Assessed Values reflect tax year 2008.

Search criteria: TMK Taxkey 2-3-6-4-3

<table>
<thead>
<tr>
<th>Taxkey</th>
<th>Subdiv/Condo Tnr Address</th>
<th>Owner/Lessee Bds Bths</th>
<th>Land area Liv area</th>
<th>Last Sale Instr</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-3-6-4-3 Waikapu</td>
<td>HONOAPIILANI WAIKAPU HWY PROPERTIES LLC</td>
<td>0 0 657.19 ac</td>
<td>0 12/29/2006 QD $</td>
<td></td>
</tr>
</tbody>
</table>

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

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Assessed Values reflect tax year 2008.

Search criteria: TMK Taxkey 2-3-6-4-8

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<tr>
<th>Taxkey</th>
<th>Subdiv/Condo Tnr Address</th>
<th>Owner/Lessee</th>
<th>Bds</th>
<th>Bths</th>
<th>Land area</th>
<th>Liv area</th>
<th>Last Sale Instr</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-3-6-4-8</td>
<td>Waikapu</td>
<td>HONOAPIILANI TING III, ALLEN &amp; DONNA P</td>
<td>0</td>
<td>0</td>
<td>483.40 ac</td>
<td>0</td>
<td>1/14/2003 DEED $3</td>
</tr>
</tbody>
</table>

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

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Maalaea Properties, LLC, a Hawaii limited liability company
P.O. Box 1870
Manteca, California 95336

October 23, 2008

State of Hawaii
Department of Land & Natural Resources
Commission on Water Resource Management
Attention: Ed Sakota and Ken C. Kawahara

Gentlemen:

This is to provide notice to the Commission on Water Resource Management that Maalaea Properties, LLC intends to transfer to MVI, LLC, a Hawaii limited liability company whose address is P.O. Box 97, Kihei, Hawaii, 96753, three (3) improved wells with casings and existing fixtures relating to Pohakea Wells 1, 2 and 3-Well Nos. 4930-02 and 03 (Wells Nos. 2 and 3) and Well No. (4831-02) (Well No. 1) relating to Tax Map Key No.: (2) 3-6-004:003, Pohakea Wells 2 and 3 and TMK: (2) 3-6-004:08, Pohakea Wells No. 1. The transfers involve permits, appurtenances, and documentation concerning the same including the applications for well construction/pump installation permits and the personal property owned by Maalaea Properties, LLC appurtenant to the wells constructed at Well Fields 1, 2 and 3.

It is expected that the transfer of these assets by Maalaea Properties, LLC to MVI, LLC will occur within the next week.

If you have any questions, please do not hesitate to contact myself or attorney Paul R. Mancini at (808) 871-8351.

Very truly yours,

Larry V. Anderson, for
Maalaea Properties, LLC
Its: Manager

cc: B. Martin Luna, Esq.
Kim Smith, Esq.
Albert Boyce
Mike Atherton
Avery Chumbley
we cannot pretend too much precision, but the TH may be exactly at the turn of the estate and the corner of 3 adjacent parcels.
<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISLAND</td>
<td>AO</td>
</tr>
<tr>
<td>SOO</td>
<td>C65</td>
</tr>
<tr>
<td>LAT NAD27</td>
<td>1563101</td>
</tr>
<tr>
<td>LONG NAD27</td>
<td>204919</td>
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<tr>
<td>LAT NAD83</td>
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<td>LONG NAD83</td>
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<tr>
<td>UTM</td>
<td>06</td>
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<tr>
<td>TMX</td>
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<tr>
<td>WUP Access</td>
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**WELL NAME**

<table>
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<tr>
<th>Field</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>WELLNAME</td>
<td>4531-01</td>
</tr>
<tr>
<td>WELL OWNER</td>
<td>Near Puu Hele</td>
</tr>
<tr>
<td>WATER Use Reporter</td>
<td>Waikolu Sugar</td>
</tr>
<tr>
<td>DRILLER</td>
<td>JM HEIZER</td>
</tr>
<tr>
<td>SURVEYOR</td>
<td>Pump Installer</td>
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**WELL DATA**

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<thead>
<tr>
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<tbody>
<tr>
<td>WCR</td>
<td>1/1/1933</td>
</tr>
<tr>
<td>BURDEN</td>
<td>313</td>
</tr>
<tr>
<td>SOIL CORE</td>
<td>309</td>
</tr>
<tr>
<td>PERM</td>
<td>PERM</td>
</tr>
<tr>
<td>PUMP</td>
<td>PUMP</td>
</tr>
<tr>
<td>HEAD</td>
<td>7.0</td>
</tr>
<tr>
<td>TEST</td>
<td>TEST</td>
</tr>
<tr>
<td>SCOW</td>
<td>SCOW</td>
</tr>
<tr>
<td>DEPO</td>
<td>DEPO</td>
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**HISTORY**

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<tr>
<td>ROT</td>
<td>1933</td>
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<tr>
<td>WELL TYPE</td>
<td>WELL</td>
</tr>
<tr>
<td>Casing</td>
<td>1</td>
</tr>
<tr>
<td>Casing Dia</td>
<td>12</td>
</tr>
<tr>
<td>GEOLGY</td>
<td>PULP</td>
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<tr>
<td>TWL</td>
<td>150</td>
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**USE**

<table>
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<tr>
<td>USE PER</td>
<td>74</td>
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<tr>
<td>DATE</td>
<td>1/1/1940</td>
</tr>
<tr>
<td>INT</td>
<td>7</td>
</tr>
<tr>
<td>INT</td>
<td>6.5</td>
</tr>
<tr>
<td>CHL</td>
<td>60101</td>
</tr>
<tr>
<td>Ac</td>
<td>60</td>
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**INITIAL USE**

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<tbody>
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<tr>
<td>INT</td>
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<tr>
<td>CHL</td>
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<tr>
<td>Ac</td>
<td>60</td>
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**INT PER**

<table>
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<tbody>
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<td>INT PER</td>
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<tr>
<td>INT</td>
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<td>CHL</td>
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<tr>
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<td>60</td>
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## Well Check Program

4/1/04 - Revised for update to Well Standards (February 2004)

### Data Input

<table>
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<tr>
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<tr>
<td>Well Number</td>
<td>4930-01</td>
</tr>
<tr>
<td>Well Name</td>
<td>Pohakea</td>
</tr>
<tr>
<td>Ground Elevation</td>
<td>320</td>
</tr>
<tr>
<td>Cement Grout</td>
<td>300</td>
</tr>
<tr>
<td>Grouting Method</td>
<td>other</td>
</tr>
<tr>
<td>Hole Diameter</td>
<td>12.5</td>
</tr>
<tr>
<td>Total Depth</td>
<td>350</td>
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<tr>
<td>Estimated Head</td>
<td>7.4</td>
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<tr>
<td>Public Water Supply Well?</td>
<td>yes</td>
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<tr>
<td>Solid Casing Material</td>
<td>steel</td>
</tr>
<tr>
<td>Solid Casing Specification</td>
<td>ASTM A53</td>
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<tr>
<td>Solid Casing Length</td>
<td>330</td>
</tr>
<tr>
<td>Solid Casing Diameter</td>
<td>6</td>
</tr>
<tr>
<td>Solid Casing Wall Thickness</td>
<td>0.28</td>
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<tr>
<td>Open Casing Length</td>
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### Results

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<th>Requirement</th>
<th>Compliance</th>
<th>Reference</th>
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<tbody>
<tr>
<td>Well Depth</td>
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<td></td>
<td></td>
<td>Section 2.2</td>
</tr>
<tr>
<td>Theoretical Thickness of Aquifer</td>
<td>303.4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/4 Aquifer Thickness</td>
<td>75.85</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Depth of Well below Sea Level</td>
<td>-30</td>
<td>okay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Well Casing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum Wall Thickness</td>
<td></td>
<td>steel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum Wall Thickness per standards</td>
<td>0.28</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wall Thickness Provided</td>
<td>0.28</td>
<td>okay</td>
<td></td>
<td>Section 2.4(b)</td>
</tr>
<tr>
<td>Minimum Length of Solid Casing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>90% of ground to top of aquifer</td>
<td>281.34</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length of solid casing Provided</td>
<td>330</td>
<td>okay</td>
<td></td>
<td>Section 2.4(c)</td>
</tr>
<tr>
<td>Casing Material</td>
<td></td>
<td>ASTM A53</td>
<td>in compliance</td>
<td>Section 2.4(d)</td>
</tr>
<tr>
<td>(for pvc only - check for 200' limit)</td>
<td></td>
<td></td>
<td>okay</td>
<td>Section 2.4(d)</td>
</tr>
<tr>
<td>Annular Space</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depth of Grouting</td>
<td>218.82</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculated Depth of Grouting</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depth of Grouting provided</td>
<td>300</td>
<td>okay</td>
<td></td>
<td>Section 2.6(c)</td>
</tr>
<tr>
<td>Minimum Annular Space required</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thickness of Annular Space</td>
<td>3.25</td>
<td>okay</td>
<td></td>
<td>Section 2.6(d)</td>
</tr>
</tbody>
</table>
March 23, 2010

Mr. Jesse Spencer  
MVI, LLC  
P.O. Box 97  
Kihei, HI  96753  

Dear Mr. Spencer:  

Transfer of Well Ownership  
Pohakea Wells 1-3 (Well Nos. 4930-01 to 03)  

Thank you for transmitting the signed bill of sale and the assignment of easement for the three captioned wells by email on February 2 and February 8, 2010, respectively. Enclosed is the combined certificate of well construction and pump installation completion for these wells, and your water use reporting form.  

If you have any questions, please contact Charley Ice of our staff at (808) 587-0218, or toll free from Maui at 984-2400, extension 70218.  

Sincerely,  

KEN C. KAWAHARA, P.E.  
Deputy Director  

CC: Allen Ting
Mr. Jesse Spencer  
MVI, LLC  
P.O. Box 97  
Kihei, HI 96753  

Dear Mr. Spencer:

Combined Certificate of Well Construction and Pump Installation Completion for  
Well Nos. 4930-01 to 03 (TMK (2) 3-6-004:008 & 003)  

We are pleased to inform you that the Well Construction and Pump Installation work permitted  
for the Pohakea Wells 1-3 (Well No. 4930-01 to 03) is complete and acceptable and welcome you as a  
new member to the community of well owners and ground water users in Hawaii. This combined  
certificate allows you to commence pumping your well for reasonable & beneficial water use.

To protect Hawaii’s natural ground water resources for the benefit of all, the following  
requirements apply to the use of your well:

1. If the well is not in use it must be properly capped.

2. If the well is to be abandoned then the landowner must cause a licensed contractor to apply  
for a well abandonment permit in accordance with §13-168-12(f), HAR, prior to any well  
sealing or plugging work.

3. In the event that the well operator and/or landowner changes, the Commission shall be  
notified prior to the change.

4. In the event the benchmark in the concrete base of the well is altered in any way, an updated  
version of the Well Elevation page of the Well Completion Report Part I shall be submitted to  
the Commission. If a licensed surveyor had estimated the original benchmark elevation then  
a licensed surveyor must establish the new benchmark elevation. The Well Elevation portion  
of the Well Completion Report Part I can be obtained by contacting Commission staff or at  
our website at www.hawaii.gov/dlnr/cwrmlresources_permits.htm.

5. Your approved pump has a capacity of 300, 475, & 475 gpm at heads of 400, 415, & 415 ft.,  
respectively. In the future, pump replacements of equal or lesser capacity will not require an  
additional permit from the Commission, but will require the submission of a Well  
Completion Report Part II by the licensed pump installer. If the pump replacement is greater  
than the existing pump, you will need to apply for a new pump installation permit.
6. The landowner shall cause the well operator to maintain the installed 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 a monthly basis, on forms provided by the Chairperson (attached), in accordance with §13-168-7, HAR. Blank water use report forms are also available at www.hawaii.gov/dlnr/cwrmlresources_permits.htm

7. 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. The authorization to drill a well and/or install a pump shall not constitute a determination of correlative water rights. The landowner and well operator are notified that the quantity of water taken from the well and/or the pump capacity could be reduced by the Commission in the future.

Because ground water in Hawaii is a public trust, and adverse effects at one well may affect other water resources, any violation of the above conditions or any other provision of the Hawaii Administrative Rules may be subject to fines of up to $5,000 per day. The Commission needs your help and asks that you do your part in utilizing this shared resource. We prefer to work with you in meeting the goal of protecting our ground water resources together.

If you have any questions, please contact Charley Ice of the Commission staff at 587-0218 or toll-free at 984-2400 (Maui), extension 70255.

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

CI:ss

c: Maui Department of Water Supply
Wailani Drilling, Inc.
Allen Ting
Mr. Ice,

Charlie Kulesa walked the site today and he took photos of the area (using your coordinates) with a 50' radius. The area is at a 45 degree slope and, for that reason, he does not think that area contains a test hole. Charlie called Mike Robertson of Wailani Drilling and Mr. Robertson informed Charlie that the test hole was Well No. 1. The coordinates for Well No. 1 are listed below. If you have any questions, or if you need additional information, please call Charlie at (808) 250-7949.

Thank you,

Renona

----- Original Message ----- 
From: noreply@motionx.com
To: renona@spencerhomesmaui.com
Sent: Monday, March 22, 2010 11:27 AM
Subject: MotionX-GPS Waypoint: Wypt 001

Charlie uses MotionX-GPS on the iPhone 3G or 3GS and is sharing with you the following waypoint:

Comment: Renona@spencerhomesmaui.com

Name: Wypt 001
Date: Mar 22, 2010 11:26 am
Map: Google Maps
(iPhone/ iPod Map: Maps Application
Location:
Latitude: 20.819421° N
Longitude: 156.514086° W
Altitude: 456 ft
There are two files attached to this email:

"Wypt 001.kmz"
A Google KMZ waypoint that can be displayed in Google Earth or Google Maps

"Wypt 001.gpx"
An Open Standard waypoint that can be displayed by select mapping software

MotionX-GPS Commonly Asked Questions

1. What is MotionX-GPS?
MotionX-GPS is the essential GPS application for outdoor enthusiasts. It puts an easy-to-use, state-of-the-art handheld GPS on your iPhone 3G or 3GS.

2. Can I use MotionX-GPS?
Sure! MotionX-GPS can be downloaded from the iTunes App Store. Or try the free version, MotionX-GPS Lite.

3. How can I display waypoints in Google Earth?
Follow the directions on the Google Earth web site to download and install the Google Earth program. Save the attached "Wypt 001.kmz" file to your computer. Launch Google Earth, select File, Open, and open the saved "Wypt 001.kmz" file.

4. This email was forwarded to me. Where are the attachments?
Some e-mail programs do not include the original attachments by default when forwarding an e-mail. In this case, the sender must reattach the original files for them to be included.

Please contact MotionX customer support with any comments or questions.

All the best,

The MotionX Team
To "Renona" <renona@spencerhomesmaui.com>
cc
bcc
Subject: Re: Bill of Sale - Maalaea Wells

We are prepared to issue transfer of ownership as soon as we can get confirmation of what is on parcel 008 -- if anything, other than an easement.

19 Mar 10: Well 1 is on parcel 008.

19 Mar 10 also: photos of 4930-02 d-03 sent for work 2.
(showing flow meter installed after elbow)
work still to be done on check valve, control skid, etc.

sent: Lat/Long for TD 40 (4931-01) in close proximity but un
identified T/AK
Mr. Ice,

Will the attached Assignment of Easement suffice?

