HONOKAWAI
PROJECT
LOCATION
---
ISLAND OF MAUI

NOT TO SCALE
Mr. Kelly Ford  
Towne Brown LLC  
375 Huku Li‘i, #206  
Kihei, HI 96753

Dear Mr. Ford:

Well Completion Report for Well No. 4226-08

We received your Well Abandonment Report for the Kiyan Well (Well No. 4226-08) on September 9, 2002 and acknowledge that it is complete. This completes the permitting requirements for this well.

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

Sincerely,

LINNEL T. NISHIOKA  
Deputy Director

Cc: Goodfellow Bros., Inc.
facsimile transmittal

To: Charley Iio, DLNR

From: Glenn Hokama 870 2984

Re: Kilohana Subdivision (Mauka)

Charley,

Attached is the Well Abandonment Report for Kilohana Subdivision. I'll be mailing the original. Please call me at 870-2984 if you have any questions.

Thanks

Glenn
Well Abandonment – Well # 4226-08, Well Name: Klyan

Filling the well using a tremie pipe. The former well head/cap is located 8 feet below the finished grade and is located on a corner of a future residential lot. The lot is located in the Kilohana Mauka Subdivision in Kihei on the island of Maui.

Well cap pouring. The cap extended 2.5 feet on the outside of the well casing (all around) and 1.0 feet above the top of the well head.

VEC Project # 0206-436
WELL CONSTRUCTION PERMIT TO ABANDON/SEAL

Kiyan Well, Well No. 4226-08

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the abandonment/sealing of Kiyan Well (Well No. 4226-08) at Kilohana Subdivision, Kihei, Maui, TMK 3-9-4:77, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809, shall be notified in writing before any work covered by this permit commences.

2. The owner or operator of any well which has been determined by the department or voluntarily declared by the owner or operator to be abandoned as defined in §13-168-2, after written notification, shall be required, at owner's or operator's expense, to re-case, cement, plug back, cap, or otherwise repair the well or fill and seal the well with cement in a manner approved by the commission.

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

4. The Well Abandonment Report form (attached) shall be submitted to the Commission on Water Resource Management within sixty (60) days after completion of the work.

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

6. The sealing shall be completed within two (2) years.

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

Date of Approval: June 6, 2002
Expiration Date: None

GILBERT S. COLOMA-AGARAN, Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day.

Permittee's Signature: [Signature]
Date: [Date]
Printed Name: [Name]
Firm or Title: [Company]

Contractor's Signature: [Signature]
License #: [License]
Date: [Date]
Printed Name: [Name]
Firm or Title: [Company]

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

Attachment
USGS
Department of Health/ Safe Drinking Water, Wastewater, and Clean Water Branches
Maui Department of Water Supply
Goodfellow Brothers
LETTER OF TRANSMITTAL

TO: Charley Ice, DLNR
FROM: Jeffrey Kermode
DATE: 8/23/02
RE: Klyan Well Abandonment

Transmitted herewith is (are):

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☐ Per your request ☑ For your review and comment
☐ For necessary action ☐ For your approval/signature
☐ For your information ☐ For your use
☐ Please return ☐ Returning to you

Comments:

Aloha Charley,

Please find attached the following information for the Klyan well abandonment (Well No. 4226-08) located in the future Kilohana subdivision in Kihei, Maui, HI:

- Permit to Abandon/Seal Well.
- Well Abandonment Report with updated site plan and photographs

If you require additional information please call me at 808-249-2777.

Mahalo,

Jeffrey Kermode, Project Manager

1498 Lower Main Street, Suite C Wailuku, Hawaii 96793 (808) 249-2777 Maui Office (808) 249-2778 Fax
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

WELL ABANDONMENT REPORT

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

1. State Well No. 4226-08
   Well Name Klyan
   Kilohana Subdivision, Kihei, Maui TMK 3-9-4:77
2. Location / Address
   Goodfellow Bros. Inc.
3. Contractor
   Name of driller who performed work n/a
4. Type of Rig / Construction
   Pump Truck / Tremie
   Date of well sealing completion 7/11/02

Casing Diameter 12 in
Inner Casing 4"

Finished Grade Elevation 46 ft
i.e. 8.0' below grade

Check Material Used
Grout Seal: ☐ Cement
☐ Sand/Cement Ratio 1/1

Ground Elev. 54'

Measured Depth of Blank Casing n/a ft
Measured Depth of Perforated Casing n/a ft
Measured Depth of Open Hole n/a ft

Total Measured Depth 63 ft
Based on 4" casing removal. Actual depth may be slightly deeper.

