**CHECKLIST**

**WELL CONSTRUCTION PERMIT**

- **WELL NAME or LOCATION:** Kihei, Maui R&D Well
- **WELL NUMBER:** 4426-03
- **Tax Map Key:** 2-2-02-54

**OWNER/OPERATOR:**
- **Firm Name:** William McMahon
- **Address:** 300 Ohukai Rd, Kihei, Maui, HI 96753
- **Phone:** 875-0500

**LANDOWNER:**
- **Firm Name:** Same
- **Address:**
- **Phone:**

**Date application received:** 2-15-91
**Date acknowledged receipt/request more info:**
**Date application accepted:**
**Suspense date (90 days):**
**Date filing fee deposited:** $25

**Application sent to following:**
- Dept. of Health
- Dept. of Hawn Home Lands
- Dept/Bd of Water Supply
- Historic Preserv. Prog.
- Koolauloa NB #28 (Oahu)
- Dept. Pub. Wrks (Hawaii)
- Office of Hawaiian Affairs

**Date sent** | **Comments received**
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**Date agenda due:**
**Date submittal due:**
**Date submittal sent to applicant:**
**Date application approved or disapproved:**
**Date applicant notified of decision:**

**REMARKS:**

ED has pump install app.

Call

Love B.

4-2-91
CHECKLIST

✓ WELL CONSTRUCTION PERMIT   _PUMP INSTALLATION PERMIT

WELL NAME or LOCATION: Kihei - Maui R+ T Well  ISLAND: Maui

WELL NUMBER: 4426-03  Tax Map Key: 2-2-02-54

OWNER/OPERATOR:
Firm Name: Maui R+ T Partners
Contact Person: Mike Bougian
Address: 120 Kean St., Kahului, HI 96732
Phone: 871-6802

LANDOWNER:
Firm Name: same
Address: 
Phone: 

Date application received.......................... 5-22-90
Date acknowledged receipt/request more info... 6-7-90
Date application accepted..........................
Date suspension date (90 days)....................... 
Date filing fee deposited..........................

Application sent to following:

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Date agenda due............................... 
Date submittal due............................
Date submittal sent to applicant............

Date application approved or disapproved... 7-25-90
Date applicant notified of decision......... 8-3-90

REMARKS: * well
4/1/90 called Wm. Monahan re: 4/17 CWEM mtg.
COMMISSION ON WATER RESOURCE MANAGEMENT

FROM: Charley

DATE: 24 Nov 10

TO:

- IMATA, R.
- UYENO, D.
- CHONG, R.
- FUJII, N.
- KIMURA, J.
- YOSHINAGA, M.
- KUNIMURA, I.

INIT.

TO:

- TAM, W.
- HARDY, R.
- OHYE, L.N.
- HOAGBIN, S.
- DANBARRA, S.
- YODA, K.

INIT.

FOR:

- Approval
- Signature
- Information

PLEASE:

- Review & Comment
- Type Draft
- Type Final
- File
- Copies:
- Take Action:

________

- Please See Me

Mark RdT Park (orig-Well (4426-03))

Thanks - updated well index. 3/39/11
Charley,

I'm sorry it took so long to get you this info:

Steve,

I saw I had forgotten to follow up on this.

Here you go if you still need it:
Well Head (Deg Min Sec):
Lat: 20 44 45.77293 N
Long: 156 26 32.98358 W

If you'd be so kind as to take a look at the GoogleEarth images, and take note of these coordinates:
original plot: lat: 20 deg, 44 min., 44 sec; long: 156 deg, 26 min, 31 sec
estimated correct plot: lat: 20 deg, 44 min, 45.68 sec; long: 156 deg, 26 min, 32.87 sec

We hope the second is closer to an accurate reading -- so if you can compare the photo image with what you see on the ground, and the estimated coordinates with your finding, that would be great!
I will go down and get the lat/lon tomorrow w/ my phone GPS and send it to you-steve

From: Charley.F.Ice@hawaii.gov [mailto:Charley.F.Ice@hawaii.gov]
Sent: Tuesday, January 18, 2011 3:31 PM
To: Steve Perkins
Subject: Re: Well No. 4426-03.

Yes, I believe it must be brackish, and was intended for irrigation. We need accurate latitude and longitude, using the NAD 83 reference base (I think most are using this base)

Steve Perkins <stevep@pacificrimland.com>

01/18/2011 02:39 PM

Hello Mr. Ice,

I'm the point of contact for the brackish irrigation well at the Maui R&T Park in Kihei. I'm assuming that is the well number you are looking for?

Please let me know what information you need, and I'm happy to provide it.

Thank you,

Steve

Steve Perkins

Project Coordinator
Pacific Rim Land, Inc.
P.O. Box 220
1300 North Holopono, Suite 201
Kihei, Hawaii 96753

Office: 808-270-5944
From: Jeanne Skog [mailto:skog@medb.org]
Sent: Tuesday, January 18, 2011 2:12 PM
To: Sheila Fujikawa
Cc: Steve Perkins; John Harrison
Subject: Re: Well/High Tech Maui Website Contact

This is for steve Perkins

Sent from my IPhone
Aloha
Jeanne

On Jan 18, 2011, at 11:22 AM, "Sheila Fujikawa" <sheila@medb.org> wrote:

> See John’s email below.
> 
> Sheila
> 
> Sheila A. Fujikawa
> > Executive Assistant
> >
> Maui Economic Development Board, Inc.
> > 1305 North Holopono Street Suite 1
> > Kihei, Hawaii 96753
> > Tel: 808.875.2336
> > Fax: 808.879.0011
> > email: sheila@medb.org
> From: John Harrisson  
> Sent: Tuesday, January 18, 2011 11:17 AM  
> To: Sheila Fujikawa; Diana Papini Warren  
> Subject: FW: FW: Well/High Tech Maui Website Contact  
>  
> Sheila, should Cinnamon or Steve Perkins be getting this? Can you forward, please, and keep me copied?  
>  
> Diana, as our GIS supremo, can you advise?  
>  
> John (out of office today)  
>  
>  
>  
> From: Charley.F.Ice@hawaii.gov [mailto:Charley.F.Ice@hawaii.gov]  
> Sent: Tue 1/18/2011 9:27 AM  
> To: John Harrisson  
> Subject: Re: FW: Well/High Tech Maui Website Contact  
>  
> Thanks very much for your response. The Maui Research and Technology Park owns Well No. 4426-03, which was completed in 1990 by David Pico. We are contacting you as the responsible owner, as we update our records for location accuracy in a time of proliferating wells. We believe the original coordinates we received are a little off, and request your assistance in identifying the correct ones. You should be able to do this with a current GPS system at the well location. Please note the attached well location earth images, one as provided in earlier data, the other as we believe may be more correct.  
>  
>  
> "John Harrisson" <john@medb.org>  
>  
> 01/14/2011 11:44 AM  
>  
> To  
>  
> <charley.f.ice@hawaii.gov>  
>  
> cc  
>  
>  
> Subject  
>  
> FW: Well/High Tech Maui Website Contact  
>  
>
> Aloha Mr. Ice,
>
> MEDB received this email via our High Tech Maui website. Can you clarify your request, please? Is this related to the Research & Technology Park in Kihei, or a specific tenant? I can then (hopefully) direct you to the appropriate source of information.
>
> John
>
> John Harrisson
> Project Director, Research & Analysis
> Maui Economic Development Board, Inc. (MEDB)
> 1305 Holopono St., Suite 1
> Kihei, Maui, HI 96753
>
> (808) 270-6806
>
>
> From: "High Tech Maui"
> Date: January 13, 2011 4:38:57 PM HST
> Subject: High Tech Maui Website Contact
> Reply-To: charley.f.ice@hawaii.gov <mailto:charley.f.ice@hawaii.gov>
>
> Message *
> 
> Please contact us with more accurate location coordinates for your Well No. 4426-03.
> We are updating our Water Commission records, and will send images of the supposed location and more likely one.
>
> Email Address
>
> charley.f.ice@hawaii.gov <mailto:charley.f.ice@hawaii.gov>

> Name
> Charley Ice

>
20° 44' 45.68"
156° 26' 32.07"
To: Maria Zelinski
Company: Maui R&T Partners
Fax Number: 808-871-9056
Phone Number: 808-877-5544

From: Neal Fujii
Date: September 15, 2000
Pages Including Header: 2
Subject: Well monthly water use report

Notes/Comments:
Hi Maria:
Here is the last report that was sent to our office.
October 16, 1995

Mr. Ed Sakoda  
Division of Water Resource Management  
P.O. Box 373  
Honolulu, HI 96809

RE: Kihei-Maui Research & Technology Park Well  
(Pump Installation Permit Well No. 4426-03)

Dear Mr. Sakoda:

TOTAL WATER USAGE FOR WELL NO. 4426-03:  
September 3, 1995-October 1, 1995 = 6,791,000 Gallons

If you have any questions, please call 875-0856.

Sincerely,

MAUI R&T PARTNERS  
Brett Klyver  
Director of Real Estate Development
January 4, 1994

Mr. Ed Sakoda
Division of Water
Resource Management
P.O. Box 373
Honolulu, Hawaii 96809

Re: Kihei-Maui Research & Technology Park Well
(Pump Installation Permit Well No. 4426-03

Dear Mr. Sakoda:

TOTAL WATER USAGE FOR WELL NO. 4426-03:

DECEMBER 1, 1994 - DECEMBER 31, 1994 = 2,937,000 GALLONS

If you have any questions, please call Wendy Pagan or myself at 875-0856. Thank you for your assistance in this matter. Also, please make a note in your records of our address change. We are now located at 550 Lipoa Parkway, Ste. 500, Kihei, Maui, HI 96753. Our phone & fax remain the same.

Sincerely,

METTENBRINK DEVELOPMENT CO.

Timothy A. Mettenbrink
President
PLCAS' DELIVER TO:
NAME: MR. Ed Sakoda
FIRM: DWRM
FAX NO.: 848-6052

THIS FAX IS BEING SENT BY:
MAUI ECONOMIC DEVELOPMENT BOARD, INC.
Brendan Loui
(808) 875-0000 FAX 878-0011
300 Ohukei Rd. Bldg C-3, Suite 501 Kihei, Maui, HI 96753
NUMBER OF PAGES: 2 (INCLUDES THIS COVER SHEET)

RE: PUMP INSTALLATION PERMIT WELL NO. 4426-03,
Kihei, Maui R. & T. WELL

REMARKS: This is a copy of the original to be sent out today. Brendan Loui

IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CONTACT PAM AT (808) 875-0500.
August 27, 1991

Mr. Ed Sakoda
Division of Water Resource Management
P.O Box 373
Honolulu, Hawaii 96809

Dear Mr. Sakoda:

Re: Kihei-Maui R. & T. Well (Pump Installation Permit Well No. 4426-03)

The following is a report of the total water usage for Well No. 4426-03:

May 15, 1991 to June 14, 1991.............2,602,000 gallons/31 days = 0.084 mgd
June 15, 1991 to July 14, 1991.............2,597,000 gallons/30 days = 0.087 mgd
July 15, 1991 to August 14, 1991.............2,593,000 gallons/31 = 0.084

I apologize for not forwarding the pump usage on a monthly basis and I shall forward it monthly in the future.