Renona

----- Original Message -----­
From: Charley.F.Ice@hawaii.gov
To: Renona
Sent: Monday, February 08, 2010 12:14 PM
Subject: Re: Fw: Maalaea Wells

Renona, the property TMK: (2) 3-6-004:008 under Pohakea 1 is owned by Allen and Donna Ting. We need their approval of the well transfer, too.

Charley Ice
Hydrologist
Hawaii Water Commission
1151 Punchbowl 227 Kalanimoku
P.O.Box 621, Honolulu 96809
(808) 587-0218

----- Original Message ----­
To: <Charley.F.Ice@hawaii.gov>
cc
bcc
Subject Re: Fw: Maalaea Wells

Mr. Ice,

Please send the certificates to MVI, LLC, P.O. Box 97, Kihei, Hawaii 96753. If you have any questions, please let me know.

Thank you,

Renona

----- Original Message ----­
From: Charley.F.Ice@hawaii.gov
To: Renona
Sent: Tuesday, February 02, 2010 9:35 AM
Subject: Re: Fw: Maalaea Wells

Thank you very much. I will send you the certificates, addressed to Mr (?) Jesse Spencer. The finalized transfer & certificate of three wells should be out this week.

"Renona" <renona@spencerhomesmaui.com>  To: "Charley Ice" <charley.f.ice@hawaii.gov>
02/02/2010 09:18 AM
cc
Subject Fw: Maalaea Wells

Mr. Ice,

I am re-sending this e-mail to you. Please confirm receipt.

Thank you,

Renona

----- Original Message ----- 
From: Renona
To: Charley Ice
Cc: Charles Kulesa
Sent: Tuesday, January 26, 2010 9:36 AM
Subject: Maalaea Wells

Mr. Ice,

Attached please find a Bill of Sale for your review. If you have any questions, or if you need additional documentation, please let me know.

Thank you,

Renona

[attachment "Bill of Sale for Maalaea Wells.pdf" deleted by Charley F Ice/DLNR/StateHiUS]

Assignment of Easement.pdf
ASSIGNMENT OF GRANT OF EASEMENT
FOR WATERLINE AND WELL PURPOSES

THIS ASSIGNMENT is made and entered into this 21st day of
OCT, 2008, by and between MAALAEA PROPERTIES, LLC, a
Hawaii limited liability company, whose address is P. O. Box
1870, Manteca, California 95336 (the "Assignor"), and MVI, LLC,
a Hawaii limited liability company, whose address is P. O. Box
97, Kihei, Hawaii 96753 (the "Assignee"),

RECITALS: Assignee is purchasing from Assignor that land
situate at Ukumehame, District of Lahaina, Island and County of
Maui, State of Hawaii, identified as Tax Map Key No. (2) 3-6-
001-018, being more particularly described on Exhibits "A" and
"R" attached hereto and made a part hereof (the "Property").
Assignor holds an easement for waterline and well purposes as
set forth in that certain Grant of Easement for Waterline and
Well Purposes dated Oct 21, 2008, recorded in the Bureau
of Conveyances of the State of Hawaii as Document No.
2008-163634 (the "Easement"), granted by Allen Ting, III
and Donna P. Ting, husband and wife (the "Tings"). The purpose of this Assignment is to transfer the Basement by Assignor to Assignee as part of, and to become effective upon, Assignor's transfer of legal title to the Property to Assignee.

ASSIGNMENT: For valuable consideration receipt of which is hereby acknowledged, Assignor hereby assigns and transfers to Assignee all of Assignor's right, title and interest in and to the Basement, upon the following terms and conditions:

1. Assignee hereby accepts this assignment and hereby assumes and agrees to perform all of Assignor's liabilities and obligations under the Basement which shall accrue and become due and payable (or performable) from and after the effective date of this assignment. Assignee agrees to indemnify, defend and hold harmless the Assignor from and against all claims, losses, liabilities and expenses, including attorney's fees, which Assignor may suffer or incur or which may be asserted against Assignor as a result of Assignee's failure to perform its obligations under the preceding sentence.

2. Assignor hereby warrants to Assignee that the Basement is in full force and effect and that Assignor is not in breach or default of any of its obligations to the Tings under the Basement. Assignor agrees to indemnify, defend and hold harmless the Assignee from and against all claims, losses, liabilities and expenses, including attorney's fees, which Assignee may suffer or incur or which may be asserted against Assignee as a result of Assignor's failure to perform its obligations under the preceding sentence.

3. This assignment shall become effective upon Assignor's transfer to Assignee of legal title to the Property.

The parties hereto agree that this instrument may be executed in counterparts, each of which shall be deemed an original, and said counterparts shall together constitute one and the same agreement, binding all of the parties hereto, notwithstanding all of the parties are not signatory to the original or the same counterparts. For all purposes, including, without limitation, recordation, filing and delivery of this instrument, duplicate unexecuted and unacknowledged pages of the counterparts may be discarded and the remaining pages assembled as one document.
The parties have executed this Assignment on the day and year first above written.

APPROVED AS TO FORM:
MANCINI, WELCH & GEIGER LLP

By Paul R. Mancini

MAALAEA PROPERTIES, LLC

By

LARRY W. ANDERSON
Its Manager

Assignor

MVI, LLC

By

Its

Assignee
On this 21st day of October, 2008, before me personally appeared LARRY W. ANDERSON, to me personally known, who, being by me duly sworn or affirmed, did say that such person(s) executed the foregoing instrument as the free act and deed of such person(s), and if applicable, in the capacities shown, having been duly authorized to execute such instrument in such capacities.

STATE OF HAWAII
COUNTY OF MAUI

Joan M. Takitani
Name: Joyce M. Takitani
Commission expires: 8/16/11
Public, State of Hawaii.

NOTARY PUBLIC CERTIFICATION
Joyce M. Takitani Second Circuit
Doc. Description: Assignment of Grant of Easement for Waterline and Well Purposes
No. of Pages: 13 Date of Doc. undated
Notary Signature Date

200803-16/10/20/08
Mr. Ice,

I am re-sending this e-mail to you. Please confirm receipt.

Thank you,

Renona

----- Original Message ----- 
From: Renona  
To: Charley Ice  
Cc: Charles Kulesa  
Sent: Tuesday, January 26, 2010 9:36 AM  
Subject: Maalaea Wells  

Mr. Ice,

Attached please find a Bill of Sale for your review. If you have any questions, or if you need additional documentation, please let me know.

Thank you,

Renona Bill of Sale for Maalaea Wells.pdf
BILL OF SALE

This Bill of Sale is made and effective as of October 23, 2008, by and between MAALAEA PROPERTIES, LLC, a Hawaii limited liability company, whose address is P. O. Box 1870, Manteca, California 95336 ("Maalaea"), and MVI, LLC, a Hawaii limited liability company, whose address is P. O. Box 97, Kihei, Hawaii 96753 ("MVI").

This Bill of Sale is made concurrently with and as an incident to the conveyance by Maalaea to MVI of an interest in certain lands in Waihee, Maui, Hawaii, as more specifically described in certain closing documents between the parties of even date or near even date herewith.

For valuable consideration, receipt of which is hereby acknowledged, Maalaea hereby sells, assigns, transfers and sets over to MVI all of Maalaea's right, title and interest in and to all of the items of tangible and intangible personal property which are described in Exhibit "A" attached hereto and made a part hereof.

MVI acknowledges and agrees that said items of personality are being conveyed by Maalaea to MVI in "as is" condition, with no express or implied warranties or representations with respect to the condition or value of such items of personality for the fitness of same for any particular use.

Maalaea hereby covenants with MVI that Maalaea has good right to sell and assign such items of personal property to MVI as set forth above and that said items have not been assigned or conveyed by Maalaea to any other party and are free and clear of all liens and encumbrances. With respect to each permit and agreement assigned hereby, Maalaea also covenants with MVI that to the best of Maalaea's knowledge after due inquiry:

(a) Maalaea has done no act in derogation of this assignment;

(b) All consents of third parties required for this assignment have been obtained; and all necessary actions have been taken to effect this assignment;

(c) Maalaea is not in default in its performance of any covenant or condition to be performed by Maalaea and Maalaea is not aware of any defaults or any facts
which may reasonably ripen into a default, up to the
date of this assignment under the terms of any such
permit or agreement.

IN WITNESS WHEREOF, Maalaea and MVI have executed this Bill
of Sale effective as of the day and year first above written.

APPROVED AS TO FORM:
MANCINI, WELCH & GEIGER LLP

By Paul R. Mancini

MAALAEA PROPERTIES, LLC

By

LARRY W. ANDERSON
Its Manager

By

WILLIAM S. FILIOS
Its Manager

"Maalaea"

MVI, LLC

By

Its

By

Its

"MVI"
which may reasonably ripen into a default, up to the
date of this assignment under the terms of any such
permit or agreement.

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By Paul R. Mancini

MAALAEA PROPERTIES, LLC

By ____________________________
LARRY W. ANDERSON
Its Manager

By ____________________________
WILLIAM S. FILIO
Its Manager

"Maalaea"

MVI, LLC

By ____________________________
Its Manager

By ____________________________
Its Manager

"MVI"
EXHIBIT "A"

1. Three Improved Wells, with castings and existing fixtures: Pohakea Wells 2 & 3 (Well Nos. 4930-02 & 03), located on TMK (2) 3-6-004:003, and Pohakea Well 1 located on TMK (2) 3-6-004:008.

2. Permits/Appurtenances/Documentation:
   a. Application for Well Construction/Pump Installation Permits for Well Fields Nos. 1, 2 and 3.
   b. Pump installation permits concerning Well Fields Nos. 1, 2 and 3.
   c. All records and documentation concerning Well Fields Nos. 1, 2 and 3.
   d. All personal property owned by Maalaea Properties LLC appurtenant to the wells constructed at Well Fields Nos. 1, 2 and 3, and all documentation concerning the same.

END OF EXHIBIT "A"
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<th>Bottom Perf Casing</th>
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**COMMISSION ON WATER RESOURCE MANAGEMENT**

FROM: ROY

TO: CHENG, C.
    CHING, F.
    CHONG, R.
    DANBABA, S.
    ENGLAND, D.
    FUJI, N.
    HARDY, R.
    HOAGBIN, S.
    ICE, C.
    IMATA, R.
    KAWAHARA, K.
    KIMURA, J.

DATE: JUL 22 2009

SUSPENSE DATE: _______________________

TO: KUNIMURA, I.
    MILLS, D.
    OHYE, L.
    OHYE, M.
    OSHIRO, K.
    SAKODA, E.
    SWANSON, S.
    TORRES, R.
    UYENO, D.
    YODA, K.
    YOSHINAGA, M.

INIT: _______________________

INIT: _______________________

FOR: Approval
     Signature
     Information

PLEASE: See Me
        Review & Comment
        Take Action
        Type Draft
        Type Final
        File
        Xerox ___ copies

---

*Keep in brief:* ✓
MEMO

TO: Charlie Ice  
Commission on Water Resource Management

FROM: Arnold Y. Imaye, Staff Planner  
Water Resources & Planning Division  
Department of Water Supply, County of Maui

RE: Verification of water quality and sustainability

A developer is proposing an affordable housing project on the southside of the Waikapu aquifer. Although they have not completed their preliminary engineering report with regard to water source, their current EISPN mentions three current wells: 1) Pohakea, Well No. 4930-01; 2) Pohakea 2, Well No. 4930-02; and 3) Pohakea 3, Well No. 4930-03. Can you please verify a brief history of these wells for chlorides, pumps, etc.

You will find attached, two figures that provide information on the tmk and the location of the project area.

Our fax number is (808) 244-6701, or can email me at Arnold.imaye@co.maui.hi.us.

Mahalo.
Figure 1

Proposed Ohana Kai Village Affordable Housing Project and Related Improvements
Regional Location Map

Prepared for: Spencer Homes, Inc.
Figure 5
Proposed Ohana Kai Village Affordable Housing Project and Related Improvements
Project Area Components

Key

- TMK (2) 3-6-001:018
- TMK (2) 3-6-004:003 (por.)
- Project District 12

Source: MAY Small, Inc.

Prepared for: Spencer Hasson, Inc.
COMMISSION ON WATER RESOURCE MANAGEMENT

FROM: Charley
DATE: 22 Dec 08

TO: IMATA, R.
TO: MILLS, D.
TO: UYENO, D.
TO: CHONG, R.
TO: CHENG, C.
TO: LAROUX, E.
TO: OHYE, M.
TO: FUJI, N.
TO: YOSHINAGA, M.
TO: SWANSON, S.
TO: KUNIMURA, I.
TO: ENGLAND, D.

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TO: KAWAHARA, K.
TO: HARDY, R.
TO: SAKODA, E.
TO: NAKAMA, L.
TO: TORRES, R.
TO: HOAGBIN, S.
TO: CHING, F.
TO: DANBARRA, S.
TO: YODA, K.

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FOR: Approval
FOR: Signature
FOR: Information

PLEASE:
— Review & Comment
— Type Draft
— Type Final
— File
— Copies:
— Take Action: well index update
— Please See Me

wells capped & locked; test pumps removed
“not in service pending land development"
December 22, 2008

Mr. Albert Boyce
Waikapu Properties, LLC
P.O. Box 871
Manteca, CA 95336

Dear Mr. Boyce:

Transfer of Ownership
Pohakea Wells 1-3 (Well Nos. 4930-01 to 03)

Thank you for your email clarifying the addressee and preferred address of the new ownership of these wells. Enclosed is the certificate of well completion, as your record.

If you have any questions, please contact Charley Ice of our staff at (808) 587-0218.

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

Cl:ss
Attachments

c: Larry Anderson
Avery Chumbley
Mr. Albert Boyce
Waikapu Properties, LLC
P.O. Box 871
Manteca, CA 95336

Dear Mr. Boyce:

Certificate of Well Construction Completion for Well No. 4930-01 to 03 (TMK 3-6-004:003)

We are pleased to inform you that the Well Construction work permitted for the Pohakea Wells 1-3 Well (Well No. 4930-01 to 03) is complete and acceptable and welcome you as a new member to the community of well owners and groundwater users in Hawaii.

To protect Hawaii’s natural ground water resources for the benefit of all, the following requirements apply to the use of your well:

1. Before this well can be pumped on a regular basis, a certificate of pump installation completion must be obtained.

2. If the well is not in use it must be properly capped.

3. If the well is to be abandoned then the landowner must cause a licensed contractor to apply for a well abandonment permit in accordance with §13-168-12(t) prior to any well sealing or plugging work.

4. In the event that the well operator and/or landowner changes, the Commission shall be notified prior to the change.

5. In the event the benchmark in the concrete base of the well is altered in any way, an updated version of the Well Elevation page of the Well Completion Report Part I shall be submitted to the Commission. If a licensed surveyor had estimated the original benchmark elevation then a licensed surveyor must establish the new benchmark elevation. The Well Elevation portion of the Well Completion Report Part I can be obtained by contacting Commission staff or at www.hawaii.gov/dlnr/cwrmlforms.htm.

6. If your well produces less than 70 gallons per minute, and no elevation survey has been completed, you may be required to do one in the future.

Because groundwater in Hawaii is a public trust, and adverse effects at one well may affect other water resources, any violation of the above conditions, or any other provision of the Hawaii Administrative Rules, may be subject to fines of up to $5,000/day. The Commission needs your help and asks that you to do your part in utilizing this shared resource. We prefer to work with you in meeting the goal of protecting our ground water resources together.

If you have any questions, please contact Charley Ice of the Commission staff at (808) 587-0218.

