines of up to $1000 per day for any violations of your permit conditions starting from the permit approval date.

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

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

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

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

Sincerely,

Peter T. Young
Chairperson

Enclosure

c: Wallani 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 Haiku-Summit Trade 2 (Well No. 5517-03) at Lower Ulumalu Road, Makawao, Maui, TMK 2-8-3:A, 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 40 gpm rated capacity at 608 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 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 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 before giving the permittee, well operator, and/or well owner notice of the proposed action and an opportunity to be heard.

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

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

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

Date of Approval: May 9, 2003
Expiration Date: May 9, 2005

PETER T. YOUNG, Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the 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
C: USGS
Department of Health's Safe Drinking Water & Wastewater Branch
Maul Department of Water Supply
Wailani Drilling, Inc.
<table>
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<tr>
<th>TO</th>
<th>INIT</th>
<th>TO</th>
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<th>FOR</th>
<th>PLEASE</th>
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<td>BAUER, G.</td>
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<td>HARDY, R.</td>
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<td>SAKODA, E.</td>
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<td>NAKANO, D.</td>
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<td>YOSHINAGA, M</td>
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<td>KUNIMURA, I.</td>
<td></td>
<td>YODA, K.</td>
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<td>____ Please See Me</td>
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<td>MATHIAS, T</td>
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</tr>
</tbody>
</table>

Only discovered this because Tom Nance filed WCP1 for a third well
Mr. Robert Rutledge

Dear Mr. Rutledge:

Pump Installation Permit
Haiku-SummitTrade Well 1 (Well No. 5617-01)

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

Special Conditions

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

The permittee, well operator, and/or well owner are responsible for all conditions of the permit. Be advised that you may be subject to fines of up to $1000 per day for any violations of your permit conditions starting from the permit approval date.

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

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

Finally, this letter is notice that we have accepted your Well Completion Report - Part I as complete as of the receipt of your pump test results on May 9, 2003. We also acknowledge receipt of your Minor SMA permit on April 25, 2003, and accepted your pump installation permit application as complete as of that date.

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

Sincerely,

Peter T. Young
Chairperson

Enclosure

c: Wailani Drilling, Inc.
PUMP INSTALLATION PERMIT

Haku-SummitTrade Well 1, Well No. 5617-01

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

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the pump installation for Haku-SummitTrade Well 1 (Well No. 5617-01) at Holulau Gulch, Ulumalu, Makawao, Maui, TMK 2-8-3, 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.

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

Date of Approval: May 9, 2003
Expiration Date: May 9, 2005

for
PETER T. YOUNG, Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the 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
Mau Department of Water Supply
Waianl Drilling, Inc.
1. **Pump Tests Check** Glenn Bauer (initial)
   - **Yes**
   - **No**
   - If no, describe deficiency
     - Step-Drawdown Test:
       - followed WCPI Stds
       - analysis attached
       - proposed pump cap o.k.
     - Aquifer Pump Test:
       - followed WCPI Stds
       - T & S analysis attached
     - Well Interference:
       - estimated Steady-State
drawdown at 1-mile radius is _________ ft.
       - analysis attached
     - Stream Surface Water Impacted:
       - 
       - If yes, identify most probable stream
     - Geology Code for Well Index: __________

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

3. Charley/Lenore/Ryan (initial) take action based on above analysis
   - 29 May03: reissuance of permit w/corrected name & no.

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

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**ATTACHMENTS FOR PUMP INSTALLATION PERMIT:**
- COVER LETTER
- PERMIT (2x)
- HQ COMMENTS
- LAND DIL COMMENTS
- WCR 2 FORM
- WUR FORM
- USGS MAP
- PARCEL CHECK
- DATABASE PRINTOUT
- GLENN'S WORKSHEET
- WELL ASB CHECK PRINT

---

Original appl. for well only; no pump test until recently, but w/cwp expir. data.
**DEPARTMENT OF LAND AND NATURAL RESOURCES**

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**REMARKS:**

LINE (1) Wail No. 5517-01 5517-03
LINE (2)
LINE (3)
LINE (4)
Return Receipt Fax Memo

Charley,

Enclosed are the following items:

- Pump Test Data for Haiku-Summit Trade Well No. 5617-01
- Pump Curve for Haiku-Summit Trade Well No. 5617-01

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
In looking through the file, I understand why I thought we were farther along. We have the Well Completion Report Part 1, and are moving toward approval of the Pump Installation Permit. We do not need further review.

We will need pump tests, however, so are issuing the test pump permit to support that. Your driller will submit a letter requesting use of a declaratory ruling that allows installation of the permanent pump to do the pump tests.

Then when the pump tests are reviewed and accepted, we'll issue the permanent pump permit.

You should receive the test pump permit within the week.
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<th>Actual elapsed time (min)</th>
<th>Depth to water nearest 0.1 ft.</th>
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<th>EC (mhos)</th>
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1 Chloride sampling required
2 Use same ending drawdown figure as start for recovery

Flow meter reading at end of pumped period: \[19,380\] gals

Begin recovery data next page

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END TEST  Date: 4/2/03 Time of day: 4:10 pm

ADDITIONAL REMARKS:

Person in charge of pump test (print): Mike Robertson

Signature: Mike Robertson

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.
Performance Curves 40 GPM Model 40S

FLOW RANGE: 24 - 55 GPM
OUTLET SIZE: 2" NPT
NOMINAL DIA. 4

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
4" MOTOR STANDARD, 1-10 HP/3450 RPM.
6" MOTOR STANDARD, 15-20 HP/3450 RPM.
* Also available with 6" motor.

Performance conforms to ISO 9906 Annex A @ 5 ft. min. submergence.

40 gpm at 608 ft.

Note: Water is being pumped to a tank at 3450 RPM.
April 16, 2003

Mr. Robert Rutledge

Dear Mr. Rutledge:

RE: After-the-Fact Special Management Area (SMA) Minor Permit — Drilling and Construction of a Potable Water Well and Storage Tank at Maui Tax Map Key No. 2-8-003:006, Ulumalu, Haiku, Island of Maui, Hawaii (SMX 2003/0129) (SM2 2003/0055)

In response to your application received on March 6, 2003, and in accordance with the Special Management Area Rules for the Maui Planning Commission, Sections, 12-202-12 and 12-202-14, a determination has been made relative to the above project that:

1. The project is a development;

2. The project has a valuation not in excess of $125,000.00 (Valuation: $60,000.00)

3. The project has no significant adverse environmental or ecological effect, taking into account potential cumulative effects; and

4. The project is consistent with the objectives, policies, and Special Management Area guidelines set forth in the Hawaii Revised Statutes (HRS), Chapter 205A, and is consistent with the County General Plan and Zoning.

In consideration of the above determination, you are hereby granted an After-the-Fact Special Management Area Minor Permit approval, subject to the following conditions:

1. That construction is in accordance with plans submitted on March 6, 2003.
2. That a well construction permit and a pump installation permit be obtained by the State Commission on Water Resource Management, if required, prior to the initiation of construction.

3. That a building permit be obtained, if required.

4. That full compliance with all other applicable governmental requirements shall be rendered.

Thank you for your cooperation. If additional clarification is required, please contact Ms. Robyn L. Loudermilk, Staff Planner, of this office at 270-7735.