Sincerely,

Brendan Loui
Maui Economic Development Board, Inc.
Managing Partner
The Honorable William W. Paty, Chairperson  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii  
P.O. Box 621  
Honolulu, Hawaii 96809  

Dear Mr. Paty:  

SUBJECT: WELL CONSTRUCTION PERMIT APPLICATION  
KIHEI-MAUI R. & T. WELL  
STATE WELL NO. 4426-03  
KIHEI, MAUI  

Thank you for the opportunity to review and comment on the subject application.  

Since the proposed well will be used to supply irrigation water for landscaping, the Department's Administrative Rules, Title 11, Chapter 20, "Potable Water Systems," are not applicable. However, in the event that the proposed use were to change, please inform the Safe Drinking Water Branch.  

If you should have any questions, please contact the Safe Drinking Water Branch at 543-8258.  


cc: Mike Bougton  
Maui R. & T. Partners  
120 Kean Street  
Kahului, Maui, HI 96732
PUMP INSTALLATION PERMIT

for

Kihei-Maui R. & T. Well
Well No. 4426-03
Kihei, Maui

TO: Maui R. & T. Partners
300 Ohukai Road
Kihei, HI 96753

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to install a pump in Kihei-Maui R. & T. Well (Well No. 4426-03) within Tax Map Key: 2-2-02:54, for lawn irrigation use, is approved subject to the following conditions:

1. The Division of Water Resource Management (DWRM), P.O. Box 373, Honolulu, HI 96809, shall be notified, in writing, before any work covered by this permit commences.

2. The proposed pump installation 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 shall not constitute a determination of correlative water rights. The permittee is 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 capacity to withdraw water authorized here or even some lesser amount is guaranteed in the future.

3. The permit shall be for installation of a 225 gallons per minute capacity pump in the well.

4. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage on a monthly basis.
5. The following shall be submitted to DWRM within 30 days after completion of the work:
   a. Well Completion Report.
   b. As-built sectional drawing of the installed pump.

6. The applicant shall comply with all applicable laws, rules, and ordinances.

7. This permit may be revoked if work is not started within six months of the date of issuance or if work is suspended or abandoned for six months. The work proposed in the permit application shall be completed within 24 months from the date of permit issuance.

APR 24 1991
Date of Issuance

cc: USGS
    Department of Health
    Safe Drinking Water Branch
    Ground Water Protection Program
    Maui Department of Water Supply
DATE: April 5, 1991

TO: Ed Sakodia

COMPANY: State of Hawai'i - Health

FAX NO.: 1-548-6052

FROM: Lou Blazic

DEPT.: David Pico

FAX NO.: (808) 674-8021

We are transmitting 8 pages (including this cover letter).

SUBJECT: Kilauea - Piiholo well 4257-08
Kilauea - Maui Rest Well 4426-03

MESSAGE:

Herewith - Well Completion Reports
on both of subject. - As built cross sections
of both. - Locations of both including
location info constr. co. well discussed
in our last phone conversation. Please
Call if more info (if required)
for analysis on 4257-08. Thanks
Contact Tom Nance-Honolulu Lou

State of Hawai'i
Commission on Water Resource Management
Department of Land and Natural Resources
Division of Water Resource Management

WELL COMPLETION REPORT

INSTRUCTIONS: Please print or type and submit completed report within 30 days of well completion to the Division of Water & Land Development, P.O. Box 378, Honolulu, HI 96803. An as-built drawing of the wall and chemical analysis, if available, should also be submitted. If necessary, phone 386-6243, Hydrology, Geology Section for assistance.

A. State Well No. 4257-08 Well Name Kilauea - Piiholo Island Maui
B. Location Piiholo Hwy. at Waianae Rd, Piiholo, Kailua, Tax Map Key 2-2-22-47 Portion
C. Well Owner/ Should Be Hui Lani
D. Drilling or Pump Installation Contractor David Pico cesspool digging
E. Type of Rig (Inclining / Rotary) Driller David Pico
**Q. DATE OF WELL COMPLETION**

**G. GROUND ELEVATION**

Top of Drilling Platform Above Ground Surface: 2.25 ft.

**H. TOTAL DEPTH OF WELL BELOW GROUND**

**J. HOLE SIZE:**

- In. dia. from 6 in. to 6 ft. below ground
- In. dia. from 6 in. to 6 ft. below ground
- In. dia. from 6 in. to 6 ft. below ground
- In. dia. from 6 in. to 6 ft. below ground
- In. dia. from 6 in. to 6 ft. below ground

**K. ANNULUS:**

Gravel packed from 6 ft. to 6 ft. below ground

**L. PERMANENT PUMP INSTALLATION:**

**M. PROPOSED USE**

**N. INITIAL WATER LEVEL**

**O. INITIAL CHLORIDE**

**P. PUMPING TESTS:**

Reference point (R.P.) used: R.P., which elevation is 25 ft.