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

Cc: Maui Department of Water Supply
    Larry Anderson
    Avery Chumbley
Charley:
The address below my name is fine.
Thanks,

Albert Boyce
PO Box 871 or
120 Manteca Avenue (deliveries only)
Manteca, CA 95336
albertboyce@sbcglobal.net, aboyce@inreach.com, or aboyce@coffeesofhawaii.com
209-239-4014 (office) / 209-479-2896 (mobil) / 209-239-7886 (fax)

From: "Charley.F.Ice@hawaii.gov" <Charley.F.Ice@hawaii.gov>
To: aboyce@inreach.com
Sent: Friday, December 19, 2008 7:39:54 PM
Subject: addressee for Waikapu Properties

Thank you for your letter dated December 12, 2008, clarifying the owner of Pohakea Wells 1, 2, & 3 as Waikapu Properties, LLC. Our Hawaii property listing provides an address on Norman Drive, but to whom should we properly address the well and pump certificates, recognizing the transfer of ownership?

Charley Ice
Hydrologist
Hawaii Water Commission
1151 Punchbowl 227 Kalanimoku
P.O.Box 821, Honolulu 96809
(808) 587-0218

Please Note:

P.O.Box 871
or 120 Manteca Av. (deliveries only)
or 132 Norman Dr.
Manteca CA 95336

Albert Boyce: multiple contacts (Albert G. Boyce &)
Lodi Development
Boyce Holdings
Waiuku Properties
Waikapu Properties
Maalaea Properties (and above)
COMMISSION ON WATER RESOURCE MANAGEMENT

FROM: ROY
TO: CHENG, C.
TO: CHING, F.
TO: CHONG, R.
TO: DANBARA, S.
TO: ENGLAND, D.
TO: FUJII, N.
TO: HARDY, R.
TO: HOAGBIN, S.
TO: IMATA, R.
TO: KAWAHARA, K.
TO: KIMURA, J.

INIT.

DATE: DEC 12 2008
SUSPENSE DATE:

INIT.

TO: KUNIMURA, I.
TO: MILLS, D.
TO: OHYE, L.
TO: OHYE, M.
TO: OSHIRO, K.
TO: SAKODA, E.
TO: SWANSON, S.
TO: TORRES, R.
TO: UYENO, D.
TO: YODA, K.
TO: YOSHINAGA, M.

FOR: Approval
FOR: Signature
FOR: Information
FOR: Review & Comment
FOR: Take Action
FOR: Type Draft
FOR: Type Final
FOR: File
FOR: Xerox

PLEASE: See Me
PLEASE: Review & Comment
PLEASE: Information
PLEASE: Take Action
PLEASE: update database
PLEASE: Type Draft
PLEASE: Type Final
PLEASE: File yellow
PLEASE: Xerox ___ copies

issue certificate
December 9, 2008

Mr. Ken C. Kawahara, P.E.
Deputy Director
Commission on Water Resource Management
PO Box 621
Honolulu, HI 96809

Re: Transfer of Well Ownership – Pohakea Wells 1, 2 & 3 (Well Nos. 4930-01, -02, & -03)

Dear Mr. Kawahara:

Thank you for letter of December 3, 2008. For convenience I have attached a copy to aid in the following clarifications to the letter. They are:

1. Yes, the Pohakea Well 1 well number is 4930-01. That is the well number that I have used on monthly well usage filings.

2. The landowner for Pohakea Well 1 was Waikapu Properties, LLC.

3. The landowner for Pohakea Wells 2 and 3 was also Waikapu Properties, LLC.

4. Yes, Wells 2 and 3 are located on TMK parcel (2) 3-6-004:003. That parcel is still owned by Waikapu Properties, LLC.

Please update certificates confirming the transfer of ownership. If you have any further questions or comments, please contact me at aboyce@inreach.com.

Sincerely,

Albert Boyce
Wailuku Properties, LLC
PO Box 1870
Manteca, CA 95336

cc: Larry Anderson
Avery Chumbley
Mr. Larry W. Anderson  
Maalaea Properties, LLC  
P.O. Box 1870  
Manteca, CA 95336  

Dear Mr. Anderson:

Transfer of Well Ownership  
Pohakea Wells 1, 2, & 3 (Well Nos. 4930-01, -02, & -03)

Thank you for your notice and email of transferring ownership of the captioned wells to update our contact information. We find a few discrepancies in the information provided and seek clarification.

1. For your information, the correct well number for Pohakea Well 1 is 4930-01 (not 4831-02). This was verified following the final survey at the completion of well construction, notified to your predecessor in interest on August 3, 2004 and referred to by that number in all correspondence thereafter.

2. The previous notice of transfer of ownership of Well 1 was from Wailuku Agribusiness Company, Inc. to Lodi Development, Inc. and Boyce Holdings, Inc. on December 23, 2004. It is located on TMK parcel (2) 3-6-004:003, which is listed as owned by Waikapu Properties, LLC as of December 29, 2006. We see no record of a Maalaea Properties, LLC as the current landowner. Please clarify when Waikapu Properties, LLC transferred ownership to Maalaea Properties, LLC.

3. Applications for Wells 2 & 3 were submitted in April 2006 by Wailani Drilling under contract to Wailuku Water Company, LLC, in a location under the land ownership of Lodi Development, Inc. and Boyce Holdings, Inc., although the well completion report (May 2, 2008) indicates the well owner at that point as Waikapu Properties, LLC. Liability for activities at the well is borne by the landowner. Please clarify who is the landowner and who is the well operator: Lodi Development, Inc., Waikapu Properties, LLC, or Maalaea Properties, LLC.

4. Wells 2 & 3 were also constructed on TMK parcel (2) 3-6-004:003 (not parcel 008, as indicated in your correspondence). Adjacent parcel 008 is listed as owned by Allen and Donna Ting III. Please confirm.

Once these discrepancies are clarified, we will issue updated certificates confirming the transfer of ownership.

If you have any questions, please contact Charley Ice of our staff at (808) 587-0218.

Sincerely,

[Signature]

KEN C. KAWAHARA, P.E.  
Deputy Director

Cl:ss
Comission on Water Resource Management

From: Roy
Date: 06/08

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<td>YODA, K.</td>
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<td>YOSHINAGA, M.</td>
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Please revise the letter to be clearer. We need to be more specific on what we want them to do (Items 1-4).

Thx, Ken K
December 3, 2008

Mr. Larry W. Anderson
Maalaea Properties, LLC
P.O. Box 1870
Manteca, CA 95336

Dear Mr. Anderson:

Transfer of Well Ownership
Pohakea Wells 1, 2, & 3 (Well Nos. 4930-01, -02, & -03)

Thank you for your notice and email of transferring ownership of the captioned wells to update our contact information. We find a few discrepancies in the information provided and seek clarification.

1. For your information, the correct well number for Pohakea Well 1 is 4930-01 (not 4831-02). This was verified following the final survey at the completion of well construction, notified to your predecessor in interest on August 3, 2004 and referred to by that number in all correspondence thereafter.

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Once these discrepancies are clarified, we will issue updated certificates confirming the transfer of ownership.

If you have any questions, please contact Charley Ice of our staff at (808) 587-0218.

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

CI: ss
Maalaea Properties, LLC, a Hawaii limited liability company
P.O. Box 1870
Manteca, California 95336

October 23, 2008

State of Hawaii
Department of Land & Natural Resources
Commission on Water Resource Management
Attention: Ed Sakota and Ken C. Kawahara

Gentlemen:

This is to provide notice to the Commission on Water Resource Management that Maalaea Properties, LLC intends to transfer to MVI, LLC, a Hawaii limited liability company whose address is P.O. Box 97, Kihei, Hawaii, 96753, three (3) improved wells with casings and existing fixtures relating to Pohakea Wells 1, 2 and 3-Well Nos. 4930-02 and 03 (Wells Nos. 2 and 3) and Well No. 4831-02 (Well No. 1) relating to Tax Map Key No.: (2) 3-6-004:003, Pohakea Wells 2 and 3 and TMK: (2) 3-6-004:08, Pohakea Wells No. 1. The transfers involve permits, appurtenances, and documentation concerning the same including the applications for well construction/pump installation permits and the personal property owned by Maalaea Properties, LLC appurtenant to the wells constructed at Well Fields 1, 2 and 3.

It is expected that the transfer of these assets by Maalaea Properties, LLC to MVI, LLC will occur within the next week.

If you have any questions, please do not hesitate to contact myself or attorney Paul R. Mancini at (808) 871-8351.

Very truly yours,

Larry V. Anderson, for
Maalaea Properties, LLC
Its: Manager

cc: B. Martin Luna, Esq.
Kim Smith, Esq.
Albert Boyce
Mike Atherton
Avery Chumbley
Maalaea Properties, LLC, a Hawaii limited liability company  
P.O. Box 1870  
Manteca, California 95336

October 23, 2008

State of Hawaii  
Department of Land & Natural Resources  
Commission on Water Resource Management  
Attention: Ed Sakota and Ken C. Kawahara

Gentlemen:

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If you have any questions, please do not hesitate to contact myself or attorney Paul R. Mancini at (808) 871-8351.

Very truly yours,

[Signature]
Lawrence W. Anderson, for  
Maalaea Properties, LLC  
Its: Manager

cc: B. Martin Luna, Esq.  
Kim Smith, Esq.  
Albert Boyce  
Mike Atherton  
Avery Chumbley
Jock -

As regards the map — we’re waiting for better location info for the Pohakea Wells — it seems the first coordinates they sent us didn’t match the proposed location they mapped, but supposedly, all three are near Reservoir 9, above the intersection of Honoapiilani Hwy and Kuihelani Hwy. The map shows four well sites, but that’s not right. Farther south you see two other wells, 4830-01, the Maalaea Triangle Well, a small irrigation well not being used, I think, and 4831-01, a DLNR test hole (also not used). The Maalaea 4 & 5 are proposed, not even permitted quite yet.

So although there’s no real pumping yet, the proposals are for total pumping of 2 of 3 Pohakea Wells (432,000 + 300,000 = 732,000 gpd), and one of the “4 & 5” Wells, which we’ve called Waikapu-Maalaea Wells 4 & 5 (720,000 gpd) totalling 1.45 mgd out of the estimate sustainable yield (SY) of 2 mgd.

Penit Tests

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<th>Depth</th>
<th>Description</th>
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<td>71-19</td>
<td>Hard blue rock</td>
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</table>
Pohakea Well (4530-01), Maui

John F. Mink
Mink and Yuen, Inc.
June 7, 2004

The Pohakea well (4530-01) has been drilled and outfitted with a 40 H.P. submersible pump. Drilling started April 22, 2004, and the well was completed and tested in mid-May, 2004.

Essential information about the well follows.

- Elevation of reference point: 321.53 ft. msl
- Depth of boring: 350 ft. (+28 ft. msl)
- Initial water level: 7.43 ft. msl
- Bore diameter
- Casing diameter
- Casing length
- Screen diameter and length
- Open hole diameter and length
- Grout depth
- Pump size: 40 H.P.
- Pump capacity to ground elevation: approx. 330 gpm (475,000 gpd)

**Lithology**

The well site was located to encounter the basaltic lavas of West Maui by avoiding the westward extension of the East Maui volcano formations and associated sediments. It was drilled through West Maui talus, overburden and possibly a thin stratum of the Honolulu formation into the Waikuku basalt. Following is a summary of the driller’s log:

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**Pump Tests**

A step drawdown test was conducted on May 13, 2004. Three rates were held for 30 minutes each: 163 gpm, 250 gpm, and 310 gpm. The respective maximum drawdown for each rate was: 1.9 ft., 3.0 ft., and 4.9 ft. The drawdown-rate data were too scattered to
Jock –

As regards the map – we’re waiting for better location info for the Pohakea Wells – it seems the first coordinates they sent us didn’t match the proposed location they mapped, but supposedly, all three are near Reservoir 9, above the intersection of Honoapiilani Hwy and Kuhielani Hwy. The map shows four well sites, but that’s not right. Farther south you see two other wells, 4830-01, the Maalaea Triangle Well, a small irrigation well not being used, I think, and 4831-01, a DLNR test hole (also not used). The Maalaea 4 & 5 are proposed, not even permitted quite yet.

So although there’s no real pumpage yet, the proposals are for total pumpage of 2 of 3 Pohakea Wells (432,000 + 300,000 = 732,000 gpd), and one of the “4 & 5” Wells, which we’ve called Waikapu-Maalaea Wells 4 & 5 (720,000 gpd) totalling 1.45 mgd out of the estimate Sustainable Yield (SY) of 2 mgd.
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State of Hawaii  
COMMISSION ON WATER RESOURCE MANAGEMENT  
Department of Land and Natural Resources

FAX: Transmitting 14 pages, including this one; call 587-0251 with any reception problems.

TO: Wendy Tao moto  
FROM: Chadley Ice  

Date: 24 Aug 07

See if these will do the trick:

- well application for Pōhākea 2 (identical w/ 3) (4930.02)
- WCR 1/pump tests for Pōhākea 1 (4930.01) and report from John Mule.

Return Fax: 587-0219  
Return Post: P.O. Box 621, Honolulu  96809
January 13, 2005

Larry W. Anderson
Lodi Development, Inc.
1132 Norman Drive
Manteca, CA 95336

Dear Mr. Anderson:

Transfer of Ownership
Pohakea Well (Well No.4930-01)

We have been informed that you are the new owner of the captioned well. Please be informed that this transfer is recorded in our records for future reference.

We are forwarding a copy of the water use reporting form for your information. We believe the local records of water use may have been transferred directly to your representatives on-site by former owner Wailuku Agribusiness Co., Inc.

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

Sincerely,

YVONNE Y. IZU
Deputy Director

CI:sd
Enclosure

c:  Wailuku Agribusiness Co., Inc.
    Boyce Holdings, Inc.
    Boyce Resource Development Company
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**Notes:**
- How come not updated well index is important yes?
- will index > update info 3 partial owners?
- people database
- write use reporting request to new owner.
December 23, 2004

Ms. Yvonne Y. Izu
Deputy Director
Department of Land and Natural Resources
Commission on Water Resource Management
P.O. Box 621
Honolulu, Hawaii 96809

Re: Pohakea Well No. 4930-01

Dear Ms. Yvonne Izu,

Wailuku Agribusiness Co. Inc recently sold TMK (2) 3-6-004:003, this parcel of land has the above referenced ground water well located upon it. In addition to the conveyance of the fee simple property, Wailuku Agribusiness transferred its interest in the well to the new property owners. By way of this letter I am asking for your assistance in the assignment of the ownership / permittee from Wailuku Agribusiness Co. Inc, to the following new owners:

Lodi Development, Inc.
Larry W. Anderson
Michael W. Atherton
William S. Filios

Boyce Holdings, Inc.
Albert G. Boyce

Boyce Resource Development Company
Albert G. Boyce

Whose collective address is; 1132 Norman Drive, Manteca California 95336.

Please forward to me the necessary documents for this transfer at the Wailuku Agribusiness address and I will see that they are properly executed and returned to the Commission for your files. Should you have any Questions please feel free to contact me at 808-244-7079.

Sincerely,

Avery E. Chumbley
President

Cc: Albert G. Boyce (via fax)
Peter H. Horovitz Esq., Mancini Welch & Geiger
Charlie Ice, CWRM
October 5, 2004

Mr. Avery Chumbley  
Wailuku Agribusiness, Inc.  
255 East Waiko Road  
Wailuku, HI 96793

Dear Mr. Chumbley:

Well Completion Report for Well No. 4930-01

We received your Well Completion Report Part II for the Pohakea Well (Well No. 4930-01) on September 23, 2004 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,

YVONNE Y. IZU  
Deputy Director

Ct:ss  
c: Wailani Drilling, Inc.
TO: Charlie Joe
FROM: Avery B. Chumbley, President

COMPANY: CWRM
DATE: 12-23-09

FAX NUMBER: 587-0219
TOTAL NO. OF PAGES (Including cover):

CC: Peter Herzog
RE: Transfer of Well

URGENT FOR REVIEW/COMMENT PLEASE CALL FOR YOUR FILES

NOTES/COMMENTS:

Aloha Charlie,

This letter is going out in today's mail, here is an advance copy for you.