Remarks: Well Abandonment - A small portion (20') of the well casing was removed. Possibly the entire 4" diameter inner casing was removed (63' in length). The well casing was pumped with grout using a tremie pipe. A concrete cap measuring approx. 0.75 cu. yds was poured over the well head. The area was backfilled and compacted to the finished grade. The well location is on the corner of a future residential lot. See attachment.

Well Abandonment Contractor (print) Glenn Hokama (Goodfellow)
Lic. No. ABC 7046

Signature ________________________________ Date 9/3/02

Applicant (print) Takeshi Matsukato

Signature ________________________________ Date 9/9/02

WAR Form (2/000)
Filling the well using a tremie pipe. The former well head/cap is located 8 feet below the finished grade and is located on a corner of a future residential lot. The lot is located in the Kilohana Mauka Subdivision in Kihei on the island of Maui.

Well cap pouring. The cap extended 2.5 feet on the outside of the well casing (all around) and 1.0 feet above the top of the well head.
Well No. 4226-08

Well Name: Klyan

Vuich Environmental Consultants, Inc. of Wailuku, Maui, HI., oversaw the well abandonment, completed on 7/11/02. Mr. John Vuich, a registered geologist, and Mr. Jeffrey Kermode (Environmental Scientist) were both involved in the well abandonment process.

Glenn Hokama was the on-site representative for the main contractor, Goodfellow Bros., Inc.

The sand-cement grout was supplied by Ameron Hawaiian. American Standard Pumping of Honolulu supplied the concrete pumping equipment and tremie pipe.

Please find attached a future site plan with the former well location indicated. Also attached are site photographs.
To: COMMISSION ON WATER RESOURCE MNGMT
From: Wendy J. Riley

Date: 08/20/02

Signed permit originals

Comments:

Attached is the signed Well Construction Permit to Abandon/Seal permit originals as per your request.
June 26, 2002

Mr. Kelly Ford
Towne Brown LLC
375 Huku Li'i #206
Kihei, HI 96753

Dear Mr. Ford:

Well Abandonment Permit
Kiyan Well (Well No. 4226-08)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) which authorizes well abandonment/sealing activities. As part of the Chairperson’s approval, the following special conditions were added and are part of your permit under Permit Condition 7:

**Special Conditions**

1. Work must be done by a contractor with a C-57 license.

To validate your permit, please sign and have the contractor sign both permit originals and return one for our files.

**IMPORTANT** - The well owner is responsible for all conditions of the permit. This includes ensuring that your licensed contractor, submits a completed Well Abandonment Report form (enclosed) within sixty (60) days after the well construction work is completed. Be advised that you may be subject to fines of up to $1000 per day for any violations of your permit conditions.

If you have any questions, please call Roy Hardy of the Commission staff at 587-0225 or toll-free at 984-2400, extension 70225.

Aloha,

GILBERT S. COLOMA-AGARAN
Chairperson

Enclosures

c: Goodfellow Brothers
WELL CONSTRUCTION PERMIT TO ABANDON/SEAL

Kiyon Well, Well No. 4226-08

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the abandonment/sealing of Kiyon Well (Well No. 4226-08) at Kilohana Subdivision, Kihei, Maui, TMK 3-9-4:77, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809, shall be notified in writing before any work covered by this permit commences.

2. The owner or operator of any well which has been determined by the department or voluntarily declared by the owner or operator to be abandoned as defined in §13-168-2, after written notification, shall be required, at owner's or operator's expense, to re-case, cement, plug back, cap, or otherwise repair the well or fill and seal the well with cement in a manner approved by the commission.

