<table>
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<td>5/29/86</td>
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<td>FILE IN:</td>
<td>PHGWC.A - WAIMONI WELL STUDY</td>
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**PLEASE:**
- See Me
- Call
- Review & Comment
- Take Action
- Investigate & Report
- Draft Reply
- Acknowledge Receipt
- Type Draft
- Type Final
- cc: Xerox copies
- File
- Mail

**REMARKS:**
Pictures of Oahu Sugar Co. (abandoned) wells at Waimonii.
Last used Nov. 1970.
Deepest well is 955 feet total depth.

**FOR YOUR:**
- Approval
- Signature
- Information
Reference Points:
- Test Drilling
- Pump

Length of casing
- Ft.

Length of cement joint seal

Well cleared to
- Ft.

Top of rock sand fill

Well Name or Location__________________________ Well Number_____________________
Tax Map Key_________________________
Lessor_________________________
Applicant_________________________
Drilling Contractor_________________________
Date work completed_________________________
WELL ABANDONMENT CROSS-SECTION

Reference Point:

- Top of casing
- Second Surface
- [ ] Other

Length of casing: __________ ft.

Well cleared to __________ ft. depth

Length of cement grout seal

Top of rock, sand fill

Well Name or Location: ___________________________

Well Number: ___________________________

Tax Map Key: ___________________________

Landowner: ___________________________

Applicant: ___________________________

Drilling Contractor: ___________________________

Date work completed: ___________________________
Well Name or Location ____________________________  Well Number ____________

Tax Map Key ______________________________

Lessee: ________________________________

Applicant: ________________________________

Drilling Contractor ________________________________

Date well completed ________________________________
WELL ABANDONMENT CROSS-SECTION

Reference Point:
- Top of casing
- Grout line

Length of casing: ___________ ft.

Well cleared to: ___________ ft. depth

Top of rock sand fill

Length of cement grout seal

Well Name or Location ____________________________ Well Number ____________

Tax Map Key ____________________________

Owner: ____________________________

Applicant: ____________________________

Drilling Contractor: ____________________________

Date work completed ____________________________
<table>
<thead>
<tr>
<th>FROM:</th>
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<tbody>
<tr>
<td>ASARI, Leslie</td>
<td>MIYAMOTO, George</td>
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<tr>
<td>CHING, Albert</td>
<td>MIYAMOTO, Stephen</td>
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<tr>
<td>CHUCK, Robert</td>
<td>MIYASHIRO, George</td>
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<td>FUJII, Takeo</td>
<td>MORIMATSU, Herb</td>
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<td>HAMADA, Doris</td>
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<td>INATSUKA, Charles</td>
<td>NAKAMA, Thomas</td>
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<td>IMADA, Neal</td>
<td>NANBU, Lorraine</td>
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<td>JINNAI, Richard</td>
<td>OHYE, Mitchell</td>
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<td>KANESHIRO, Noboru</td>
<td>SAKAI, Harold</td>
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<td>KASAMOTO, Junji</td>
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<td>KOYANAGI, Bill</td>
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<td>KURASHIGE, Randall</td>
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<td>LUM, Dan</td>
<td>SHIROMA, Yoshiaki</td>
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<td>MATSUMOTO, George</td>
<td>SIAROT, Jean</td>
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<td>MATSUO, Paul</td>
<td>TAGOMORI, MANABU</td>
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<tr>
<td>MENOR, Joseph</td>
<td>YONAMINE, Elsie</td>
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### Honolulu Plantation

**Pump No. 4**

<table>
<thead>
<tr>
<th>Well No. 197</th>
<th>Elevation (ft)</th>
<th>Casing depth (ft)</th>
<th>Casing elevation (ft)</th>
<th>Depth (ft)</th>
<th>Elevation (ft)</th>
<th>Rock Sand depth (ft)</th>
<th>Rock Sand elevation (ft)</th>
<th>Rock Sand (tons)</th>
<th>Rock Sand (yds)</th>
<th>Cement (bags)</th>
<th>Cement elevation (ft)</th>
<th>Date sealed</th>
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<tbody>
<tr>
<td>F</td>
<td>130</td>
<td>-103</td>
<td>492</td>
<td>-43</td>
<td>270</td>
<td>-213</td>
<td>31</td>
<td>200</td>
<td>1374</td>
<td>9880</td>
<td>-1035</td>
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<tr>
<td>G</td>
<td>144</td>
<td>-84</td>
<td>510</td>
<td>-45</td>
<td>240</td>
<td>-192</td>
<td>16</td>
<td>200</td>
<td>1035</td>
<td>9880</td>
<td>-1035</td>
<td>9880</td>
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<tr>
<td>H</td>
<td>116</td>
<td>-60</td>
<td>491</td>
<td>-43</td>
<td>250</td>
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<td>9980</td>
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<td>J</td>
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</tbody>
</table>

