TRANSMITTAL LETTER

TO: Michael D. Wilson
Chairperson
Commission on Water Resource Management
State of Hawaii
Department of Land and Natural Resources

DATE: July 1, 1996

FROM: Lisa Woods Munger, Esq.

RE: Hawaiian Western Steel Limited

Copies Date Description
1 07/01/96 Fully executed
After-the-Fact Well Construction Permit to Abandon/Seal (Well Nos. 1806-03 & 04)

TRANSMITTED FOR:
[ ] Your Information
[ ] Your Signature and Return
[ ] Your Signature and Forwarding as Noted Below
[ ] Per Our Conversation
[ ] Your Further Necessary Action
[ ] Your Approval
[ ] Your Review and Comment
[ ] SEE REMARKS BELOW

IF YOU HAVE ANY QUESTIONS, PLEASE DO NOT HESITATE TO CALL

REMARKS:

A'::' C'" -...
AFTER-THE-FACT WELL CONSTRUCTION PERMIT TO ABANDON/SEAL

Well Nos. 1806-03 & 04

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 Well Nos. 1806-03 & 04 at Kapolei, Oahu, TMK 9-1-026-010, subject to the following conditions:

1. The Well Abandonment Report form (attached) shall be submitted to the Commission on Water Resource Management within thirty (30) days after completion of the work.
2. The permittee shall comply with all applicable laws, rules, and ordinances.

Date of Approval: 5/9/96
Expiration Date: 5/9/98

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed.

Applicant's Signature: [Signature]
Printed Name: [Printed Name]
Firm or Title: Secretary

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

Attachment
cc: USGS
Department of Health/ Safe Drinking Water & Wastewater Branches
Honolulu Board of Water Supply
Ms. Lisa Woods Munger  
Hawaiian Western Steel  

Dear Ms. Munger:

After-the-Fact Well Construction Permit to Abandon/Seal  
Well Nos. 1806-03 & 04

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s). Please sign the permit copies and return one for our files.

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

Aloha,

[Signature]

MICHAEL D. WILSON  
Chairperson

Enclosures
AFTER-THE-FACT WELL CONSTRUCTION PERMIT TO ABANDON/SEAL

Well Nos. 1806-03 & 04

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 Well Nos. 1806-03 & 04 at Kapolei, Oahu, TMK 9-1-026-010, subject to the following conditions:

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Expiration Date: 5/9/98

Michael D. Wilson, 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.

Applicant's Signature: ___________________________ Date: ______________

Printed Name: ___________________________ Firm or Title: ___________________________

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

Attachment
cc: USGS
    Department of Health/ Safe Drinking Water & Wastewater Branches
    Honolulu Board of Water Supply
March 28, 1996

Mr. Mitchell Ohye
State of Hawaii
Department of Land and Natural Resources
Commission on Water Resource Management

Subject: Water Well Abandonment
Hawaiian Western Steel Facility, Kapolei, Hawaii

Dear Mr. Ohye:

On behalf of The Estate of James Campbell and Hawaiian Western Steel, Levine-Fricke is pleased to submit the attached Well Abandonment Reports, which document the well abandonment activities of two former water wells located at the Hawaiian Western Steel (HWS) facility in Kapolei, Hawaii. The site is located at 91-150 Hanua Street in the Campbell Industrial Park.

BACKGROUND

In February 1996, Levine-Fricke identified two abandoned water wells adjacent to the Rolling Mill building at HWS. These wells formerly provided cooling water to the Rolling Mill between 1959 and 1961, and have not been in use since 1961. One well (No. 1806-3) was located immediately adjacent to the north side of the lunch room building on the west side of the Rolling Mill, and a second well (No. 1806-4) was located in the materials storage area on the west side of the Rolling Mill. The wells consisted of 16-inch diameter casing. Documentation at the Hawaii Department of Land and Natural Resources (DLNR), Commission on Water Resources Management, indicated that Well 1806-3 was approximately 100 feet deep and Well 1806-4 was approximately 50 feet deep (see attached). Our inspection of the wells found Well 1806-3 to be partially silted in to a depth of 65 feet below ground surface (bgs) and Well 1806-4 to be filled with sediment to 30 feet bgs.