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

4. The Well Abandonment Report form (attached) shall be submitted to the Commission on Water Resource Management within sixty (60) days after completion of the work.

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

6. The sealing shall be completed within two (2) years.

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

Date of Approval: June 6, 2002
Expiration Date: None

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. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day.

Permittee's Signature: ____________________________ Date: ______________________
Printed Name: ____________________________ Firm or Title: ____________________________

Contractor's Signature: ____________________________ License #: __________ Date: __________
Printed Name: ____________________________ Firm or Title: ____________________________

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

Attachment
C: USGS
Department of Health/ Safe Drinking Water, Wastewater, and Clean Water Branches
Maui Department of Water Supply
Goodfellow Brothers
FROM: CHARLEY  
DATE: 12-Jun-02  
SUSPENSE DATE: 

TO: BAUER, G.  
INIT:  
TO:  
INIT:  
FOR:  

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

PLEASE:

WELL NUMBER 4226-08  
WELL NAME Unknown

☐ WELL CONSTRUCTION  
☐ PUMP INSTALLATION  
☐ BOTH

ATTACHMENTS FOR APPLICATION PROCESSING - Both applicant & staff generated

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

FOLDER:

☐ MADE NEW FILE FOLDER, ATTACHED
☐ FILE FOLDER ALREADY MADE, IN FILE CABINET

INCOMPLETE ACTION DATES:

DATE ACTION

See note - we can issue without review.
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REMARKS:
LINE (1) Well No. 4226-08 (WAP)
LINE (2) 
LINE (3) 
LINE (4) 

GOODFELLOW BROS., INC. — GENERAL CONTRACTOR — 050604
P.O. BOX 598 • PHONE (509) 662-7111 • WENATCHEE, WASHINGTON 98807

DATE: 6/3/02
PAY TO THE ORDER OF Dept of Land and Natural Resources $ 25.00
Twenty-Five dollars and no/100 DOLLARS
FOR: Permit for Well abandonment

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WAILUKU BRANCH
BANK OF HAWAII
WAILUKU, HAWAII

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**LICENSE SCREEN**

[Look up License Type Codes->]

Please click a link listed below to display the other screen.

***** GENERAL LICENSEE *****

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Click here to enter search criteria for prior complaints history ->
For prior complaints and disciplinary history, contact licensing and business information center at (808)587-3295.

<-Back New Search->

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http://www.ehawaiigov.org/serv/pvl?_a=d&_f=n&lictp=CT&licno=7046&off=&nm=GOODEE 6/14/02
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COMMISSION ON WATER RESOURCE MANAGEMENT
State of Hawaii  
COMMISSION ON WATER RESOURCE MANAGEMENT  
Department of Land and Natural Resources  
APPLICATION FOR PERMIT  
Well Construction and/or Pump Installation  

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by 5 copies and a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 808-872-9225. For further information and updates to this application form, visit http://www.state.hi.us/dlnr/wrmw.

APPLICANT INFORMATION: (Fill out all three, if applicable, and place a check next to the primary contact)  
1. (a) WELL OWNER: Towne Brown LLC  
   Contact Person: Kelly Ford  
   Mailing Address: 375 Hoku Li'i #206, Kihei, HI 96753  
   Phone: 808-879-9910  
   Fax: 808-879-9925  
   Email: 

   (b) LAND OWNER: Towne Brown LLC  
   Contact Person: Kelly Ford  
   Mailing Address: 375 Hoku Li'i #206, Kihei, HI 96753  
   Phone: 808-879-9925  
   Fax: 808-879-9925  
   Email: 

   (c) CONTRACTOR: Goodfellow Brothers  
   Contact Person: Sandra Walker  
   Mailing Address: 381 Hoku Li'i Place, Suite 220, Kihei, HI 96753  
   Phone: 808-875-4093  
   Fax: 808-875-4973  
   Email: 