**Q. DRILLER'S LOG:**

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<th>Depth (ft)</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level</th>
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**REMARKS:**

Submitted by (print) Lou Brawic

Signature

Title R.W. David Bic

Date June 16, 1970
Q. DRILLER'S LOG:

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<th>Rock Description &amp; Remarks</th>
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REMARKS:

Submitted by (print)  
Lau Blazic

Title  
B.M.E. FOR DAVID ACO

Signature  
Lau Blazic

Date  
12/17/90
TO: LOU BLAZIC
ADDRESS: P.O. BOX 755
XINEI, HAWAII 96753
PHONE: 879-2094
FAX: 874-8021

SAMPLES OF: WATER - R & T PART.

SAMPLED BY: CLIENT

RECEIPT DATE: 11/14/90

SAMPLE ANALYZED ON: 11/16/90
TIME: 1415

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<tr>
<td>1100</td>
<td>258</td>
<td></td>
</tr>
<tr>
<td>1200</td>
<td>260</td>
<td></td>
</tr>
</tbody>
</table>

LOCATION OF BORINGS & TEST PITS
FOR
FEWELL GEOTECHNICAL ENGINEERING, LTD.
PILANI SUBDIVISION PHASE 1
KIHEI, MAUI, HAWAII
Date: January 10, 1990
As Built
PROPOSED SECTION OF WELL #4426-03

Elevation at top of casing
129.0 ft., msl.

Ground Elev. +127.5 ft., msl

Cement
Grout 55 ft.

Solid Casing:
Material STEEL (SCHED 40 SD)

Hole
Dia. 14 in.

Total Depth 157 ft.

Open Hole:

Rock
Packing 9 ft.

Length

Diameter

Wall thickness 0.322 in.

Material STEEL (SCHED 40 SD)

Perforated / Screen

Diameter

Wall thickness 0.322 in.

Openings 50 sq. in./L.F.

*Approximate elevation at time of filing application. Final elevation (msl) by a surveyor licensed by the State must be submitted at start of construction.

( NOT INCLUDED IN THIS PROPOSAL )
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Division of Water Resource Management

APPLICATION FOR

WELL LOCATION

Island Maui Tax Map Key 2-2-02:54 (portion)
Address Kihei - Maui Research & Technology Park
(Attach a USGS map (scale 1"=2000') and property tax map showing well location referenced to established property boundaries.)

WELL OWNER

Firm Name Maui R. & T. Partners
Contact Person William Monahan
Address 300 Ohukai Road
Kihei, Maui, Hawaii 96753
Phone 875-0500

PROPOSED CONTRACTOR FOR:  Well Drilling  Pump Installation

Name David Pico Geespool Digging
Address 343 Alu Road
Wailuku, Hawaii 96793
Phone 244-9835

PROPOSED WORK

Drill New Well  Deepen  Redrill
Alter  Seal  Abandon
Install New Pump  Replace Pump  Modify Pump

(Briefly describe the proposed work and fill in the diagram on the back of this form.)

PROPOSED USE

Municipal (including hotels, stores, etc.)  Military
Domestic (individual, noncommercial water systems)  Industrial
Irrigation (specify)  Lawn Irrigation  Other (specify)

PROPOSED AMOUNT OF WITHDRAWAL 72,000 gallons per day

PROPOSED PUMP INFORMATION

Pump Type: Vertical Turbine
Motor: Diesel
Rated Pump Capacity 225 gallons per minute (gpm)

Well Owner (print) Maui R & T Partners
Signature ____________________________
Date 3/7/91

For Official Use Only:
Field Checked By ____________________
Date ____________________

Latitude ____________  Hydrologic Unit ____________
Longitude ____________  State Well No. 4426-03
Briefly describe the proposed work:

PROPOSED SECTION OF WELL

Elevation at top of casing ______ ft., msl.

Cement Grout ______ ft.

Hole Dia. ______ in.

Total Depth ______ ft.

Rock Packing ______ ft.

Ground Elev. ______ ft., msl.

Solid Casing:
Material ____________________________
Length ____________________________ ft.
Diameter ____________________________ in.
Wall thickness ________________________ in.

Casing: / /Perforated / /Screen
Material ____________________________
Length ____________________________ ft.
Diameter ____________________________ in.
Wall thickness ________________________ in.
Openings ______ sq. in./L.F.

Open Hole:
Length ____________________________
Diameter ____________________________ in.

*Approximate elevation at time of filing application. Final elevation (msl) by a surveyor licensed by the State must be submitted at start of construction.
GOODFELLOW BROS., INC.
General Contractors
POST OFFICE BOX 598 - WENATCHEE, WA 98807

replacing Check #16625

PAY TO THE ORDER OF ** Department of Land & Natural Resources **** $ 25.00

************* TWENTY FIVE DOLLARS AND No/100 **************************** DOLLARS

WAILUKU BRANCH
Bank of Hawaii
WAILUKU, HAWAII

BY Mickey S. Hewitt

NOT VALID UNLESS CASHED WITHIN 90 DAYS

THE CRAFTSMAN WENATCHEE, WASHINGTON
16633
February 13, 91
1213

4426-03 Pump install
## COMPLETION REPORT

**A. STATE WELL NO.:** 4426-03  
**WELL NAME:** Kihei-Maui R&T  
**ISLAND:** Maui

**B. LOCATION & PROJECT:****

- **R&T-Kihei:**
- **TAX MAP KEY:** 2-2-02:54 (Portion)

**C. WELL OWNER:** Maui R&T Partners  
120 Keau Street, Kahului, HI 96732

**D. DRILLING OR PUMP INSTALLATION CONTRACTOR:**

- **DRILLER:** David Pico  
- **Cesspool Digging**

**E. TYPE OF HOLE:** Failing Rotary

**F. DATE OF WELL COMPLETION:** 11/14/90  
**DATE OF PUMP INSTALLATION:** Not yet installed

**G. GROUND ELEVATION:**

- **(measured):** 123.87 ft.
- **Top of Drilling Platform (measured):** 127 ft.
- **Height of drilling platform above ground surface:** 1.87 ft.