All wells are 12" diameter
FROM: Ed
TO: INITIAL:

T. FUJII
D. Lum
E. Sakoda
D. Nakano
J. Menor
M. Ohye
N. Kaneshiro
S. Miyamoto
S. Samuels
W. Koyanagi
D. Hamada
K. Oshiro
M. Tagomori
H. Sakai
H. Morimatsu
J. Sato

DATE: 1/21/86
FILE IN: WAIMUKU WELL SEALING

PLEASE:

See Me
Call
Review & Comment
Take Action
Investigate & Report
Draft Reply
Acknowledge Receipt
Type Draft
Type Final
cc:
Xerox copies
File
Mail

REMARKS:

Pump 4 well "C" was logged by BWS this morning.

Total depth ~ 1020' top or riser

File --
Mail

FOR YOUR:

Casing depth ~ 182', top or riser

Well "C" may be deeper than Well "A" which is supposed to be 955' deep.

Driller is going to backfill "C" unless otherwise notified.
WAIMAKU WELL SEALING

Backfilling or load support.

@ 1045

400' GND + 3' Weight

403

- 25'

370' Top of riser

- Est. 3 yards backfill

#14 @ 1230 6/19/86

Sands channel:

XX/XX/XX/XX (pullout 40' pvc)

XX/XX/XX/XX/XX/XX (pullout 20' pvc)

XX/XX/XX/XX/XX/XX/XX (pullout 20' pvc)

190 XX/XX/XX/XX/XX/XX/XX/XX

20 X

46 left on truck

3:45
WELL "E" (over 4' 19 mango trees) 400' to fill (End GND)
399' free in well (21 ft lengths)
160 sacks cement (8 lengths out -168')

Pulling 4 lengths = 84' = 84'

Pulling 2 lengths out (42')

Pulling 2 lengths out (42')

Well D”

299 sacks

180 sacks

459 sacks
Hole C (in ground)

35' to top of rock sand (from pad)

40 sacks in hole (took 33 tons of rock sand from)
20 in mixer

pull out third line 2 (42') guys

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<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>(pull 2 line 120') (3120)</td>
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<td></td>
<td></td>
<td></td>
<td>140</td>
<td></td>
<td></td>
<td>220</td>
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<tr>
<td></td>
<td></td>
<td>180</td>
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1215 hrs
230 sacks in hole "C"

09/08/86

Cementing "H" (old) 0920
(60 sack in well 11 lengths) at 0920
(20 sack in mixer - 3 lengths)

Mixing 0933

Refer (pull 3 line 120')
Cementing "G" 1300 (276 sacks on site)

40 sacks in hole

HIT HIT
HIT HIT HIT HIT
HIT HIT
HIT HIT HIT HIT HIT HIT
HIT HIT (and the 20) Total 200 sacks

09 Sep 86

Well "H" (old) 0930
DTW = 42.4' from gnd
Depth to cement = 47.2' from gnd

Well "G"
DTW = 42.0' from gnd
DTC = 43.4'
Every two of twelve will mean two on.

1030

1200

12:30

3:00

11:30

3:30

15:30

23:00

1/10th 21, he is 21.

Scarf's weight = 156.