WELL & PUMP INFORMATION: (Please fill in the diagram on the back of this form.)  
2. WELL NAME: Unknown  
   Island: Maui  
   Address:  
   Tax Map Key:  
   3. PROPOSED WORK: (check all that apply)  
   □ Construct New Well  
   □ Modify Existing Well  
   □ Install New Pump*  
   □ Modify Pump*  
   □ Abandon/Seal*  
   *State Well No.:  
   (If unknown, please call Commission at 587-0225)  
   4. CONSTRUCTION: 
   □ Drilled □ Dug □ Shaft □ Tunnel  
   Is this well part of a battery of wells? □ Yes □ No (Please describe)  
   5. PROPOSED PUMPING RATE: None gallons per minute  
   6. PROPOSED USE: (check all that apply)  
   □ Municipal (including hotels, stores, etc.) □ Industrial  
   □ Domestic (individual, noncommercial water system) □ Military  
   □ Irrigation (crop) □ No. of Acres:  
   □ Other (explain):  
   Does this well serve 25 or more people at least 60 days per year or have 15 or more service connections? □ Yes □ No  
   7. (a) PROPOSED AMOUNT OF WITHDRAWAL: None gallons per day  
   (b) METHOD OF FLOW MEASUREMENT:  
   □ Flowmeter □ Open-pipe □ Weir □ Office □ Other (explain)  
   OTHER IMPORTANT INFORMATION:  
   8. LEGAL REQUIREMENTS: If required, these permits must be obtained before the Commission can legally issue a permit.  
   Conservation District Use Permit (CDUP) To find out if a CDUP is necessary, call DLNR Land Division at 587-0414  
   Environmental Impact Statement (EIS) or Environmental Assessment (EA) To determine if an EIS or EA is necessary, call OEQC at 586-4185  
   Special Management Area Permit (SMAP) To determine if an SMAP is necessary: on Oahu, call 527-5374; on Maui, call 961-8288; for Maui county, call 270-7235; on Kauai, call 241-6677.  
   9. REMARKS, EXPLANATIONS:  

OTHER INSTRUCTIONS: (If more space is needed, please attach additional sheet)  

Well Owner: Towne Brown LLC  
Landowner: Towne Brown LLC  
Contractor: Goodfellow Brothers  
Signature:  
Signature:  
Signature:  
Date:  
Date:  
Date:  

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

Takushi Matsuoka  
WHPA Form 821/01
Part 3.

WELL ABANDONMENT/SEALING

Section 3.1 General

All wells and test borings as defined in these Standards must be properly abandoned and permanently sealed to protect the ground-water resources of the State of Hawaii from contamination and waste and to protect public health and safety, whenever:

1. Their purpose has been served, or
2. Their use has been permanently discontinued, and
3. Their physical condition is causing or threatening contamination, deterioration in quality, or waste of ground-water resources, or
4. Their state of disrepair makes their continued use impractical or creates a hazard to public health or safety.

The objective of permanently sealing a well or test boring before abandonment is to restore the geological and hydrological conditions that existed before the well or test boring was constructed, taking into account any changes which may have occurred since the time of construction. (For example, a well which may have originally produced potable water, but which now produces nonpotable water.) The well casing must be removed if such removal is necessary to accomplish the objective. However, if the casing cannot be readily removed, the blank casing above the aquifer must be perforated to allow grouting of the annular space. Permanent sealing of a well shall be accomplished by grouting with a tremie pipe from bottom to top.

Abandonment and permanent sealing of a well requires a permit from the commission. A permit is not required for abandonment/sealing of test borings. All well abandonment and sealing shall be performed by a licensed well driller (with a C-57 license) or general contractor (with a C license). A detailed record of the abandonment and sealing of all wells must be maintained by the well driller or general contractor for future reference and demonstration that the well was properly sealed. A well abandonment/sealing report must be filed with the commission within 60 days after completion of the work.

The commission shall be notified before work on abandonment and sealing begins.

Section 3.2 Responsibility for Abandonment/Sealing

The responsibility and cost for voluntary or involuntary abandonment/sealing of a well rests with the well owner or operator. The owner or operator of a well to be abandoned and sealed shall not commence with the required remedial work until an
application has been made and a well construction permit has been approved by the chairperson.