**H. TANGENT DEPTH OF WELL BELOW GROUND:** 157 ft

**I. HOLE SIZE:**

- **14 inch dia. from:** 0 ft. to 157 ft. below ground
- **14 inch dia. from:** 0 ft. to 157 ft. below ground

**J. CASING INSTALLED:**

- **8 in. I.D. x 0.372 in. wall solid section to:** 127 ft. below ground
- **8 in. I.D. x 0.250 in. wall perforated section to:** 157 ft. below ground

**K. ANNULUS:**

- **Grouted from 0 ft. to 127 ft. below ground**
- **Gravel packed from 127 ft. to 157 ft. below ground**

**L. PERMANENT PUMP INSTALLATION:**

- **Pump type, make, serial No.:** Pump not installed
- **Motor type, H.P., voltage, r.p.m.:**
- **Depth of pump intake setting:** 157 ft. below ground
- **Depth of bottom of annulus:**

**M. PROPOSED USE:** Irrigation of landscaping

**N. INITIAL WATER LEVEL:** 122 ft. below ground  
**Data and time of measurement:** 11/16/90 / 0830

**O. INITIAL CHLORIDE:** 369 ppm  
**Data and time of sampling:** 11/16/90 / 0830

**P. PUMPING TESTS:**

- **Reference point (R.P.) used:**
- **which elevation is ft.:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Start water level</th>
<th>End water level</th>
<th>Depth of well</th>
<th>Depth of well</th>
<th>Depth of well</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/16/90</td>
<td>122 ft. below R.P.</td>
<td>122 ft. below R.P.</td>
<td>157 ft. below R.P.</td>
<td>157 ft. below R.P.</td>
<td>157 ft. below R.P.</td>
</tr>
</tbody>
</table>

**Q. DRILLER'S LOG:**

<table>
<thead>
<tr>
<th>Depth, ft.</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>10 Loose Boulders</td>
<td>131.0 to 149.0 ft.</td>
</tr>
<tr>
<td>10</td>
<td>37 Soft Rock</td>
<td>149.0 to 157.0 ft.</td>
</tr>
<tr>
<td>37</td>
<td>36 Hard Rock</td>
<td>157.0 to 165.0 ft.</td>
</tr>
<tr>
<td>56</td>
<td>90 Blue Rock</td>
<td>165.0 to 173.0 ft.</td>
</tr>
<tr>
<td>90</td>
<td>96 Tight Clinders</td>
<td>173.0 to 181.0 ft.</td>
</tr>
<tr>
<td>96</td>
<td>100 Soft Rock</td>
<td>181.0 to 189.0 ft.</td>
</tr>
<tr>
<td>102</td>
<td>105 Hard Rock</td>
<td>189.0 to 197.0 ft.</td>
</tr>
<tr>
<td>105</td>
<td>110 Soft Rock</td>
<td>197.0 to 205.0 ft.</td>
</tr>
<tr>
<td>110</td>
<td>124 Hard Rock</td>
<td>205.0 to 213.0 ft.</td>
</tr>
<tr>
<td>124</td>
<td>128 Tight Clinders</td>
<td>213.0 to 221.0 ft.</td>
</tr>
<tr>
<td>128</td>
<td>131 Hard Rock</td>
<td>221.0 to 229.0 ft.</td>
</tr>
</tbody>
</table>

**REMARKS:**

- Not yet installed

---

**FOR OFFICIAL USE:**

- **Latitude:** 20 44 56
- **Longitude:** 156 26 41
- **Well No.:** 4426-03

---

**FOR DRILLER'S USE:**

- **Job Name:**
- **Job No.:**

---

**Signature:**

---
AS BUILT SECTIONAL DRAWING OF INSTALLED PUMP,
KIHEI, MAUI R&T WELL NO, 4426-03
KIHEI, MAUI HAWAII
T.F.K. 2-2-02 54 (PORTION)

4" DISCHARGE ELBOW

8"
Casing at head

4"
Column pipe

THREADED

PLA NGED

S.
Cable strapping

Threaded coupling

2/3 Power cable

Cable splice

6"
Casing I.D. at pump
or motor

60 GPM bowl (Layne-Bowler)
60GPM

CHECK VALVE LOCATED AT:
13.6 FT.

30 H.P., 12" Size, Pulley Gear, Magr.,
2600 R.P.M., 480 Volt, 3 Ph., 60 Hz.,
Gluco 1587, Model M-60

N.T.S.
**WELL COMPLETION REPORT**

**INSTRUCTIONS:** Please print or type and submit completed report within 30 days of well completion to the Division of Water & Land Development, P.O. Box 373, Honolulu, HI 96809. An as-built drawing of the well and chemical analysis, if available, should also be submitted. If necessary, phone 586-1433, Hydro Geology Section for assistance.