Sincerely,

MICHAEL W. FOLEY
Planning Director

MWF:RLL:lar
c: Clayton I. Yoshida, AICP, Planning Program Administrator
    Aaron Shinmoto, Planning Program Administrator (2)
    John D. Nakagawa, Office of Planning
    DSA (2)
    Robyn L. Loudermilk, Staff Planner
    03/CZM File
    03/SM2 Minor Permit File
    General File
    K:\WP_DOCS\PLANNING\smx\2003\0129_StreamResourcesWell\approval.wpd
February 10, 2003

Mr. Ronald Lowell
Stream Resources, Inc.
2149 W. Cascade Street, #238
Hood River, OR 97031

Dear Mr. Lowell:

Well Completion Report for Well No. 5617-01 & 5517-03

On November 29, 2002, we received your Well Completion Report Part I (WCR1) and your Pump Installation Permit (PIP) application and filing fee for the Ha'iku-Summit Trade Wells 1 & 2 (Well No. 5617-01 & 5517-03). However, matters which must be addressed before we accept your report as complete and process your application are as follows:

1. Please clarify the status of this project being within the Special Management Area (SMA). While you indicated that an SMA permit is not required, the project does fall within the SMA, and we should have documentation from the County that no permit is required.

Upon receipt of the above information, we can accept your WCR1 and your PIP application as complete. You can then expect your application to be processed within ninety (90) days.

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

Sincerely,

DEAN A. NAKANO
Acting Deputy Director

CI:ss

c: Wailani Drilling, Inc.
## Commission on Water Resource Management

**Route Slip for New Applications**

**From:** CHARLEY

**Date:** 6-Dec-02

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

**INIT:**
- LUM, A.
- NAKAMA, L.
- NAKANO, D.
- NISHIOKA, L.
- OHYE, M.
- SAKODA, E.
- SUBIA, S.
- SWANSON, S.
- UYENO, D.
- YODA, K.

**FOR:**
- Approval
- Signature
- Information

**PLEASE:**
- See Me
- Review & Comment
- Take Action
- Type Draft acknow letter
- Type Final, label new file folder
- File
- Xerox copies

**WELL NUMBER:** 5517-03

**WELL NAME:** Haiku Summit Trade X 2

**PUMP INSTALLATION**

**ATTACHMENTS FOR APPLICATION PROCESSING:** Both applicant & staff generated

1. TRANS. LETTER
2. CWRM MAP
3. APPL. FORM (3X)
4. USGS MAPS (3X)
5. TAX MAPS (3X)
6. PARCEL OWNER VERIF. — MLS PRINTOUT
7. CONTRACTOR VERIF. — DCCA LICENSE SCREEN PRINTOUT
8. ALL INFO FILLED IN
9. BACKGROUND CHECK

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

**INCOMPLETE ACTION DATES:**

<table>
<thead>
<tr>
<th>DATE</th>
<th>ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/6/03</td>
<td>Did we respond to Well yet? (11/27/02 received).</td>
</tr>
<tr>
<td></td>
<td>It should be addressed in the letter.</td>
</tr>
<tr>
<td></td>
<td>PPA 7/10/03</td>
</tr>
</tbody>
</table>

---

**Notes:**

- [Handwritten note]: "7/10/03"
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
APPLICATION FOR PERMIT

□ Well Construction and/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 821, Honolulu, Hawaii 96809. Application must be accompanied by 3 copies and a non-refundable filing fee of $250 payable to the State of Land and Natural Resources. The Commission shall not accept incomplete applications. For additional information, call the Regulation Branch at 808-644-2225. For further information and updates to this application form, visit http://www.state.hi.us/dlnr/cww.

APPLICANT INFORMATION: (Fill out all three, if applicable, and place a check next to the primary contact)
1. (a) □ WELL OWNER: Stream Resources Inc Contact Person: Eric Bryant Phone: 808/573-9983
Mailing Address: c/o 2149 West Cascade St # 238, Haiku, HI 96708
Fax: 
E-mail: 
(b) □ LAND OWNER: Stream Resources Inc Contact Person: Eric Bryant Phone: 808/573-9983
Mailing Address: 
Fax: 
E-mail: 
(c) □ CONTRACTOR: Weilani Drilling Contact Person: Mike Robertson Phone: 808/572-2673
Mailing Address: 655 Kaliko Rd Haiku, HI 96708
Fax: 808/572-0925
E-mail: Weilani Drilling

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

2. WELL NAME: Ha'iku Summit Trade Drilling Island:
Address: Ululani taxes Map Key: 2 8 3
Zone: Exp Plat: 6
Attach the relevant portion of (a) a 7.5-minute BLM USGS Topographic map (scale 1:24,000) and include the name of the map, and (b) a property tax map, showing well location referenced to established property boundaries.

3. PROPOSED WORK: (check all that apply)
□ Construct New Well
□ Modify Existing Well
□ Abandon/Seal*
*State Well No.: 551703

4. CONSTRUCTION:
□ Drilled
□ Dug
□ Shaft
□ Tunnel
Is this well part of a battery of wells? □ Yes □ No (Please describe)

5. PROPOSED PUMP INFORMATION: Rated Pump Capacity: ___________ gallons per minute
Pump Type (Check one):
□ Deep Well Turbine
□ Submersible 2 HP
□ Centrifugal
□ Propeller
□ Rotary-Displacement
□ Rotary-Gear
□ Reciprocating
□ Impulse

6. PROPOSED USE: (check all that apply)
□ Municipal (Including hotels, stores, etc.)
□ Industrial
□ Domestic (Individual, noncommercial water system)
□ Irrigation (crop)
□ Military
Does this well serve 25 or more people at least 80 days per year or have 15 or more service connections? □ Yes □ No
□ Other (explain):

7. PROPOSED AMOUNT OF WITHDRAWAL:
(a) Proposed Amount of Withdrawal: 10,000 gallons per day
(b) Method of Flow Measurement:
□ Flowmeter □ Open pipe □ Weir □ Orifice □ Other (explain)

8. LEGAL REQUIREMENTS:
□ CDUP □ SMAP □ EIS □ EA □ None

9. REMARKS, EXPLANATIONS:

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 60 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of vaduminal well rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

For official use only:
Latitude ______ Aquifer System No. __________
Longitude ______ State Well No. ______

Date: 11/18/02 Date: 11/18/02 Date: 11/18/02

For official use only
**10. PROPOSED WELL SECTION**

(Attach schematic if different from diagram provided below)

- **Elevation at top of casing:** 3% of elevation
- **Cement Grout:** 2.7 to 1 ft (min. 75% of distance from ground elevation to top of water surface or 600 ft, whichever is less.)
- **Annular space between hole and casing (min. 3")**
- **Root of General Placing:** 1/2 ft.
- **Estimated Water Level:** 3.96 ft.
- **Solid Casing:** (290% x (Ground Elev. - Water Elev.))
  - **Total Length:** 396 ft.
  - **Nominal Diameter:** 6 in.
  - **Wall Thickness:** 2.5 in.
  - **Bottom Elevation:** 39.04 ft.