Within 30 days after completion of the required work, the owner shall file with the commission a well abandonment/sealing report on forms provided by the commission. Information required includes the owner's name and address; the water use permit number, if any; the name and address of the well driller or contractor who performed the work; the reason for abandonment; a complete description of the work performed; and such other information as the commission may require.

Section 3.3 Determination of Abandonment/Sealing

(a) Declaration by Well Owner or Operator

The owner or operator of a well may voluntarily seek abandonment/sealing of a well by first submitting an application for a well construction permit on forms provided by the commission. The application shall include the reason for abandonment and a description of the proposed procedure and work to be performed.

(b) Declaration by Commission

The Commission may declare that a well is abandoned and shall notify the owner or operator that it must be permanently sealed if it finds:

(1) That the well has served its purpose, or
(2) That the use of the well has been permanently discontinued, and
(3) That the well is not being properly maintained, or
(4) That the physical condition of the well is causing a waste of ground water or is impairing or threatens to impair the quality of the ground-water resources, or
(5) That the well is in such a state of disrepair that its continued use is impractical or it is a hazard to public health or safety.

Section 3.4 Grouting Materials for Permanent Sealing

Grouting material acceptable for use to permanently seal wells and test borings is either neat cement or sand-cement.

Sand used for sand-cement grout shall conform to "Masonry Sand", ASTM-C-144 or 100% passing No. 4 sieve and 0 to 10% passing No. 200 sieve. Cement used for neat cement and sand-cement grout shall conform to the requirements of ASTM C150 for Portland Cement, Type I.

(1) Sand-Cement Grout. Sand-cement for grouting shall be mixed at a ratio of not more than one part sand to one part cement, by weight, and not more than six gallons of water per sack of cement.

(2) Neat Cement Grout. Neat cement shall be mixed at a ratio of one 94-pound sack of Portland cement to not more than six gallons of potable water.
Section 3.5 Preliminary Work

(a) Wells in General

Wells which are to be abandoned and permanently sealed shall be investigated by studying existing well records and verifying the physical conditions and as-built dimensions of the well. Such wells shall be sounded with a bailer or other appropriate tool to check and clear the well of any obstructions, undesirable debris or cave-in material, oil from an oil-lubricated pump, or other pollutants which could interfere with a satisfactory well seal. Depending upon the situation, such wells may also be probed with a magnet, video camera, caliper log, or other well tools to determine depths, dimensions, and conditions of the well casing and artesian leakage.

All equipment, loose casing, foreign materials, and obstructions which may interfere with sealing operations must be removed from the well, if possible. Any casing and conductor pipe not removed from the well must be cut off at least two feet below the ground surface and the remaining hole filled with material appropriate to the site or grouted with cement-based material, if in hard rock.

The chairperson shall be notified as soon as possible if pollutants or contaminants are known, discovered, or suspected to be present in the to-be-abandoned and sealed well.

After the well has been properly cleaned and prepared for sealing, the commission shall be notified before sealing operations begin.

(b) Wells in Polluted or Contaminated Areas

(1) Properly Cased Wells. Cased wells constructed with a grouted annular space conforming to these Standards shall be prepared for sealing as provided in Section 3.5(a), "Wells in General."

(2) Improperly Cased Wells. Cased wells constructed without a grouted annular space conforming to these Standards shall be prepared for sealing as provided in Section 3.5(a) and additionally by perforating the ungrouted section of solid casing. The solid casing shall be sufficiently perforated so that the annular space can be sealed with grout and not serve as a path for surface and subsurface source of pollutants and contaminants to move down the well to the aquifer. The perforated solid casing and annular space shall be grouted with neat cement in a manner conforming to these Standards.
grouting begins. The solid casing section shall be sealed with neat cement in one continuous operation from bottom to ground surface using a 1 ¼-inch minimum diameter grout pipe in a manner conforming to these Standards. If an interval of the solid casing section cannot be filled after placement of a reasonable amount of neat cement slurry, sand-cement grout conforming to the standards for permanent sealing may be used to fill such interval before continuing the sealing of the blank casing section with neat cement.

