TO: Grove Farm Properties, Inc.
P.O. Box 2069
Puhi, HI 96766-7069

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 Grove Farm Observation/Exploratory Well 4 (Well No. 5826-03) at TMK: 3-4-01:2, is approved, subject to the following 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 shall be used to determine water levels and gather other hydrogeologic information, including conducting aquifer tests. Upon completion of testing, the applicant shall either convert the well to a permanent observation well, as proposed in the application, or obtain a well construction permit to modify the well. The well shall be properly secured and marked to prevent accidental damage or vandalism, and to keep it from being lost.

3. The following shall be submitted to the Commission within 30 days after completion of the well:
   b. As-built sectional drawing of the well.
   c. Plot plan and map showing the exact location of the well.
   d. Periodic reports of monitoring and testing results.
4. The applicant shall comply with all applicable laws, rules, and ordinances.

5. The well construction permit application is incorporated into the permit by reference.

6. 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.

7. If the well is abandoned, the applicant shall obtain a well construction permit to seal the well with cement grout in a manner approved by the Commission.

KEITH W. AHUE, Chairperson

APR 26 1994

Date of Issuance

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

Enc. (Well Completion Report form)

cc: USGS
Department of Health
Safe Drinking Water Branch
Solid and Hazardous Waste Branch
Ground Water Protection Program
Wastewater Branch
Kauai Department of Water
Akinaka & Associates, Ltd.
WELL CONSTRUCTION PERMIT

for

Grove Farm Observation/Exploratory Well 3
Well No. 5826-02
Puhi, Kauai

TO: Grove Farm Properties, Inc.
P.O. Box 2069
Puhi, HI 96766-7069

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 Grove Farm Observation/Exploratory Well 3 (Well No. 5826-02) at TMK: 3-4-05:3, is approved, subject to the following 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 shall be used to determine water levels and gather other hydrogeologic information, including conducting aquifer tests. Upon completion of testing, the applicant shall either convert the well to a permanent observation well, as proposed in the application, or obtain a well construction permit to modify the well. The well shall be properly secured and marked to prevent accidental damage or vandalism, and to keep it from being lost.

3. The following shall be submitted to the Commission within 30 days after completion of the well:
   b. As-built sectional drawing of the well.
   c. Plot plan and map showing the exact location of the well.
   d. Periodic reports of monitoring and testing results.

4. The applicant shall comply with all applicable laws, rules, and ordinances.
5. The well construction permit application is incorporated into the permit by reference.

6. 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.

7. If the well is abandoned, the applicant shall obtain a well construction permit to seal the well with cement grout in a manner approved by the Commission.

KEITH W. AHUE, Chairperson

APR 26 1994

Date of Issuance

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

Enc. (Well Completion Report form)

cc: USGS
Department of Health
Safe Drinking Water Branch
Solid and Hazardous Waste Branch
Ground Water Protection Program
Wastewater Branch
Kauai Department of Water
Akinaka & Associates, Ltd.
WELL CONSTRUCTION PERMIT

for

Grove Farm Observation/Exploratory Well 2
Well No. 5826-01
Puhi, Kauai

TO: Grove Farm Properties, Inc.
P.O. Box 2069
Puhi, Hi 96766-7069

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 Grove Farm Observation/Exploratory Well 2 (Well No. 5826-01) at TMK: 3-4-05:3, is approved, subject to the following 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 shall be used to determine water levels and gather other hydrogeologic information, including conducting aquifer tests. Upon completion of testing, the applicant shall either convert the well to a permanent observation well, as proposed in the application, or obtain a well construction permit to modify the well. The well shall be properly secured and marked to prevent accidental damage or vandalism, and to keep it from being lost.

3. The following shall be submitted to the Commission within 30 days after completion of the well:
   b. As-built sectional drawing of the well.
   c. Plot plan and map showing the exact location of the well.
   d. Periodic reports of monitoring and testing results.

4. The applicant shall comply with all applicable laws, rules, and ordinances.
5. The well construction permit application is incorporated into the permit by reference.

6. 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.

7. If the well is abandoned, the applicant shall obtain a well construction permit to seal the well with cement grout in a manner approved by the Commission.

KEITH W. AHUE, Chairperson
APR 26 1994

Date of Issuance

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

Enc. (Well Completion Report form)
cc: USGS
Department of Health
Safe Drinking Water Branch
Solid and Hazardous Waste Branch
Ground Water Protection Program
Wastewater Branch
Kauai Department of Water
Akinaka & Associates, Ltd.
November 23, 1999

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

Attention: Lenore Nakama

Project: Puakukui Wells 1 & 2 (Well Nos. 5626-02 & 5726-01)
And Haiku Mauka Well (Well No. 5825-01)

Subject: Well Construction Permit (5826-02 & 01)
And Well Completion Report (5825-01)

Reference: CWRM letter dated Sep. 24, 1999

In response to the reference, your assumption for Wells Nos. 5626-02 & 01 is correct. No work was done under the well construction permit.

In regards to Well No. 5825-01, a permanent pump was not installed. The elevation survey will be submitted by Grove Farm Properties under separate cover. The well completion report is signed and returned for your files. A copy of "Haiku Mauka Well #1 AS BUILT REPORT" which contains the well section, pumping test results and water quality data is attached to supply the information requested by the reference.

Point of contact is Henry Morita at 536-7721.

