A proliferation wells in this area led to some confusion about actual locations of some wells. A request for the driller to identify locations on a parcel map registered with USGS grid lines yielded a correction for the Peahi-Wilson Well, theretofore assigned Well No. 5515-02. It's correct location is in grid 5615, and it is thus reassigned the Well No. 5615-05.
Mike,

Thanks for locating the wells — I need to see that line drawn across the middle on the overlay!

To Charlie
## CHECKLIST

**Type of Permit:** ✓ Well Construction ✓ Pump Installation _ Water Use Required

<table>
<thead>
<tr>
<th>Well Name</th>
<th>No.</th>
<th>Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peahi-Wilson</td>
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<td>Maui</td>
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<tr>
<th>Applicant</th>
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<tr>
<td>Deborah Wilson</td>
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<td>Nov 20, 1995</td>
<td>Nov 20, 1995</td>
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<th>Acknowlgmt</th>
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<td>Nov 28 1995</td>
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<td>DHHL</td>
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<td>Honolulu BWS</td>
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<td>Maui DoW</td>
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<tr>
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<td>Nov 26 1995</td>
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</tbody>
</table>

**Bulletin to Agenda**

**Submittal to Appl**

**CWRM Appr Deny**

**Permit/Notice to Appl**
8. PROPOSED WELL SECTION

- Elevation at top of casing: 331 ft., msl.
- Cement Grout: 270 ft.
- Rock Packing: 50 ft.
- Hole Diameter: 10 in.
- Total Depth: 350 ft.
- Ground Elevation: 320 ft., msl.
- Solid Casing:
  - Material: P.V.C.
  - Length: 331 ft.
  - Diameter: 4 in.
  - Wall thickness: 0.025 in.
- Casing:
  - Perforated
  - Material: P.V.C.
  - Length: 20 ft.
  - Diameter: 4 in.
  - Wall thickness: 0.025 in.
  - Openings: 3 sq. in./L.F.
- Open Hole:
  - Length: 0 ft.
  - Diameter: 0 in.

*Approximate elevation at time of filing application. Ground elevation above mean sea level (msl) by survey. Numbers in the wells must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion/well abandonment process.
October 1, 2002

Ms. Deborah Wilson
P.O. Box 106
Pa'ia, HI 96779

Dear Ms. Wilson:

Well Completion Report for Well No. 5615-05

We received your wellhead survey for the Peahi-Wilson Well (Well No. 5615-05) on September 12, 2002 and acknowledge that Well Completion Report Part II is now complete. This completes the permitting process for this well.

If you have any questions, please contact Charley Ice of the Commission staff at [redacted] or toll-free at [redacted] extension 70251.

Sincerely,

LINNEL T. NISHIOKA
Deputy Director

Cc: Wailani Drilling, Inc.
ELEVATION CERTIFICATE

April 11, 2002 02-5485

WAILANI DRILLING COMPANY
655 Kulike Road
Haiku, Maui, Hawaii 96708

Attn: Mike Robertson

For: Peahi-Wilson Well
Well No. 5545-502 9615-05

On April 9, 2002, the well located on Parcel 52 of Tax Map Key:(2) 2-8-004 was surveyed by surveyors under my instructions and the elevation at the top of the well casing was determined to be 324.67 Feet above Mean Sea Level. This elevation was referenced to an established benchmark provided for our use in performing this work.

NEWCOMER-LEE
LAND SURVEYORS, INC.
a Hawaii corporation

BRUCE R. LEE
Licensed Professional Land Surveyor Certificate No. 5983-LS

5485PL52.wps
Ms. Deborah Wilson  
P.O. Box 106  
Pa'ia, HI 96779  

Dear Ms. Wilson:  

Wellhead Survey  
Peahi-Wilson Well (Well No. 5615-05)  

The single remaining unfinished business on your well permit is the survey of the wellhead elevation by a licensed surveyor (part of the Well Completion Report, Part 1). Your driller is coordinating the service of a licensed surveyor in your neighborhood, and will be contacting you to schedule surveying of your wellhead.  

Completing the required survey will complete your permitting requirements and prevent a violation of your permit, for which violators are subject to fines of up to $1000 per day. We know that arranging for surveys in your area has been difficult, and appreciate your drillers’ efforts to coordinate this service. We encourage you to complete this important part of your permitting requirements, to protect our aquifers and for you to avoid possible fines.  

If you have any questions, please contact Charley Ice of the Water Commission staff at [REDACTED] or toll-free at [REDACTED] extension 70251.  

Sincerely,  

LINNEL T. NISHIOKA  
Deputy Director  

CI: ss  
c: Wailani Drilling Company
FAX MEMO

For: Charlie Ice
From: Mike Robertson

Re: Enclosed is the signed Wilson Pump Permit as requested and the signed Lavinupole Well Construction Permit which was in our files with the start work letter.

On the file it was written that it was sent on Aug. 17, 1999.

Thank you:

Mike Robertson
WELL CONSTRUCTION/PUMP INSTALLATION PERMIT

for

Peahi-Wilson Well
Well No. 5515-02

To: Deborah Wilson
P.O. Box 106
Paia, Hawaii 96779

In accordance with Department of Land and Natural Resources Admin Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your construct, test, and install a pump in Peahi-Wilson Well (Well No. 5515-02) at Makawao, Maui, TMK 2-6-4:52, is approved, subject to the following conditions:

STANDARD PERMIT CONDITIONS

1. The Commission on Water Resource Management (Commission), P.O. Box 9461, Honolulu, HI 96809, shall be notified, in writing, before any work by the permittee shall commence.

2. The well construction permit shall be for construction and testing of the well only. A minimum one-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Commission, to accurately record water levels. The permittee shall coordinate with the Commission and conduct a pumping test in accordance with the attached Aquifer Pump Testing Procedure. The permittee shall submit to the Commission 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 Commission.

3. The permittee 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.

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

5. 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.

6. The following shall be submitted to the Commission within thirty (30) days after completion of work:

   a. Well completion report.
   b. Elevation (referenced to mean sea level, msl) survey by a Hawaii-licensed surveyor.
WELL CONSTRUCTION/PUMP INSTALLATION PERMIT

Well No. 5515-02

A. As-built sectional drawing of the well.
B. Plot plan and map showing the exact location of the well.
C. Complete pumping test records, including time, pumping rate, drawdown, chloride content, and other water quality data.

7. The permittee shall comply with all applicable laws, rules, and ordinances.

8. The well construction permit application and staff submittal approved by the Commission at its January 24, 1996 meeting are incorporated into the permit by reference.