---

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

Bottom Elevation of Well Limit = (Water Elevation - 1/4 Water Level Elevation)

**Example:** Estimated elevation + 2 ft. Water Level Elev. = Bottom Elevation of Well Limit = (39.04 ft.)

---

**Solid Casing Material:**
- Carbon Steel: compliant with (check one or more):
  - ANSI/AWWA C200
  - API Spec. 5L
  - ASTM A53
  - ASTM A106
- And compliant with (check one or more):
  - ASTM A252
  - Type E
  - Type B
  - Grade B
  - Other

**Open Casing Material:**
- Carbon Steel: compliant with (check one or more):
  - ANSI/AWWA C200
  - API Spec. 5L
  - ASTM A53
  - ASTM A106
- And compliant with (check one or more):
  - ASTM A252
  - Type E
  - Type B
  - Grade B
  - Other

---

**API Spec. 5L**

- **Open Casing:**
  - **Total Length:** 20 ft.
  - **Nominal Diameter:** 6 in.
  - **Wall Thickness:** 2.5 in.
  - **Bottom Elevation:** 39.04 ft.

**Note:** Another barrier should be used in saturated zone during drilling.

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**Additional Notes:**
- 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/Water Abatement reports and referenced to a benchmark which has been established by a surveyor licensed by the State.
1. State Well No.: 5617-03  
   Well Name: Ha'iku-Summit Trade  
   Island: Maui  
2. Address: Ulumalu, Makawao  
   Tax Map Key: 2-8-3:6  
3. Drilling Company: WAIKANI DRILLING  
4. Drilling method used during construction:  
   □ Rotary  □ Percussion  □ Other (describe)  
5. Date Well Construction (drilled, cased, grouted) completed: 1/24/02  
   Attach Driller's Log (7/26/99 DL Form)  
   In addition to the driller's log, if a geologic log was prepared, please submit with this form.  
6. Was the subject well cored?  
   □ Yes  □ No  
7. Initial water-level encountered 380 ft. below ground  
   Date and time of measurement: 1/21/02  
8. Step-Drawdown Test completed?  
   □ No  □ Yes  
   Attach Step-Drawdown Test form (12/17/97 SDPTD Form)  
9. Constant Rate Aquifer Test completed?  
   □ No  □ Yes  
   Attach Constant Rate Aquifer Test form (12/17/97 CRPTD Form)  
10. Water-level: 3.96 ft. above msl  
    Date and time of measurement: 1/24/02  
11. Chloride: N/A ppm  
    Date and time of sampling:  
12. Temperature: N/A °F  
    Date and time of measurement:  
13. Fill in the as-built section on the other side of this sheet.  
15. If a pump is not planned to be installed, please describe (below in the remarks section) how well is secured to prevent unauthorized access (example: lockable cover, threaded coupling, etc.)  
16. Remarks: WELL WAS DRILLED ON VACANT PARCEL FOR FUTURE USE UNTIL THEN WELL TO BE CONSIDERED A MONITOR WELL. SEE ATTACHED LETTER TO WELL OWNER. WELL HEAD CAPPED & SEALED  

---

Licensed Driller (print)  
Mike Robertson  
C-57 Lic. No. 20115  
Signature  
Mike Robertson  
Date 8/15/02  

Surveyor (print)  
See Swacer  
L.P.L.S. Lic. No.  
Signature  
Date  

Permittee (print)  
By F. Ray and President  
Signature  
Date 8/18/02
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:**
- 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

Please refer to the HAWAII WELL CONSTRUCTION AND PUMP INSTALLATION STANDARDS to ensure that your as-built is in compliance with applicable standards.
<table>
<thead>
<tr>
<th>Depths (ft.)</th>
<th>Rock Description, Water Level, etc.</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 80</td>
<td>Brown Clay</td>
<td>1/17/02</td>
</tr>
<tr>
<td>80 to 115</td>
<td>Tan Rock</td>
<td>1/17/02</td>
</tr>
<tr>
<td>115 to 135</td>
<td>Blue Rock</td>
<td></td>
</tr>
<tr>
<td>135 to 145</td>
<td>Tan Rock</td>
<td></td>
</tr>
<tr>
<td>145 to 250</td>
<td>Blue Rock</td>
<td>1/18/02</td>
</tr>
<tr>
<td>250 to 260</td>
<td>Tan Rock</td>
<td></td>
</tr>
<tr>
<td>260 to 315</td>
<td>Tan Rock w/Blue Rock</td>
<td></td>
</tr>
<tr>
<td>315 to 345</td>
<td>Blue Rock</td>
<td></td>
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<tr>
<td>345 to 405</td>
<td>Dense Blue Rock</td>
<td>1/21/02</td>
</tr>
<tr>
<td>405 to 425</td>
<td>Soft Blue Rock</td>
<td></td>
</tr>
<tr>
<td>425 to</td>
<td>Soft AA</td>
<td></td>
</tr>
</tbody>
</table>

Remarks:
# State of Hawaii
## COMMISSION ON WATER RESOURCE MANAGEMENT
### Department of Land and Natural Resources
#### APPLICATION FOR PERMIT

- **Well Construction and/or Pump Installation**
- **For Official Use Only:**
  - **RECEIVED**
  - **COMMISSION ON WATER RESOURCE MANAGEMENT**
  - **Department of Land and Natural Resources**

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

1. (a) **WELL OWNER:**
   - Company: Stream Resources Inc
   - Contact Person: Eric Bryant
   - Phone: 808/573-4983
   - Mailing Address: 501 2149 West Cascade St # 238, Hood River, OR 97031
   - Fax: 
   - E-mail: 

2. (b) **LAND OWNER:**
   - Company: Stream Resources Inc
   - Contact Person: Eric Bryant
   - Phone: 808/573-4983
   - Mailing Address: (Same)
   - Fax: 
   - E-mail: 

3. (c) **CONTRACTOR:**
   - Company: Wailea Drilling
   - Contact Person: Mike Robertson
   - Phone: 808/572-2413
   - Mailing Address: 655 Kulike Rd Haiku, HI 96708
   - Fax: 808/572-0925
   - E-mail: Wailea Drilling

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

1. **WELL NAME:** Haiku - Summit Trade 12
2. **Address:** Maui
3. **Tax Map Key:** Zone: 2, 8, 3, 6
4. **Attach the relevant portion of (a) a 7.5-minute Series O338 topographic map (scale 1:24,000) and include the name of the quad map, and (b) a property tax map, showing well location referenced to established property boundaries.**

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

### State Well No.:
0675-07-03

### CONSTRUCTION:
- Drilled
- □ Dog
- □ Shaft
- □ Tunnel
- Is this well part of a battery of wells? □ Yes □ No (Please describe)

### PROPOSED PUMP INFORMATION:
Rated Pump Capacity: 15 gallons per minute

- [ ] Deep Well Turbine
- [ ] Rotary
- [ ] Impulse
- [ ] Reciprocating
- [ ] Centrifugal
- [ ] Propeller

### PROPOSED USE:
(check all that apply)
- [ ] Municipal (Including hotels, stores, etc.)
- [ ] Domestic (Individual, noncommercial water system)
- [ ] Irrigation (crop)
- [ ] Industrial
- □ Other (explain): Hardwood Trees

### PROPOSED AMOUNT OF WITHDRAWAL:
10,000 gallons per day

### METHOD OF FLOW MEASUREMENT:
- [ ] Flowmeter
- [ ] Open-pipe
- [ ] Weir
- [ ] Office
- □ Other (explain):

### OTHER IMPORTANT INFORMATION:

### LEGAL REQUIREMENTS:
- □ CDUP
- □ SNAP
- □ IS
- □ EA

### REMARKS, EXPLANATIONS:

---

For official use only
- Aquifer System No.
- Latitude
- Longitude
- State Well No.