Very truly yours,

Henry S. Morita
Executive Vice President

DLNR001L.doc
# WELL COMPLETION REPORT

State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

**RECEIVED**

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<th>WELL COMPLETION REPORT</th>
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<td><strong>8/7 AUG 8</strong></td>
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<tr>
<td><strong>NO. 80</strong></td>
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**PART I. WELL CONSTRUCTION REPORT**

3. **Drilling Company:** Impact Well Drilling

4. **Name of driller who performed work:** Aaron Forslund

5. **Type of project:** Cable Test

6. **Date(s) Well Construction and pump test(s):** July 14, 1997

7. **GROUND ELEVATION (referenced to mean sea level, ml):**
   - Well Bench Mark (description/location): Top at 12° 30′ 00″
   - Elevation (ml): 461.7

8. **DRILLER'S LOG:** Please attach geologic log (if available or if required by permit)

   - **Depth (ft.):**
     - Rock Description, Water Level, Dates, etc.
   - **600 ft.**
     - Red Clay, 139° 4′ 47″
   - **625 ft.**
     - Sandstone with clay, 138° 2′ 47″

9. **Total depth of well below ground:** 1000 ft.

10. **Hole size:**
    - 11 3/4 in. dia. from 600 ft. to 625 ft. below ground
    - 9 3/4 in. dia. from 625 ft. to 1000 ft. below ground

11. **Casing installed:**
    - 7 in. I.D., 11 3/4 in. well bored section to 600 ft. below ground
    - 7 in. I.D., 9 3/4 in. well bored section to 1000 ft. below ground

12. **Annulus:**
    - Grouted from 600 ft. below ground to 1000 ft. below ground
    - Gravel packed from 600 ft. below ground to 1000 ft. below ground

13. **Initial water level:** 139 ft. below ground
14. **Initial chloride:**
15. **Initial temperature:**
16. **PUMPING TESTS:**
    - **Reference Point (R.P.):**
      - **Date of testing:** July 14, 1997
      - **Well depth:** 461.7 ft.
    - **1st Step-Down Test Date:**
      - **Start water level:** 139 ft. below R.P.
      - **End water level:** 43 ft. below R.P.
    - **2nd Long-term Aquifer Test Date:**
      - **Start water level:** 139 ft. below R.P.
      - **End water level:** 111 ft. below R.P.
17. **Aquifer Pump Test Procedures data & graphs (29/96 LTAT Form) attached:** Yes/No
18. **As-built drawings attached:** Yes/No
19. **Other remarks/comments:** (On back of this form)

**Well Drilling Contractor (print):** Impact Well Drilling C-57

**Lic. No.:** C-16550

**Signature:**

**Date:** 7-16-97

**Surveyor (print):**

**Uc. No.:**

**Signature:**

**Date:**

**Applicant (print):**

**GROVE FARM PROPERTIES**

**Signature:**

**Date:** 11-23-99

---

**TOTAL P.02**
WELL COMPLETION REPORT

1. State Well No.: 5826-01  Well Name: GROVE FARM EXPLORATION Island: KAUAI
2. Location/Address: HAiku, hAWAII  Tax Map Key: 73-4-5803

PART I. WELL CONSTRUCTION REPORT

3. Drilling Company: WAI'ELI DRILLING & DEVELOPMENT
4. Name of driller who performed work: JACK LINDEBERG
5. Type of rig/construction: ROTARY/AIR
6. Date(s) Well Construction and pump tests (if any) completed: Aug 24, 1994
7. GROUND ELEVATION (referenced to mean sea level, msl): 480' est. ft.
   Well Bench Mark (description/location): Elevation(msl): N/A ft.
8. DRILLER'S LOG: Please attach geologic log (if available or if required by permit)

<table>
<thead>
<tr>
<th>Depth (ft.)</th>
<th>Rock Description, Water Level, Dates, etc.</th>
<th>Depth (ft.)</th>
<th>Rock Description, Water Level, Dates, etc.</th>
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<td>SEE ATTACHED AS-BUILT</td>
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</tbody>
</table>

(If more space is needed, continue on back.)

9. Total depth of well below ground: 384 ft.
10. Hole size: 24 inch dia. from 0 ft. to 10' ft. below ground
     8 inch dia. from 10' ft. to 384' ft. below ground

11. Casing installed: 19 in. I.D. x .277 in. wall solid section to 10 ft. below ground
     N/A in. I.D. x ___ in. wall perforated section to ____ ft. below ground

12. Annulus: Grouted from 0 ft. below ground to 10 ft. below ground
     Gravel packed from N/A ft. below ground to ____ ft. below ground

13. Initial water level: 51 ft. below ground. Date and time of measurement: Aug 21, 1994
15. Initial temperature: ___ F  Date and time of measurement: Aug 22, 1994
16. PUMPING TESTS: Reference Point (R.P.) used: GL, which elevation is -96 ft.
   (1) Step-Drawdown Test Date Aug 22, 1994
   Start water level 51 ft. below R.P.  End water level 245.5 ft. below R.P.
   (2) Long-term Aquifer Test Date N/A
   Start water level N/A ft. below R.P.