9. 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 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 Commission upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Commission no later than three (3) months prior to the date the permit expires. If the commencement or completion date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

SPECIAL CONDITIONS

1. No permanent monitor tube is required.
2. The long-term continuous test shall be at least 8 hours.
3. No step-drawdown test is required.
4. The well shall not be used for drinking water unless it is properly tested and treated.
5. The Chairperson shall approve and issue a pump installation permit upon acceptance of aquifer pumping test results required in Standard Condition 6c.

MICHAEL D. WILSON, Chairperson
Commission on Water Resource Management

Date of Approval: January 24, 1996

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.

Applicant's Signature: [signature]
Date: 12-3-91

Printed Name: Debrah K. Wilson

Firm or Title: WILSON CONDOMINIUM

Please sign both copies and return one copy of this permit to the Commission and retain a copy for your record.

ATTACH
USGS
Department of Health
Safe Drinking Water Branch
Wastewater Branch
Maui Department of Water Supply
Return Receipt Fax Memo

For: Charlie Ice

Enclosed are the following items:

✓ Signed Well Construction permit Application for Launiupoko Well 2
  # 5137-01
✓ Signed Pump Installation Permit for Wilson Well #5515-02

Please confirm receipt by checking off the enclosed items and faxing a copy of this memo to me at [redacted].

From: Mike Robertson

Thank you:

Mike Robertson
Ms. Deborah Wilson  
P.O. Box 106  
Paia, Hawaii 96779  

Dear Ms. Wilson:  

Correcting Well Number for Peahi-Wilson Well  

We have recently learned that the location we were given for your well was not exactly correct, and that the correct location falls within a different grid in our mapping system. Therefore, we are assigning the well a new number. Please file this notice with your other wells materials so you can refer to the correct number in the future.  

Former number: Well No. 5515-02  
New number: Well No. 5615-05  

If you have any questions, please call Charley Ice of the Commission staff at [redacted] or toll-free at [redacted] extension 70251.  

Sincerely,  

LINNEL T. NISHIOKA  
Deputy Director  

Cc: Wailani Drilling Company
<table>
<thead>
<tr>
<th>FROM: Charley</th>
<th>DATE: 19Jul00</th>
<th>SUSPENSE DATE:</th>
</tr>
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<td>INIT.</td>
<td>TO: NAKAMA, L.</td>
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<tr>
<td>TO: FUJII, N.</td>
<td>INIT.</td>
<td>TO: NAKANO, D.</td>
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<td>TO: HARDY, R.</td>
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<td>TO: OHYE, M.</td>
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<td>TO: IMATA, R.</td>
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<td>TO: SUBIA, S.</td>
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<td>TO: JINNAI, R.</td>
<td>INIT.</td>
<td>TO: YODA, K.</td>
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</table>

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

**Mitch:**
- Stated 5615-05 1hr
- Has already worked up some on this
- Will replot, log correction
CHLORIDE TITRATION RECORD

for: [Well (No.)]

Island: Project or Job No.: 19

Titrations conducted by: [Signature]

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<tr>
<th>Sample No.</th>
<th>Date Taken</th>
<th>Sample Taken (ml)</th>
<th>Burette Rdg Before</th>
<th>AgNO₃ (ml)</th>
<th>AgNO₃ Mult.</th>
<th>Chloride (ppm)</th>
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</tbody>
</table>

-STRINGS-
# WELL COMPLETION REPORT

**State of Hawaii**

**COMMISSION ON WATER RESOURCE MANAGEMENT**

**Department of Land and Natural Resources**

3/20/96 WCR Form

(These instructions may be printed using a dot matrix printer)

## Instructions:

Please print or type and submit completed report within 30 days after well completion to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. An as-built drawing of the well and chemical analysis should also be submitted. For assistance call the Commission Regulation Branch at 70225 or Extension 70225.

## Report Completion

1. **State Well No.**: 5514-02  
   **Name**: Peahi Wilson Well  
   **Island**: Maui

2. **Location/Address**: Kulike Rd.  
   **tax Map Key:**

3. **Drilling Company**: Walani Drilling Company

4. **Name of driller who performed work**: Mike Robertson

5. **Type of rig/construction**: Air Rotary Drill Rig

6. **Date(s) Well Construction and pump tests (if any) completed**: 10/28/96

7. **GROUND ELEVATION (referenced to mean sea level, msl)**: 320 ft.
   - **Well Bench Mark (description/location)**: elevation (msl): 320 ft.

8. **DRILLER’S LOG**: Please attach geologic log (if available or if required by permit)
   - Depths (ft.)  
     - Rock Description, Water Level, Dates, etc.
   - Depths (fl.)  
     - Rock Description, Water Level, Dates, etc.
   - 0 to 40  
     - topsoil and clay  
   - 40 to 60  
     - red clay  
   - 60 to 160  
     - tan rock  
   - 160 to 170  
     - brown clay

9. **Total depth of well below ground**: 375 ft.

10. **Hole size**: 
    - 10 inch dia. from 0 ft. to 186 ft. below ground
    - 6 inch dia. from 186 ft. to 375 ft. below ground

11. **Casing installed**: 
    - 6 in. I.D. x .25 in. wall solid section to 186 ft. below ground
    - 4 in. I.D. x .25 in. wall solid section to 360 ft. below ground
    - 4 in. I.D. x .25 in. wall perforated section to 375 ft. below ground

12. **Annulus**: 
    - Grouted from 0 ft. below ground to 186 ft. below ground
    - Gravel packed from n.a. ft. below ground to n.a. ft. below ground

13. **Initial water level**: 316 ft. below ground. Date and time of measurement: 10-30-96 8:00 am

14. **Initial chloride**: 210 ppm. Date and time of sampling: same

15. **Initial temperature**: 64 °F. Date and time of measurement: same

16. **PUMPING TESTS**: Reference Point (R.P.) used: wellhead, which elevation is 320 ft.
   - (1) Step-Drawdown Test Date  
     - Start water level ft. below R.P.  
     - End water level ft. below R.P.
   - (2) Long-term Aquifer Test Date 10/30/96
     - Start water level 316.0 ft. below R.P.
     - End water level 316.041 ft. below R.P.