<table>
<thead>
<tr>
<th>A. STATE WELL NO.</th>
<th>4426-03</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. WELL NAME</td>
<td>KIHEI-MAUI RET. ISLAND</td>
</tr>
<tr>
<td>C. OWNER</td>
<td>MAUI RET PARTNERS 120 KALU ST KAHULU, HI 96732</td>
</tr>
<tr>
<td>D. DRILLING OR PUMP INSTALLATION CONTRACTOR</td>
<td>DAVID PACO CESSPOOL DIGGING</td>
</tr>
<tr>
<td>E. TYPE OF RIG</td>
<td>FAILING ROTARY</td>
</tr>
<tr>
<td>F. DATE OF WELL COMPLETION</td>
<td>11/16/90</td>
</tr>
<tr>
<td>G. DATE OF PUMP INSTALLATION</td>
<td>NOT YET INSTALLED</td>
</tr>
</tbody>
</table>

| H. TOTAL DEPTH OF WELL BELOW GROUND | 157 ft. |

<table>
<thead>
<tr>
<th>I. HOLE SIZE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 inch dia. from 0 ft. to 157 ft. below ground</td>
</tr>
<tr>
<td>14 inch dia. from 0 ft. to 157 ft. below ground</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J. CASING INSTALLED:</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 in. I.D. x 0.322 in. wall solid section to 121 ft. below ground</td>
</tr>
<tr>
<td>7 in. I.D. x 0.32 in. wall perforated section to 157 ft. below ground</td>
</tr>
<tr>
<td>Type of perforation</td>
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</table>

<table>
<thead>
<tr>
<th>K. ANNULS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grouted from 0 ft. to 121 ft. below ground</td>
</tr>
<tr>
<td>Gravel packed from 121 ft. to 157 ft. below ground</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>L. PERMANENT PUMP INSTALLATION:</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUMP NOT INSTALLED</td>
</tr>
<tr>
<td>Capacity</td>
</tr>
<tr>
<td>Motor type, make, serial No.</td>
</tr>
<tr>
<td>Voltage, r.p.m.</td>
</tr>
<tr>
<td>Depth of pump intake setting</td>
</tr>
<tr>
<td>Depth of bottom of siltline</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>M. PROPOSED USE</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRIGATION OF LANDSCAPING</td>
</tr>
</tbody>
</table>

| N. INITIAL WATER LEVEL | 122 ft. below ground. |
| O. INITIAL CHLORIDE | 369 ppm. |

<table>
<thead>
<tr>
<th>P. PUMPING TESTS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference point (R.P.) used:</td>
</tr>
<tr>
<td>Date 11/16/90</td>
</tr>
<tr>
<td>Start water level</td>
</tr>
<tr>
<td>End water level</td>
</tr>
<tr>
<td>Depth of well</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Q. DRILLER’S LOG:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth, ft.</td>
</tr>
<tr>
<td>-----------</td>
</tr>
<tr>
<td>0 to 10</td>
</tr>
<tr>
<td>10 to 37</td>
</tr>
<tr>
<td>37 to 56</td>
</tr>
<tr>
<td>56 to 90</td>
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<tr>
<td>90 to 117</td>
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<tr>
<td>117 to 120</td>
</tr>
<tr>
<td>120 to 128</td>
</tr>
<tr>
<td>128 to 131</td>
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**REMARKS:**

Submitted by (print) LOU BLAZIC

Title R.M.E. FOR DAVID PACO

Signature LOU BLAZIC

Date 12/7/90
<table>
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<tr>
<th>TO:</th>
<th>INITIAL:</th>
<th>PLEASE:</th>
<th>REMARKS:</th>
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<tr>
<td></td>
<td>E. Sakoda</td>
<td>See Me</td>
<td>4426-03</td>
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<tr>
<td></td>
<td>P. Haraguchi</td>
<td>Call</td>
<td>Kihei RTF Well</td>
</tr>
<tr>
<td></td>
<td>W. Rozeboom</td>
<td>Review &amp; Comment</td>
<td></td>
</tr>
<tr>
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<td>R. Jinnai</td>
<td>Take Action</td>
<td></td>
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<tr>
<td></td>
<td>M. Ohye</td>
<td>Investigate &amp; Report</td>
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<tr>
<td></td>
<td>F. Ching</td>
<td>Draft Reply</td>
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<tr>
<td></td>
<td>D. Stewart</td>
<td>Acknowledge Receipt</td>
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<tr>
<td></td>
<td>M. Tagomori</td>
<td>Type Draft</td>
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</tr>
<tr>
<td></td>
<td>G. Matsumoto</td>
<td>Type Final cc:</td>
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<td>Xerox copies</td>
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<tr>
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<td>L. Chang</td>
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<td></td>
<td>Y. Shiroma</td>
<td>Mail</td>
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<td></td>
<td>S. Kokubun</td>
<td>Signature</td>
<td></td>
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<tr>
<td></td>
<td>L. Nanbu</td>
<td>Information</td>
<td></td>
</tr>
<tr>
<td></td>
<td>L. Chang</td>
<td>Approval</td>
<td></td>
</tr>
</tbody>
</table>

FOR YOUR

| Signature |  |

Information
WELL CONSTRUCTION PERMIT

for

Kihei-Maui R. & T. Well
Well No. 4426-03
Kihei, Maui

TO: Maui R. & T. Partners
120 Kean Street
Kahului, HI 96732

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to construct and test Kihei-Maui R. & T. Well (Well No. 4426-03) for landscape irrigation use, is approved subject to the following conditions:

1. The Division of Water Resource Management (DWRM), Geology-Hydrology Section, shall be notified at 548-7543, before any work covered by this permit commences.

2. The permit shall be for construction and testing only. No permanent pump may be installed and no water used from the well without the necessary pump installation permit from the Commission.