17. Aquifer Pump Test Procedures data & graphs (1/96 LTAT Form) attached? Yes X No
18. As-built drawings attached? X Yes _ No
19. Other remarks/comments: (On back of this form)

Well Drilling Contractor (print) WAI'ELI DRILLING C-57 Lic. No. C-16543
Signature ___________________________ Date 7/16/96

Surveyor (print) N/A  Lic. No. ____________
Signature ___________________________ Date ____________

Applicant (print) ___________________________ Date ____________
Signature ___________________________ Date ____________
**PART II. (PERMANENT) PUMP INSTALLATION REPORT**

20. Pump Installation Company: ________________________________

21. Name of person performing work: ________________________________

22. Date Pump Installation Completed: ________________________________

23. PUMP INSTALLATION:
   - Pump Type, Make, Serial No.: ________________________________
   - Capacity: _______ gpm
   - Motor type, H.P., Voltage, rpm: ________________________________
   - Depth of Pump Intake Setting _______ ft. below _______, which elevation is _______ ft.
   - Depth to bottom of airline _______ ft. below _______, which elevation is _______ ft.
   - Pumping Head is _______ ft. Type of flow meter: _______ which measures in _______.

24. As-built drawings attached? ______ Yes ______ No

25. Other remarks/comments: (See below)

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<th>Pump Installation Contractor (print)</th>
<th>C-57 Lic. No.</th>
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8.(cont'd) DRILLER'S LOG (cont'd):

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19. & 25. Remarks:

___________________________________________________________________________
___________________________________________________________________________
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___________________________________________________________________________
EXPLORATION OB #2

/10/94  00' - 70'  soft brown soil
   70' - 80'  medium hard - 5 mpf
   80' - 84'  softer - 3 minute per feet
   84' - 90'  med to soft - 2-4 mpf
   90' - 99'  soft. water present
   99' - 104'  medium - 2 to 4 mpf
  104' - 107'  medium to hard
  107' - 120'  hard - 10 to 15 mpf
  120' - 124'  soft, red
  124' - 140'  soft - 0.3 mpf
  140' - 144'  med to soft - 2 to 4 mpf
  144' - 155'  mixed with mostly soft, ratty
  155' - 163'  medium hard

8/11/94  163' - 166'  hard - 5 to 7 mpf
   166' - 169'  ratty
   169' - 180'  hard
   180' - 188'  hard - 5 to 7 mpf
   188' - 204'  soft, red - 0 to 2 mpf
   204' - 210'  soft - 2 to 3 mpf
   210' - 220'  hard - 5 to 10 mpf
   220' - 224'  soft, red
   224' - 234'  medium soft - 2-5 mpf
   234' - 244'  hard - 7 to 10 mpf

8/15/94  244' - 249'  hard - 10 to 12 mpf
   249' - 264'  soft, red
   264' - 294'  soft, red, some cinder
   284' - 304'  soft, red
   304' - 324'  soft to firm - 1 to 2 mpf
   324' - 335'  soft with small red stringers
   335' - 344'  medium - 3 to 5 mpf
   344' - 350'  medium, some black rock
   350' - 364'  soft, red
   364' - 370'  soft to medium
   484 - 490'  sticky soft torque - 2 to 4 mpf
   370' - 380'  ratty
   380' - 384'  soft.
**WELL: Haiku Mauka OB Well 15**

**Pumping Test P.1 22-Aug-94**

### WELL GRAPHS
- **STATIC WATER LEVEL:** 51’ (7:30 am)
- **PUMP INLET:** 336'
- **GROUND ELEV.:** 480’ estimate
- **AIRLINE:** 283'
- **0 = 100.5 PSI**

### HAiku OB/Ex #2

### PUMP SUMMARY
18 AUG 94

### TIME OF DAY

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TOTAL P.05
JULY 17, 1996

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

Attention: Rae Loui

Per your request to Mr. Greg Kamm, Grove Farm Properties Inc. we have enclosed the well completion report for Well No. 5826-01 to show the construction work that has been done to date. An as-built of the incomplete well is also included.

Sincerely,

C. Dale Stromquist
Managing Partner

c.c. Waimea Water Service, Inc.
Akinaka & Associates

grove5
Mr. Greg Kamm
Grove Farm Properties, Inc.
P.O. Box 2069
Puhi, HI 96766-7069

Dear Mr. Kamm:

Well Completion Reports
Well Nos. 5826-01 to 03 & 5825-04

This is in regards to your letter of June 6, 1996. We wish to clarify the following:

1. Well No. 5825-04 - We have received the well completion reports from Kauai Humane Society. We apologize for the confusion regarding this well.

2. Well No. 5826-01 - The well construction permit for this well has lapsed. A new application for a well construction permit must be obtained prior to any further construction work. There is no deadline for filing a new application; however, in the interim, we are requesting that you provide information regarding the construction work that has been done to date. Our concern is that there may be a potential for ground water contamination at this site. Please direct the drilling contractor to fill out the enclosed well completion report showing the construction work that has been done. As-built sectional drawings, which show how the incomplete well has been secured, should also be submitted.

3. Well Nos. 5826-02 & 03 - As no drilling activity has occurred at these sites, we are not requesting any additional information for these wells at this time. We will look forward to new applications for well construction permits prior to any future construction work.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

RAE M. LOUI
Deputy Director

LN:ss
Attachments
Mr. Michael Wilson, Chairperson  
Commission on Water Resource Management  
Department of Land and Natural Resources  
Division on Water Resource Management  
State of Hawaii  
P.O. Box 621  
Honolulu, Hawaii 96809  

Attn: Ms. Rae M. Loui  
Deputy Director  

Dear Mr. Wilson:

Re: Well Completion Report  
Wells No. 5825-04 & 5826-01 to 03  
Kauai Humane Society Well, Haiku Mauka Observation/Exploration  
Wells #2, #3 & #4  
TMK: (4) 3-4-05:3 & 3-4-01:2  
Haiku Mauka, Kauai, Hawaii

As a continued follow-up to your letter of May 7, 1996, and our initial response of June 3, 1996, please note that we have corrected our earlier reference to Wells No. 5826-02 & 03 as being Grove Farm’s Puakukui Wells #1 & #2. They are instead Grove Farm’s Haiku Mauka Observation/Exploration Wells #3 & #4. We apologize for our error in well name reference, however the status of Wells No. 5826-02 & 03 remains as stated in our June 3, 1996 response.