WELL ABANDONMENT

Prior to initiation of field activities, Levine-Fricke submitted a DLNR Well Abandonment Permit application on March 4, 1996. The abandonment of the two water wells was performed on March 12 and 13, 1996 by Roscoe Moss Hawaii, Inc. of Kapolei, Hawaii (C-16437), under the oversight of Levine-Fricke. Well abandonment was performed using DLNR-approved procedures, which included backfilling the well casing and borehole with a cement slurry from...
the bottom to surface grade. Specifically, the wells were abandoned in-place with a sand:cement (1:1) grout using the tremie method. The grout was supplied by Hawaiian Cement; approximately 6 cubic yards (cy) were used to backfill Well 1806-3 and approximately 9 cy were placed inside Well 1806-4. We believe the extra volume of cement filled void spaces within the coral rock formation surrounding the wells. DLNR Well Abandonment Reports, which provide well-specific information for both wells, are attached.

We trust this submittal is responsive to your needs. Please do not hesitate to contact me or Jeffrey Morrell at [Contact Information] if you have with any questions or comments.

Sincerely,

Levine-Fricke

Pablo A. McLoud
Project Manager

cc: Susan Sublett - The Estate of James Campbell
    Robert Rzonca - Hawaiian Western Steel, Ltd
    David Andrews, Esq. - McCutchen, Doyle, Brown & Enerson
    Jeryl Olson, Esq. - Seyfarth, Shaw, Fairweather & Geraldson
    A. James Wriston Jr., Esq. - Ashford & Wriston
    Deborah Marsh, P.E. - The Marsh Consulting Group, Ltd
WELL ABANDONMENT REPORT

Instructions: Please print or type and submit completed report within 30 days after sealing completion to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96808. An as-built drawing of the well and chemical analysis should also be submitted. For assistance call the Commission Regulation Branch at 587-0225.

1. STATE WELL NO. 1806-03 WELL NAME Barbers Point ISLAND Oahu (3)
2. LOCATION: Address Hawaiian Western Steel Tax Map Key 9-1-026-010
3. DRILLING OR PUMP INSTALLATION CONTRACTOR Roscoe Moss Hawaii
4. CONTRACTOR'S C-57 LICENSE NUMBER C-16437
5. NAME OF DRILLER WHO PERFORMED WORK Dennis McBreen
6. TYPE OF RIG/CONSTRUCTION Forklift, tremie pipe, and cement truck
7. DATE OF WELL SEALING COMPLETION March 12, 1996
(NOTE: Report must be submitted within 30 days after this date)

Finished Grade Elevation 0.0 ft.
Casing Diameter 16 in.
Check Material Used
Grout Seal: ☐ Cement ☑ Sand/Cement
Sand/Cement Ratio 1:1
Total Measured Depth 100 ft.
Measured Depth Blank Casing 24 ft.
Measured Depth Perforated Casing 48 ft.
Measured Depth to Bottom of Grout 65 ft.
Measured Depth of Sand Fill 100 ft.

Remarks: The former water well 1806-3 was backfilled with a cement slurry grout
(If more space is needed, continue on back.)

Contractor (print) Roscoe Moss Hawaii, Inc.
Signature Dennis W. McBreen
Title MGR-Government Div.
Date 3/12/96

For Driller's Use:
Job Name
Job No.
using the tremie method from the bottom of the well to the ground surface. At the
time of well abandonment, the well had not been in use since 1962 and the well had
silted in to a depth of 65 ft below ground surface. The well was abandoned in-place
by backfilling the casing with cement grout. Approximately 6 cubic yards of grout were
used to backfill to surface grade.
## GROUND WATER DATA CODING SCHEDULE

**Department of Land & Natural Resources, State of Hawaii**

### REFERENCE

<table>
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<tr>
<th>ISL. WELL NO.</th>
<th>NAME OR LOCATION</th>
<th>YR. DRILLED</th>
<th>DRILLER</th>
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<tr>
<td>3 806-03</td>
<td>BARBER'S POINT</td>
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**Oahu:** 1 - Ni'ihau  3 - Oahu  5 - Lanai  7 - Kaho'olawe
**Molokai:** 2 - Kauai  4 - Molokai  6 - Maui  8 - Hawaii

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**INITIAL TEST**

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<th>WATER LEVEL (ft. above msl)</th>
<th>CHLORIDES (mg/l)</th>
<th>RATE (gpm)</th>
<th>DRAWDOWN</th>
<th>CHLORIDES (mg/l)</th>
<th>TEMP</th>
<th>FREQ. OF RECORDED OBSERVATIONS</th>
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**PUMPING TEST (Values at highest sustained rate)**

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<th>RATE (gpm)</th>
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**WATER SUPPLY**

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<th>STATIC HEAD (feet above msl)</th>
<th>MAX. CHLORIDES (mg/l)</th>
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**LOCATION KEYS**