---

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 60 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) each approval shall not constitute a determination of complete water rights and shall not guarantee the pump capacity or take into account water rights or use up to the permitted pump capacity.
10. PROPOSED WELL SECTION (Please attach schematic if different from diagram provided below)

For non-salt water Basin Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or,
Bottom Elevation of Well Limit = (Water Elevation - 1/4 Water Level Elevations )

Example: Estimated = 2 ft. Water Level Elev. - Bottom Elevation of Well Limit = (2 - 1/4) = 1.5 ft.

Solid Casing Material:
- Carbon Steel: compliant with (check one or more): • ANSI/WWWA C200 • API Spec. SL • ASTM A53 □ ASTM A 139
- Stainless Steel: (check one): □ ASTM A403 (production welds) □ ASTM A312 (water well)
- ABS Plastic conforming to ASTM F490 and ASTM D1827: (check one): □ Schedule 40 □ Schedule 80 □ Schedule 120
- PVC Plastic conforming to ASTM F490 and ASTM D1785 or ASTM D2241: (check one): □ Schedule 40 □ Schedule 80 □ Schedule 120
- Thermoplastic: (check one): □ Fiberglass Reinforced Plastic Pipe conforming to ASTM D2999 □ Glass Fiber Reinforced Plastic Pipe conforming to AWWA C900
- PTFE Fluorocarbon Tubing conforming to ASTM D3299

Open Casing Material:
- Carbon Steel: compliant with (check one or more): • ANSI/WWWA C200 • API Spec. SL • ASTM A53 □ ASTM A139
- Stainless Steel: (check one): □ ASTM A403 (production welds) □ ASTM A312 (water well)
- ABS Plastic conforming to ASTM F490 and ASTM D1827: (check one): □ Schedule 40 □ Schedule 80 □ Schedule 120
- PVC Plastic conforming to ASTM F490 and ASTM D1785 or ASTM D2241: (check one): □ Schedule 40 □ Schedule 80 □ Schedule 120
- Thermoplastic: (check one): □ Fiberglass Reinforced Plastic Pipe conforming to ASTM D2999 □ Glass Fiber Reinforced Plastic Pipe conforming to AWWA C900
- PTFE Fluorocarbon Tubing conforming to ASTM D3299

For additional information regarding well construction and pump installation standards, please refer to the following:

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

* Note: Neither barstock nor mtd should be used in saturated zone during drilling.
STATE OF HAWAI'I
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
APPLICATION FOR PERMIT

1. (a) WELL OWNER: (Check all that apply)
   - ( ) Landowner: Stream Resources Inc.
   - ( ) Contractor: Uailani Drilling
   Contact Person: Eric Bryant
   Phone: 808/573-4983
   Mailing Address: 2149 West Cascade St #238, Honolulu, HI 96816
   Fax: E-mail:

   (b) LAND OWNER: (Check all that apply)
   - ( ) Landowner: Stream Resources Inc.
   Contact Person: Eric Bryant
   Phone: 808/573-4983
   Mailing Address: 2149 West Cascade St #238, Honolulu, HI 96816
   Fax: E-mail:

   (c) CONTRACTOR: (Check all that apply)
   - ( ) Contractor: Uailani Drilling
   Contact Person: Mike Robertson
   Phone: 808/573-4983
   Mailing Address: 655 Kulike Rd, Haiku, HI 96708
   Fax: 808/572-0925
   E-mail: UailaniDrillingInc@Gmail.com

2. WELL NAME: (Check all that apply)
   - ( ) Maui
   - ( ) (Check all that apply)
   Address: Uailani Drilling
   Tax Map Key: 2-8-3-6

3. PROPOSED WORK: (Check all that apply)
   - ( ) Construct New Well
   - ( ) Modify Existing Well
   - ( ) Abandon/Seal Well

   State Well No.: 5617-01

4. CONSTRUCTION: (Check all that apply)
   - ( ) Drilled
   - ( ) Dog
   - ( ) Shaft
   - ( ) Tunnel

5. PROPOSED PUMP INFORMATION: (Check all that apply)
   - ( ) Deep Well Turbine
   - ( ) Submersible 2 HP
   - ( ) Centrifugal
   - ( ) Rotary
   - ( ) Impulse
   - ( ) Rotary-Displacement
   - ( ) Propeller

   Rated Pump Capacity: 15 gallons per minute

6. PROPOSED USE: (Check all that apply)
   - ( ) Industrial
   - ( ) Domestic (individual, non-commercial water system)
   - ( ) Municipal (including hotels, stores, etc.)
   - ( ) Irrigation (crop)
   - ( ) Other (explain):

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

   No. of Acres: 10

7. (a) PROPOSED AMOUNT OF WITHDRAWAL: 10,000 gallons per day

8. OTHER IMPORTANT INFORMATION:
   (Check all that apply)
   - ( ) COUP
   - ( ) SMI
   - ( ) EIR
   - ( ) EA
   - ( ) Other (explain):

9. 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 80 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 established well rights and shall not guarantee the pump capacity or usage dates of the permitted pump capacity; 5) all work must be performed in accordance with approved methods of well construction and materials.

   Without prejudice, the contractor shall be responsible for all permitted water use and must ensure that the water use is consistent with the approved use and does not exceed the permitted pump capacity.

   Date: 11/18/02
   Signature: Mike Robertson
   For official use only, Aquifer System No. State Well No.

   Latitude
   Longitude
FILE 5024
August 16, 2002

Stream Resources, Inc.
2149 West Cascade Street, Suite 106-A
Hood River, Oregon 97013

Re: Well Elevation
Situate on Lot 3
Large-Lot Subdivision
TMK: 2nd, 2-8-03:06

This is to certify that the elevation of the well with the respective coordinates location from Triangulation "KAPUAI" as established by reciprocal trigonometric leveling from Triangulation Station "KULOLI" are as follows:

Elevation
386.96 MSL (TLG)

Coordinates from "KAPUAI"
North 10,277.61 Feet
West 4,543.37 Feet

If you have any questions, please give me a call.

Wailuku, Maui, Hawaii

Edgardo V. Valera
Licensed Professional Land Surveyor
State of Hawaii Certificate No. 5024

EVV: asv
FILE: 5024
August 16, 2002

Stream Resources, Inc.
2149 West Cascade Street, Suite 106-A
Hood River, Oregon 97013

Re: Well Elevation
Situate on Lot 3
Large-Lot Subdivision
TMK: 2nd, 2-8-03:06

This is to certify that the elevation of the well with the respective coordinates location from Triangulation "KAPUAI" as established by reciprocal trigonometric leveling from Triangulation Station "KULOLI" are as follows:

Elevation Coordinates from "KAPUAI"

386.96 MSL (TOC) North 10,277.61 Feet
West 4,543.37 Feet

If you have any questions, please give me a call.

Wailuku, Maui, Hawaii

Edgardo V. Valera
Licensed Professional Land Surveyor
State of Hawaii Certificate No. 6076

EVV: asv
Return Receipt Fax Memo

For: Charlie Ice

Charlie. Enclosed are the following items:

- Signed Well Construction Permits for Haiku Summit Trade Wells # 5617-01 and 5517-03
- Letter of intent to start construction.