17. **Aquifer Pump Test Procedures data & graphs (1/9/96 LTAT Form) attached**: X Yes No

18. **As-built drawings attached**: Attached X Yes No

19. **Other remarks/comments**: (On back of this form)

## Completion Details

- **Well Drilling Contractor (print)**: Mike Robertson  
  **C-57 Lic. No.**: C-20115

- **Signature**: [Signature]  
  **Date**: 2/12/97

- **Surveyor (print)**:  
  **Lic. No.**

- **Signature**: [Signature]  
  **Date**: 2/12/97

- **Applicant (print)**: Jerry or Debbie Wilson

- **Signature**: [Signature]  
  **Date**: 3-10-97
PART II. (PE, MERICAN) PUMP INSTALLATION REPORT


21. Name of person performing work: Mike Robertson

22. Date Pump Installation Completed: 10/29/96

23. PUMP INSTALLATION:
   Pump Type, Make, Serial No.: Grundfos 16s20 S# 10010018
   Capacity: 20 gpm

   Motor type, H.P., Voltage, rpm: 2hp 220v 3450rpm

   Depth of Pump Intake Setting 326 ft. below well head, which elevation is 320 ft.

   Depth to bottom of airline ft. below wellhead, which elevation is ft.

   Pumping Head is 368 ft. Type of flow meter: none which measures in

24. As-built drawings attached? X Yes No

25. Other remarks/comments: (See below)

Pump Installation Contractor (print) Mike Robertson C-57 Lic. No.20115

Signature: ___________________________ Date: 2/10/97

Applicant (print): ___________________________

Signature: ___________________________ Date: 2-10-97

B.(cont'd) DRILLER'S LOG (cont'd):

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<tr>
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<th>Depth (ft.)</th>
<th>Rock Description, Remarks,</th>
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<td>soft blue rock</td>
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<tr>
<td>180 to 200</td>
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<td>bluerock</td>
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<td>200 to 210</td>
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<td>320 to 350</td>
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<td>bluerock</td>
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<td>350 to 375</td>
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19 & 25. Remarks: _______________________________
December 30, 1996

Ms. Rae Loui, Deputy Director  
Department of Land and Natural Resources  
Commission on Water Resource Management  
P.O. Box 621  
Honolulu, HI 96809

re: Peahi-Wilson Well (Well No. 5515-02)

Dear Ms. Loui,

Thank you for the opportunity to comment on the proposed construction of the Peahi-Wilson Well. We have no objections to the proposed construction. However, we need to insure that pumpage from the proposed well will not impair our ability to take water from these aquifers in the future.

We have attached a map of the area surrounding the Peahi-Wilson Well for your reference. This map shows the approximate locations of currently planned county wells in the area of the Peahi-Wilson Well. As you know, Maui's richest aquifers reside on the northeastern end of the island. Over the very long term, we expect water development to proceed in that direction and ask that you consider protection of long-term municipal needs in your decisions regarding water use.

If you have any questions or concerns, please contact the Water Resources Planning Division anytime at [redacted].

Sincerely,

[Signature]

for

David Cradick, Director  
Maui County Board of Water Supply

Attachments:

1. Map of planned water system expansion in the area surrounding the Peahi-Wilson Well.
COMMISSION ON WATER RESOURCE MANAGEMENT

FROM: [Signature]
DATE: 10/6
SUSPENSE DATE

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

INIT. 

TO: LOUI, R. 
NAKAMA, L. 
NAKANO, D. 
OHYE, M. 
SAKODA, E. 
SUBIA, S. 
SWANSON, S. 
UWAINIE, J. 
YODA, K. 

INIT. 

FOR: Approval 
Signature 
Information 

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

--- Handwritten Notes ---

We'll have to take a look at the whole issue. It's a bit complex...

To be more precise, we need an update on the current situation.
TO: Honorable Lawrence Miike, Director  
         Department of Health  
         Attn: Mr. Dennis Tulang, Wastewater Branch  
         Mr. William Wong, Safe Drinking Water Branch

Honorable Kali Watson, Chairman  
         Hawaiian Homes Commission

Honorable Clayton H.W. Hee, Chairperson  
         Office of Hawaiian Affairs

Mr. David Craddick, Director  
         County of Maui, Department of Water Supply

Mr. Don Hibbard, Administrator  
         DLNR, Division of Historic Preservation

Mr. William Devick  
         DLNR, Division of Aquatic Resources

FROM: Michael D. Wilson, Chairperson  
       Commission on Water Resources Management

SUBJECT: Well Construction and Pump Installation Permit Application for Peahi-Wilson Well (Well No. 5515-02)

Transmitted for your review and comment is a copy of a Well Construction and Pump Installation Permit Application for Peahi-Wilson Well (Well No. 5515-02). 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 December 11, 1995.

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Charley Ice of the Commission staff at 643-7835.

Attachment(s)

Response:

(✓) We have no objections  
(✓) Comments attached

Contact Person: Ellen Kraftsow  
Phone: 243-7835

Signed: Ellen Kraftsow  
Date: 11/21/95
Charley: Just sending a notice as you requested, that I am starting the Peahi-Wilson Well #5515-0A today. I will be collecting samples of the geology and sending them to you sometime next week to be identified.

I have spent many hours developing a computer generated well log with an as built drawing. I am very close to completing the task. Inserting the proper names for the formations is part of the project. This is why I haven’t sent you the balance of the items you requested yet.

Thank you for your patience.

Sincerely:
Mike Robertson
LONG-TERM AQUIFER TEST DATA

Pumped Well No. \( \text{\underline{15.5}} \) \( \rightarrow \) Observation well no.  
Pumped Well Name \( \text{\underline{Rock Water Well}} \) \( \rightarrow \) Distance between Obs. & Pumped Well \( \rightarrow \) ft.  
Target Q \( \rightarrow \) \( \text{\underline{1.6}} \) \( \rightarrow \) gpm \( \rightarrow \) Reference pt. for depth to water \( \rightarrow \) \( \text{\underline{200}} \) \( \rightarrow \) ft. msl  
Distance between Obs. & Pumped Well \( \rightarrow \) ft.  
Static Water Level \( \rightarrow \) start of test \( \rightarrow \) \( \text{\underline{210}} \) \( \rightarrow \) ft. msl  
Water level measurements by: \( \checkmark \) steel tape \( \square \) pressure transducer \( \square \) airline

START TEST Date: \( \text{\underline{6/12/16}} \) Hour of day: \( \text{\underline{8:00 AM}} \)

Flow Meter Reading Start: \( \text{\underline{3,039}} \) gals

<table>
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<tr>
<th>Suggested elapsed time ( t ) (min)</th>
<th>Actual elapsed time ( t ) (min)</th>
<th>Depth to water (nearest 0.01 ft)</th>
<th>Drawdown (unadjusted to nearest 0.01 ft)</th>
<th>Pumping rate Q (gpm)</th>
<th>EC (( \mu )hos)</th>
<th>Cl or CL ( (mg/l) )</th>
<th>Temp. ( ^\circ )C</th>
<th>Data in this table is for:</th>
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Max possible duration, water level or quality did not stabilize for any 24 hour period. Use same ending drawdown figure as start for recovery. Begin recovery data next page. Flow meter reading at end of pumped period: 37960 gals.
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<th>Actual elapsed time ( t ) (min)</th>
<th>Depth to water (nearest 0.01 ft)</th>
<th>Recovery ( R ) (unadjusted to nearest 0.01 ft)</th>
<th>Pumping rate ( Q ) (gpm)</th>
<th>EC (umhos)</th>
<th>Cl' (mg/l)</th>
<th>Temp. ( {^\circ}F ) or ( {^\circ}C )</th>
<th>Data in this table is for:</th>
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END TEST  Date: 10/30/96  Hour of day: 4:05 P.M.