3. The proposed use shall not adversely affect existing legal uses in the area.

4. The grouted annulus of the well shall be from 0 to 138 ft. instead of from 0 to 30 ft. as proposed.

5. The following shall be submitted to DWRM, P.O. Box 373, Honolulu, Hawaii 96809, within 30 days after completion of the well:

   a. Well Completion Report.
WELL CONSTRUCTION PERMIT
Well No. 4426-03

b. Elevation (referenced to mean sea level) 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 record, including time, pumping rate, drawdown, chloride content, and water quality data.

6. The applicant shall comply with all applicable laws, rules, and ordinances.

7. This permit may be revoked if work is not started within six months of the date of issuance or if work is suspended or abandoned for six months. The work shall be completed within two years of the date of issuance.

AUG - 8

Date of Issuance

WILLIAM W. PATY, Chairperson
Commission on Water Resource Management

cc: USGS
Department of Health
  Drinking Water Branch
  Ground Water Protection Program
  Maui Department of Water Supply
Chairperson and Members
Commission on Water Resource Management
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Maui R. & T. Partners
Application for a Well Construction Permit
Kihei-Maui R. & T. Well, Kihei, Maui

Applicant: Maui R. & T. Partners
120 Kean Street
Kahului, Hawaii 96732

Landowner: Same

Action Requested: Permission to construct and test a 158 ft. deep well (Well No. 4426-03) for landscape irrigation.

Proposed Amount of Withdrawal: 72,000 gallons per day.

Well Description:

Ground elevation: 128± ft.
Casing diameter: 8-inches
Solid casing depth: 138 ft.
Perforated casing depth: 158 ft.
Open Hole: none
Total depth: 158 ft.

Analysis: The well will develop a brackish, basal water source for landscape irrigation. No adverse impacts are expected.

Water Availability: The well is located in the Central Sector, Kamaole System of Maui, according to the latest work in conjunction with the Hawaii Water Plan. Sustainable yield is estimated at 11 mgd.

RECOMMENDATION:

That the Commission approve the issuance of a well construction permit for Kihei-Maui R. & T. Well, subject to the following conditions:

(1) The Division of Water Resource Management (DWRM) shall be notified before work commences.

(2) The permit shall be for construction and testing only. No permanent pump may be installed and no water used from the well without the necessary pump installation permit from the Commission.

Approved by Commission on Water Resource Management at the meeting held on JUL 25 1990

ITEM 8
Chairperson and Members
Commission on Water Resource Management

July 25, 1990

(3) The proposed use shall not adversely affect existing legal uses in the area.

(4) The grouted annulus of the well shall be from 0 to 138 ft. instead of from 0 to 30 ft. as proposed.

(5) The following shall be submitted to DWRM within 30 days after completion of the well:
   a. Well Completion Report.
   b. Elevation (referenced to mean sea level) 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 record; including time, pumping rate, drawdown, chloride content, and water quality data.

(6) The applicant shall comply with all applicable laws, rules, and ordinances.

(7) The permit may be revoked if work is not started within six months of the date of issuance or if work is suspended or abandoned for six months. The work shall be completed within two years of the date of issuance.

Respectfully submitted,

MANABU TAGOMORI
Deputy Director

APPROVAL FOR SUBMITTAL:

WILLIAM W. PATY, Chairperson
Mr. William Paty, Chairman  
Commission on Water Resource Management  
Department of Land and Natural Resources  
P.O. Box 621  
Honolulu, HI  96809

Dear Mr. Paty,

RE: Well Construction Permit Application: Maui R & T Well  
(Well No. 4426-03)

Thank you for your letter of June 12, 1990 listing pending well construction permit applicants.

The proposed well by Maui R & T Partners at Kihei is directly below our lands at Waiohuli-Keokea on Maui. It will undoubtedly draw water from the same aquifer that is under our lands in the mauka area.

We understand that you are inserting language in your permit applications to protect our water rights including those relating to our future use of water. The Kula-Kihei area on Maui is extremely important in our future development on Maui. We trust you will include language protecting our rights in this application.

The other permit applications—

Makakilo Exploratory Wells (Well Nos. 1905-06 to 09)  
N. Halawa-DOT Well (Well No. 2451-01)  
Haiku-DOT Well (Well No. 2450-03)

would seem to have no direct impact on Hawaiian Home Lands.

Warmest aloha,

Hoaliku L. Drake, Chairman  
Hawaiian Homes Commission

HLD:HS:nk
June 25, 1990

Mr. Manabu Tagomori  
Deputy Director  
Department of Land & Natural Resources  
Commission on Water Resource Management  
State of Hawaii  
P. O. Box 621  
Honolulu, Hawaii  96809

Dear Mr. Tagomori:

Re: Well Construction Permit Application for Kihei-Maui R & T Well  
(Well No. 4426-03)

Please be advised that we have no comments on the subject well construction permit application.

Sincerely,

Vince G. Bagoy, Jr.  
Director

"By Water All Things Find Life"
Honorable Hoaliku L. Drake  
Director  
Department of Hawaiian Home Lands  
State of Hawaii  
P.O. Box 1879  
Honolulu, Hawaii 96805

Dear Mrs. Drake:

Well Construction Permit Applications

We are sending you a copy of the following permit applications and ask that your staff review each application to determine if Hawaiian Home Lands may be affected:

- Makakilo Exploratory Wells (Well Nos. 1905-06 to 09)  
- Kihei-Maui R. & T. Well (Well No. 4426-03)  
- N. Halawa-DOT Well (Well No. 2451-01)  
- Haiku-DOT Well (Well No. 2450-03)

Please submit your comments to us, orally or in writing, within three weeks from the date of this letter.

If you have any questions, please contact Manabu Tagomori at 548-7533.