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

From: Bill Steele

Re:

Thank you:
Mike Robertson
Dear Charlie:

This is to provide written notice for starting work on the following wells:

Haiku - Summit Trade Wells 1 & 2 Well 5617-01 & 5517-03

Wailani Drilling has been contracted to drill and case wells only not test pump the wells or install pumps. These wells are being drilled for use in the distant future and will probably not have pumps installed for at least a year. Owner is at least one year out on developing his electrical power system.

Owner also wants to take advantage of the declaratory ruling #DEC-ADM98-G5 because proposed pumps are rated less than 70 g.p.m.

Please fax a response to me to confirm.

Thank You:

Mike Robertson
dba Wailani Drilling Inc.
WELL CONSTRUCTION PERMIT
Hā'iku - Summit Trade Wells 1 & 2, Well No. 5617-01 & 5517-03

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 Hā'iku - Summit Trade Wells 1 & 2 (Well No. 5617-01 & 5517-03) at Ulumalu, Makawao, Maui, TMK 2-8-3 & 6, 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 96806, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.

2. The well construction permit shall be for construction and testing of the well only. A minimum 1 1/4-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee, well operator, and/or well owner shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a pumping test worksheet is attached). The permittee, well operator, and/or well owner shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump and withdraw water for use. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson.

3. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson.

4. The permittee, well operator, and/or well owner shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.

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

6. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of correlative water rights.

7. The following shall be submitted to the Chairperson within sixty (60) days after completion of work:
   b. Elevation (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; HWCPS). If the HWCPS 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: July 10, 2001
Expiration Date: July 10, 2003

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 the driller has 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: 7/10/01
Printed Name: Ronald Louxhill Vuc Pas
Firm or Title: Summit Trade, Inc.

Driller's Signature: ___________________________ Date: 8/3/01
Printed Name: Mike Robertson
Firm or Title: Wadron Drilling Inc.

C-57 License #: 2015

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

Attachment:

USGS
Department of Health's Safe Drinking Water, Wastewater, and Clean Water Branches
Mau Department of Water Supply
Wadron Drilling Company
WELL CONSTRUCTION PERMIT

Ha'iku - Summit Trade Wells 1 & 2, Well No. 5617-01 & 5517-03

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 Ha'iku - Summit Trade Wells 1 & 2 (Well No. 5617-01 & 5517-03) at Ulumalu, Makawao, Maui, TMK 2-8-3:3 & 6, 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 shall be allowed to inspect installation activities in accordance with §13-158-15, Hawaii Administrative Rules.

2. The well construction permit shall be for construction and testing of the well only. A minimum 1/4-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee, well operator, and/or well owner shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a pump testing worksheet is attached). The permittee, well operator, and/or well owner shall submit to the Chairperson the results on a basis that supports 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, ft) 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 termination 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 the permittee, well operator, and/or well owner must apply for a well abandonment permit in accordance with §13-168-120 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: July 10, 2001
Expiration Date: July 10, 2003

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

Permittee's Signature: [Signature]
Date: 7/15/01
Printed Name: Frank Howell, Vice Pres
Firm or Title: Summit Trade Inc

Driller's Signature: [Signature]
Date: 8/20/01
Printed Name: Mike Robertson
C-57 License #: 2015
Firm or Title: Wailani Drilling Inc

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 Main Department of Water Supply Wailani Drilling Company
Ronald Lowell, Vice-President
Summit Trade, Inc.
2149 W. Cascade Street 238
Hood River OR 97031

Dear Mr. Lowell:

Well Construction Permit Applications
Ha'iku-Summit Trade Wells (Well Nos. 5617-01 & 5517-03)

Thank you for your letter of June 18, 2001, concerning unfinished business of the well drilling contractor and the preferred name for the wells.

The paragraph concerning unfinished business refers to your proposed driller's reporting record. The driller in question, Wailani Drilling Company (License Number C-20115), does a large number of wells on Maui, and is in progress on several wells at any one time. From time to time, the contractor may be remiss on specific details, and our best control is to require all documentation to be completely up-to-date before approving a next step for any particular well. In practice, the details are usually brought up-to-date before it has an appreciable effect on other projects, such as delays or violations that potentially incur fines of up to $1000 per day.

Thus, we are waiting on outstanding matters with this driller and may not accept his signature on your permit. We do not wish to delay your permit or project; therefore, another driller may be used at your option.

You are correct in understanding that no work on well construction should be done prior to permits being issued, signed by both driller and permittee, and a copy returned for our files.

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

Sincerely,

LINNEL T. NISHIOKA
Deputy Director

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This information has been supplied by third parties and has not been independently verified by Hawaii Information Service and is, therefore, not guaranteed.
FROM: CHARLEY  
DATE: 10 JULY 01  
SUSPENSE DATE:  

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WELL NUMBER 5517-03  
WELL NAME Ha'iku Summit Trade 2  

WELL CONSTRUCTION  

ATTACHMENTS FOR WELL CONSTRUCTION PERMIT:  
1 COVER LETTER  
2 PERMIT (2x)  
3 PUMP TEST  
4 DOH COMMENTS  
5 LAND DIV. COMMENTS  
6 WCR FORM  

TO BE SENT TO APPLICANT  

FOR OFFICE USE ONLY  

PUMP INSTALLATION  

ATTACHMENTS FOR PUMP INSTALLATION PERMIT:  
1 COVER LETTER  
2 PERMIT (2x)  
3 DOH COMMENTS  
4 LAND DIV. COMMENTS  
5 WCR FORM  
6 WUR FORM  

TO BE SENT TO APPLICANT  

FOR OFFICE USE ONLY
Mr. Ronald Lowell
Summit Trade, Inc.
2149 W. Cascade Street 238
Hood River, OR 97031

Dear Mr. Lowell:

Well Construction Permit

\textbf{Ha'iiku - Summit Trade Wells 1 & 2 (Well No. 5617-01 & 5517-03)}

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) that authorize well construction activities but excludes installation work for your permanent pump. As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 13:

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

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

If you qualify and wish to take advantage of this ruling, please include a written request to install the permanent pump prior to final pump installation permit issuance when you return to us your signed well construction permit.

Please sign and have the contractor sign both permit originals and return one for our files. Also, copies of the aquifer pump test worksheet and the well completion report form are enclosed for your use.

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

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

Aloha,

\textbf{GILBERT S. COLOMA-AGARAN}
Chairperson

Enclosures

\textbf{c. Wailani Drilling Company}
WELL CONSTRUCTION PERMIT

Ha'iku - Summit Trade Wells 1 & 2, Well No. 5617-01 & 5517-03

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 Ha'iku - Summit Trade Wells 1 & 2 (Well No. 5617-01 & 5517-03) at Ulumalu, Makawao, Maui, TMK 2-8-3 & 6, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

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

Date of Approval: July 10, 2001
Expiration Date: July 10, 2003

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
Maui Department of Water Supply
Waikani Drilling Company
A septic tank file has been found and the following information is provided. In general, the Department of Health has reviewed and approved of the plans based on the information submitted as verification that a treatment individual wastewater system (IWS) such as a septic tank was constructed and authorized to be used for wastewater disposal from a building/dwelling.