ADDITIONAL REMARKS:

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

The signature above indicates that the data reported on this form is accurate and true to the best of the person's knowledge who operated this aquifer test.

CWRM LTAT Form 1/9/96
PEAHI WILSON WELL  
Geologic Log by Glenn Bauer  
October 7, 1996

<table>
<thead>
<tr>
<th>Depth Interval (ft.)</th>
<th>Description</th>
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<tbody>
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<td>0-30</td>
<td>Light brown ashy soil</td>
</tr>
<tr>
<td>30-40</td>
<td>Same as above, though redder</td>
</tr>
<tr>
<td>40-60</td>
<td>No sample</td>
</tr>
<tr>
<td>60-80</td>
<td>Brown weathered rock grit</td>
</tr>
<tr>
<td>80-100</td>
<td>Dark brown ashy soil (?)</td>
</tr>
<tr>
<td>100-110</td>
<td>Very fine sand-size cuttings</td>
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<tr>
<td>110-120</td>
<td>No sample</td>
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<tr>
<td>120-130</td>
<td>Light gray clay with fine rock grit</td>
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<td>Dark gray plastic clay with fine rock grit</td>
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<td>150-160</td>
<td>Tan clay with sand-size cuttings</td>
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<tr>
<td>170-180</td>
<td>Tan-brown very fine grit and sand-size cuttings</td>
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<tr>
<td>180-185</td>
<td>Same as above, except dark gray</td>
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<tr>
<td>185-195</td>
<td>Gray massive aphanitic cuttings--hawaiite (?)</td>
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<tr>
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<tr>
<td>200-210</td>
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<tr>
<td>210-225</td>
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<tr>
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<tr>
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<tr>
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<td>&quot;Soil @ 355&quot; (Driller) with brown weathered pahoehoe</td>
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<td>360-375</td>
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</tr>
<tr>
<td>375-385</td>
<td>Weathered brown basalt--pahoehoe (?)</td>
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</table>
# Geologic Log by Glenn Bauer

October 7, 1996

## Depth Interval (ft.)

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<td>Weathered brown basalt—pahoehoe (?)</td>
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</table>
To: Rae M. Loui  
Deputy director Commission On Water Resource Management

From: Mike Robertson  
d.b.a. Wailani Drilling Co.

In response to your letter dated July 9, 1996, the answer to the 4 items on the Papaula-Rubin Well #5426-01 are:

#1. ground elevation - 5 ft.
#2. total depth of well - 20 ft.
#3. proposed pump capacity 50 g. p. m.
#4 proposed withdrawal 5000 g. p. d.

Sorry I neglected to include all of the information.

In regards to the delinquent Well completion reports and start work notices, Please excuse the untimely filing of these reports. Now that I have your report forms in my computer, I will be able to process them on time from now on.

Enclosed are reports for Peahi - Phillips Well (5615-02)  
Peahi - Trier Well (5615-03)  
Huelo - Gould Well (5413-09)

Peahi - Wilson and Huelo - Harold have not secured all of the funds to proceed with their wells yet but please keep their permits active.

I proceeded on Kipahulu - Nicoll well # 3904-06 and will be sending a completion report soon.

Enclosed also are 2 more Permit applications.

Thank you for your understanding and cooperation.

Sincerely,

Mike Robertson
Ms. Deborah Wilson  
P.O. Box 106  
Paia, Hawaii 96779

Dear Ms. Wilson:

Extension of Start Date  
Well Construction Permit  
Peahi-Wilson Well (Well No. 5915-021)

We have learned by letter from your well drilling contractor, Mike Robertson, that you are not yet able to begin construction on the captioned well. He has requested an extension of the six months start construction date in your behalf.

This can be done administratively, and by this letter we extend your start date six months to January 24, 1997. All the other conditions of your permit remain the same; the permit expires January 24, 1998.

If you have any questions, please call Charley Ice at [redacted] or toll-free at [redacted] extension 70251.

Sincerely,

RAE M. LOUI  
Deputy Director
Mr. Mike Robertson  
Wailani Drilling  
655 Kulike Road  
Haiku, Hawaii 96708  

Dear Mr. Robertson:

Well Construction Permit Applications  
Well Completion Reports

Thank you for your letter of July 15, 1996, providing information on outstanding applications and permits.

We are administratively extending the start date for the Peahi-Wilson and Huelo-Harold Wells (Well Nos. 5615-02 and 5413-06) as you requested in the well owners' behalf and have noticed the well owners of this. We generally find it appropriate to have the well owner request a specific amount of time needed to start work. If it is not possible to comply with this condition of the permit, it may be allowed to lapse with no prejudice against any subsequent new application once the owner is ready. The extensions here have been granted for six months, through January 24, 1997. All other conditions of the permit, including its expiration date for completion of work, remain the same.

The well completion reports for Peahi-Phillips (Well No. 5615-02), Huelo-Gould (Well No. 5413-05), and Peahi-Trier (Well No. 5615-03) are incomplete, lacking the pump test results, as-built drawings for the wells and elevations established by a Hawaii licensed surveyor. These are essential to proceed with approving Pump Installation Permits.

Finally, please note that the well construction permit applications have three separate spaces for well owner, landowner (as these may be different), and contractor. We have legal obligations to provide these people with notice directly, even though we may routinely be in contact with a contractor if so specified as the primary contact on the project. Please complete the forms as specified, rather than submitting your own name as contact person for a well owner or landowner or providing your own address in lieu of theirs.

If you have any questions, please call Charley Ice at [redacted] or toll-free at 800-878-0000, extension 70251.