Call me if you have questions!

Happy Holidays

Avery

CONFIDENTIALITY NOTICE: This page and any accompanying documents contain confidential information intended for a specific individual or entity. This telecopied information is private and protected by law. If you are not the intended recipient, you are hereby notified that any disclosure, copying or distribution, or the taking of any action based on the contents of this information, is strictly prohibited.
December 23, 2004

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Deputy Director
Department of Land and Natural Resources
Commission on Water Resource Management
P.O. Box 621
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Charlie Ice, CWRM
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Wailuku, HI 96793

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If you have any questions, please contact Charley Lee of the Commission staff at 887-0251 or toll-free at 984-2400, extension 70251.

Sincerely,

[Signature]

YVONNE Y. IZU
Deputy Director

cc: Wailani Drilling, Inc.
Mr. Avery Chumbley  
Wailuku Agribusiness, Inc.  
255 East Waiko Road  
Wailuku, HI 96793  

Dear Mr. Chumbley:  

Well Completion Report for Well No. 4930-01  

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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,  

YVONNE Y. IZU  
Deputy Director  

Cl:ss  
c: Wailani Drilling, Inc.
MEMO and ROUTE SLIP

WCR 2 Check for Well No. 4930-01 (survey to regulation memo)

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:
     - Geology Code for Well Index: Tz

2. **Pump Installation Check**
   - Mitch Ohye (initial)
   - Elevations correct
   - Well database updated

3. Charley Lenore/Ryan (initial) take action based on above analysis
   - Yes No
   - If no, describe deficiency
   - WCR2 fully complete (latest form)
   - WCR Special Cond. followed

4. Roy (initial) check

5. Subia (initial) finalize w/electronic signature

6. Charley Lenore/Ryan File

Pohakea 10/01/04
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FROM: ROY
DATE: SEP 27 2004
SUSPENSE DATE: ________

originals - copies of below 4 page analysis.
Return Receipt Fax Memo

For: Charley Ice
Re: WCR's and PIP's

Charley. Enclosed are the following items:

- WCR I For Keokea Highlands Well #4425-01
- Step and Constant Rate test results for #4425-01
- WCR II and signed PIP for Pohakea Well #4930-01

Hard copies to follow in the mail!
Please confirm receipt by checking off the enclosed items and faxing a copy of this memo to me at 808-322-6797

Thank you: Michael Robertson
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 808-586-0226. For updates to this form or additional information, please visit our website at http://www.hawaii.gov/dlnr/cwrm/

1. State Well No.: 4936-01  Well Name: Pohakea Well  Island: Maui
2. Address: foot of Kaunohua Ridge, Waikapu, Wailuku  Tax Map Key: 3-6-4:3
4. Date Pump Installed: 8/30/04
5. PERMANENT PUMP INFORMATION
   Pump Type, Make, Serial No.: Grundfos 300S400-10
   Rated Capacity: 300 gpm at head of: 400 ft.
   Motor Type, H.P., Voltage, rpm: 6" Franklin 40 HP 460V 3450 RPM
   Type of flow meter: Turbine which measures in gal
   Model Number MM3.0  Serial Number 3M 37658
   Pump type (check one):
   □ Deep Well Turbine  □ Rotary  □ Propeller
   □ Submersible  □ Rotary-Displacement  □ Reciprocating
   □ Centrifugal  □ Rotary-Gear  □ Impulse
6. Method of flow measurement:
   □ Flowmeter  Manufacturer Master  Make Master  Size 3"
   □ Weir  □ Open Pipe  □ Orifice*  □ Other*, explain below
*attach schematic
7. Fill in the as-built section on the other side of this sheet.
8. Attach photograph of well and concrete pad clearly showing benchmark on concrete pad.
9. Other remarks/comments:

Pump Installation Contractor (print) Michael Robertson C-57/C-57a/A Lic. No. 20115
Signature Michael Robertson Date 9/20/04

Permittee (print) Whiske Apibusiness Co Inc
Signature Avery B. Chumney Date 8-16-04

WCR2 Form 4/29/03 Page 1 of 2
Bench mark elevation surveyed to nearest 0.01 ft. = 522.6 ft. mean sea level.

Elevation of top of chase tube = 321.53 ft. mean sea level.

Pump intake depth = 390 ft. (referenced to bench mark)

Chase tube depth = 345 ft. (referenced to bench mark)

If airline installed, bottom of airline elevation = N/A ft. mean sea level.
FLOW RANGE: 60 - 410 GPM
OUTLET SIZE: 3" & 4" NPT*
NOMINAL DIA. 6"

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
4" MOTOR STANDARD, 7.5 HP/3450 RPM.
6" MOTOR STANDARD, 15-60 HP/3450 RPM.
8" MOTOR STANDARD, 75 HP/3525 RPM.
* 3" NPT 2-6 STAGES, 4" NPT 7-18 STAGES.

Performance conforms to ISO 9906 Annex A
@ 8 ft. min. submergence.
August 3, 2004

Ref: 4930-01b.pip

Mr. Avery Chumbley
Wailuku Agribusiness, Inc.
255 East Waiko Road
Wailuku, HI 96793

Dear Mr. Chumbley:

Pump Installation Permit
Pohakea Well (Well No. 4930-01)

Per the July 20, 2004 letter from Mr. Paul Halin, and July 28 phone conversation with you, 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.

Please note that the final survey for the well location has caused a changed in the well number. Formerly, it had been referred to as Well No. 4831-02. Please note this change for your files.

The permittee, well operator, and/or well owner are responsible for all conditions of the permit. This includes ensuring that the pump installation contractor submits a completed Part II of the Well Completion Report form (enclosed) within sixty (60) days after the pump installation work is completed. Be advised that you may be subject to fines of up to $5000 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 the Well Completion Report (Part II) and a copy of your water use report form are enclosed for your use.
PUMP INSTALLATION PERMIT
Pohakea Well, Well No. 4930-01

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 13-188, entitled "Water Use, Wells, and Stream Diversion Works," this document permits the pump installation for Pohakea Well (Well No. 4930-01) at foot of Kaunolu Ridge, Wailuku, Maui, TMK 3-B-4-3, subject to the Hawaii Well Construction & Pump Installation Standards (February 2004) which include but are not limited to the following conditions:

1. The Chairperson to the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work covered by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-108-15, Hawaii Administrative Rules.

2. The pump installation permit shall be for installation of a 300 gpm rated capacity at 400 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 a monthly 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 submitted approved by the Commission are incorporated into this permit by reference. This permit is also subject to the Hawaii Well Construction & Pump Installation Standards (February 2004). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

8. The permit may be revoked if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the pump installation permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee, well operator, and/or well owner notice of the proposed action and an opportunity to be heard.

9. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee, well operator, and/or well owner must apply for a well abandonment permit in accordance with §13-106-10(d) prior to any well sealing or plugging work.

10. The permittee, its successors, and assignees 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, assignees, 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: June 16, 2004
Expiration Date: June 16, 2006

PETER T. YOUNG, Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the pump installer have signed, dated, and transmitted the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and that fines of up to $5000 per day starting from the permit date of approval.

Permittee’s Signature: [Signature]
Printed Name: Avery B. Chumbley
Title: Wailea Agribusiness Co. Inc.
Date: 8-16-04
President

Installer’s Signature: [Signature]
Printed Name: Michael Robertson
Firm or Title: Wailea Drilling Inc.
Date: 8/15/04

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

Attachments:

USGS
Department of Health’s Safe Drinking Water & Wastewater Branch
Maul Department of Water Supply
Wailuku Drilling, Inc.
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

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<td>1. State Well No.</td>
<td>4930-01</td>
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<tr>
<td>Well Name</td>
<td>Pohakesa Well</td>
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<tr>
<td>Island</td>
<td>Maui</td>
</tr>
<tr>
<td>2. Address</td>
<td>foot of Kaunoahua Ridge, Waikapu, Maui</td>
</tr>
<tr>
<td>Tax Map Key</td>
<td>3-6-4:3</td>
</tr>
<tr>
<td>3. Pump Installation Company</td>
<td>Wailani Drilling Inc</td>
</tr>
<tr>
<td>4. Date Pump Installed</td>
<td>8/30/04</td>
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<td>Turbine which measures in gal</td>
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<td>Model Number</td>
<td>AM 320</td>
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<tr>
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<td>20 37658</td>
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<tr>
<td>Pump type (check one):</td>
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<tr>
<td>⊗ Deep Well Turbine</td>
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<td>⊗ Submersible</td>
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<td>Open Pipe</td>
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<td>Orifice*</td>
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<td>Other*, explain below</td>
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<td>attach schematic</td>
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Pump Installation Contractor (print) Michael Robertson, C5/C-57a/A Lic. No. 2015
Signature: Michael Robertson
Date: 9/20/04

Permittee (print) Waihuku Apartments Co Inc
Signature: Avery B. Chandler
Date: 8/16/04
Bench mark elevation surveyed to nearest 0.01 ft. = 221.5 ft. mean sea level

Elevation of top of chase tube = 321.53 ft. mean sea level

Pump intake depth = 340 ft. (referenced to bench mark)

Chase tube depth = 340 ft. (referenced to bench mark)

If airline installed, bottom of airline elevation = NA ft. mean sea level
Return Receipt Fax Memo

For: Charley Ice
Re. WCR's and PIP's

Charley. Enclosed are the following items:

___ WCR I For Keokea Highlands Well #4425-01
___ Step and Constant Rate test results for #4425-01
___ WCR II and signed PIP for Pohakea Well # 4930-01

Hard copies to follow in the mail!
Please confirm receipt by checking off the enclosed items and faxing a copy of this memo to me at 808-322-6797

Thank you:

Michael Robertson
Ref: 4930-01b.pip

Mr. Avery Chumbley
Wailuku Agribusiness, Inc.
255 East Waiko Road
Wailuku, HI 96793

Dear Mr. Chumbley:

Pump Installation Permit
Pohakea Well (Well No. 4930-01)

Per the July 20, 2004 letter from Mr. Paul Hallin, and July 28 phone conversation with you, 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.

Please note that the final survey for the well location has caused a change in the well number. Formerly, it had been referred to as Well No. 4831-02. Please note this change for your files.

The permittee, well operator, and/or well owner are responsible for all conditions of the permit. This includes ensuring that the pump installation contractor submits a completed Part II of the Well Completion Report form (enclosed) within sixty (60) days after the pump installation work is completed. Be advised that you may be subject to fines of up to $500 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 the Well Completion Report (Part II) and a copy of your water use report form are enclosed for your use.
PUMP INSTALLATION PERMIT
Pohakua Well, Well No. 4930-01

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-185, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the pump installation for Pohakua Well (Well No. 4930-01) at the foot of Kaunakaha Ridge, Wailea, Maui, TMK 3-6-43, subject to the Hawaii Well Construction & Pump Installation Standards (February 2004) which include but are not limited to the following conditions:

1. The Chairperson to the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, Hi 96809, shall be notified, in writing, at least two (2) weeks before any work covered by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-185-15, Hawaii Administrative Rules.

2. The pump installation permit shall be for installation of a 300 gpm rated capacity at 400 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 level, and appropriate devices or means for measuring chlorides and temperature. These data shall be measured monthly and reported to the Commission on a monthly 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 I - (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 rules, orders, and ordinances, and non-compliance may be grounds for revocation of this permit.

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

8. The permit may be revoked if work is not started within sixty (60) days 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 permit 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 §13-185-12(b) 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 all 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 letter are incorporated herein by reference.

Date of Approval: June 15, 2004
Expiration Date: June 16, 2006

PETER T. YOUNG, Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the pump installer have signed, dated, and submitted this permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and that the Commission may issue up to $50000 per day starting from the permit date of approval.

Permittee's Signature: [Signature]
Printed Name: AVERY B. CHUMLEY, Hawaii Agribusiness Co., Inc.
Title: President

Installer's Signature: [Signature]
Printed Name: Michael Robertson, Hawaii Agribusiness Co., Inc.
Title: President

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

Model 300S

FLOW RANGE: 60-410 GPM
OUTLET SIZE: 3" & 4" NPT
NOMINAL DIA. 6"

SPECIFICATIONS
SUBJECT TO CHANGE WITHOUT NOTICE.

4" MOTOR STANDARD. 7.5 HP/3450 RPM.
6" MOTOR STANDARD. 15-60 HP/3450 RPM.
8" MOTOR STANDARD. 75 HP/3525 RPM.
* 3" NPT 2-6 STAGES, 4" NPT 7-18 STAGES.

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

L. Aqkdl-01
POHAKA
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<tr>
<th>FROM: ROY</th>
<th>DATE: SEP 24 2004</th>
<th>SUSPENSE DATE:</th>
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<td>TO: MATHIAS, T.</td>
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<td>INIT.</td>
<td>YOSHINAGA, M.</td>
</tr>
</tbody>
</table>

Not valid yet — no installer signature.
September 23, 2004

Mr. Charley Ice
State of Hawaii
Department of Land and Natural Resources
Commission on Water Resource Management
P. O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Ice:

Based on our discussions, attached are the original Pump Installation Permit and Well Completion Report – Part II for Pohakea Well (Well No. 4930-01).

If anything further is needed, please contact me.

Sincerely,

Avery B. Chumbley
President

ABC:am

Enclosures
August 3, 2004

Ref: 4930-01.b.pip

Mr. Avery Chumbley
Wailuku Agribusiness, Inc.
255 East Waiko Road
Wailuku, HI 96793

Dear Mr. Chumbley:

Pump Installation Permit
Pohakea Well (Well No. 4930-01)

Per the July 20, 2004 letter from Mr. Paul Hallin, and July 28 phone conversation with you, 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.

Please note that the final survey for the well location has caused a changed in the well number. Formerly, it had been referred to as Well No. 4831-02. Please note this change for your files.

The permittee, well operator, and/or well owner are responsible for all conditions of the permit. This includes ensuring that the pump installation contractor submits a completed Part II of the Well Completion Report form (enclosed) within sixty (60) days after the pump installation work is completed. Be advised that you may be subject to fines of up to $5000 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 the Well Completion Report (Part II) and a copy of your water use report form are enclosed for your use.
IMPORTANT - Pump installation shall not commence until a fully signed permit is returned to the Commission. 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 June 16, 2004.

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.  
Mink & Yuen  
Paul Hallin, A & B Properties
1. State Well No.: **4930-01**  
   Well Name: **Pohakea Well**  
   Island: **Maui**

2. Address: **foot of Kaunoahua Ridge, Waikapu, Wailuku**  
   Tax Map Key: **3-6-4:3**

3. Pump Installation Company:

4. Date Pump Installed: ________________________  
   month/day/year

5. PERMANENT PUMP INFORMATION

   Pump Type, Make, Serial No.: ________________________

   Rated Capacity: ____________ gpm at head of: ____________ ft.