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<td>Applicant Name</td>
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| Submit Plan Date         | 2-8-2000              |
| Plan Approval Date       | 2-10-2000             |
| Inspection Date          | 10-6-2000             |
| System Approved for Use Date | 11-3-2000         |

| System Disposal Via      | Septic tank           |
| # of Bedrooms            |                       |

as of July 5, 2001

For further information, you may call our neighbor island engineers:

[ ] Mr. Joe Tateyama of the Wastewater Branch at the Kauai District Health Office at telephone 241-3323

☑ Mr. Roland Tejano of the Wastewater Branch at the Maui District Health Office at telephone 984-8232.
A septic tank file has been found and the following information is provided. In general, the Department of Health has reviewed and approved of the plans based on the information submitted as verification that a treatment individual wastewater system (IWS) such as a septic tank was constructed and authorized to be used for wastewater disposal from a building/dwelling.

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</tbody>
</table>

For further information, you may call our neighbor island engineers:

- [ ] Mr. Joe Tateyama of the Wastewater Branch at the Kauai District Health Office at telephone 241-3323
- [X] Mr. Roland Tejano of the Wastewater Branch at the Maui District Health Office at telephone 984-8232.
Date: JULY 5, 2001

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

Attention: Commission Staff Member
Charley Ice

From: Wastewater Branch
Department of Health
State of Hawaii

Attention: Lori Kajiwara, Planner, Planning Design Section
Phone (808) 586-4294 Fax (808) 586-4300
Email: Lkajiwara@eha.health.state.hi.us

---

- did not receive any hardcopy documentation.
- per telephone conversation 7/3
- hope this is helpful.

Aloha,
Charley Ice
### SECTION 1: WELL LOCATION INFORMATION

<table>
<thead>
<tr>
<th>Island</th>
<th>MAUl</th>
<th>Proposed Use</th>
<th>Domestic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquifer System</td>
<td>KOOLAU</td>
<td>Proposed Withdrawal</td>
<td>0</td>
</tr>
<tr>
<td>Aquifer Sector</td>
<td>HAiku</td>
<td>System Sustainable Yield</td>
<td>31</td>
</tr>
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</table>

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

<table>
<thead>
<tr>
<th>Elevation at top of casing</th>
<th>ft., m.s.l.</th>
<th>Solid Casing</th>
<th>Material</th>
<th>Designation</th>
<th>Length</th>
<th>ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground Elevation</td>
<td>ft., m.s.l.</td>
<td>Cement Grout</td>
<td>ft.</td>
<td>Rock Packing</td>
<td>in.</td>
<td></td>
</tr>
<tr>
<td>Cement Grout</td>
<td>ft.</td>
<td>Hole Diameter</td>
<td>in.</td>
<td>Total Depth</td>
<td>ft.</td>
<td></td>
</tr>
<tr>
<td>Hole Diameter</td>
<td>in.</td>
<td>Estimated Head</td>
<td>ft.</td>
<td>Calculated Aquifer Thickness</td>
<td>164 ft.</td>
<td></td>
</tr>
<tr>
<td>Total Depth</td>
<td>ft.</td>
<td>County Water Supply (Y/N ?)</td>
<td>fl.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Well Depth**
- Theoretical Thickness of Aquifer: 164 ft.
- 1/4 Aquifer Thickness: 41 ft.
- Depth of Well below Sea Level: 30 ft. okay (refer to HWCPIS Section 2.2)

**Well Casing**
- Minimum Wall Thickness:
  - Material: Steel
  - County or Non-County: non-county
  - Minimum Thickness per standards: N/A in.
  - Well Thickness Provided: 0.280 in. N/A (refer to HWCPIS Section 2.4 c)
- Minimum Length of Solid Casing:
  - 90% of ground to top of aquifer: 419.4 ft.
  - Length of solid casing Provided: 451 ft. okay (refer to HWCPIS Section 2.4 d)
- Casing Material:
  - ASTM A53
  - okay (refer to HWCPIS Section 2.4 e)

**Annular Space**
- If the cell above reads N/A, reference HWCPIS

**Depth of Grouting**
- Calculated Depth of Grouting: 326.2 ft.
- Depth of Grouting provided: 400 ft. okay (refer to HWCPIS Section 2.6 c)
- Thickness of Annular Space: 3.25 in. okay (refer to HWCPIS Section 2.6 d)
<table>
<thead>
<tr>
<th>FROM: DEAN N.</th>
<th>DATE: JUN 22 2001</th>
<th>SUSPENSE DATE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>TO: BAUER, G.</td>
<td>INIT.</td>
<td>TO: KUNIMURA, I.</td>
</tr>
<tr>
<td>TO: CHING, F.</td>
<td></td>
<td>TO: NAKAMA, L.</td>
</tr>
<tr>
<td>TO: DANBARA, S.</td>
<td></td>
<td>TO: NAKANO, D.</td>
</tr>
<tr>
<td>TO: FUJII, N.</td>
<td></td>
<td>TO: NISHIOKA, L.</td>
</tr>
<tr>
<td>TO: HARDY, R.</td>
<td>R</td>
<td>TO: OHYE, M.</td>
</tr>
<tr>
<td>TO: HIGA, D.</td>
<td></td>
<td>TO: SAKODA, E.</td>
</tr>
<tr>
<td>TO: HIRANO, E.</td>
<td></td>
<td>TO: SUBIA, S.</td>
</tr>
<tr>
<td>TO: ICE, C.</td>
<td></td>
<td>TO: SWANSON, S.</td>
</tr>
<tr>
<td>TO: IMATA, R.</td>
<td></td>
<td>TO: UYENO, D.</td>
</tr>
<tr>
<td>TO: JINNAI, R.</td>
<td></td>
<td>TO: YODA, K.</td>
</tr>
</tbody>
</table>

**PLEASE:**
- Approval
- Signature
- Information

**FOR:**
- See Me
- Review & Comment
- Take Action
- Type Draft
- Type Final
- File
- Xerox copies

**PLEASE:**
- Approval
- Signature
- Information

**FOR:**
- See Me
- Review & Comment
- Take Action
- Type Draft
- Type Final
- File
- Xerox copies

---

**Notes:**
1. When were these "accepted"? May 7, 2001.
   - Need to inform them that M. Robertson has various items of concern - late reports, incomplete reports, etc., and they may face delays or even fines if they are made aware.
2. I hope it doesn't turn out to be unauthorized.
June 18, 2001

Linnel T. Nishioka
Deputy Director

Dear Linnel:

Thank you for your correspondence with regard to “Well Construction Permit Application for Well” No. 5617-01 and 5517-03. We also thank you for your acknowledgment of the receipt of our completed Well Construction permit application and filing fees dated May 7, 2001.

In order to prevent any error of law please help us in our reading and comprehending your letter dated June 5, 2001.

1. Please inform Summit Trade, Inc. within five days as to the nature of any “unfinished business” if it in any way specifically relates to the contract between Summit Trade, Inc. and the “Well Driller”. This will help us act appropriately and according to law.

2. In paragraph two of your letter you state:

"Please be aware that your proposed driller has unfinished business with the Water Commission, and it may have to be resolved before we can accept his signature on the final permit, and no work shall commence unless a copy of the permit has been fully signed by both permittee and driller."