Sincerely,

RAE M. LOUI  
Deputy Director

Attachment

PRESENTATION OF SUBMITTAL: Mr. Charley Ice

STAFF RECOMMENDATION:

Staff recommended the following:

A. That the Commission approve the issuance of a well construction/pump installation permit for Peahi-Wilson Well, subject to the standard permit conditions in Exhibit 3 in the staff submittal and the following special conditions:

1. No permanent monitor tube is required.
2. The long-term continuous test shall be at least 8 hours.
3. No step-drawdown test is required.
4. The well shall not be used for drinking water unless it is properly tested and treated.

B. That the Commission authorize the Chairperson to approve and issue a pump installation permit upon acceptance of aquifer pumping test results required in Standard Condition 6e of the staff submittal.

TESTIMONIES:

Mr. Jim Smith, a Haiku, Maui resident, voiced his concern over the recent Maui BWS decision to amend the rules which deletes the requirement to have the BWS review and approve private water systems. Although it hasn't gone to the Mayor's Office, that may have an impact on the aquifer system in the future.

AMENDMENT:

Commissioner Richards proposed that the staff recommendation #A-4 be amended to change the word, "shall" to "should" as follows:

4. The well should not be used for drinking water unless it is properly tested and treated.

MOTION: (NOBRIGA/RICHARDS)

To approve staff's recommendation as amended.

UNANIMOUSLY APPROVED AS AMENDED.

The Commission requested to have the staff discuss with the Department of Health revisions to the well completion report to include water quality data and to bring this up at a future meeting.
*Note: not drawn to scale
AQUIFER (PUMP) TEST PROCEDURES

3. Each pumping rate should be continued for one hour, after which the new rate should be instituted as rapidly as possible.

4. Pumping should begin at the lowest rate and conclude with the highest rate.

5. Pumping should be continuous through the entire step-drawdown test.

6. Measurement of chloride concentration and temperature of the discharge water shall be measured at least five times:
   a. at the end of each pumping rate during the step-drawdown test, and
   b. at the very beginning of the test.

7. A sufficient number of water level measurements shall be made in the pumped well following the termination of the step-drawdown test to establish that the water level fully recovers from each test to pretest levels.

Long-Term Continuous Test

The purpose of the long-term continuous test is to determine the hydraulic properties of the aquifer to explore for and identify nearby aquifer boundaries such as streams or dikes, and to observe the trend in chloride concentration of the discharge water.

1. The long-term test should not commence until the water level in the pumped well has fully recovered from the step-drawdown test. Generally, the time required for this recovery will be slightly greater than four hours. The water level in the pumped well should be measured immediately before initiation of the long-term test.

2. The pump rate for the long-term test should be sufficient to create an observable drawdown.

3. The test should be run 24 hours per day for at least seven days. If during the test, the water level remains the same for a period of 24 hours, the test can be terminated.

4. Measurement of chloride concentration and temperature of the discharge water during the long-term test shall be made at the beginning of the test and every six hours thereafter.

5. Depth to water in all wells shall be measured with sufficient frequency that each logarithmic cycle in time on the data plots (Graph 1) contains at least 10 data points spread through the cycle. Thus, depth to water should be made at t=0 (immediately prior to start of the test), and as close as possible at t=1, 1.5, 2, 2.5, 3, 4, 5, 6, 7, and 8 minutes for the first ten minutes and at all succeeding decimal multiples of these numbers to the end of the test (t=10, 15, 20, 25, 30, 40, 50, 60, 70, and 80 minutes for the log cycle 10 to 100 minutes, etc.)

6. A sufficient number of water level measurements shall be made in the pumped well following termination of the long-term continuous test to establish that the water level fully recovers from each test to pretest levels.
AQUIFER TEST DATA

<table>
<thead>
<tr>
<th>Date</th>
<th>Hour</th>
<th>t (min)</th>
<th>Depth to water (ft)</th>
<th>% (unadjusted) (ft)</th>
<th>Adjustment (ft)</th>
<th>Q (gpm)</th>
<th>Cl^-</th>
<th>Temp. °F or °C</th>
<th>Remarks</th>
</tr>
</thead>
</table>

Average Q: _______ gpm

Distance between Observation & Pumped Well ______ ft.
STANDARD WELL CONSTRUCTION PERMIT CONDITIONS

1. The Commission shall be notified two weeks before work commences, to facilitate monitoring.

2. The well construction permit shall be for construction and testing of the well only. A minimum one-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Commission, to accurately record water levels. The permittee shall coordinate with the Commission and conduct a pumping test in accordance with the attached Aquifer Pump Testing Procedure (Exhibit 4). The permittee shall submit to the Commission 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 Commission.

3. The permittee 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.

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

5. 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.

6. The following shall be submitted to the Commission within thirty (30) days after completion of work:
   a. Well completion report.
   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 water quality data.

7. The permittee shall comply with all applicable laws, rules, and ordinances.

8. The well construction permit application and staff submittal approved by the Commission at its January 24, 1996 meeting are incorporated into the permit by reference.

9. 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 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 Commission upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Commission no later than three (3) months prior to the date the permit expires. If the commencement or completion date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

EXHIBIT 3
The pump test procedure for new wells shall consist of a step-drawdown test followed by a long-term continuous aquifer test. Testing the well and aquifer in the prescribed manner should result in the hydrologic information needed to determine: 1) the well's performance with regard to yield and water quality (chloride concentration), and 2) the nearby hydraulic properties of the aquifer.

General Recording Requirements

The records required for analysis and the tolerance in measurement acceptable for the step-drawdown and long-term continuous aquifer test are as follows:

1. Discharge from the well shall not fluctuate beyond ± 10 percent.
2. Depth to water measurements in the pumped well shall be accurate to 0.01 feet.
3. Time shall be accurate within ± 1 percent.
4. Water discharged from the well during the step-drawdown and long-term test shall be carried away from the well to a distance sufficient to preclude circulation of the discharge water downward to the ground-water table.
5. Recording of data should be on a form similar to Table 1. All information shown in Table 1 shall be provided. In addition, data shall be plotted on Graph 1 and provided.

Step-Drawdown Test

The purpose of the step-drawdown test is to establish the efficiency of the well and to provide preliminary information on the yield of the well, both from a quantity and quality standpoint.

1. Measurement of water level in the pumped well shall be made every 12 hours for a period of no less than two days prior to the initiation of the step-drawdown test in order to obtain the pretest trend in water levels.
2. The step-drawdown test will consist of continuously pumping the well for four hours at four different rates.
   a. The change from one pumping rate to the next must be sufficient to induce an observable change in water level in the well from the previous pumpage rate.
   b. If desired, the four different rates should represent the full range of pump capacity (if the yield can sustain this), but this is not necessary.
9. PROPOSED WELL SECTION

Elevation at top of casing: 321 ft., msl.

Ground Elevation: 330 ft., msl.