Section 3.8 Special Provisions for Artesian Wells

(a) General

Many artesian wells in Hawaii are old and probably have a deteriorated, leaking casing. Consequently, such artesian wells must be abandoned and permanently sealed if found to be leaking, wasting ground water, or not in use. Artesian wells have the same purpose, objectives, and requirements of the abandonment and sealing of wells in general, but usually require more thorough investigation of the physical condition of the well and any possible artesian flow or leakage in the well before satisfactory grouting can be accomplished to assure that hydrogeologic conditions that existed before the well was constructed are restored, taking into account changes which may have occurred since the time of construction.

(b) Preliminary Work

In addition to the preliminary work required for wells in general and described elsewhere in these Standards, artesian wells to be abandoned must be investigated to determine the occurrence, depths and magnitude of any groundwater leakage from the aquifer upward into overlying strata through well casing which has been perforated by corrosion and whose annular space has not been properly grouted. A video or caliper log of the well may be required in such cases, especially if leakage may interfere with proper sealing of the well. An assessment of well conditions and proposed sealing procedures shall be discussed with the commission staff before sealing operations are started. The assessment may include a survey of water levels in adjacent wells, a video log, or a vertical flow meter log to confirm whether or not an artesian well is leaking.

(c) Sealing Procedures

Before placement of grout to permanently seal an artesian well, any flow or leakage in the well must be stopped or reduced so that the confining strata above the artesian aquifer can be effectively sealed with neat cement or sand-cement grout. (Neat cement tends to run away in a flowing artesian well.) The well driller may propose and use, after consultation with the commission staff, various methods to reduce or stop the artesian flow or leakage, such as the placement of temporary casing.

For example, if the artesian flow is occurring from the open hole section of the well, placement of large rounded cobbles followed by lesser size cobbles and crushed aggregate, or placement of specially formed concrete cylinders may
significantly reduce flow in the well. Packers with grout pipe extending below the packer may also be effective in sealing the open hole section.

Once flow from the artesian aquifer has been stopped or significantly reduced, the solid casing may have to be perforated (see Sec. 3.7.b) before grouting the remaining part of the artesian well with sand-cement slurry. Placing or pumping the sand-cement slurry at a high rate through a minimum of 1½-inch or larger diameter grout pipe may be required to successfully complete the sealing operation, if artesian leakage continues to occur.

If the solid casing is intact and there is no flow in the annular space, the flow inside the casing may be stopped by installing a riser pipe before sealing an artesian well from bottom to top with sand-cement slurry.

Section 3.9 Well Abandonment/Sealing Report

Within 60 days after completion of the required work, the owner or operator of an abandoned well shall file with the commission a well abandonment/sealing report containing the owner's and operator's name and address, the water use permit number, if any, the name and address of the well driller who performed the work, the reason for abandonment/sealing, and a complete description of the work performed.

Section 3.10 Sealing Test Borings (Guidelines)

All test borings after their use has been completed must be abandoned and permanently sealed to protect ground-water resources from potential surface contamination. All obstructions that could interfere with effective sealing operations should be removed. The State Department of Health must be notified as soon as possible if pollutants or contaminants are known or suspected in the test boring.

Test borings should be completely filled with neat cement slurry from bottom to top in a manner that meets the objectives of the well abandonment/sealing section of these Standards.
TO: Mr. Charlie Ice  
State of Hawaii  
Dept. of Land Natural  
Resources  
Commission on Water  
Resource Management  
P.O. Box 621  
Honolulu, HI 96809  

DATE: March 5, 2002  

PROJECT: Kilohana Mauka Subdivision  
Kihei, Maui, Hawaii  

JOB NO.: 99060.00  
TMK (2) 3-9-04: 76, 77 and 78  
LUCA File No. 3.1852  
Planning ID # SM1 2000/0001  

RE: Well abandonment  

TELECOPIER NUMBER: (808) 587-0219  

We are transmitting 6 page(s) including this cover sheet. If they are not received, please call us and we will retransmit them as soon as possible.