We are going to assume, unless you let us know otherwise, that the only “work” you are referring to in this paragraph is regarding the “Well Construction Permit for Drilling and Testing Purposes” for Well No. 5617-01 and 5517-03.

3. Please correct your reference to “Ha‘iku-Bryant Wells” as the wells are managed by Summit Trade, Inc. and should be referred to as: “Ha‘iku-Summit Trade, Inc. Wells”.

4. To be certain that no unauthorized application was submitted to your office please provide a confirmation of the name of the “Well Driller” and/or the company who has made said application on behalf of Summit Trade, Inc.

5. Please keep a copy of this correspondence in your files for future reference.

Thank You,

Ronald Lowell
Vice President

Striving for Sustainable Concepts in Agricultural, Alternative Energy & Housing
TO:       Dean Y. Uchida, Administrator
           Land Division
FROM:     Linnel T. Nishioka, Deputy Director
           Commission on Water Resource Management
SUBJECT:  Well Construction Permit Applications
           Ha‘iku-Bryant Wells 1 & 2 (Well Nos. 5617-01 and 5517-03)

Transmitted for your review and comment is a copy of the captioned well application which
includes a request for a pump installation permit.

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

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.

\[ \text{Attachment(s)} \]

RESPONSE:

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

\[ \text{[x] A water lease/permit is \textbf{not} required of this applicant.} \]

\[ \text{[ ] A water lease/permit has been obtained by the applicant through lease no. \underline{\text{[blank]}}.} \]

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

\[ \text{[ ] No objections} \]

\[ \text{[x] Other comments: The original source of private title for both well sites is Land Commission Award No. 311, issued between 1845 and 1855.} \]

Contact Person:  Gary Martin  Phone:  587-0421

Signed:  Gary Martin  Date:  6/14/01
June 5, 2001

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

FROM: Gilbert S. Coloma-Agaran, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction Permit Applications
Ha’iku-Bryant Wells 1 & 2 (Well Nos. 5617-01 and 5517-03)

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 June 19, 2001.

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 Ige of the Commission staff at 587-0251.

C:ky
Attachment(s)

RESPONSE:

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

[ ] The well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and if the well 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 allowing all non-potable supplies with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

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

[ ] For the applicant’s information, a source of possible wastewater contamination [3a] is located near the proposed well site (information attached).

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

[ ] No comments/objections

Contact Person: Melvin J. Hamano
Phone: 586-4268

Signed: Melvin J. Hamano
Date: 6/12/01
Attached Comments for Well Drilling and Pump Installation Permit Applications. (Non-Submersible Pumps)

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

1. For Well-Drilling Activities

Any discharge to State waters of treated process wastewater effluent associated with well drilling activities is regulated by Hawaii Administrative Rules, Title 11, Chapter 55, Appendix I, effective September 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.
June 5, 2001

Mr. Ronald Lowell
Summit Trade, Inc.
c/o 2149 W. Cascade Street, #238
Hood River, OR 97031

Dear Mr. Lowell:

Well Construction Permit Applications for Well No. 5617-01 and 5517-03

We acknowledge receipt, on May 7, 2001, of your completed Well Construction permit applications and filing fees for the Ha'iku-Bryant Wells 1 & 2 (Well Nos. 5617-01 and 5517-03). You can expect your application to be processed within ninety (90) days from this date.

Please be aware that your proposed driller has unfinished business with the Water Commission, and it may have to be resolved before we can accept his signature on the final permit, and no work shall commence unless a copy of the permit has been fully signed by both permittee and driller.

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

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

Sincerely,

LINNEL T. NISHIOKA
Deputy Director

C:ky

c. Wailani Drilling Company
   Mr. Eric Bryant, Stream Resources
June 5, 2001

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

FROM: Gilbert S. Coloma-Agaran, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction Permit Applications
Ha'iku-Bryant Wells 1 & 2 (Well Nos. 5617-01 and 5517-03)

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 June 19, 2001.

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 (defined as serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-26.

[ ] 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.

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[ ] For the applicant's information, a source of possible wastewater contamination 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 Permit Applications
Ha'iku-Bryant Wells 1 & 2 (Well Nos. 5617-01 and 5517-03)

June 5, 2001

Transmitted for your review and comment is a copy of the captioned well application which includes a request for a pump installation permit.

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by June 19, 2001.

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: ______________

Signed: _____________________________ Date: _______________
<table>
<thead>
<tr>
<th>Taxkey</th>
<th>Subdiv/Condo-Apt</th>
<th>Tnr</th>
<th>Property Address</th>
<th>Owner/Lessee</th>
<th>Beds</th>
<th>Baths</th>
<th>Land area</th>
<th>Living area</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-2-8-3-6</td>
<td>Peahi</td>
<td>F</td>
<td></td>
<td>STREAM RESOURCES INC</td>
<td></td>
<td></td>
<td>372.46 ac</td>
<td></td>
</tr>
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</table>

This information has been supplied by third parties and has not been independently verified by Hawaii Information Service and is, therefore, not guaranteed.

<table>
<thead>
<tr>
<th>Taxkey</th>
<th>Subdiv/Condo-Apt</th>
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<th>Owner/Lessee</th>
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<th>Baths</th>
<th>Land area</th>
<th>Living area</th>
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</thead>
<tbody>
<tr>
<td>2-2-8-3-3</td>
<td>Peahi</td>
<td>F</td>
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<td>STREAM RESOURCES INC</td>
<td></td>
<td></td>
<td>7.65 ac</td>
<td></td>
</tr>
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</table>

This information has been supplied by third parties and has not been independently verified by Hawaii Information Service and is, therefore, not guaranteed.
### Well Background Check

<table>
<thead>
<tr>
<th>Approved Well No.</th>
<th>Well Name</th>
<th>Applicant</th>
<th>Driller</th>
<th>Type</th>
<th>Well Construction</th>
<th>Pump Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Issued</td>
<td>Signed</td>
</tr>
</tbody>
</table>

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**Thursday, May 10, 2001**
<table>
<thead>
<tr>
<th>Approved Well No.</th>
<th>Well Name</th>
<th>Applicant</th>
<th>Driller</th>
<th>Type</th>
<th>Well Construction</th>
<th>Pump Installation</th>
</tr>
</thead>
<tbody>
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<td>9/15/1999 10/15/1999 10/15/1999</td>
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</tr>
<tr>
<td>1/22/1999</td>
<td>Waiopai Haleakal</td>
<td>Haleakal Ranch [01]</td>
<td>C-20115</td>
<td>WELL</td>
<td>2/8/1999</td>
<td></td>
</tr>
</tbody>
</table>

Thursday, May 10, 2001
<table>
<thead>
<tr>
<th>Approved Well No.</th>
<th>Well Name</th>
<th>Applicant</th>
<th>Driller</th>
<th>Type</th>
<th>Well Construction</th>
<th>Pump Installation</th>
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<tr>
<td>2/15/2001</td>
<td>5313-03</td>
<td>Kailua-Kahui Pon Kahui Pono, LLC</td>
<td>C-20115</td>
<td>BOTH</td>
<td>2/23/2001</td>
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<tr>
<td>4/5/2001</td>
<td>5614-03</td>
<td>Honopou-Bathelt Friedrich Bathelt</td>
<td>C-20115</td>
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<td>4/12/2001</td>
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<tr>
<td>4/20/2001</td>
<td>5616-06</td>
<td>Manawai-Steele Bill Steele</td>
<td>C-20115</td>
<td>BOTH</td>
<td>4/24/2001</td>
<td></td>
</tr>
</tbody>
</table>
COMMISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR NEW APPLICATIONS

FROM: CHARLEY
DATE: 10-May-01
SUSPENSE DATE: 

TO: LUM, A. FOR: 3 Approval 3 Signature 4 Information
INIT. NAKANO, L.