Cement Grout: 270 ft.

Rock Packing: 50 ft.

Hole Diameter: 10 in.

Total Depth: 350 ft.

Solid Casing:
- Material: P.V.C. 5/8 x 40
  - Length: 331 ft.
  - Diameter: 4 in.
  - Wall thickness: 0.025 in.

Casing:
- □ Perforated
- □ Screen
  - Material: P.V.C.
  - Length: 20 ft.
  - Diameter: 4 in.
  - Wall thickness: 0.025 in.
  - Openings: 3 sq. in./L.F.

Open Hole:
- Length: 0 ft.
- Diameter: 0 in.

*Approximate elevation at time of filing application. Ground elevation above mean sea level (msl) by a surveyor licensed by the State must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion/well abandonment reports.
STAFF SUBMITTAL

for the meeting of the
COMMISSION ON WATER RESOURCE MANAGEMENT

January 24, 1996
Wailuku, Maui

Deborah Wilson
Peahi-Wilson Well (Well No. 5515-02)
Well Construction: 10-inch diameter, 350-foot deep
Pump Installation: 20-gpm Pump
for domestic and irrigation use

TMK 2-8-4:52, Kealiinui, Makawao, Maui

APPLICANT:
Deborah Wilson
P.O. Box 106
Paia, Hawaii 96779

LANDOWNER:
Same

DESCRIPTION:
Location:
Kealiinui, Makawao, Maui
Tax Map Key 2-8-4:52 (See Exhibit 1).
Haiku Aquifer System of Koolau Sector.
Estimated Sustainable Yield: 31 mgd.
Existing Use: 1 mgd

Dimensions:

- ground elevation: 320 ft.
- hole diameter: 10 in.
- solid casing depth: 331 ft.
- screen casing depth: 20 ft
- open hole: none

Total depth: 350 ft.
Anticipated pump capacity: 20 gpm
BACKGROUND:
No previous action on this application

ISSUES/ANALYSIS:
Agency Review: The application was circulated to the State DLNR's Divisions of Historic Preservation and Aquatic Resources, the Office of Hawaiian Affairs, the Departments of Hawaiian Home Lands and Health, and to the Maui Department of Water Supply. While the Department of Health has no jurisdiction over individual and small private drinking water systems, it points out that cesspools in rural areas warrant testing prior to well use for drinking, for the applicant's safety.

Staff review: The proposed well would tap fresh basal ground water. Proposed use is approximately 250 gallons per day. This is the fourth equally-spaced well over 0.75 mile (approximately 1000 feet apart), mauka to makai. Three other wells are at one mile distance, across streams. No adverse impacts are expected.

RECOMMENDATION:
A. That the Commission approve the issuance of a well construction permit for Peahi-Wilson Well, subject to the standard permit conditions in Exhibit 3 and the following special conditions:
   1. No permanent monitor tube is required.
   2. The long-term continuous test shall be at least 8 hours.
   3. No step-drawdown test is required.
   4. The well shall not be used for drinking water unless it is properly tested and treated.

B. That the Commission authorize the Chairperson to approve and issue a pump installation permit upon acceptance of aquifer pumping test results required in Standard Condition 6e.

Respectfully submitted,

RAE M. LOUI
Deputy Director

Attachments

APPROVED FOR SUBMITTAL:

MICHAEL D. WILSON, Chairperson
Ms. Deborah Wilson
P.O. Box 106
Paia, Hawaii 96779

Dear Ms. Wilson:

Enclosed are two (2) copies of your permit for the captioned well. Please sign them and return one for our files.

Also enclosed is a Water Use Report form, to be used as a master for your periodic reporting.

If you have any questions, please call Rae M. Loui, Deputy Director, at [REDACTED]

Aloha,

[Signature]

Michael D. Wilson
Chairperson
In accordance with Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to construct, test, and install a pump in Peahi-Wilson Well (Well No. 5515-02) at Kealiiinui, Makawao, Maui, TMK 2-8-4:52, is approved, subject to the following conditions:

**STANDARD PERMIT CONDITIONS**

1. The Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, before any work by this permit commences.

2. The well construction permit shall be for construction and testing of the well only. A minimum one-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Commission, to accurately record water levels. The permittee shall coordinate with the Commission and conduct a pumping test in accordance with the attached Aquifer Pump Testing Procedure. The permittee shall submit to the Commission 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 Commission.

3. The permittee 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.

4. In the event that subsurface cultural remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and contact the Department's Historic Preservation Division (587-0045) immediately.

5. 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.

6. The following shall be submitted to the Commission within thirty (30) days after completion of work:
   a. Well completion report.
   b. Elevation (referenced to mean sea level, msl) survey by a Hawaii-licensed surveyor.
WEll CONSTRUCTION/PUMP INSTALLATION PERMIT
Page 2
Well No. 5515-02

7. The permittee shall comply with all applicable laws, rules, and ordinances.

8. The well construction permit application and staff submittal approved by the Commission at its January 24, 1996 meeting are incorporated into the permit by reference.

9. 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 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 Commission upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Commission no later than three (3) months prior to the date the permit expires. If the commencement or completion date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

SPECIAL CONDITIONS

1. No permanent monitor tube is required.
2. The long-term continuous test shall be at least 8 hours.
3. No step-drawdown test is required.
4. The well shall not be used for drinking water unless it is properly tested and treated.
5. The Chairperson shall approve and issue a pump installation permit upon acceptance of aquifer pumping test results required in Standard Condition 6e.

MICHAEL D. WILSON, Chairperson
Commission on Water Resource Management

Date of Approval: January 24, 1996

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.

Applicant's Signature: __________________________ Date: __________

Printed Name: ______________________________________________________

Firm or Title: _______________________________________________________

Please sign both copies and return one copy of this permit to the Commission and retain a copy for your record.

Attach.
cc: USGS
   Department of Health
       Safe Drinking Water Branch
       Wastewater Branch
   Maui Department of Water Supply
January 4, 1996

MEMORANDUM

TO: Rae M. Loui, Deputy Director
Commission on Water Resources

FROM: Don Hibbard, Administrator
State Historic Preservation Division

Kealiinui, Makawao District, Island of Maui
TMK: 2-8-04: 52

The proposed new well is located on an upland ridge setting and is currently accessible via an existing road.

Our records indicate that historic sites occur within the gulch areas of Kealiinui, including Peahi Gulch and Kakipi Gulch. No known historic sites have been identified in the upland ridge areas, which were used for pineapple cultivation through the early and middle twentieth century.

According to the applicant, the well site is located on a previously grubbed and graded pad. It is therefore unlikely that historic sites are present in the vicinity of the well.