Very truly yours,

[Signature]

Encl.
Honorables John C. Lewin, M.D.
Director
Department of Health
State of Hawaii
1250 Punchbowl Street
Honolulu, Hawaii 96813

Attn: Mr. Thomas Arizumi, Drinking Water Branch

Dear Dr. Lewin:

Well Construction Permit Applications

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168-12(c), we are sending you a copy of the following permit applications for your review:

Makakilo Exploratory Wells (Well Nos. 1905-06 to 09)
Kihei-Maui R. & T. Well (Well No. 4426-03)
N. Halawa-DOT Well (Well No. 2451-01)
Haiku-DOT Well (Well No. 2450-03)

Please submit your comments to us, orally or in writing, within three weeks from the date of this letter.

If you have any questions, please contact Manabu Tagomori at 548-7533.

Very truly yours,

Encl.
Mr. Vince Bagoyo, Jr., Director  
Department of Water Supply  
County of Maui  
200 S. High Street  
Wailuku, Maui, Hawaii 96793  

Dear Mr. Bagoyo:

Well Construction Permit Application

We are sending you a copy of the following permit application for your review:

Kihei-Maui R. & T. Well (Well No. 4426-03)

Please submit your comments to us, orally or in writing, within three weeks from the date of this letter.

If you have any questions, please contact Ed Sakoda at 548-7543.

Sincerely,

[Signature]

MANABU TAGOMORI  
Deputy Director

ES:fc

Enc.
Maui R. & T. Partners
120 Kean Street
Kahului, Hawaii 96732

Gentlemen:

We have received your application and $25.00 filing fee for a permit to construct a well (Well No. 4426-03) at Tax Map Key: 2-2-02:54, near Kihei, Maui.

We are reviewing your application for completeness and will contact you if we need further information.

If you have any questions, please contact Ed Sakoda at 548-7543.

Sincerely,

MANABU TAGOMORI
Deputy Director

ES:bm
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
Division of Water Resource Management

APPLICATION FOR

WELL CONSTRUCTION PERMIT
PUMP INSTALLATION PERMIT

INSTRUCTIONS: Please print or type and send completed application with attachments to the Division of Water and Land Development, P.O. Box 372, Honolulu, Hawaii 96808. Application must be accompanied by a non-refundable filing fee of $25.00 payable to the Department of Land and Natural Resources. (Filing fee waived for government agencies.) If necessary, phone 448-1543, Hydrology/Geology Section for assistance.

1. WELL LOCATION

Island Maui Tax Map Key 2-2-02-04 (portion)
Address Kihei - Maui Research & Tech. Park
(Attach a USGS map (scale 1"=2000') and property tax map showing well location referenced to established property boundaries.)

2. WELL OWNER

Firm Name Maui R. & T. Partners
Contact Person Mike Bougton
Address 120 Kean St.
Kahului, HI 96732
Phone 871-6802

3. PROPOSED CONTRACTOR FOR: ☐Well Drilling ☐Pump Installation
Name Will be competitively bid.
Address

4. PROPOSED WORK

☐ Drill New Well ☐ Deepen ☐ Redrill
☐ Alter ☐ Seal ☐ Abandon
☐ Install New Pump ☐ Replace Pump ☐ Modify Pump

(Briefly describe the proposed work and fill in the diagram on the back of this form.)

5. PROPOSED USE

☐ Municipal (including hotels, stores, etc.) ☐ Military
☐ Domestic (individual, noncommercial water systems) ☐ Industrial
☐ Irrigation (specify) Landscaping ☐ Other (specify) ☐

6. PROPOSED AMOUNT OF WITHDRAWAL 72,000 gallons per day

7. PROPOSED PUMP INFORMATION

Pump Type: ☐ Vertical Turbine ☐ Submersible ☐ Centrifugal
Motor: ☐ Diesel ☐ Gas ☐ Electric: 25
Rated Pump Capacity 200 gallons per minute (gpm)

For Official Use Only:

Field Checked By ____________________________
Date ____________________________

Latitude ____________________________
Longitude ____________________________
Hydrologic Unit ____________________________
State Well No. 4426-03
Briefly describe the proposed work:

Project will consist of drilling, casing, and pump testing of well:

Pending satisfactory results the well would be used for irrigation of landscaping.

PROPOSED SECTION OF WELL

Elevation at top of casing

Cement Grout 30 ft.

Hole Dia. 14 in.

Total Depth 157 ft.

Rock Packing 127 ft.

Ground Elev. 127.5 ft., msl*

Solid Casing:

Material Steel (Sched 40 Std.)

Length 139 ft.

Diameter 8 in.

Wall thickness 0.322 in.

Casing: /X/Perforated / /Screen

Material Steel Sched. (40 std.)

Length 20 ft.

Diameter 8 in.

Wall thickness 0.322 in.

Openings 50 sq. in./L.F.

Open Hole:

Length 0 ft.

Diameter

*Approximate elevation at time of filing application. Final elevation (msl) by a surveyor licensed by the State must be submitted at start of construction.
GOODFELLOW BROS., INC.
General Contractors
POST OFFICE BOX 598 # WENATCHEE, WA 98807

PAY TO THE ORDER OF *** Dept. of Land & Natural Resources ***** $25.00

*************** TWENTY FIVE DOLLARS AND No/100 *************** DOLLARS

WAILUKU BRANCH
Bank of Hawaii
WAILUKU, HAWAII

BY

NOT VALID UNLESS CASHED WITHIN 90 DAYS

THE CRAFTSMAN WENATCHEE, WASHINGTON

WELL No. 4426-03