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**PERSON FILING SCHEDULE**

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<td>1806-03</td>
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</table>
1. STATE WELL NO. 1806-03  WELL NAME Barbers Point  ISLAND Oahu (3)
2. LOCATION: Address Hawaiian Western Steel, 91-150 Kaneohe St., Tax Map Key 1-1-026-010
3. DRILLING OR PUMP INSTALLATION CONTRACTOR Roscoe Moss Hawaii
4. CONTRACTOR'S C-57 LICENSE NUMBER C-16437
5. NAME OF DRILLER WHO PERFORMED WORK Dennis McGreen
6. TYPE OF RIG/CONSTRUCTION Forklift, tremie pipe, and cement truck
7. DATE OF WELL SEALING COMPLETION March 12, 1996

(NOTE: Report must be submitted within 30 days after this date)

**Remarks:** The former water well 1806-3 was backfilled with a cement slurry grout. (If more space is needed, continue on back.)

Contractor (print) Roscoe Moss Hawaii, Inc.  Title MGR-Environmental Div.
Signature Dennis W. McGreen  Date 3/1996

For Official Use:  Wall No. 1806-03  Long. 158 06 28  Lat. 21 18 26
Remarks (cont'd): Using the tremie method from the bottom of the well to the ground surface. At the time of well abandonment, a well had not been in use since 1962 and the well had silted in to a depth of 65 ft below ground surface. The well was abandoned in-place by backfilling the casing with cement grout. Approximately 6 cubic yards of grout were used to backfill to surface grade.
STATE WELL NO. 1806-4  
WELL NAME: Barbara Point  
ISLAND: Oahu (3)

2. LOCATION: Address: Hawaiian Western Steel,  Tax Map Key 9-1-026-010

3. DRILLING OR PUMP INSTALLATION CONTRACTOR: Roeice Moss Hawaii

4. CONTRACTOR'S C-57 LICENSE NUMBER: C-16437

5. NAME OF DRILLER WHO PERFORMED WORK: Dennis McSween

6. TYPE OF RIG/CONSTRUCTION: Forklift, tremie pipe, and cement truck

7. DATE OF WELL SEALING COMPLETION: March 13, 1996

(NOTE: Report must be submitted within 30 days after this date)

Finished Grade Elevation: 0.0 ft.

Casing Diameter: 16 in.

Check Material Used:
- Grout Cement: □
- Sand/Cement: X
- Sand/Cement Rate: 1/1

Total Measured Depth: 50 ft.

Measured Depth Blank Casing: 9 ft.

Measured Depth Perforated Casing: None ft.

Measured Depth to Bottom of Grout: 30 ft.

Measured Depth of Sand Fill: 50 ft.

Remarks: The former water well 1806-4 was backfilled with a cement slurry grout using...

Contractor (print): Roeice Moss Hawaii, Inc.

Signature: Dennis W. McSween

Date: 3/13/96

For Official Use:

Well No.: 1806-04

Longitude: 158° 06' 28"

Latitude: 21° 18' 20"

For Order's Use:

Job Name: Job No.
Remarks (cont'd): the tremie method from the bottom of the well to the ground surface. At one time of well abandonment, the well had not been in use since 1972 and the well had silted in to a depth of 30 feet below ground surface. The well was abandoned in-place by by backfilling the casing with cement grout. Approximately 9 cubic yards of grout were used to backfill to surface grade.
TO: Honorable Lawrence Miike, Director
   Department of Health
   Attention: Dennis Tulang, Wastewater Branch
   William Wong, Safe Drinking Water Branch

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

SUBJECT: Well Construction Permit Application to
         Abandon/Seal Well Nos. 1806-03 & 04

Transmitted for your review and comment is a copy of a well construction permit
application to abandon/seal Well Nos. 1806-03 & 04. We have notified the applicant of our
proposed Well and Pump Installation Standards and the provisions therein regarding the
method and materials to be used.

We would appreciate your comments on the captioned application for any conflicts
or inconsistencies with the programs, plans, and objectives specific to your department.
Please respond by returning this cover memo form by April 8, 1996.

If you have any questions, please contact Lenore Nakama at ________________.

RESPONSE: ☑ We have no comments
           ( ) Comments attached

Contact Person: __________________________________ Phone: ________________

Signed: ______________________________________ Date: 4/8/96

Attachment(s)
TO: Honorable Lawrence Miike, Director  
Department of Health  
Attention: Dennis Tulang, Wastewater Branch  
William Wong, Safe Drinking Water Branch

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

SUBJECT: Well Construction Permit Application to Abandon/Seal Well Nos. 1806-03 & 04

Transmitted for your review and comment is a copy of a well construction permit application to abandon/seal Well Nos. 1806-03 & 04. We have notified the applicant of our proposed Well and Pump Installation Standards and the provisions therein regarding the method and materials to be used.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by April 8, 1996.