Base 1,800 = 2,300.
15 SEP 86
Cementing #16
Clamsburg #17

508' TD
300' DT rock sand
220 sacks at site

1045 hrs
22 sacks in hole

Brigay

( pull 4 lengths 21' tremie pipe @ 1140 hrs)
( pull 3 lengths 21' tremie @ 1230 )
( pull 3 lengths @ 1300 )

sacks

1330
A - #197 new "closed" penciled in on drawing
B (follows A in sequence) Pencil drawing on yellow note pad paper
C (in sequence) Pencil drawing I-sealed Apr 49
D. Ltr. dated 15 Dec 25
E. Ltr. dated 17 Dec 25
P2 Wall 16

46.4' Depth + cement
30.4' DTW

Elev. "D" at open pit (Well B) 57.37

Ask MOH

D

336' Trench Depth + RIS =
231' Trench
WELL ABANDONMENT PERMIT
for
Pump Station No. 4 Wells
State Well Nos. 2356-34 to 42
Waimalu, Oahu

TO: Messrs. Warren C.S. Akiona and Edward Y.F. Tseu
c/o Community Planning, Inc.
700 Bishop St., Suite 608
Honolulu, Hawaii 96813

In accordance with Chapter 166 of Title 13, "Rules for the Control of Ground Water Use in the State of Hawaii", your application to abandon State Well Nos. 2356-34 to 42 located at Tax Map Key: 9-8-11:5, is approved subject to the following conditions:

1. Each well shall be cleared of obstructions to at least 100 feet below the casing shoe. The open hole shall be backfilled with rock sand to a depth of 100 feet below the casing shoe.

2. The well shall be cement grouted using the tremie method from 100 feet below the casing shoe to ground surface.

3. Data obtained during abandonment shall be submitted for each well on a Well Abandonment Cross-Section form (enclosed).

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

SUSUMU ONO
Chairperson of the Board

Date of Issuance
4/12/86

Enc.
cc: USGS
Dept. of Health,
Drinking Water Program
Honolulu BWS
Roscoe Moss Company
Mr. John McCombs,
Asst. Engineer, Geological Survey,
Honolulu, T. H.

Dear Sir:

We are in receipt of your letter of 15th inst., and note that you and Mr. Livingston made an examination of wells at pump 4 and found one well leaking.

We would like to have you make another test, if convenient, and will gladly make the preparation for same that you suggest.

We note that you could not do much at pump 2 and will now wait for wet weather.

Accept our sincere thanks for your assistance in this work.

Yours truly,

HONOLULU PLANTATION COMPANY

JG:MO

Manager.
Honolulu, T.H., December 15, 1925.

Mr. James Gibb, Manager,
Honolulu Plantation,
Aiea, Oahu.

Dear Mr. Gibb:

Mr. Livingston and I made an examination of wells at your pump 4 with the following results and conclusions:

The well immediately under the open shaft at the pump house is leaking either through a hole in the casing. The tests made do not indicate how far down this leak may be, but it results in filling your pump pit with water when the valve is closed, and in allowing oil and dirt to enter your pump when the well valve is open. As it now stands, the well is of no possible use to you, probably wastes water from your artesian supply, and certainly can act as a source of contamination to your pump water. The pump men tell me the water from this well is brackish, but I could not get a satisfactory sample to verify this.

With the present information the only sure means of ending this condition would be to seal this well completely, from the bottom, and if needed, drill a new well.

If you wish, I can make further tests, to find the exact point of leakage, in which case I may be able to advise you to re-case the well. If these tests are made it will be necessary to remove the well head, put a blind flange on the suction line, and a ten foot length of casing on the top of the valve to stop the surface flow.

I am expecting to receive some new equipment for measuring flow and leakage in wells, and would prefer to wait a few weeks until it arrives. If you want this additional test made—it may save you the cost of a new well—please have Mr. Williams get in touch with me. We will expect you to make the necessary preparations, but the tests will cost you nothing.

With regard to pump 2, I have not been able to do much. It seems necessary to wait for wet weather, when the pumps can be shut down for at least two days.

Very truly yours,

JOHN McCOMBS,
Assistant Engineer.

Copy to Mr. Williams.
Pump 4A or 4B

Ewa Pump
West do.
Coho Sugar Co.
Unit #2

Closed

Honolulu Pump
East do.
Coho Sugar Co. Unit #1

197 new

Pump #4 Waimalu
Honolulu Plantation

Tax key 9-8-6

Oahu
West Pump
Ewa Pump
Oahu Sugar Co. Unit #2

East Pump
Honolulu Pump
Oahu Sugar Co. Unit #1

Pump #4

Honolulu Plantation
Oahu