Originals to be Mailed: [X] yes  [ ] no

Documents:

1 page - Location map: Island of Maui

1 page - Partial copy of Real Property Tax Map: 
Well site is entirely within TMK (2) 3-9-04: 77

1 page - Project Vicinity Map

2 pages - Survey map w/ enlargement

Remarks:

Charlie,

The attached maps better describe the location of the old irrigation well on our project site that I told you about over the phone. The well is old and no longer in service and will be in the middle of a residential subdivision in a few months time; consequently, we want to abandon the well properly to prevent its becoming a hazard. Please advise us on what procedures need to be followed to abandon this well and whether any special permits that are required.

I can be reached at (808) 249-6903 or at the address above. Thanks for your help!

Yours truly,

Darren Unemori

COPY TO:  Kelly Ford, Towne Realty (Fax: 879-9925)  
Glenn Hokama, Goodfellow Bros. (Fax: 875-4973)
PROJECT VICINITY MAP

SCALE: 1 IN. = 2000 FT.
TOTAL AREA (LOTS 7, 7-A AND 8) = 17.80 ACRES
TOTAL AREA (LOTS 7, 7-A AND 8) PER FIELD SURVEY = 17.80 ACRES

LOT 7, T.M.N.: 2534-84; 75
AREA = 5.70 ACRES

LOT 7-A, T.M.N.: 2534-84; 77
AREA = 3.54 ACRES

LOT 8, T.M.N.: 2534-84; 75
AREA = 5.60 ACRES

ALTA/ACSM LAND TITLE SURVEY OF
TAX MAP KEY (215-8-04): 75, 77 AND 78
LOTS 7, 7-A AND 8 OF SEIKICHI SAKIHARA SUBDIVISION
BEING A PORTION OF CHART OND 70-01 TRUST COMPANY, LIMITED

OWNERS: JUDE E. SPENCER AND JOYCE A. SPENCER
ASSIGNED TO: JUDITH E. SPENCER

SPENCER, JUDE E., JOYCE A.

JULY 11, 2001

MAPPED BY: DONALD C. MCINTOSH, MACGREGOR & JOHNSON, INC.

LEGEND:
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LOT 7-A
T.M.K.: (2)3-9-04 : 77
AREA = 0.010 ACS.

Approximate Location
of Q Drainageway

Ext'g Well

Elev. 148 ft. MSL.

EXT'G WATERLINE
ENCROACHMENT

ENLARGEMENT
Darren:

From what you've sent by fax to identify the location of the Kihei well in question, it looks to me to be on a wellsite parcel 77 within land parcel 78. In any case, there is a well recorded for that site, although it's identified on parcel 78 – not an unreasonable occurrence. There's very little info on it, and I would send the page printed from the database except I don't think it would fax very well, so I'll just repeat what little info there, here:

Well No. 4226-08
drilled in 1951 by Samson Smock
75 feet deep, with 60 feet of 8-inch casing
unused in 1971
original chorides were 1330 mg/l
LOT 7-A
T.M.K.: (2)3-9-04 : 77
AREA = 0.010 ACS.

Approximate Location of C Drainageway

Ext'g Well
Elev. ±48 ft. MSL.

EXT'G WATERLINE ENCOACHMENT

ENLARGEMENT
TO: Mr. Charlie Ice  
State of Hawaii  
Dept. of Land Natural Resources  
Commission on Water Resource Management  
P.O. Box 621  
Honolulu, HI 96809  

DATE: March 5, 2002  
PROJECT: Kilohana Mauka Subdivision  
Kihei, Maui, Hawaii  
JOB NO.: 99060.00  
TMK (2) 3-9-04: 76, 77 and 78  
LUCA File No. 3.1852  
Planning ID # SM1 2000/0001  
RE: Well abandonment  

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Yours truly,

Darren Unemori

COPY TO:  Kelly Ford, Towne Realty (Fax: 879-9925)  
Glenn Hokama, Goodfellow Bros. (Fax: 875-4973)

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