Also, attached please find a copy of the following information regarding an updated status of Well No. 5825-04, the Kauai Humane Society Well:

- Well Completion Report for Well No. 5825-04 Kauai Humane Society Well #1 (formerly Grove Farm’s Observation/Exploration Well #1) dated 4/22/96  
- Commission on Water Resource Management letter dated 5/07/96 acknowledging receipt of well completion report  
- Kauai Humane Society letter dated 6/5/96 submitting elevation survey letter  
- Esaki Surveying & Mapping, Inc. letter dated 6/5/96 certifying elevation of well

Please note that the well number referenced on all but the well completion report appear to have been inadvertently reversed (ie. referenced Well No. 5824-05, should be 5825-04.)

P.O. Box 2069  
Puhi Rural Branch  
Lihue, Hawaii 96766-7069  
Phone: (808) 245-3678  
FAX (808) 246-9470
If there are any questions, please call Heather M. Harvey or the undersigned at 1-808-245-3678.

Sincerely,

GROVE FARM COMPANY, INCORPORATED

Allan A. Smith
Vice President and
Chief Operating Officer

cc: (All without attachments)
Ray Hoe, Kauai Humane Society
Ben Ganal, Akinaka & Associates
Dennis Esaki, Esaki Surveying & Mapping
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<th>TO:</th>
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<th>FOR:</th>
<th>PLEASE:</th>
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<td>LOUI, R.</td>
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<td>UWAME, J.</td>
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<td>YODA, K.</td>
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Re: 5/7/96 letter?

1. We got your 4/25/96 - what was question on coping?

2. Communication mix-up? Sounds like Charlie meant they could file P&RC modifications at any time - what was

Need to reply to clear up any misunderstandings.
June 3, 1996

Mr. Michael Wilson, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
Division on Water Resource Management
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

Attn: Ms. Rae M. Loui
Deputy Director

Dear Mr. Wilson:

Re: Well Completion Reports
Well No 5825-04 & 5826-01 to 03
Humane Society Well, Haiku Mauka Exploratory Well #2, and
Puakukui Wells 1 & 2
Haiku, Kauai, Hawaii

In response to your letter of May 7, 1996, we offer the following information regarding project status:

1. Well No. 5825-04 - Humane Society Well #1 (formerly Grove Farm’s Observation/Exploration Well #1)
   We believe that the permit for this well has not lapsed since the subsequent permit application to modify this well and install a pump for domestic and irrigation use by the Kauai Humane Society was approved by the Commission on Water Resource Management on February 7, 1996 (Attachment A). The required well completion report will be submitted by the Kauai Humane Society after the well is completed.

2. Well No. 5826-01 - Grove Farm’s Haiku Mauka Observation/Exploration Well #2
   Grove Farm Properties, Inc. (GFPI) had requested, from the Commission Water Resource Management (COWRM), to defer completion of this well to observation or production by letter dated April 3, 1995. Per your letter to GFPI dated April 19, 1995, we understood that there was no deadline for filing (Attachment B).

3. Wells No. 5826-02 & 03 - Grove Farm’s Puakukui Wells #1 & 2
   GFPI has only cleared an area for the drilling equipment, has not started drilling of these wells, and has suspended further work. New applications for well construction will be submitted prior to any construction work.

P.O. Box 2069  Puhu Rural Branch  Lihue, Hawaii 96766-7069
Phone: (808) 245-3678  FAX (808) 246-9470
Mr. Michael Wilson  
June 3, 1996  
Page 2

Please confirm our understanding that permits for wells #5825-04 ad #5826-01 are still valid, and no reports are required at this time.

If there are any questions, please call Heather M. Harvey or the undersigned at 1-808-245-3678.

Sincerely,

GROVE FARM COMPANY, INCORPORATED

[Signature]

Allan A. Smith  
Vice President and  
Chief Operating Officer

AAS.HMH.BG:hmh

DLNRCWRM.WEL

Attachments (2)

cc: Ray Hoe, Kauai Humane Society (w/attachments)  
    Ben Ganai, Akinaka & Associates (w/attachments)
Applications for Well Construction Permit

KAUAI

♦ Kauai Humane Society
Location ................................ Haiku, Lihue, Kauai
Tax Map Key ................................ 3-4-5-3
Well Name & No. ................................ Haiku Mauka Well 1 (5825-04)
Aquifer System ................................ Hanamaulu-Lihue

Casing an 8-in. diameter, 700-ft. deep exploratory well and installation of a 50 gpm capacity pump for animal facility use. Proposed withdrawal, 6,000 gpd. To be renamed Humane Society Well 1. Approved February 7, 1995

♦ Virginia A. Lyon
Location ................................ Pilao, Hanalei, Kauai
Tax Map Key ................................ 5-1-4-6
Well Name & No. ................................ Rajpur Elixir (1222-01)
Aquifer System ................................ Kilauea-Lihue