TO: NAKANO, D.
INIT. NISHIOKA, L.

TO: OHYE, M.
INIT. SAIKODA, E.

TO: SUBIA, S.
INIT. SWANSON, S.

TO: UYENO, D.
INIT. YODA, K.

SEE ME: 

Please:
1 Review & Comment
2 Type Final, label new file folder
3 Type Draft acknow letter
4 File Xerox copies

WELL NUMBER 5517-03
WELL NAME Haiku-Bryant 1 & 2

Well Construction: No
Pump Installation: No
Both: 

Attachments for application processing:
1 Trans. Letter
2 CWRM Map
3 Appl. Form (3X)
4 USGS Maps (3X)
5 Tax Maps (3X)
6 Parcel Owner Verif.
7 Contractor Verif.
8 All Info Filled In
9 Background Check

Folder:
☐ Made new file folder, attached
☐ File folder already made, in file cabinet

Incomplete action dates:

Date Action

Note: Trust is responsible for completing and scheduling tasks.

Notes and comments:
1. Need to address 3926-10, 5620-03 status.
2. Need to verify Maui visas. I am responsible for proceeding w/o EPA (overlooked unchecked box @ WCR).
3. Same with Kīhei-Akeli (regardless of Maui's intentions or oversight).
4. This one and Front St. (Lahaina) installed w/o controllers (unattractive) until PIP issued.

Installed after issuance (OK)
Return Receipt Fax Memo

For: Charlie Ice

Charlie. Enclosed are the following items:

Well construction Permit applications 1 and 2 for Eric Bryant with 2 maps and 1 check each.

Pump Installation permit application for Maui Vista with check

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

From: Bill Steele

Thank you,
Mike Robertson
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
APPLICATION FOR PERMIT

1. (a) WELL OWNER: Summit Trade, Inc. Contact Person: Ronald Lowry
   Mailing Address: 1219 NW 114th St, Seattle, WA 98177
   Phone: (206) 567-9432
   Fax: 206-567-9433

2. WELL NAME: Haiku-Bryant Well No. 2
   Address: Haiku Highway-Haiku
   Tax Map Key: (2) 2 8 993 003
   Island: Maui

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

   *State Well No.: 3212 (If unknown, please call Commission at 808-587-0225)

4. CONSTRUCTION:
   - Drilled
   - Auger
   - Shaft
   - Tunnel
   Is this well part of a battery of wells? Yes/No
   (Please describe)

5. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: 3 gpm
   Pump Type (check one):
   - Deep Well Turbine
   - Rotary
   - Propeller
   - Submersible
   - Rotary-Displacement
   - Reciprocating
   - Centrifugal
   - Rotary-Gear
   - Impulse

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

7. (a) PROPOSED AMOUNT OF WITHDRAWAL:
   - Flowmeter
   - Open-pipe
   - Weir
   - Orifice
   - Other (explain)
   - Gallons per day

8. LEGAL REQUIREMENTS:
   - CDUP
   - SNAP
   - EIS
   - EA
   - None
   - Other (explain)

9. REMARKS, EXPLANATIONS:
   Well construction only - no pump proposed yet

For Official Use Only:

[Signature]
[Signature]

[Date]
[Date]
[Date]
10. PROPOSED WELL SECTION

**Solid Casing Material:**
- Carbon Steel (check one or more):
  - ANSI/AWWA C200
  - API Spec. 5L
  - ASTM A53
  - ASTM A139
- Steelless Steel (check one):
  - ASTM A409 (production welds)
  - ASTM A312 (mirror welds)
- Other

**Open Casing Material:**
- Carbon Steel (check one or more):
  - ANSI/AWWA C200
  - API Spec. 5L
  - ASTM A53
  - ASTM A139
- Steelless Steel (check one):
  - ASTM A409 (production welds)
  - ASTM A312 (mirror welds)
- Other

**Hole Diameter:** 12.5 in.
**Minimum of 2 feet radius & 4" thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft).**
**Ground Elevation:** 470 ft., mat.

**Solid Casing (≥ 90° x (Ground Elev.-Water Level Elev)):**
- Total Length: 45 ft.
- Nominal Diameter: 6 in.
- Wall Thickness: 0.35 in.
- Bottom Elevation: 30 ft., mat.

**Open Casing:**
- Perforated
- Screen
- Total Length: 8.0 ft.
- Nominal Diameter: 6 in.
- Wall Thickness: 0.35 in.
- Bottom Elevation: 30 ft., mat.

**Open Hole:**
- Length: 41 ft.
- Diameter: 12 in.
- Bottom Elevation: 41 ft., mat.

**Estimated Water Level Elev:** 4 ft., mat.

**Annular space between Hole and casing (min.32")**
- 2.00 X (Ground Elev.-Water Level Elev)

**Total Depth 500 ft.**

For non-salt water Basal Wells - Bottom elevation of well should not be deeper than 1/4 of aquifer thickness or,
Bottom Elevation of Well Limit = (Water Elevation - 4 ft. - Water Level Elev) / 4

Example: Estimated + 2 ft. Water Level Elev. → Bottom Elevation of Well Limit = (12.5 + 2) / 4 = 4 ft.

**Solid Casing Material:**
- Carbon Steel: preferably carbon steel (check one or more):
  - ANSI/AWWA C200
  - API Spec. 5L
  - ASTM A53
  - ASTM A139
- And compliant with (check one or more):
  - ASTM A409
  - ASTM A312
  - Grade B
  - Other

**Open Casing Material:**
- Carbon Steel (check one or more):
  - ANSI/AWWA C200
  - API Spec. 5L
  - ASTM A53
  - ASTM A139
- And compliant with (check one or more):
  - ASTM A409
  - ASTM A312
  - Type E
  - Type S
  - Grade B
  - Other

**Hole Diameter:**
- Nominal Diameter: 6 in.
- Wall Thickness: 0.35 in.
- Bottom Elevation: 30 ft., mat.

**Estimated Water Level Elev:**
- 4 ft., mat.

**Ground Elevation:**
- 470 ft., mat.

*The approximate elevation must be referenced to mean sea level (msl), at the time of application filing. Final elevations of well components shall be submitted in the Well Completion/Well Abandonment report to the Department of Health, along with a benchmark which has been established by a surveyor licensed by the State.*
**DEPARTMENT OF LAND AND NATURAL RESOURCES**

**UAC OR ATTACHED WORKSHEET**

**DATE:** JUN - 6 2001

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**REMARKS:**
- LINE (1) WCP Appl. for Well Nos. 5617-01 & 5517-03
- LINE **3** Bryant #1
- LINE **3** (2) WCP Appl. for Well Nos. 5617-01 & 5517-03
- LINE **3** Bryant #2