   Motor Type, H.P., Voltage, rpm: ________________________

   Type of flow meter: ________________________ which measures in ________________________

   Model Number ____________ Serial Number ____________

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

6. Method of flow measurement:

   □ Flowmeter  
   Manufacturer: ________________________ Make: ________________________ Size: ________________________

   □ Weir  
   □ Open Pipe  
   □ Orifice*  
   □ Other*, explain below

   *attach schematic

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

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

9. Other remarks/comments:

   ________________________

---

Pump Installation Contractor (print) ________________________ C-57/C-57a/A Lic. No. ________________________

Signature ________________________ Date ________________________

Permittee (print) ________________________

Signature ________________________ Date 8-16-04
9. AS-BUILT PUMP SECTION (Please attach as-built if different from diagram provided below)

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

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

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

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

If airline installed, bottom of airline elevation = ________ ft. mean sea level
PUMP INSTALLATION PERMIT
Pohakea Well, Well No. 4930-01

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 Pohakea Well (Well No. 4930-01) at foot of Kaunoahua Ridge, Waikapu, Wailuku, Maui, TMK 3-6-4:3, subject to the Hawaii Well Construction & Pump Installation Standards (February 2004) which include but are not limited to the following conditions:

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

2. The pump installation permit shall be for installation of a 300 gpm rated capacity at 400 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 a monthly basis, on forms provided by the Chairperson (attached).

4. The proposed use shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to pump water from a well shall not constitute a determination of correlative water rights. The permittee, well operator, and/or well owner are notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

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

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

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

8. The permit may be revoked if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the pump installation permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee, well operator, and/or well owner notice of the proposed action and an opportunity to be heard.

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

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

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

Date of Approval: June 16, 2004
Expiration Date: June 16, 2006

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the 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 $5000 per day starting from the permit date of approval.

Permittee's Signature: __________________________ Date: 8-16-04
Printed Name: AVERY B. CHUMBLEY
Title: WAILUKU AGRICULTURAL CO, INC

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
Mau Department of Water Supply
Wailani Drilling, Inc.
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 Pohakea Well (Well No. 4930-01) at foot of Kaunaoa Ridge, Wailuku, Maui, TMK 3-6-4:3, subject to the Hawaii Well Construction & Pump Installation Standards (February 2004) which include but are not limited to the following conditions:

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

Date of Approval: June 16, 2004
Expiration Date: June 16, 2006

PETER T. YOUNG, Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until the pump installer have signed, dated, and returned this permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fined at up to $5000 per day starting from the permit date of approval.

Permittee's Signature: ____________________________ Date: 8-16-09
Printed Name: AVERY B. CHUMBLEY Firm or Title: WAILUKU AGRIBUSINESS CO. INC., PRESIDENT

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/Safe Drinking Water & Wastewater Branch
Maui Department of Water Supply
Wailani Drilling, Inc.
State of Hawaii  
COMMISSION ON WATER RESOURCE MANAGEMENT  
Department of Land and Natural Resources  

WELL INFORMATION RELEASE REQUEST  

Name: Gloria Paet  
Contact: Kaleo, Gloria, or Roxanne  

Company and Mailing Address: 890 Alana St., Ste. 1-A, Wailuku, HI 96793  
Company Phone Number, Fax, and Email: 808-242-5531  
   gloria.paet@helco.net  

Specific Information Desired: (Include map delineating area of interest)  

Charley F  
Ice/DLNR/StateHIUS  
09/09/2004 03:18 PM  
To: highlightsofhawaii@yahoo.com  
   cc:  
   bcc:  

Subject: A&B Wells  

The only well that meets the criterion of "A&B wells or wells on Wailuku Ag properties in Waikapu" is the Pohakea Well (Well No. 4930-01) at the foot of Kaunohua Ridge, south of Waikapu near a reservoir above the Waihee Ditch, which found a water level of 7.43 feet above sea level, with chlorides at 160 mg/L and a temperature of 72.2 deg F. They have a pump installation permit approved for a 300 gpm pump.  

If you agree to the above understandings and conditions, please signify your agreement by signing below and returning this request/agreement to the Commission. Staff may consult with the Office of Information Practices and/or the Deputy Attorney General before the requested information is provided. Upon receipt of the signed agreement, the Commission will send the requested information to you.  

I agree to the above understandings and conditions:  

Signature  
9/7/04  
Date  

For Official Use Only:  
Staff providing information:  
Date provided:  

WIRR Form (08/24/2004)
August 3, 2004

Ref: 4930-01b.pip

Mr. Avery Chumbley
Wailuku Agribusiness, Inc.
255 East Waiko Road
Wailuku, HI 96793

Dear Mr. Chumbley:

Pump Installation Permit
Pohakea Well (Well No. 4930-01)

Per the July 20, 2004 letter from Mr. Paul Hallin, and July 28 phone conversation with you, 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:

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Please sign and have the contractor sign both permit originals and return one for our files. A copy of the Well Completion Report (Part II) and a copy of your water use report form are enclosed for your use.
Mr. Avery Chumbley  
Page 2  
August 3, 2004

**IMPORTANT** - Pump installation shall not commence until a fully signed permit is returned to the Commission. 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 **June 16, 2004**.

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]

Peter T. Young  
Chairperson

Enclosure

c: Wailani Drilling, Inc.  
Mink & Yuen  
Paul Hallin, A & B Properties
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 13-186, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the pump installation for Pohakea Well (Well No. 4930-01) at foot of Kauaohua Ridge, Waikapu, Wailuku, Maui, TMK 3-6-4:3, subject to the Hawaii Well Construction & Pump Installation Standards (February 2004) which include but are not limited to the following conditions:

1. The Chairperson to the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work covered by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-185-15, Hawaii Administrative Rules.

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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: June 16, 2004
Expiration Date: June 16, 2006

PETER T. YOUNG, Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the 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 $5000 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/ Safe Drinking Water & Wastewater Branch
Maul Department of Water Supply
Wailani Drilling, Inc.
<table>
<thead>
<tr>
<th>FROM: ROY</th>
<th>DATE: JUL 22</th>
<th>SUSPENSE DATE:</th>
</tr>
</thead>
</table>

| TO: BAUER, G. | INIT. | TO: MATHIAS, T. | INIT. | FOR: Approval | PLEASE: See Me |
| CHING, F. | | NAKAMA, L. | | Signature | Review & Comment |
| DANBARA, S. | | NAKANO, D. | | Information | Take Action |
| FUJII, N. | | OHYE, M. | | | Type Draft |
| GOODING, K. | | SAKODA, E. | | | Type Final |
| HARDY, R. | | STAHL, K. | | | File |
| HIGA, D. | | SUBIA, S. | | | Xerox ___ copies |
| ICE, C. | | SWANSON, S. | | | |
| IMATA, R. | | UYENO, D. | | | |
| IZU, Y. | | YODA, K. | | | |
| KUNIMURA, I. | | YOSHINAGA, M. | | | |

Note: Need to clarify. The Avery machine called to verify O.K.
July 20, 2004

Mr. Peter Young, Chairperson
Commission on Water Resource Management
State of Hawaii
P.O. Box 621
Honolulu, HI 96809

RE: Pump Installation Permit—Pohakea Well (Well No. 4930-01)

Dear Chair Young:

You recently transmitted to us, for signature, a copy of the approved Pump Installation Permit for the above-referenced well. The purpose of this letter is to return the permit to the Commission, and inform you that although we did obtain the initial well drilling permit for the Pohakea Well, no activity was undertaken by A&B Properties relative to the development of the well itself. The drilling of the well and installation of the pump are likely being pursued by the landowner, Wailuku Agribusiness (“Wailuku Ag”), its agent, or someone who is or has purchased nearby land from Wailuku Ag.

We suggest that the landowner, Wailuku Ag, be contacted to determine who the proper permittee for the enclosed Pump Installation Permit should be, and thus responsible for signing the permit and complying with all of its conditions. If you have any questions, please do not hesitate to call.

Sincerely,

Paul W. Hallin

cc: Roy Hardy, Commission on Water Resource Management
    Avery Chumbley, Wailuku Agribusiness
    Wailani Drilling, Inc.
    Mink & Yuen
Pump Installation Permit

Pohakea Well (Well No. 4930-01)

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.

Please note that the final survey for the well location has caused a changed in the well number. Formerly, it had been referred to as Well No. 4831-02. Please note this change for your files.

The permittee, well operator, and/or well owner are responsible for all conditions of the permit. This includes ensuring that the pump installation contractor submits a completed Part II of the Well Completion Report form (enclosed) within sixty (60) days after the pump installation work is completed. Be advised that you may be subject to fines of up to $5000 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 the Well Completion Report (Part II) and a copy of your water use report form are enclosed for your use.
IMPORTANT - Pump installation shall not commence until a fully signed permit is returned to the Commission. 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 June 16, 2004.

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]

Peter T. Young
Chairperson

Enclosure

c: Wailani Drilling, Inc.
Mink & Yuen
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 Pohakea Well (Well No. 4930-01) at foot of Kaunohua Ridge, Waikapu, Wailuku, Maui, TMK 3-6-4-3, subject to the Hawaii Well Construction & Pump Installation Standards (February 2004) which include but are not limited to the following conditions:

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

2. The pump installation permit shall be held for installation of a 300 gpm rated capacity at 400 ft. of head, or less, 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 a monthly 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 is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

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

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

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

8. The permit may be revoked if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the pump installation permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee, well operator, and/or well owner notice of the proposed action and an opportunity to be heard.

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

Date of Approval: June 16, 2004
Expiration Date: June 16, 2006

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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.

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Department of Health’s Safe Drinking Water & Wastewater Branch
Maui Department of Water Supply
Wailani Drilling, Inc.
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Printed Name: _______________________________ Firm or Title: _______________________________

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Department of Health's Safe Drinking Water & Wastewater Branch
Maui Department of Water Supply
Wailani Drilling, Inc.
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<tr>
<th>FROM: ROY</th>
<th>DATE: JUL 22 2004</th>
<th>SUSPENSE DATE:</th>
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<td>INIT:</td>
<td>TO: MATHIAS, T.</td>
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<td>NAKAMA, L.</td>
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<td>NAKANO, D.</td>
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<td>YOSHINAGA, M.</td>
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</tbody>
</table>

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

**FOR:**
- Approval
- Signature
- Information
July 20, 2004

Mr. Peter Young, Chairperson
Commission on Water Resource Management
State of Hawaii
P.O. Box 621
Honolulu, HI 96809

RE: Pump Installation Permit—Pohakea Well (Well No. 4930-01)

Dear Chair Young:

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We suggest that the landowner, Wailuku Ag, be contacted to determine who the proper permittee for the enclosed Pump Installation Permit should be, and thus responsible for signing the permit and complying with all of its conditions. If you have any questions, please do not hesitate to call.

Sincerely,

Paul W. Hallin

cc: Roy Hardy, Commission on Water Resource Management
Avery Chumbley, Wailuku Agribusiness
Wailani Drilling, Inc.
Mink & Yuen
Mr. Paul Hallin  
A&B Properties  
P.O. Box 3440  
Honolulu, HI 96813

Dear Mr. Hallin:

Pump Installation Permit  
Pohakea Well (Well No. 4930-01)

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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.

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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.
Mink & Yuen
PUMP INSTALLATION PERMIT
Pohakea Well, Well No. 4930-01

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 Pohakea Well (Well No. 4930-01) at foot of Kauaahua Ridge, Waikapu, Wailuku, Maui, TMK 3-6-4:3, subject to the Hawaii Well Construction & Pump Installation Standards (February 2004) which include but are not limited to the following conditions:

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Commission on Water Resource Management

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

Attachments
C: USGS
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Department of Health/ Safe Drinking Water & Wastewater Branch
Maui Department of Water Supply
Wallani Drilling, Inc.
**WELL COMPLETION REPORT - PART II**

**Pump Installation**

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

| 1. State Well No.: | 4930-01 | Well Name: | Pohakea Well | Island: | Maui |
|-------------------|----------|------------|--------------|---------|
| 2. Address:       | foot of Kaunoahua Ridge, Waikapu, Wailuku | Tax Map Key: | 3-6-4:3 |
| 3. Pump Installation Company: | | |
| 4. Date Pump Installed: | month/day/year |
| 5. PERMANENT PUMP INFORMATION | |
| Pump Type, Make, Serial No.: | |
| Rated Capacity: | gpm at head of: ft. |
| Motor Type, H.P., Voltage, rpm: | |
| Type of flow meter: | which measures in |
| Pump type (check one): | Deep Well Turbine | Rotary | Propeller |
|                     | Submersible | Rotary-Displacement | Reciprocating |
|                     | Centrifugal | Rotary-Gear | Impulse |
| 6. Method of flow measurement: | Flowmeter | Manufacturer Make Size |
|                     | Weir | Open Pipe | Orifice* | Other*, explain below |
|                     | *attach schematic |
| 7. Fill in the as-built section on the other side of this sheet. |
| 8. Attach photograph of well and concrete pad clearly showing benchmark on concrete pad. |
| 9. Other remarks/comments: | |

Pump Installation Contractor (print) C-57/C-57a/A Lic. No. ____________________

Signature ____________________ Date ____________________

Permittee (print) ____________________

Signature ____________________ Date ____________________

WCR2 Form 4/29/03 Page 1 of 2
9. AS-BUILT SECTION (Please attach as-built if different from diagram provided below)

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

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

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

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

If airline installed, bottom of airline elevation = ______ ft. mean sea level
## STATE OF HAWAII
**COMMISSION ON WATER RESOURCE MANAGEMENT**
**DEPARTMENT OF LAND AND NATURAL RESOURCES**

### MONTHLY GROUND WATER USE REPORT

**A & B Properties**
P.O. Box 3440
Honolulu HI 96813

Report Month _______ Year

<table>
<thead>
<tr>
<th>State Well No.</th>
<th>Well Name</th>
<th>Period Begin Date (mm/dd/yy)</th>
<th>Period End Date (mm/dd/yy)</th>
<th>Quantity Pumped (gallons)</th>
<th>Method of Measurement</th>
<th>Chloride (mg/l)</th>
<th>Temp. (°F)</th>
<th>Non-Pumping Water Level (ft. above msl)**</th>
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**INSTRUCTIONS:** Please TYPE OR PRINT CLEARLY. Complete this form to report total monthly ground water use, and, if required, other information from each of your well sources. Mail to: Commission on Water Resource Management, P.O. Box 621, Honolulu HI 96854. For assistance, please call (808) 587-0264.

- Flow meter, electrical consumption, weir of flume, not metered (estimated).
- Measurement should be taken while pump is NOT running just prior to a pumping cycle; if measurement is taken while pump is running, please indicate so.

Other comments or additional information (e.g. date and method of chloride measurement; how pumpage amounts are estimated, etc...):

Submitted by (print) _____________________________
Title _____________________________
Signature _____________________________
Date _____________________________
Telephone No. _____________________________

Form Pohakea.doc (3/99)
## MONTHLY GROUND WATER DELIVERY REPORT

(INFORMATION TO BE USED BY U.S. GEOLOGICAL SURVEY)

A & B Properties  
P.O.Box 3440  
Honolulu HI 96813

Report Month _____ Year

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<th>Delivery End Date (mm/dd/yyyy)</th>
<th>Quantity Delivered (gallons)</th>
<th>Type of Use*</th>
<th>Field No(s)</th>
<th>Acres Irrigated</th>
<th>Crop Type</th>
<th>Method of Measurement**</th>
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** Use of water code:

- **A:** Aquaculture
- **D:** Domestic
- **F:** Irrigation - Drip
- **I:** Irrigation - Furrow
- **S:** Irrigation - Sprinkle

- **A:** Agriculture non-irrigation use (livestock, cane wash, etc.)
- **D:** Industrial-manufacturing, construction, etc.
- **F:** Hydroelectric power generation - indicate KWH of power generated
- **S:** Fuel power generation - cooling

** For estimated values use code:

- **P:** Power consumption
- **T:** Total time of operation
- **D:** Comparison with past data
- **X:** Other means - (indicate method)

Other comments or additional information:

Submitted by (print) ___________________  
Signature ___________________________  
Title ________________________________  
Date ____________________  
Phone No. ____________________________

Form Pohakea.doc (3/99)
Pump Installation Permit  
**Pohakea Well (Well No. 4930-01)**

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.