We believe that this well construction will have "no effect" on historic sites.

KD:jen
TO: Honorable Lawrence Miike, Director  
   Department of Health  
   Attn: Mr. Dennis Tulang, Wastewater Branch  
       Mr. William Wong, Safe Drinking Water Branch

Honorable Kali Watson, Chairman  
Hawaiian Homes Commission

Honorable Clayton H.W. Hee, Chairperson  
Office of Hawaiian Affairs

Mr. David Craddick, Director  
County of Maui, Department of Water Supply

Mr. Don Hibbard, Administrator  
DLNR, Division of Historic Preservation

Mr. William Devick  
DLNR, Division of Aquatic Resources

FROM: Michael D. Wilson, Chairperson  
Commission on Water Resources Management

SUBJECT: Well Construction and Pump Installation Permit Application for Peahi-Wilson Well (Well No. 5515-92)

Transmitted for your review and comment is a copy of a Well Construction and Pump Installation Permit Application for Peahi-Wilson Well (Well No. 5515-92).

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 December 11, 1995.

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Charley Ice of the Commission staff at [contact information]

Attachment(s)

Response: ☑️ We have no objections  
( ) Comments attached

Contact Person: [Name] Phone: [Phone Number]

Signed: [Name] Date: [Date]
TO: Honorable Lawrence Miike, Director
   Department of Health
   Attn: Mr. Dennis Tulang, Wastewater Branch
        Mr. William Wong, Safe Drinking Water Branch

Honorable Kali Watson, Chairman
Hawaiian Homes Commission

Honorable Clayton H.W. Hee, Chairperson
Office of Hawaiian Affairs

Mr. David Craddick, Director
County of Maui, Department of Water Supply

Mr. Don Hibbard, Administrator
DLNR, Division of Historic Preservation

Mr. William Devick
DLNR, Division of Aquatic Resources

FROM: Michael D. Wilson, Chairperson
      Commission on Water Resource Management

SUBJECT: Well Construction and Pump Installation Permit Application for
         Peahi-Wilson Well (Well No. 5515-02)

Transmitted for your review and comment is a copy of a Well Construction
and Pump Installation Permit Application for Peahi-Wilson Well (Well No. 5515-02).

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 December 11, 1995.

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

Attachment(s)

Response:
   ( ) We have no objections
   ( ) Comments attached

Contact Person:_________________________ Phone:_________________________
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<thead>
<tr>
<th>F YR APP</th>
<th>D</th>
<th>SRC/ OBJ</th>
<th>COST OBJ</th>
<th>CTR</th>
<th>PROJECT</th>
<th>PH</th>
<th>ACT</th>
<th>AMOUNT</th>
<th>NAME/DESCRIPTION (WANG INPUT)</th>
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**REMARKS:**
- LINE (1) Well No. 5515-02 (Peahi-Wilson)
- LINE (2) Well #5626-02, 5726-01 (Puakukui Wells 1 & 2)
- LINE (3) SCAP-HA-191, SCAP-HA-192, SCAP-HA-193
- LINE (4)
PAY TO THE ORDER OF AKINAKA & ASSOCIATES. LTD.
250 N. BERETANIA ST., SUITE 300
HONOLULU, HI 96817-4178

EXACTLY $50 AND 00 CTS

DATE

AMOUNT

DEPARTMENT OF LAND AND NATURAL RESOURCES
October 6, 1995 $50.00**

Robert Y. Allen

David Y. Young

Well Permit Application Filing Fee
GF 95-04

AKINAKA & ASSOCIATES, LTD.
TO: Honorable Lawrence Miike, Director
Department of Health
Attn: Mr. Dennis Tulang, Wastewater Branch
Mr. William Wong, Safe Drinking Water Branch

Honorable Kali Watson, Chairman
Hawaiian Homes Commission

Honorable Clayton H.W. Hee, Chairperson
Office of Hawaiian Affairs

Mr. David Craddick, Director
County of Maui, Department of Water Supply

Mr. Don Hibbard, Administrator
DLNR, Division of Historic Preservation

Mr. William Devick
DLNR, Division of Aquatic Resources

FROM: Michael D. Wilson, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction and Pump Installation Permit Application for Peahi-Wilson Well (Well No. 5515-02)

Transmitted for your review and comment is a copy of a Well Construction and Pump Installation Permit Application for Peahi-Wilson Well (Well No. 5515-02).

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 December 11, 1995.

Please find a map, attached, to locate the proposed well. If you have any questions about this permit application, request additional information, or request additional review time, please contact Charley Ice of the Commission staff at [redacted].

Attachment(s)

Response:

( ) We have no objections

( ) Comments attached

Contact Person: William Devick
Phone: [redacted]

Signed: [redacted]
Date: [redacted]
APPLICATION FOR PERMIT

Well Construction or Pump Installation

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Oahu 96828. Application must be accompanied by a non-refundable filing fee of $250 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0225.

1. APPLICANT: (may be a, b, or c, but all must be filled in)
   (a) WELL OWNER
      Firm/Name: Deborah Wilson
      Contact Person: Deb Wilson
      Address: 175 Puna Rd Eho'okule, Island MAUI
      Phone: 808-272-729

   (b) LANDOWNER
      Firm/Name: Deborah Wilson
      Contact Person: Deb Wilson
      Address: 175 Puna Rd Eho'okule, Island MAUI
      Phone: 808-272-729

   (c) CONTRACTOR
      Firm/Name: Deborah Wilson
      Contact Person: Deb Wilson
      Address: 175 Puna Rd Eho'okule, Island MAUI
      Contractor's C-67 License No: 12345

2. WELL LOCATION/NAME:
   175 Puna Rd Eho'okule, Island MAUI
   Address:
   Tax Map Key: 2-8-04-5-2

3. (a) PROPOSED WORK:
   • Drill New Well
   • Modify Existing Well
   • Deepen
   • Abandon/Seal
   • Insult New Pump
   • Replace Pump
   • Modify Pump
   • Be sure to complete and submit well abandonment report upon completion of work.