♦ Joe F. Anderson
Location ................................ Aliomanu, Kawaihau, Kauai
Tax Map Key ................................ 4-9-2-1D
Well Name & No. ................................ Aliomanu-Anderson Well (0919-04)
Aquifer System ................................ Anahola-Lihue

Construction of an 8-in. diameter, 400-ft. deep well and installation of a 50 gpm capacity pump for domestic and irrigation use. Proposed withdrawal, 0.070 mgd. Approved February 21, 1996

♦ Sunikis Shrimp Company, Ltd.
Location ................................ Kekaha, Wainee, Kauai
Tax Map Key ................................ 1-3-2-2
Well Name & No. ................................ Kekaha Shrimp Well (5844-01)
Aquifer System ................................ Kekaha/Wainee

Construction of a 6-ft. diameter, 20-ft. deep well sump and installation of two 200-gpm capacity pumps for aquaculture use. Proposed withdrawal, 125,000 gpd. Approved February 7, 1996

♦ Division of Land Management/Water Development
Location ................................ Kokoe, Wainee, Kauai
Tax Map Key ................................ 1-4-1:13
Well Name & No. ................................ Kokoe-Nu Exploatory Well (0739-03)
Aquifer System ................................ Wainee-Wainee

Construction of an 18-in. diameter, 140-ft. deep well to be tested for possible potable water use. Approved February 21, 1996

OAHU

♦ PVT Land Company
Location ................................ Lualualei, Waiamea, Oahu
Tax Map Key ................................ 8-7-9-7
Well Name & No. ................................ Lualualei-PVT Well (2208-02)
Aquifer System ................................ Lualualei/Waiamea

Installation of a 200 gpm capacity pump for irrigation use. Proposed withdrawal, 100,000 gpd.
Tentative CWRM action date: April 15, 1996 90-day Deadline: April 8, 1996

♦ *Hawaiian Western Steel
Location ................................ Mahukole, Oahu
Tax Map Key ................................ 9-1-256-010
Well Name & No. ................................ (1805-03 & 04)
Aquifer System ................................ Ewa Caprock

Abandonment/sealing of two (2) 16-in. casing, 100- and 50-ft. deep wells (below ground surface) that have been found to be partially filled with silt.
Tentative CWRM action date: June 5, 1996 90-day Deadline: June 3, 1996

♦ *Royal Oahu Resort, Inc.
Location ................................ Waipahu, Oahu
Tax Map Key ................................ 9-4-2-46
Well Name & No. ................................ Royal Oahu (2401-07)
Aquifer System ................................ Waipahu-Waipio

Construction of a 14-in. diameter casing, 543-ft. deep well for golf course irrigation use. Proposed withdrawal, 0.75 mgd. (In conjunction with application for water use permit.)
Tentative CWRM action date: May 17, 1996 90-day Deadline: June 1, 1996

MOLOKAI

♦ Waiola O Molokai, Inc.
Location ................................ Kamuela, Molokai
Tax Map Key ................................ 5-3-3-1
Well Name & No. ................................ Kamilo/Kamilo-Ranch Well (0759-01)
Aquifer System ................................ Kamilo/Southwest Molokai

Construction of a 26-in. diameter, 1658-ft. deep well and installation of a 1400 gpm capacity pump for use. Proposed withdrawal, 1,326 mgd. (In conjunction with application for water use permit.)
Tentative CWRM action date: May 20, 1996 90-day Deadline: April 24, 1996 (to be continued to Molokai meeting)
Mr. Greg Kamm  
Grove Farm Properties, Inc.  
P.O. Box 2069  
Puhi Rural Branch  
Lihu‘e, Hawaii 96766

Dear Mr. Kamm:

Conversion of Grove Farm Puhi Exploratory Wells  
(Well Nos. 5825-04, 5826-01)

Thank you for your April 3, 1995 letter requesting a one-year deferral of your determination to convert Exploration/Observation Well #2 (5826-01) to either an observation or production well, and your intention to file well modification and pump installation applications for converting Well #1 (5825-04) to a production well.

We understand your desire to await improvements in the Kaua‘i economy, and await your future applications. There is no deadline for filing.

Sincerely,

RAE M. LOUI  
Deputy Director

ATTACHMENT B

TOTAL P.03
Mr. Greg Kamm  
Grove Farm Properties, Inc.  
P.O. Box 2069  
Puhi, HI 96766-7069  

Dear Mr. Kamm:

Well Completion Reports  
Well Nos. 5826-01 to 03 & 5825-04

Well construction permits for Well Nos. 5826-01 to 03 & 5825-04 were approved by the Commission on Water Resource Management (Commission) on April 26, 1994. The specified durations of the permits were two (2) years from the date of approval. Please be advised that these permits have lapsed and new permits from the Commission must be obtained prior to any further construction work. We have attached a well construction application form for your future use. Please make copies of the application form as needed.

Under the terms of the permits, well completion reports were to be submitted within thirty (30) days after completion of the wells. While we realize that the work may not be completed, information regarding the current status of the construction work should be submitted. We request that you direct the drilling contractor to submit well completion reports and as-built sectional drawings for each of Well Nos. 5826-01 to 03 & 5825-04, showing the work that has been completed to date. We have attached our official well completion report form for use by the drilling contractor.