Please note that the final survey for the well location has caused a change in the well number. Formerly, it had been referred to as Well No. 4831-02. Please note this change for your files.

The permittee, well operator, and/or well owner are responsible for all conditions of the permit. This includes ensuring that the pump installation contractor submits a completed Part II of the Well Completion Report form (enclosed) within sixty (60) days after the pump installation work is completed. Be advised that you may be subject to fines of up to $5000 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 the Well Completion Report (Part II) and a copy of your water use report form are enclosed for your use.
IMPORTANT - Pump installation shall not commence until a fully signed permit is returned to the Commission. 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 June 16, 2004.

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]

Peter T. Young
Chairperson

Enclosure

c: Wailani Drilling, Inc.
Mink & Yuen
PUMP INSTALLATION PERMIT
Pohakea Well, Well No. 4930-01

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 Pohakea Well (Well No. 4930-01) at foot of Kaunoahua Ridge, Waipahu, Wailuku, Maui, TMK 3-6-4:3, subject to the Hawaii Well Construction & Pump Installation Standards (February 2004) which include but are not limited to the following conditions:

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

2. The pump installation permit shall be for installation of a 300 gpm rated capacity at 400 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 a monthly basis, on forms provided by the Chairperson (attached).

4. The proposed use shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to pump water from a well shall not constitute a determination of correlative water rights. The permittee, well operator, and/or well owner are notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

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

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

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

8. The permit may be revoked if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the pump installation permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee, well operator, and/or well owner notice of the proposed action and an opportunity to be heard.

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

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

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

W. Ray Handy

Date of Approval: June 16, 2004
Expiration Date: June 16, 2006
PETER T. YOUNG, Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the 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 $5000 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/ Safe Drinking Water & Wastewater Branch
Mau Department of Water Supply
Wailani Drilling, Inc.
MEMO and ROUTE SLIP

WCR 1 Check for Well No. 4930-01 (survey to regulation memo)

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 □
   \( T = 10,000 \text{ ft}^2/\text{day} \)
   \( S = 0.01 \)

   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: \( T = \)

2. **Construction Check** Mitch Ohye (initial)
   
   **Yes** **No** **If no, describe deficiency**

   data complete □
   followed Special Cond & elevations □
   well database updated □

   Latitude
   NAD27 20 49 10
   NAD83 20 48 58
   Longitude
   156 31 01
   156 30 41

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

4. Roy (initial) check

5. Subia (initial) finalize w/electronic signature

6. Charley Lenore/Ryan File
WELL ID: Pohakea Well

**INPUT**

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<tr>
<th>Construction:</th>
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<tr>
<td>Casing dia. (d_c)</td>
<td>6 inch</td>
</tr>
<tr>
<td>Annulus dia. (d_w)</td>
<td>12.25 Inch</td>
</tr>
<tr>
<td>Screen Length (L)</td>
<td>20 Feet</td>
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</table>

**Depths to:**

<p>| | |</p>
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<th></th>
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<tbody>
<tr>
<td>water level (DTW)</td>
<td>314.1 Feet</td>
</tr>
<tr>
<td>Top of Aquifer</td>
<td>314.1 Feet</td>
</tr>
<tr>
<td>Base of Aquifer</td>
<td>365 Feet</td>
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**Annular Fill:**

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<tbody>
<tr>
<td>across screen -- Open Hole</td>
<td></td>
</tr>
<tr>
<td>above screen -- Cement</td>
<td></td>
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<tr>
<td>Aquifer Material -- Permeable Basalt</td>
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<tr>
<td>ASSUMED S =</td>
<td>0.01 d'less</td>
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**COMPUTED**

Aquifer thickness = 50 Feet

Input is consistent.

<p>| | |</p>
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<tr>
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<tr>
<td>K =</td>
<td>300 Feet/Day</td>
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<tr>
<td>T =</td>
<td>10,000 Feet2/Day</td>
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<tr>
<td>K_annular =</td>
<td>600 Feet/Day</td>
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<tr>
<td>Skin =</td>
<td>-0.3 d'less</td>
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</table>

K = 300 is greater than likely maximum of 100 for Permeable Basalt

**REMARKS:**

Step-drawdown analysis of single-well aquifer test

KANNELAR is estimated by fitting simulated drawdowns to measured drawdowns in a secondary plot. A reasonable storage value must be assigned by the user because storage and KANNELAR cannot be estimated independently. The estimate of T is not affected by changes in estimates of storage and KANNELAR.
WELL ID: Pohakea Well

DISCHARGE, IN GPM

DRAWDOWN, IN FEET

TIME, Hour:Minute:Second
## Reduced Data

<table>
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<tr>
<th>Entry</th>
<th>Time, Hr:Min:Sec</th>
<th>Water Level, Feet</th>
<th>Entry</th>
<th>Time, Hr:Min:Sec</th>
<th>Water Level, Feet</th>
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<td>318.94</td>
<td>88</td>
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<td>89</td>
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<td>100</td>
<td>1:30:00</td>
<td>0.00</td>
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WELL ID: Pahakea

LOCAL ID: 4831-02
Date: 5/14/2004
Time: 0:00

INPUT

<table>
<thead>
<tr>
<th>Construction:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing dia. (d_c)</td>
</tr>
<tr>
<td>Annulus dia. (d_w)</td>
</tr>
<tr>
<td>Screen Length (L)</td>
</tr>
</tbody>
</table>

Depths to:

- Water level (DTW) 314.1 Feet
- Top of Aquifer 314.1 Feet
- Base of Aquifer 365 Feet

Annular Fill:

- Across screen -- Open Hole
- Above screen -- Cement
- Aquifer Material -- Permeable Basalt

FLOW RATE 330 GPM

Aquiifer thickness = 50 Feet
Slope = 1.211977 Feet/log10
Input is consistent.

K = 200 Feet/Day

K = 200 is greater than likely maximum of 100 for Permeable Basalt

REMARKS:
Cooper-Jacob analysis of single-well aquifer test

Manager Test Pump
<table>
<thead>
<tr>
<th>Entry</th>
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<th>Water Level</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>1/00 00:00:00</td>
<td>314.10</td>
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<tr>
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<td>4</td>
<td>1/00 00:02:00</td>
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<td>5</td>
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<td>34</td>
<td>1/00 16:40:00</td>
<td>317.82</td>
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INPUT

<table>
<thead>
<tr>
<th>Construction:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing dia. ( (d_c) )</td>
</tr>
<tr>
<td>Annulus dia. ( (d_w) )</td>
</tr>
<tr>
<td>Screen Length ( (L) )</td>
</tr>
</tbody>
</table>

Depths to:

| water level (DTW) | 314.1 Feet |
| Top of Aquifer | 314.1 Feet |
| Base of Aquifer | 365 Feet |

Annular Fill:

- across screen -- Open Hole
- above screen -- Cement
- Aquifer Material -- Permeable Basalt

FLOW RATE | 330 GPM

COMPUTED

| Aquifer thickness | 50 Feet |
| Slope | 1.790881 Feet/log10 |

Input is consistent.

\[ K = 100 \text{ Feet/Day} \]
\[ T = 6,000 \text{ Feet}^2/\text{Day} \]

\( K = 100 \) is greater than likely maximum of 100 for Permeable Basalt

REMARKS:

Cooper-Jacob recovery analysis of single-well aquifer test
<table>
<thead>
<tr>
<th>Entry</th>
<th>Date Hr:Min:Sec</th>
<th>Water Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>314.10</td>
</tr>
<tr>
<td>2</td>
<td>1/1/00 1:00:00</td>
<td>317.81</td>
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<tr>
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<td>1/1/00 1:01:00</td>
<td>315.30</td>
</tr>
<tr>
<td>4</td>
<td>1/1/00 1:01:30</td>
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<td>314.80</td>
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<td>6</td>
<td>1/1/00 1:02:30</td>
<td>314.65</td>
</tr>
<tr>
<td>7</td>
<td>1/1/00 1:03:00</td>
<td>314.34</td>
</tr>
<tr>
<td>8</td>
<td>1/1/00 1:04:00</td>
<td>314.21</td>
</tr>
</tbody>
</table>
June 15, 2004

Commission on Water Resource Management
P. O. Box 621
Honolulu, Hawaii 96809

Gentlemen:

Enclosed are the following reports for Pohakea Well:

Well Completion Report – Part 1
Constant-Rate Pump Test Data
Step-Drawndown Pump Test Data

If you have any questions, or need any further information, please call Avery B. Chumbley, President, at 808-244-9570.

Sincerely,

Alice E. Martin
Secretary to Avery B. Chumbley

enclosures
Latitude: 20° 49' 09.9"
Longitude: 156° 30' 51.0"

PLOT PLAN
(Provide Latitude and Longitude of well referenced to NAD27 to nearest second)
The Pohakea well (4530-01) has been drilled and outfitted with a 40 H.P. submersible pump. Drilling started April 22, 2004, and the well was completed and tested in mid-May, 2004.

Essential information about the well follows.

- Elevation of reference point: 321.53 ft. msl
- Depth of boring: 350 ft. (-28.5 ft msl)
- Initial water level: 7.43 ft. msl
- Bore diameter
- Casing diameter
- Casing length
- Screen diameter and length
- Open hole diameter and length
- Grout depth
- Pump size: 40 H.P.
- Pump capacity to ground elevation: approx. 330 gpm (475,000 gpd)

**Lithology**

The well site was located to encounter the basalts of West Maui by avoiding the westward extension of the East Maui volcano formations and associated sediments. It was drilled through West Maui talus, overburden and possibly a thin stratum of the Honolua formation into the Wailuku basalt. Following is a summary of the driller’s log (ft.).

<table>
<thead>
<tr>
<th>Depth</th>
<th>Elev. msl</th>
<th>Lithology</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-175</td>
<td>321-146</td>
<td>West Maui talus and sediments</td>
</tr>
<tr>
<td>175-250</td>
<td>146-71</td>
<td>Soft blue rock</td>
</tr>
<tr>
<td>250-340</td>
<td>71-(-19)</td>
<td>Hard blue rock</td>
</tr>
</tbody>
</table>

**Pump Tests**

A step drawdown test was conducted on May 13, 2004. Three rates were held for 30 minutes each: 163 gpm, 250 gpm, and 330 gpm. The respective maximum drawdown for each rate was: 1.9 ft., 3.0 ft., and 4.9 ft. The drawdown-rate data were too scattered to
allow for aquifer analysis by the standard method \((s/Q = f(Q))\), but the trend of the plot implies a very high transmissivity \((T)\) and therefore high hydraulic conductivity \((k)\). During the step drawdown test the maximum drawdown was 4.9 feet at 330 gpm, of which estimated turbulent flow at the well face accounted for 3.8 feet (77% of total), leaving just 1.1 feet due to laminar flow in the aquifer.

The continuous test at 330 gpm started on May 14, 2004, and went on for 1,440 minutes (1 day). The final stable drawdown was 3.7 feet. The lower drawdown for the continuous test compared to that of the step drawdown test at the same rate was likely the result of the well having been fully developed by the two days of pumpage. Recovery was complete within five minutes.

During both the step drawdown and continuous tests the chloride content (by Hach kit) was stable at 160 mg/l and the temperature at 72 F. The chloride content is in the range acceptable by the County Department of Water Supply.

**Conclusions**

The Pohakea well can yield as much as 500,000 gpd of potable water. The chloride content is not likely to increase and, in fact, may decrease somewhat when the temperature of the water falls several degrees to indicate the movement to the well of recharge from higher elevations.

Certification of the well for public use by the State Department of Health is required. Preparations to meet the certification conditions should be undertaken.
<table>
<thead>
<tr>
<th>Field</th>
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<tbody>
<tr>
<td>State Well No.</td>
<td>4934-02</td>
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<tr>
<td>Well Name</td>
<td>Pohakea</td>
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<tr>
<td>Island</td>
<td>Maui</td>
</tr>
<tr>
<td>Drilling Company</td>
<td>Wailani Drilling Inc.</td>
</tr>
<tr>
<td>Drilling method used during construction</td>
<td>Percussion</td>
</tr>
<tr>
<td>Date Well Construction completed</td>
<td>5/10/04</td>
</tr>
<tr>
<td>Initial water-level encountered</td>
<td>340 ft. below ground</td>
</tr>
<tr>
<td>Date and time of measurement</td>
<td>4/23/04</td>
</tr>
<tr>
<td>Step-Drawdown Test completed</td>
<td>Yes</td>
</tr>
<tr>
<td>Date and time of measurement</td>
<td>5/13/04</td>
</tr>
<tr>
<td>Constant Rate Aquifer Test completed</td>
<td>Yes</td>
</tr>
<tr>
<td>Date and time of measurement</td>
<td>5/13/04</td>
</tr>
<tr>
<td>Water-level</td>
<td>7.43 ft. above msl</td>
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<tr>
<td>Date and time of measurement</td>
<td>5/13/04</td>
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<tr>
<td>Chloride</td>
<td>160 ppm</td>
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<tr>
<td>Date and time of sampling</td>
<td>5/13/04</td>
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<tr>
<td>Temperature</td>
<td>72.2°F</td>
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<tr>
<td>Date and time of measurement</td>
<td>5/13/04</td>
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<td>Licensed Driller</td>
<td>Michael Robertson</td>
</tr>
<tr>
<td>Signature</td>
<td>Michael Robertson</td>
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<tr>
<td>Date</td>
<td>5/25/04</td>
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<tr>
<td>Permittee</td>
<td>Avery B. Chumbley</td>
</tr>
<tr>
<td>Signature</td>
<td>6-7-04</td>
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<tr>
<td>Remarks</td>
<td></td>
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**13. AS-BUILT WELL SECTION** (Please attach as-built if different diagram provided below)

<table>
<thead>
<tr>
<th>Benchmark elevation:</th>
<th>3.21 ft., msl* (Survey to nearest 0.01 ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elevation at top of casing: 3.212 ft., msl* (to nearest 0.01 ft.)</td>
<td></td>
</tr>
<tr>
<td>Hole Diameter: 12.5 in.</td>
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</tr>
<tr>
<td>Minimum of 2' Radius &amp; 4&quot; Thick Concrete Pad</td>
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</tr>
<tr>
<td>Ground Elevation: 3.20 ft., msl</td>
<td></td>
</tr>
</tbody>
</table>

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

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

---

**NOTES:**

- Solid Casing: (≥ 90% x (Ground Elev.-Water Level Elev.))
  - Length: 330 ft
  - Nominal Diameter: 6 in
  - Wall Thickness: 5/8 in
  - Bottom Elevation: -39.57 ft, msl

- Open Casing:
  - Pressure Pipe conforming to ASTM A409 (monitor wells)
  - 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

- Total Depth: 350 ft

---

**HAWAII WELL CONSTRUCTION AND PUMP INSTALLATION STANDARDS**

Please refer to the standards to ensure that your as-built is in compliance with applicable standards.