(b) WELL TYPE:
   • Dug
   • Bored
   • Driven
   • Drilled
   • Radial
   Is this well part of a battery of wells?  No

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: 20 gallons per minute

   Pump Type:
   • Deep Well Turbine
   • Submersible
   • Rotary-Displacement
   • Reciprocating
   • Rotary-Gear
   • Impulse
   • Electric, rated horsepower of 2

5. PROPOSED USE:
   • Municipal (including hotels, stores, etc.)
   • Domestic (individual, noncommercial water use)
   • Irrigation (irrigation only)
   • Other (specify)
   • State (State Use District)
   • Urban
   • Agricultural
   • Rural
   • Conservation
   County Zoning (describe)

6. (a) PROPOSED AMOUNT OF WITHDRAWAL:
   350 gallons per day

   (b) METHOD OF FLOW MEASUREMENT:
   • Flow-meter
   • Open-pipe
   • Other
   • None

7. PENDING ACTIONS:
   • CDUA
   • SMA
   • EIS
   • EA
   • NOE
   • Or another

8. REMARKS, EXPLANATIONS:

NOTE: Signing below indicates that the applicant understands that, if the permit is requested be granted by the Commission on Water Resource Management, the proposed work is to be completed within two (2) years of the approved date. In addition, the contractor must submit to the Commission a well completion report, well abandonment report, or both, within 30 days after the completion date of the proposed work. The applicant also understands that the survey water use data shall be submitted to the Commission. The applicant further understands that approval of the proposed well shall not constitute a dispensation of pre-existing water rights and shall not guarantee the pump capacity or future use to the permitted pump capacity.

Well Owner: Deborah Wilson
Landowner: Deb Wilson
Contractor: Deborah Wilson

Signature: Deborah Wilson
Date: 9/27/95
Signature: Deb Wilson
Date: 9/27/95
Signature: Deborah Wilson
Date: 9/27/95

For Official Use Only:
Date Received
Date Approved
Field Checked By
Date
Longitude
Latitude
Aquifer System Name
State Well No.
8. PROPOSED WELL SECTION

Elevation at top of casing: 281 ft, msl.

Ground Elevation: 320 ft, msl.

Cement Grout: 570 ft.

Rock Packing: 50 ft.

Hole Diameter: 10 in.

Total Depth: 250 ft.

Solid Casing:
- Material: PVC (or another specified material)
- Length: [specify length]
- Diameter: [specify diameter]
- Wall thickness: [specify thickness]

Casing:
- Material: PVC
- Length: [specify length]
- Diameter: [specify diameter]
- Wall thickness: [specify thickness]
- Openings: [number and size of openings]

Open Hole:
- Length: [specify length]
- Diameter: [specify diameter]

*Approximate elevation at time of filing application. Ground elevation above mean sea level (msl) by a surveyor licensed by the State must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion/well abandonment reports.
APPLICATION FOR PERMIT

Well Construction or Pump Installation

1. APPLICANT: (may be a, b, or c, but all must be filled in)
   (a) WELL OWNER
   Firm/Name: Deborah Wilson
   Contact Person: Lio Wilson
   Address: PO Box 101
   Phone: 572-0723
   (b) LANDOWNER
   Firm/Name: Deborah Wilson
   Contact Person: DM Wilson
   Address: PO Box 98229
   Phone: 572-0723
   (c) CONTRACTOR
   Firm/Name: Deborah Wilson
   Contact Person: DMI Wilson
   Address: PO Box 98229
   Contractor’s C-57 License No.

2. WELL LOCATION/NAME:
   Deborah K. Wilson
   Island: MAUI
   Address: 1775 Hunkle Rd Kula, HI
   Tax Map Key: 2-8-04-5-2
   (Attach a USGS map, scale 1” = 1000, and a property tax map showing well location referenced to established property boundaries.)

3. (a) PROPOSED WORK:
   □ Drill New Well
   □ Modify Existing Well
   □ Install New Pump
   □ Replace Pump
   □ Deepen
   □ Extend
   □ Abandon/Seal
   □ * Be sure to complete and submit well abandonment report upon completion of work.
   (b) WELL TYPE:
   □ Dug
   □ Bored
   □ Driven
   □ Drilled
   □ Radial
   Is this well part of a battery of wells? □ Yes □ No
   (Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: 20 gallons per minute
   Pump Type:
   □ Deep Well Turbine
   □ Submersible
   □ Centrifugal
   □ Rotary
   □ Rotary-Displacement
   □ Rotary-Gear
   □ Reciprocating
   □ Impulse
   □ Electric, rated horsepower of
   Motor:
   □ Diesel
   □ Gas
   □ Other (explain)

5. PROPOSED USE:
   □ Municipal (including hotels, stores, etc.)
   □ Industrial
   □ Agriculture
   □ Other (explain)
   State Land Use District:
   □ Urban
   □ Agriculture
   □ Rural
   □ Conservation
   County Zoning (describe)
   (If more space is needed, continue below on back.)

6. (a) PROPOSED AMOUNT OF WITHDRAWAL:
   □ Gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
   □ Flow-meter
   □ Open-plate
   □ Closed-plate
   □ Other (explain)

7. PENDING ACTIONS:
   □ COA
   □ SMA
   □ EIS
   □ EA
   □ NONE
   □ Other (explain)

8. REMARKS, EXPLANATIONS:

   (If more space is needed, continue on back)

NOTE: Signing below indicates that the applicant understands that, if the permit requested is granted by the Commission on Water Resource Management, the proposed work is to be completed within (2) years of the approval date. In addition, the contractor shall submit to the Commission a well completion report, well abandonment report, or both, within 30 days after the completion date of the permitted work. The applicant also understands that monthly water use data shall be submitted to the Commission. The applicant further understands that approval of the proposed permit will not constitute a determination of corrective water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner: Deborah Wilson
Landowner: Deborah Wilson
Contractor: Deborah Wilson

Signature: ____________________________
Date: 9/27/95
Signature: ____________________________
Date: 9/27/95
Signature: ____________________________
Date: 9/27/95

For Official Use Only:
Date Received
Date Accepted
Filed Checked By
Date

Longitude: ____________________________
Latitude: ____________________________
Aquifer System Name: ____________________________
State Well No. ____________________________

DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCES MANAGEMENT
P.O. Box 821, Honolulu, Hawaii 96829
Phone: (808) 589-3290
8. PROPOSED WELL SECTION

Elevation at top of casing: 381 ft., msl.

Cement Grout: 870 ft.

Rock Packing: 50 ft.

Hole Diameter: 10 in.

Total Depth: 350 ft.

Solid Casing:
- Material: PVC
- Length: 10 ft.
- Diameter: 4 in.
- Wall thickness: 0.025 in.

Casing:
- 0 Perforated
- 0 Screen
- Material: PVC
- Length: 10 ft.
- Diameter: 4 in.
- Wall thickness: 0.025 in.
- Openings: 0 sq. in./L.F.

Open Hole:
- Length: 0 ft.
- Diameter: 0 in.

*Approximate elevation at time of filing application. Ground elevation above mean sea level (msl) by a surveyor licensed by the State must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion/well abandonment reports.