If you have any questions, please contact Lenore Nakama at 587-0218.

Sincerely,

RAE M. LOUI  
Deputy Director

LN:ss

Attachments
Mr. Greg Kamm
Grove Farm Properties, Inc.
P.O. Box 2069
Puhi Rural Branch
Lihu’e, Hawaii 96766

Dear Mr. Kamm:

Conversion of Grove Farm Puhi Exploratory Wells
(Well Nos. 5825-04, 5826-01)

Thank you for your April 3, 1995 letter requesting a one-year deferral of your determination to convert Exploration/Observation Well #2 (5826-01) to either an observation or production well, and your intention to file well modification and pump installation applications for converting Well #1 (5825-04) to a production well.

We understand your desire to await improvements in the Kaua’i economy, and await your future applications. There is no deadline for filing.

Sincerely,

RAE M. LOUI
Deputy Director

Ci:ss
Mr. Mike Wilson, Chairperson  
Commission on Water Resource Management  
Department of Land and Natural Resources  
Division of Water Resources Management  
State of Hawaii  
P. O. Box 621  
Honolulu, HI  96809  

Attention: Ms. Rae M. Loui  
Deputy Director  

Dear Mr. Wilson:

Re: Request for Determination for Well Construction Permits  
Grove Farm’s Puhi Exploration/Observation  
Wells #1 (#5825-04) and #2 (5826-01)  

Grove Farm Properties, Inc. has reached agreement with the Humane Society of Kauai for conversion of the Exploration/Observation Well #1 (State #5825-04) to a production well. Conversion design and pumping installation plan will be submitted to the Commission on Water Resource Management (CWRM) for approvals.

Exploration/Observation Well #2 (State #5826-01) has been secured as shown in the enclosed sketch since construction in August 1994. Grove Farm requests that permission to defer completion to observation or production of this well for a period of one year (renewable annually). Grove Farm’s water development program has been delayed and we desire to defer construction changes to Exploration/Observation Well #2 pending improvements in the economy of Kauai.

Sincerely,

GROVE FARM PROPERTIES, INC.

Greg Kamm  
Vice President
10/9/94
00' - 70' soft brown soil
70' - 80' medium hard - 5 mpf
80' - 84' softer - 3 minute per feet
84' - 90' med to soft - 2-4 mpf
90' - 99' soft, water present
99' - 104' medium - 2 to 4 mpf
104' - 107' medium to hard
107' - 120' hard - 10 to 15 mpf
120' - 124' soft, red
124' - 140' soft - 0.3 mpf
140' - 144' med to soft - 2 to 4 mpf
144' - 155' mixed with mostly soft, ratty
155' - 163' medium hard

8/11/94
163' - 166' hard - 5 to 7 mpf
166' - 180' ratty
180' - 184' hard
184' - 186' hard - 5 to 7 mpf
188' - 204' soft, red - 0 to 2 mpf
204' - 210' soft - 2 to 3 mpf
210' - 220' hard - 5 to 10 mpf
220' - 224' soft, red
224' - 234' medium soft - 2-5 mpf
234' - 244' hard - 7 to 10 mpf

8/15/94
224' - 249' hard - 10 to 12 mpf
249' - 264' soft, red
264' - 284' soft, red, some cinder
284' - 304' soft, red
304' - 324' soft to firm - 1 to 2 mpf
324' - 335' soft with small red stringers
335' - 344' medium - 3 to 5 mpf
344' - 350' medium, some black rock
350' - 364' soft, red
364' - 370' soft to medium
484' - 490' sticky soft torque - 2 to 4 mpf
370' - 380' ratty
380' - 384' soft.
Mr. Keith Ahue, Chairman
Commission on Water Resource Management
State of Hawaii Dept. of Land & Natural Resources
PO Box 621
Honolulu, HI 96809

Attention: Ms. Rae Loui, Deputy Director

RE: Notification of Well Construction Commencement
Grove Farm's Observation/Exploratory Wells #1 & #2
State Wells #5825-04 & #5826-01

Dear Ms. Loui:

Pursuant to condition #1 of the Well Construction Permits issued by the Water Commission, this letter is notification that work on the subject wells will begin no later than 6/15/94. Waieli Drilling will be doing the work for us under the direction of Mr. Steve Bowles of Waimea Water Services, Inc. and Mr. Bob Akinaka of Akinaka & Associates.

If you have questions, please call me at 1-245-3678 or Mr. Bob Akinaka at 536-7721.

Sincerely,

Greg Kamm
Vice President

cc: Steve Bowles
    Bob Akinaka
May 3, 1994

Mr. Keith Ahue, Chairman
Commission on Water Resource Management
State of Hawaii Dept. of Land & Natural Resources
PO Box 621
Honolulu, HI 96809

Attention: Ms. Rae Loui, Deputy Director

RE: Acceptance of Well Construction Permits
    Grove Farm's Observation/Exploratory Wells #1 - 4
    State Wells #5825-04, 5826-01, 5826-02, 5826-03

Dear Ms. Loui:

I am pleased to return signed originals of each of the four subject permits, all issued by the Water Commission on 4/26/94.

Grove Farm Properties is very appreciative of the prompt manner in which our permits were reviewed and issued.

Thank you for your continuing assistance and support.