---

**POHAKEA**

---

WCR1 Form 9/12/01 Page 2 of 4
### DRILLER'S LOG

**WELL NUMBER:** 4331-02  Polakea

<table>
<thead>
<tr>
<th>Depths (ft.)</th>
<th>Rock Description, Water Level, etc.</th>
<th>Dates</th>
<th>Depths (ft.)</th>
<th>Rock Description, Water Level, etc.</th>
<th>Dates</th>
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<tbody>
<tr>
<td>0 to 10</td>
<td>Topped + Boulder 4/22/04</td>
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<tr>
<td>10 to 30</td>
<td>Soft Tan Rock + Clay</td>
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<tr>
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<td>Hard Tan Rock</td>
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<td>100 to 125</td>
<td>Brown Soft Rock</td>
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<td>125 to 175</td>
<td>Loose Soil + Boulder 4/23</td>
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<td>175 to 250</td>
<td>Blueved Soft</td>
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<td>250 to 340</td>
<td>Blueved Hard</td>
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<td>340 to 350</td>
<td>Hard + Soft Under Formation</td>
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</tbody>
</table>

**Remarks:**
STEP-DRAWDOWN PUMP TEST DATA
(not required for wells producing < 100,000 gpd or 70 gpm)

Pumped Well No. 4831-02  Observation Well No. NA
Pumped Well Name Po'okea  Distance between Obs. & Pumped Well 84 ft
Target Q 330 gpm  Reference pt. for depth to water 321.53 ft msl

Water level measurements by: ☑ electrical sounder  ☐ pressure transducer  ☐ airline

START TEST Date: 5/13/94  Time of day: 10:00 AM
Flow Meter Reading Start: 236.94 gallons

<table>
<thead>
<tr>
<th>Suggested Elapsed time (min)</th>
<th>Actual Elapsed Time (min)</th>
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Data in this table is for: ☑ Pumped Well  ☐ Observation Well

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**SDPTD Form 5/03**

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Max possible duration, water level or quality did not stabilize for any 24 period

Begin recovery data next page

Flow meter reading at end of pumped period: 45974 gals

---

1. Starting pumping rate Q
2. Minimum length of step period of constant pumping rate
3. Minimum mandatory Chloride (Cl) measurement/sampling at end of every step
4. Use same ending drawdown figure as start for recovery
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END TEST Date: 5/13/94 Time of day: 11:40 AM
ADDITIONAL REMARKS: ____________________________

Person in charge of pump test (print): Michael Robertson
Signature: ____________________________

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

- **Pumped Well No.:** [463 + 03]
- **Observation Well No.:** [463 + 04]
- **Pumped Well Name:** [463 + 09] Kea
- **Distance between Obs. & Pumped Well:** [463 + 10] ft.
- **Target Q:** 330 gpm
- **Reference pt. for depth to water:** 321.5 ft. msl
- **Static Water Level @ start of test:** 7.43 ft. msl

Water level measurements by:  
- ☑ electrical sounder  
- ☐ pressure transducer  
- ☐ airline

#### START TEST
- **Date:** 5/14/04
- **Time of day:** 10:00 AM

Flow Meter Reading Start: 459.74 gallons

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1 Chloride sampling required  
2 Use same ending drawdown figure as start for recovery  

Max possible duration, water level or quality did not stabilize for any 24-hour period.  
Begin recovery data next page  
Flow meter reading at end of pumped period: 520999 gals  

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END TEST Date: 5/15/24 Time of day: 10:08 AM

ADDITIONAL REMARKS: ____________________________________________

Person in charge of pump test (print): ________________

Signature: ________________

The signature above indicates that the data reported on this form is accurate and true to the best of the person's knowledge who operated this pump test.
FLOW RANGE: 60 - 410 GPM
OUTLET SIZE: 3" & 4" NPT*
NOMINAL DIA. 6"

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
4" MOTOR STANDARD, 7.5 HP/3450 RPM.
6" MOTOR STANDARD, 15-60 HP/3450 RPM.
8" MOTOR STANDARD, 75 HP/3525 RPM.
* 3" NPT 2-6 STAGES, 4" NPT 7-18 STAGES.

Performance conforms to ISO 9906 Annex A @ 8 ft. min. submergence.
Return Receipt Fax Memo

For: Charlie Ice

Charlie. Enclosed are the following items:

- Signed Well Construction permit for Waihee Sarasin
- Signed Well Construction permit Applications, maps, sma and $50.00 check
- For Rick Holt - Peahi Farms
- Signed Well Construction permit for Pohakea, Well no 4831-02 *Start Work*
- WCR part I for Opana Pt. #2 well No. 5617-03

Please confirm receipt by checking off the enclosed items and faxing a copy of this memo to me at 808-322-6797.

From: Michael Robertson

Thank you:

Michael Robertson

Copy of PIP

To Geo. Yuen
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- check well data - 4930-01 instead of 4931-02 ?
Date 4/28/2004

To: Charley Ice
For: Water Resource Commission
Re: Start Work Notice

Dear Charley:

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

Pohakea, Well No. 4831-02

Please fax receipt form to me to confirm.

Thank You,

Michael Robertson

Certified By The National Groundwater Association
WELL CONSTRUCTION PERMIT

Pohakea, Well No. 4831-02

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

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the construction and testing of Pohakea (Well No. 4831-02) at Foot of Kaunoa Hill, Wailua, Kauai, TMK 3-6-4-3, 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 of the Commission on Water Resource Management (Commission), P.O. Box 821, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.

2. The well construction permit shall be for construction and testing of the well only. A minimum 1½-Inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee, well operator, and/or well owner shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a pump testing worksheet is attached). The permittee, well operator, and/or well owner shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump and withdraw water for use. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson.

3. In basin ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basin 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.
   f. The permittee, well operator, and/or well owner shall comply with all applicable laws, rules, and ordinances: non-compliance may be grounds for revocation of this permit.

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

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 §13-168-120 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: February 25, 2003
Expiration Date: February 25, 2005

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and undertaking 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 with the permit date of approval.

Permittee's Signature: [Signature]
Printed Name: Michael Robertson
Firm or Title: Wailua Irrigation Co.

Driller's Signature: [Signature] C-57 License #: 2015 Date: 4/1/04
Printed Name: Michael Robertson
Firm or Title: Wailua Irrigation Co.

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

Attachment:

USGS
Division of Health Safe Drinking Water, Wastewater, and Clean Water Branches
Water Department of Water Supply
Wailua Drilling, Inc.
To: Charley Ice  
For: Water Resource Commission  
Re: Start Work Notice

Dear Charley:

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

Pohakea, Well No. 4831-02

Please fax receipt form to me to confirm.

Thank You,

Michael Robertson

Certified By The National Groundwater Association
WELL CONSTRUCTION PERMIT
Pohakea, Well No. 4831-02

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 Pohakea (Well No. 4831-02) at Foot of Kaunohaua Ridge, Waikapu, Maui, TMK 3-6-4-3, subject to the Hawaii Well Construction & Pump Installation Standards (123/97) 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 §13-168-15, Hawaii Administrative Rules.

2. The well construction permit shall be for construction and testing of the well only. A minimum 1½-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee, well operator, and/or well owner shall coordinate with the Chairperson and conduct a pump testing in accordance with the Standards (a pump testing worksheet is attached). The permittee, well operator, and/or well owner shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump and withdraw water for use. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson.

3. In bedrock ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the bedrock 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 inflow conditions. This permit or the authorization to construct the well shall not constitute a determination of competitive water rights.

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

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

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

10. The permit may be revoked by the Commission if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee, well operator, and/or well owner notice of the proposed action and an opportunity to be heard.

11. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee, well operator, and/or well owner must apply for a well abandonment permit in accordance with §13-168-12(10) prior to any 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: February 25, 2003
Expiration Date: February 25, 2005

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying conditions 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 $100 per day starting from the permit date of approval.

Permittee's Signature: ____________________________ Date: 4/10/03
Printed Name: Robert C. Young, Firm or Title: Whiloku Agribusiness Co Inc

Driller's Signature: ____________________________ Date: 4/10/04
Printed Name: Michael 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
Maui Department of Water Supply
Wailani Drilling, Inc.
HAWAI'I HISTORIC PRESERVATION DIVISION REVIEW

Log #: 31837
Doc #: 0303CD24

Applicant/Agency: Dean A. Nakano, Acting Administrator
Commission on Water Resource Management
Address: P.O. Box 621
Honolulu, HI 96809

SUBJECT: Chapter 6E-42 Historic Preservation Review – Well Construction/Pump Installation Permit Application for the Proposed Pohakea (Well No.4831-02) [State/COWRM]

Ahupua'a: Waikapu
District, Island: Wailuku
TMK: (2) 3-6-004:003

1. We believe there are no historic properties present, because:

✓ a) intensive cultivation has altered the land
__ b) residential development/urbanization has altered the land
✓ c) previous grubbing/grading has altered the land
_ d) an acceptable archaeological assessment or inventory survey found no historic properties

✓ e) other: In the event that historic sites (human skeletal remains, etc.) are identified during the construction activities, all work needs to cease in the immediate vicinity of the find, the find needs to be protected from additional disturbance, and the State Historic Preservation Office needs to be contacted immediately at 243-5169, on Maui, or at (808) 692-8023, on O'ahu.

2. This project has already gone through the historic preservation review process, and mitigation has been completed __.

✓ Thus, we believe that “no historic properties will be affected” by this undertaking

Staff: Cathleen A. Dagher
Assistant Maui/Lana'i Island Archaeologist
(808) 692-8023

Date: 04 March 2003
March 5, 2003

Ref:4831-01.wcp

Mr. Paul Hallin
A&B Properties
P.O. Box 3440
Honolulu, HI 96813

Dear Mr. Hallin:

Well Construction Permit
Pohakea (Well No. 4831-02)

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

Special Conditions

1. Attached for your information is a copy of the Department of Health's (DOH) review comments. Please note DOH's requirements related to discharge of effluent from well drilling and testing activities.

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

"Permanent pump installation for capacities between 0-70 gpm and where the proposed use is for private individual needs in non-ground-water management areas may be allowed prior to the final pump installation permit issuance. When required as a condition of the well construction permit, subsequent pumping tests shall validate the acceptability of the permanent pump. The permanent pump installed prior to final pump installation permit issuance is subject to removal if the testing shows that a smaller pump is required to reduce the potential of affecting neighboring wells and localized upconing at the applicant's well."
If you qualify and wish to take advantage of this ruling, please include a written request to install the permanent pump prior to final pump installation permit issuance when you return to us your signed well construction permit.

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

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

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

Sincerely,

[Signature]

Peter T. Young
Chairperson

Enclosures

Enclosures

c: Wallani Drilling, Inc.
In accordance with Department of Land and Natural Resources, Commission on Water Resource Management’s Administrative Rule Section 13-168, entitled “Water Use, Wells, and Stream Diversion Works”, this document permits the construction and testing of a well at Foot of Kaunoahua Ridge, Waikapu, Maui, TMK 3-6-4:3, subject to the Hawaii Well Construction Permit Installation Standards (1/23/97) which include but are not limited to the following conditions:

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

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

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

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

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

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

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

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

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

10. The permit may be revoked by the Commission if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon 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: February 25, 2003
Expiration Date: February 25, 2005

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until 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

USGS
Department of Health Safe Drinking Water, Wastewater, and Clean Water Branches
Maui Department of Water Supply
Waialani Drilling, Inc.
COMMISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR PERMIT ISSUANCE

FROM: CHARLEY                     DATE: 05 MAR 03  SUSPENSE DATE: ______________________

TO:                                INIT: __________  TO: __________  INIT: __________  FOR: __________
BAUER, G.                        KUNIMURA, I.  3  Approval
CHING, F.                        NAKASU, T.  3  Signature
DANBARA, S.                      NAKAMURA, L.  4  Information
FUJI, N.                         NAKANO, D.  2
GOODING, K.                      NISHIOKA, L.  1
HARDY, R.                        OHYE, M.  1  Review & Comment
HIGA, D.                         SAKODA, E.  2  Take Action
HIRANO, E.                       SUBIA, S.  2  Type Draft
ICE, C.                          SWANSON, S.  5  Type Final
JINNAI, R.  5

WELL NUMBER 4831-02  WELL NAME Poliheka

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

TO BE SENT TO APPLICANT

FOR OFFICE USE ONLY

ATTACHMENTS FOR PUMP INSTALLATION PERMIT:
1 COVER LETTER
2 PERMIT (2x)
 COMMENTS:
3 SDWB  4 WWB
5 CBW
6 HEER
7 LD
8 HP
9 WCR II FORM
10 WUR FORM
11 GLENN'S WORKSHEET

FOR OFFICE USE ONLY

PLEASE:
See Me
1 Review & Comment
Take Action
2 Type Draft
File
3 Xerox __ copies
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 621
HONOLULU, HAWAII 96809

February 6, 2003

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

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

SUBJECT: Well Construction/Pump Installation Permit Application
Pohakea (Well No. 4831-02)

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

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by February 17, 2003. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Charley F. Ice of the Commission staff at 587-0251.

CFI:ss
Attachment(s)

RESPONSE:

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

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

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

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

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

[ ] An NPDES permit is required.

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

[ ] No comments/objections

Contact Person: Lori N. Kajiwara
Phone: 587-0251
Date: 2/21/2003

Signed: Lori N. Kajiwara
Facsimile Request and Cover Sheet
Wastewater Branch
919 Ala Moana Blvd. Room 309
Honolulu, Hawaii 96814-4920
(808) 586-4294 Fax (808) 586-4300

Date: FEB 20

To: Roland Tejano, Maui District Health Office

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

Subject: Request for Information

Do you have any IWS files or records on or nearby for the following well site:

(2) 3. 6. 4 : 3 Pohakua
Kaunamua Ridge

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

File # If applicable: ________ # of Bedrooms ________

Record Date: __________________________
Submit Date: __________________________
Plan Approval Date: ______________________
Inspection Date: _________________________
System "Approval for Use" Date: ________________

Other: ___________________________________
________________________________________
________________________________________

Please fax site/plot plan if available. Thank you.
LINDA LINGLE
GOVERNOR OF HAWAII

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 621
HONOLULU, HAWAII 96809

February 6, 2003

TO: Dede Mamiya, Administrator
Land Division

FROM: Dean A. Nakano, Acting Deputy Director
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
Pohakea (Well No. 4831-02)

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

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by February 17, 2003. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Charley F. Ice of the Commission staff at 587-0251.

CFI: ss
Attachment(s)

RESPONSE:

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

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

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

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

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

No objections

Other comments: Original source of private title is Grant 3152 issued prior to Statehood in 1959.

Contact Person: Gary Martin Phone: 587-0421

Signed: Gary Martin Date: FEB 19 2003
TO: Honorable Chiyome L. Fukino, M.D., Director  
Department of Health  
Attention: Dennis Tulang, Wastewater Branch  
William Wong, Safe Drinking Water Branch  
Dr. Keith Kawaoka, Hazardous Evaluation and Emergency Response  
Alec Wong, Clean Water Branch  

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

SUBJECT: Well Construction/Pump Installation Permit Application  
Pohakea (Well No. 4831-02)  

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

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by February 17, 2003. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Charley F. Ice of the Commission staff at 587-0251.

CFI: ss  
Attachment(s)  

RESPONSE:  

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

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

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

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

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

☑ An NPDES permit is required.

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

☑ No comments/objections.

Contact Person: Bill Wong  
Phone: 586-4358  

Signed: Bill Wong  
Date: FEB 3 2003
TO: Honorable Chiyoue L. Fukino, M.D., Director
Department of Health
Attention: Dennis Tulang, Wastewater Branch
William Wong, Safe Drinking Water Branch
Dr. Keith Kawoaka, Hazardous Evaluation and Emergency Response
Alec Wong, Clean Water Branch

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

SUBJECT: Well Construction/Pump Installation Permit Application
Pohakea (Well No. 4831-02)

February 6, 2003

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

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by February 17, 2003. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Charley F. Ice of the Commission staff at 587-0251.