Sincerely,

Greg Kamm
Vice President

encl.

cc w/ encl.: Steve Bowles
         Bob Akinaka
WELL CONSTRUCTION PERMIT

for

Grove Farm Observation/Exploratory Well 2
Well No. 5826-01
Puhi, Kauai

TO: Grove Farm Properties, Inc.
P.O. Box 2069
Puhi, HI 96766-7069

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 Grove Farm Observation/Exploratory Well 2 (Well No. 5826-01) at TMK: 3-4-05:3, is approved, subject to the following 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 shall be used to determine water levels and gather other hydrogeologic information, including conducting aquifer tests. Upon completion of testing, the applicant shall either convert the well to a permanent observation well, as proposed in the application, or obtain a well construction permit to modify the well. The well shall be properly secured and marked to prevent accidental damage or vandalism, and to keep it from being lost.

3. The following shall be submitted to the Commission within 30 days after completion of the well:
   b. As-built sectional drawing of the well.
   c. Plot plan and map showing the exact location of the well.
   d. Periodic reports of monitoring and testing results.

4. The applicant shall comply with all applicable laws, rules, and ordinances.
5. The well construction permit application is incorporated into the permit by reference.

6. 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.

7. If the well is abandoned, the applicant shall obtain a well construction permit to seal the well with cement grout in a manner approved by the Commission.

KEITH W. AHUE, Chairperson  
APR 26 1994  
Date of Issuance

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: 5/2/94

Printed Name: Greg Kamm, Vice President

Firm or Title: Grove Farm Properties, Inc.

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

Enc. (Well Completion Report form)  
cc: USGS  
Department of Health  
Safe Drinking Water Branch  
Solid and Hazardous Waste Branch  
Ground Water Protection Program  
Wastewater Branch  
Kauai Department of Water  
Akinaka & Associates, Ltd.
TO: Grove Farm Properties, Inc.  
P.O. Box 2069  
Puhi, HI 96766-7069

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 Grove Farm Observation/Exploratory Well 3 (Well No. 5826-02) at TMK: 3-4-05:3, is approved, subject to the following 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 shall be used to determine water levels and gather other hydrogeologic information, including conducting aquifer tests. Upon completion of testing, the applicant shall either convert the well to a permanent observation well, as proposed in the application, or obtain a well construction permit to modify the well. The well shall be properly secured and marked to prevent accidental damage or vandalism, and to keep it from being lost.

3. The following shall be submitted to the Commission within 30 days after completion of the well:
   b. As-built sectional drawing of the well.
   c. Plot plan and map showing the exact location of the well.
   d. Periodic reports of monitoring and testing results.

4. The applicant shall comply with all applicable laws, rules, and ordinances.
5. The well construction permit application is incorporated into the permit by reference.

6. 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.

7. If the well is abandoned, the applicant shall obtain a well construction permit to seal the well with cement grout in a manner approved by the Commission.

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: 5/2/94

Printed Name: Greg Kamm, Vice President

Firm or Title: Grove Farm Properties, Inc.

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

Enc. (Well Completion Report form)
cc: USGS
Department of Health
Safe Drinking Water Branch
Solid and Hazardous Waste Branch
Ground Water Protection Program
Wastewater Branch
Kauai Department of Water
Akinaka & Associates, Ltd.
TO: Grove Farm Properties, Inc.
P.O. Box 2069
Puhi, HI 96766-7069

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 Grove Farm Observation/Exploratory Well 4 (Well No. 5826-03) at TMK: 3-4-01:2, is approved, subject to the following 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 shall be used to determine water levels and gather other hydrogeologic information, including conducting aquifer tests. Upon completion of testing, the applicant shall either convert the well to a permanent observation well, as proposed in the application, or obtain a well construction permit to modify the well. The well shall be properly secured and marked to prevent accidental damage or vandalism, and to keep it from being lost.

3. The following shall be submitted to the Commission within 30 days after completion of the well:
   b. As-built sectional drawing of the well.
   c. Plot plan and map showing the exact location of the well.
   d. Periodic reports of monitoring and testing results.
4. The applicant shall comply with all applicable laws, rules, and ordinances.

5. The well construction permit application is incorporated into the permit by reference.

6. 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.

7. If the well is abandoned, the applicant shall obtain a well construction permit to seal the well with cement grout in a manner approved by the Commission.

KEITH W. AHUE, Chairperson
APR 26 1994
Date of Issuance

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: 5/2/94

Printed Name: Greg Kamm, Vice President

Firm or Title: Grove Farm Properties, Inc.

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

Enc. (Well Completion Report form)
cc: USGS
    Department of Health
    Safe Drinking Water Branch
    Solid and Hazardous Waste Branch
    Ground Water Protection Program
    Wastewater Branch
    Kauai Department of Water
    Akinaka & Associates, Ltd.
TO: Ed

RE: Grove Farm Properties, Inc.
Water Resource Exploration Program

Addl. Check for Well Permit App.
Rigging Fee
Observation Wells 1, 2, 3 & 4

As discussed

Sal
REGULATION BRANCH
Commission on Water Resource Management

FROM: ED
DATE: 4/8/94

TO: INIT:
PLEASE:

1. E. SAKODA
2. F. Ching
3. R. Hardy
4. L. Nakama
5. D. Higa
6. J. Zhang

1. See Me
2. Call
3. Review & Comment
4. Take Action
5. Investigate & Report
6. Draft Reply
7. Acknowledge Receipt
8. Type Draft
9. Type Final
10. Xerox copies

FOR YOUR:

1. R. LOUI
2. S. KOKUBUN
3. Y. SHIROMA
4. E. HIRANO

REMARKS:

Juliana,
Please draft a reply, but necessary
0. Acknowledge receipt
0. Need an $25 filing fee for each well. Submit additional
$75 payable to DLNR, etc.

Grove Farm OBS/EXP Well 1 (5825-04)
1) OBS/EXP Well 2 (5826-01)
2) Well 3 (5826-02)
3) Well 4 (5826-03)
April 7, 1994

Mr. Keith W. Ahue, Chairperson  
Commission on Water Resource Management  
Department of Land & Natural Resources  
Division of Water Resources Management  
State of Hawaii  
P.O. Box 621  
Honolulu, Hawaii 96809

ATTENTION:  Ms. Rae M. Loui  
Deputy Director

Dear Mr. Ahue

RE: Application for Well Construction Permit  
Observation/Exploration Wells No. 1, 2, 3 & 4  
Haiku-Mauka, Puhi, Kauai, Hawaii  
TMK: 4th Division, 3-4-01 and 3-4-05:3

We herewith submit the original and two copies of the above subject permit application for your review and approval.

A check for $25.00 is attached for the required filing fee.

The application was prepared for Grove Farm Properties, Inc.

If there are any questions, please call the undersigned.

Very truly yours,

Robert Y. Akinaka  
President

SMQ\RYA:cyk

Attachments

cc:  Mr. Greg Kamm,  
Grove Farm Properties, Inc. w/attachments
TO: Ed Sakoda

FROM: John M. Stubbert *(for)*

DATE: April 21, 1994

SUBJ: PERMIT FOR GROVE FARM EXPLORATION PERMIT

Ed,

Just checking on the status of the Grove Farm Exploration permit, has it been signed?

Please call me at your earliest convenience. Thank you.

/skim
1. APPLICANT: (may be a, b, or c, but all must be filled in)
   (a) LANDOWNER
   Firm/Name: Grove Farm Properties, Inc.
   Contact Person: Greg Kamm
   Ph.: 245-3578
   Address: P.O. Box 9269
   Puuhi, Kauai, HI 96766-7069

   (b) LANDOWNER
   Firm/Name: Grove Farm Company, Incorporated
   Contact Person: David Pratt
   Ph.: 245-3578
   Address: P.O. Box 9269
   Puuhi, Kauai, HI 96766-7069

   (c) CONTRACTOR
   Firm/Name: TO BE DETERMINED
   Contractor's C-57 License No.: _______
   Address: _______

2. WELL LOCATION/NAME: Observation/Exploration Wells 1, 2, 3 & 4
   Island: Kauai (wells-3)
   Address: Haiku Mauka, Puuhi, Kauai
   Tax Map Key: 3-4-01, 3-4-05: __________

   (Attach a USGS map, scale 1"=2000', and a property tax map showing well location referenced to established property boundaries.)

3. (a) PROPOSED WORK:
   □ Drill New Well  □ * Alter Location
   □ Modify Existing Well  □ Refill
   □ Install New Pump  □ Re-Pipe Pump  □ Modify Pump
   * Be sure to complete and submit well abandonment report upon completion of work.

   (b) WELL TYPE:
   □ Dug  □ Bored  □ Driven  □ Orf tidal  □ Radial
   Is this well a part of a battery of wells?  □ Yes  □ No
   (Briefly describe and fill in diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: N/A gallons per minute
   Pump Type:
   □ Deep Well Turbine  □ Rotary
   □ Submersible  □ Rotary-Displacement  □ Reciprocating
   □ Centrifugal  □ Rotary-Gear  □ Impulse
   Motor:
   □ Diesel  □ Gas
   Electric, rated horsepower of _______

5. PROPOSED USE:
   □ Municipal (including hotels, stores, etc.)  □ Military
   □ Domestic (individual, noncommercial water sys.)  □ Industrial
   □ Irrigation (crop)  □ Other (explain)
   State Land Use District:  □ Urban  □ Agriculture  □ Rural  □ Conservation
   County Zoning (describe): __________

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: N/A gallons per day
    (b) METHOD OF FLOW MEASUREMENT:
    □ Flow-meter  □ Open pipe  □ Orifice Plate  □ Weir

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

8. REMARKS, EXPLANATIONS:
   These wells are intended to determine water levels and hydrogeologic information

______________________________  ________________________________
signature  signature
Greg Kamm  David Pratt

Date  Date
4/15/94  4/15/94

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

Longitude

State Well No.
6825-01

5/24/92 WCP
9. PROPOSED WELL SECTION
SEE ATTACHED TYPICAL WELL SECTION - EXHIBIT 1

Elevation at top of casing
____ ft., masl

Ground Elevation: ______ ft., masl*

Cement Grout: ______ ft.

Rock Packing ______ ft.

Hole Diameter: ______ in.

Solid Casing:
Material
Length
Diameter
Wall thickness

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

Total Depth ______ ft.

Open Hole:
Length
Diameter

*Approximate elevation at time of filing application. Ground elevation above mean sea level (masl) 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.
OBSERVATION/EXPLORATION WELL

STANDARD WELL DESIGN
GROVE FARM PROPERTIES, INC

8" TO 12" PILOT BORE
GROUT TO 100'
4" PVC PIPE BLANK CASING
WATER LEVEL
CASING SCREEN 4" PVC
COARSE SAND FILL MATERIAL
PVC END CAP

TYPICAL WELL SECTION

EXHIBIT 1