CFI:ss
Attachment(s)

RESPONSE:

[1] This well qualifies as a source which will serve as a source of potable water to a public water system (defined as serving 25 or more people at least 60 days per year or has 10 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Potable Water Systems, §11-20-29.

[1] This well does not qualify as a source serving a public water system (serves less than 25 people or more people at least 60 days per year or 10 service connections) and if the well water is used for drinking, the private owner should test for bacteriological and chemical presence before initiating such use and routinely monitor the water quality thereafter. However, if future planned use from this source increases to meet the public water system definition then Director of Health approval is required prior to implementation.

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

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

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

[1] An NPDES permit is required.

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

[xx] No comments/objections

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

Signed: Date: 2/12/03

Fax to: Commission on Water Resources Mgt. 587-0219
February 6, 2003

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

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

SUBJECT: Well Construction/Pump Installation Permit Application
         Pohakea (Well No. 4831-02)

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

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by February 17, 2003. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Charley F. Ice of the Commission staff at 587-0251.

CFI:ss
Attachment(s)

RESPONSE:

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

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

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

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

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

[ ] An NPDES permit is required.

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

[ ] No comments/objections

Contact Person:  Alec Wong  Phone:  586-4309

Signed:  Alec Wong  Date:  2/14/03
The Department of Health, Clean Water Branch has the following comments:

1. **For Well-Drilling Activities**

Any discharge to State waters of treated process wastewater effluent associated with well drilling activities is regulated by Hawaii Administrative Rules, Title 11, Chapter 55, Appendix I, effective September 22, 1997. Treated process wastewater effluent covered by this general permit includes well drilling slurries, lubricating fluids wastewaters, and well purge wastewaters. This general permit does not cover well pump testing. The applicable Notice of Intent Forms and filing fee shall be submitted at least thirty (30) days before the start of discharge to the Department of Health, Clean Water Branch at 919 Ala Moana Boulevard, Room 301, Honolulu, Hawaii 96814-4920 or P.O. Box 3378, Honolulu, Hawaii 96801-3378. Inquiries may be directed to the Clean Water Branch at (808) 586-4309 or by fax at (808) 586-4352.

2. **For Well Pump Testing**

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

JS/cr
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REMARKS: LINE (1) Well No. 4831-02
LINE (2)
LINE (3)
LINE (4)

MINK AND YUEN INC
1670 KALAKAUA AVE STE 605
HONOLULU, HI 96826-2442

WCMA® Working Capital Management Account

DATE: 1-16-03

PAY TO THE ORDER OF: Dept. Land + Natural Resources $25.00
Twenty-Five + 00 DOLLARS

Merrill Lynch
BANK ONE, BANK ONE COLUMBUS, NA

MEMO:
4162
Mr. Paul Hallin  
A&B Properties  
P.O. Box 3440  
Honolulu, HI 96801

Dear Mr. Hallin:

Well Construction/Pump Installation Permit Application for Well No. 4831-02

We acknowledge receipt, on January 21, 2003, of your completed Well Construction/Pump Installation permit application and filing fee for the Pohakea (Well No. 4831-02). You can expect your application to be processed within ninety (90) days from this date.

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

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

Sincerely,

DEAN A. NAKANO
Acting Deputy Director
February 6, 2003

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

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

SUBJECT: Well Construction/Pump Installation Permit Application
Pohakea (Well No. 4831-02)

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Please find the attached maps to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Charley F. 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, §11-20-29.

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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).

[] An NPDES permit is required.

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

[] No comments/objections

Contact Person: ____________________________ Phone: ____________________________

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

FROM: Dean A. Nakano, Acting Deputy Director
      Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
         Pohakea (Well No. 4831-02)

February 6, 2003

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CFI: ss
Attachment(s)

RESPONSE:
[ ] A water lease/permit is required of this applicant and an application for such will be requested by our division.
[ ] A water lease/permit is not required of this applicant.
[ ] A water lease/permit has been obtained by the applicant through lease no. ________________________.
[ ] This well project [ ] requires [ ] does not require a CDUP. If a CDUP is required it [ ] has [ ] has not been approved and [ ] is [ ] is not currently active.
[ ] Other relevant Land Division rules/regulations, information, or recommendations are attached.
[ ] No objections
[ ] Other comments:

Contact Person: ___________________________ Phone: __________

Signed: _________________________________ Date: ________
February 6, 2003

TO: Holly McEldowney, Acting Administrator
   Historic Preservation

FROM: Dean A. Nakano, Acting Deputy Director
      Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
         Pohakea (Well No. 4831-02)

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about this permit application, request additional information, or request additional review time,
please contact Charley F. Ice of the Commission staff at 587-0251.

CFI:ss
Attachment(s)

RESPONSE:

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

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

[ ] No objections

[ ] Other comments:

Contact Person: ____________________________  Phone: _____________

Signed: ____________________________  Date: _____________
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<th>4831-02</th>
<th>Date of Review</th>
<th>3/5/2003</th>
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<td>Well Name</td>
<td>Pohakea</td>
<td>Reviewer</td>
<td>RRI</td>
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<tr>
<td>Applicant</td>
<td>A&amp;B Properties</td>
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**SECTION 1: WELL LOCATION INFORMATION**

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<tr>
<th>Island</th>
<th>MAUI</th>
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<th>Municipal</th>
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<td>Aquifer System</td>
<td>WAILUKU</td>
<td>Proposed Withdrawal</td>
<td>500000</td>
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<td>Aquifer Sector</td>
<td>WAIKAPU</td>
<td>System Sustainable Yield</td>
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**SECTION 2: WELL SECTION DATA** (enter data in grey cells only)

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<thead>
<tr>
<th>Elevation at top of casing</th>
<th>321 ft., m.s.l.</th>
<th>Solid Casing</th>
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<tr>
<td>Ground Elevation</td>
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<td>Cement Grout</td>
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<td>Rock Packing</td>
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<td>Hole Diameter</td>
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<td>Calculated Aquifer Thickness</td>
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<td>County Water Supply (Y/N ?)</td>
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**SECTION 3: CHECKLIST** (values to check are shaded)

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<th>Well Depth</th>
<th>Theoretical Thickness of Aquifer</th>
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<td>Depth of Well below Sea Level</td>
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<td>Well Casing</td>
<td>Minimum Wall Thickness Material</td>
<td>Steel</td>
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<td>Minimum Thickness per standards</td>
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<td>HONOAPIILANI HWY</td>
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This information has been supplied by third parties and has not been independently verified by Hawaii Information Service and is, therefore, not guaranteed.
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<th>Approved Well No.</th>
<th>Well Name</th>
<th>Applicant</th>
<th>Driller</th>
<th>Type</th>
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<td>Summit Trade Inc.</td>
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<td>Maui County Parks Dept.</td>
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<td>10/3/2001</td>
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<td>Len Gomes Jr.</td>
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<td>Roger Wark</td>
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<td>Well Name</td>
<td>Applicant</td>
<td>Driller</td>
<td>Type</td>
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<td>Pump Installation</td>
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**COMMISSION ON WATER RESOURCE MANAGEMENT**  
**ROUTE SLIP FOR NEW APPLICATIONS**

**FROM:** CHARLEY  
**DATE:** 24-Jan-03  
**SUSPENSE DATE:**

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<td>JINNAI, R.</td>
<td>KUNIMURA, I.</td>
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**WELL NUMBER:** 4831-02  
**WELL NAME:** Pohakea  
**WELL CONSTRUCTION:** ✑  
**PUMP INSTALLATION:** ✑  
**BOTH:** ✑

**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. ✑  
7. 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:**

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

Please verify with this printout.

Was actually included - forgot to ✓
# Well Background Check

<table>
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<tr>
<th>Approved Well No.</th>
<th>Well Name</th>
<th>Applicant</th>
<th>Driller</th>
<th>Type</th>
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Ed -

Thanks for your letter -
Ms. Nate Paul Hallin at BCC as contact person - also well done.

Thanks,
George
Permitting Requirements

Well No. 4831-02  Name Poalera

Application: □ Well Construction  □ Pump Installation  ✔ Both

complete for review 21 Jan 03  comment:
Response:
SDW 18 Feb
WW 26 Feb 03
CW 14 Feb
HEER 14 Feb
LD 19 Feb
HP

Well Construction Permit approved 25 Feb 03 issued 5 Mar 03 extended
signed copy returned  expiration notice

Well Completion Report Part 1 received accepted
comment:


Pump Installation Permit approved issued extended
signed copy returned expiration notice

Well Completion Report Part 2 received accepted
comment:

Commission Action Required:

Action Taken
Action Notice

Resolution:
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
APPLICATION FOR PERMIT
Well Construction and/or Pump Installation

APPLICANT INFORMATION: (Fill out only if applicable, and place a check mark in the primary contact)
1. (a) WELL OWNER: A&B Properties, Inc. Contact Person: Paul Hallin
   Address: P.O. Box 249-0 Honolulu 96821
   Phone: (808) 255-4461
   Fax: (808) 672-0821
2. (b) LAND OWNER: Waialua Agribusiness, Inc. Contact Person: Avery Chambery
   Address: 586 East Wailea Road, Waialua, Hawaii 96796
   Phone: (808) 242-7068
   Fax: (808) 242-7068
3. (c) CONTRACTOR: Waialua Drilling Co. Contact Person: Mike Robertson
   Address: 655 Puakea Rd, Haiku, HI 96718
   Phone: (808) 272-0915
   Fax: (808) 272-0915

WELL & PUMP INFORMATION: (Please fill in the diagram on the back of the form.)
2. WELL NAME: Poloha'e Island: Maui
   Address: Kaunamakua Ridge Tax Map Key: 3 6 04 02
   Attach the relevant portion of (a) a 7.5-minute USGS topographic map (scale: 1:24,000) and include the name of the quadrant, and (b) a
   property tax map, showing well location referenced to established property boundaries.
3. PROPOSED WORK: (check all that apply)
   Yes: Construct New Well
   Yes: Modify Existing Well
   Yes: Abandon/Seal
   *State Well No.: 4821-02 (if unknown, please call Commission at 808-622-2225)
4. CONSTRUCTION: Yes: Cistern  Yes: Dug  Yes: Shaft  Yes: Tunnel
   Is this well part of a battery of wells?  Yes  No  (Please describe)
5. PROPOSED PUMPING RATE: 4.00 gallons per minute
6. PROPOSED USE: (check all that apply)
   Yes: Municipal (including hotels, stores, etc.)
   Yes: Domestic (individual, noncommercial water system)
   Does this well serve 25 or more people at least 60 days per year or have 15 or more service connections?  Yes  No
   Yes: Irrigation (crop)
   Yes: No. of Acres:
   Yes: Military
   Yes: Other (explain):
7. (a) PROPOSED AMOUNT OF WITHDRAWAL:
   Yes: Flowmeter  Yes: Open-pipe  Yes: Weir  Yes: Office  Yes: Other (explain)
   (b) METHOD OF FLOW MEASUREMENT:
   500,000 gallons per day
   Other important information:
8. LEGAL REQUIREMENTS:  Yes: DCP  Yes: SMAP  Yes: EIS  Yes: EA
   9. REMARKS, EXPLANATIONS:
   Production of water for subdivision use
   Note: Other (explain)
   (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 six (6) months; 2) I consent to the Commission's 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; and 4) such approval shall not constitute a determination of conclusive water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner: Michael Robertson (print legibly) Landowner: Waialua Agribusiness, Inc.
Signature: ____________________________ Date: __________
Contractor: Waialua Drilling Co. (print legibly)
Signature: ____________________________ Date: __________

For official use only
Latitude ____________________________
Longitude ____________________________
Aquifer System No. __________________
State Well No. ____________________

WOPRA Form 1925-00
10. PROPOSED WELL SECTION (Please attach schematic if different from diagram provided below)

Elevation at top of casing: \( \text{ft} \), mas\(^*\)

Hole Diameter: \( \frac{12}{2} \text{ in.} \)

Cement Grout: \( 3:10:1 \) (min. 70% of distance from ground elevation to top of water surface or 520 ft, whichever is less)

Annual space between hole and casing (min. 23)

Total Depth: \( \text{ft.} \)

Rock or Gravel Packing: \( \frac{2}{3} \) in.

Material: Crushed Basalt \( \times \) Round Gravel

Estimated Water Level Elevation: \( \text{ft}, \text{mas} \)

Solid Casing: \( \frac{1}{2} \text{ in.}(\text{Ground Elev. - Water Level Elev.}) \)

Total Length: \( \text{ft.} \)

Nominal Diameter: \( \text{in.} \)

Wall Thickness: \( \text{in.} \)

Bottom Elevation: \( \frac{4}{10} \text{ ft}, \text{mas} \)

Open Casing: \( \square \) Perforated \( X \) Screen

Total Length: \( \text{ft.} \)

Nominal Diameter: \( \text{in.} \)

Wall Thickness: \( \text{in.} \)

Bottom Elevation: \( \frac{4}{10} \text{ ft}, \text{mas} \)

Open Hole:

Length: \( \text{ft.} \)

Diameter: \( \text{in.} \)

Bottom Elevation: \( \frac{4}{10} \text{ ft}, \text{mas} \)

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

For re-fill wells, well depth must not be deeper than 1/4 of aquifer thickness or:

Bottom Elevation of Well Limit = \( \text{Water Elevation} + \frac{4}{10} \text{ft.} \)

Example: Estimated Water Level = \( \frac{2}{3} \text{ in.} \) - Bottom Elevation of Well Limit = \( \left( \frac{2}{3} \text{ in.} + \frac{4}{10} \text{ft.} \right) \times \frac{1}{10} \text{ in.} = 0.1 \text{ in.} \)

**Solid Casing Material:**

- Carbon Steel: compliant (check one or more): \( \square \) ANSIAWWA C200 \( \square \) API Spec 5L \( \square \) ASTM A53 \( \square \) ASTM A139
  - And compliant (check one or more): \( \square \) ASTM A234 \( \square \) Type B \( \square \) Grade B \( \square \) Other
- ABS Plastic conforming to ASTM F480 and ASTM D1587, (check one): \( \square \) Schedule 40 \( \square \) Schedule 80
- PVC Plastic conforming to ASTM F490 and (ASTM D1785 or ASTM D2241), (check one): \( \square \) Schedule 40 \( \square \) Schedule 80 \( \square \) Schedule 120
- Thermoset Plastic: (check one)
  - Reinforced/Wound Pipe conforming to ASTM D2998
  - 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 C550
  - PTFE Fluorocarbon Tubing conforming to ASTM D3206
  - FEP Fluorocarbon Tubing conforming to ASTM D3205

**Open Casing Material:**

- Carbon Steel: compliant (check one or more): \( \square \) ANSIAWWA C200 \( \square \) API Spec 5L \( \square \) ASTM A53 \( \square \) ASTM A139
  - And compliant (check one or more): \( \square \) ASTM A234 \( \square \) Type E \( \square \) Type B \( \square \) Grade B \( \square \) Other
- Stainless Steel: (check one): \( \square \) ASTM A 409 (production weld) \( \square \) ASTM A312 (monitor weld)
- ABS Plastic conforming to ASTM F490 and ASTM D1587, (check one): \( \square \) Schedule 40 \( \square \) Schedule 80
- PVC Plastic conforming to ASTM F490 and (ASTM D1785 or ASTM D2241), (check one): \( \square \) Schedule 40 \( \square \) Schedule 80 \( \square \) Schedule 120
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  - PTFE Fluorocarbon Tubing conforming to ASTM D3206
  - FEP Fluorocarbon Tubing conforming to ASTM D3205
Proposed Well Site
TMK 3-6-04:03