If you have any questions, please contact Lenore Nakama at

RESPONSE: We have no comments  
Comments attached

Contact Person: Lori N. Kajiwara  
Phone: 

Signed: Lori N. Kajiwara  
Date: 4-15-96
I attached the Well Pump Standards because they did not indicate the method of sealing or materials to be used. However, because our application form does not require that info, the WCA should be considered complete (?) we can just condition approval on adherence to our "unofficial" standards. OK, need to attach copy of application for review.
Ms. Lisa Woods Munger
Hawaiian Western Steel

Dear Ms. Munger:

Well Construction Permit Application to
Abandon/Seal Well Nos. 1806-03 & 04

We accepted your application to abandon/seal Well Nos. 1806-03 & 04 on March 5, 1996 and hereby acknowledge that it is complete. You can expect your application to be processed for action within ninety (90) days from that acceptance date.

We have enclosed the appropriate section from our proposed Well & Pump Installation Standards that discusses the method and materials for well abandonment/sealing. If you would like to propose an alternate method or materials to be used, please submit your proposal to the Commission on Water Resource Management as soon as possible.

If you have any questions, please contact Lenore Nakama at [blank]

Sincerely,

[Signature]
RAE M. LOUI
Deputy Director

LN:ss

Enclosure
TO: Honorable Lawrence Miike, Director  
Department of Health  
Attention: Dennis Tulang, Wastewater Branch  
William Wong, Safe Drinking Water Branch

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

SUBJECT: Well Construction Permit Application to Abandon/Seal Well Nos. 1806-03 & 04

Transmitted for your review and comment is a copy of a well construction permit application to abandon/seal Well Nos. 1806-03 & 04. We have notified the applicant of our proposed Well and Pump Installation Standards and the provisions therein regarding the method and materials to be used.

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by April 8, 1996.

If you have any questions, please contact Lenore Nakama at [Contact Information]

LN:ss  
Attachment(s)

RESPONSE: ( ) We have no comments  
( ) Comments attached

Contact Person: ___________________________ Phone: ___________________________

Signed: ___________________________ Date: ___________________________
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

APPLICATION FOR PERMIT
[ ] Well Construction or [ ] Pump Installation

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by 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 587-0225.

1. APPLICANT: (circle primary contact a, b, or c)
   (a) WELL OWNER
      Firm Name: Hawaiian Western Steel
      Contact Person: Lisa Woods Mugnet
   (b) LANDOWNER
      Firm Name: The Estate of James Campbell
      Contact Person: Susan Sublett
   (c) CONTRACTOR
      Firm Name: Roscoe Moss Hawaii
      Contact Person: Dennis McBreen

2. WELL LOCATION/NAME: Hawaiian Western Steel
   Island: Oahu
   Address: 95-1026-640
   (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
   [ ] Deepen
   [ ] Install New Pump
   [ ] Modify Existing Well
   [ ] Redrill
   [ ] Modify Pump
   [ ] Abandon/Seal

   * Be sure to complete and submit well abandonment report upon completion of work.

   (b) WELL TYPE:
   [ ] Dug
   [ ] Bored
   [ ] Driven
   [ ] Dug/Drilled
   [ ] Drilled
   [ ] Radial

   Is this well a part of a battery of wells? [ ] Yes [ ] No
   (Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: _______ gallons per minute
   Pump Type:
   [ ] Deep Well Turbine
   [ ] Motor:
   [ ] Rotary
   [ ] Gas
   [ ] Submersible
   [ ] Gas
   [ ] Rotary-Displacement
   [ ] Impulse
   [ ] Reciprocating
   [ ] Electric, rated horsepower: _______
   [ ] Centrifugal
   [ ] If Pump Replacement, Existing Pump Capacity: _______ gallons per minute
   [ ] Rotary-Gear
   [ ] Other (explain)

5. PROPOSED USE:
   [ ] Municipal (including hotels, stores, etc.)
   [ ] Military
   [ ] Domestic (individual, non-commercial water sys.)
   [ ] Industrial
   [ ] Irrigation (crop)
   [ ] Other (explain)

6. (a) PROPOSED AMOUNT OF WITHDRAWAL: _______ gallons per day
   (b) METHOD OF FLOW MEASUREMENT:
   [ ] Flow-meter
   [ ] Open-pipe
   [ ] Office Plate
   [ ] Weir

7. PENDING ACTIONS:
   [ ] CDUA
   [ ] SMA
   [ ] EIS
   [ ] EA
   [ ] NONE
   Completion Date:

8. REMARKS, EXPLANATIONS:
The two wells are being abandoned as part of closure activities at the Hawaiian Western Steel plant site. The wells have not been used since 1961, and consist of 16-inch casing to depths of 100' and 50' below ground surface.

I understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 30 days after the completion date of the proposed work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of correlative water rights and shall not guarantee the pump capacity or future use to the permitted pump capacity.

Well Owner: Hawaiian Western Steel
Signature: Roscoe Moss Hawaii
Date: 10/30/86

Landowner: Campbell Estate
Signature:
Date: 10/30/86

Contractor: Roscoe Moss Hawaii
Signature:
Date: 10/30/86

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

State Well No.: MAH-6-72-4

Aquifer System Name: MALAHOE

11/09/86 WCH Form
8. Remarks, Explanations (cont'd): The two wells are registered with the DLNR with
Well Nos. 1806-03 and 1806-04. The wells were sounded on
February 13, 1996, and were found to be partially filled with silt.
Well 1806-3 was silted in to 62' bgs, and Well 1806-04 was silted to 30' bgs.

9. PROPOSED WELL SECTION

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<tr>
<td>Elevation at top of casing</td>
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<td>Cement Grout</td>
<td>UNK ft.</td>
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<td>Rock Packing</td>
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<td>Hole Diameter</td>
<td>16&quot; in.</td>
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<td>Total Depth</td>
<td>100 &amp; 50 ft.</td>
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<td>Ground Elevation</td>
<td>12 ft., msl</td>
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<td>Material</td>
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<td>Diameter</td>
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<td>Wall Thickness</td>
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Well No. 3

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<td>Wall Thickness</td>
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<td>Diameter</td>
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*Approximate elevation at time of filing application. Ground elevation above mean sea level (msl) by a surveyor licensed by the State must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion/well abandonment reports.
Figure 1: SITE VICINITY MAP

MAP SOURCE: U.S.G.S 7.5' Quadrangle, Ewa, Hawaii, 1983

SCALE 1 : 24000

CONTOUR INTERVAL 20 FEET

Hawaiian Western Steel
91-150 Hanua St.
Ewa Beach, Hi

Pacific Ocean

Project No. 3085
Hawaiian Western Steel

LEVINE-FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

3085-01
**GROUND WATER DATA CODING SCHEDULE**

**REFERENCE**

<table>
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<th>WELL NO.</th>
<th>NAME OR LOCATION</th>
<th>YR. DRILLED</th>
<th>DRILLER</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>31806-03 BARBERS POINT</td>
<td>1959 SAMSON-SMACK</td>
<td></td>
</tr>
</tbody>
</table>

**QUADRANGLE MAP**

- Oahu
- Molokai
- Maui
- Kauai
- Lanai
- Mokuolea
- Nihoa

**LATITUDE**

- 062118201

**LONGITUDE**

- 1580628

**HAU WESTERN ST**

**PHYSICAL DATA**

<table>
<thead>
<tr>
<th>CARD 1</th>
<th>9</th>
<th>12</th>
<th>15</th>
<th>18</th>
<th>21</th>
<th>24</th>
<th>27</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE OF CONSTR.</td>
<td>CSG.</td>
<td>GROUND ELEV.</td>
<td>TOTAL DEPTH</td>
<td>DEPTH TO BOT. OF SOLID CSG.</td>
<td>DEPTH TO PERF. CSG.</td>
<td>MAJOR USE</td>
<td>YEAR</td>
<td></td>
</tr>
<tr>
<td>ground</td>
<td>well</td>
<td>above mean sea level</td>
<td>(feet)</td>
<td>(feet)</td>
<td>(feet)</td>
<td>occupied</td>
<td>unoccupied</td>
<td></td>
</tr>
<tr>
<td>rotary</td>
<td>percussion</td>
<td>tunnel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>dug</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**INITIAL TEST**

- PUMPING TEST (Values at highest sustained rate)

<table>
<thead>
<tr>
<th>WATER LEVEL</th>
<th>CHLORIDES</th>
<th>RATE OF DRAWDOWN</th>
<th>CHLORIDES</th>
<th>TEMP. OF WTR.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(feet above mean sea level)</td>
<td>(mg/l)</td>
<td>(feet)</td>
<td>(mg/l)</td>
<td>°C</td>
</tr>
<tr>
<td>90</td>
<td>5</td>
<td>0</td>
<td>100</td>
<td>25</td>
</tr>
</tbody>
</table>

**FREQ. OF RECORDED OBSERVATIONS**

- Annually
- Daily
- Monthly
- Recorder
- Weekly
- Occasional

**WATER SUPPLY**

<table>
<thead>
<tr>
<th>CARD 1</th>
<th>9</th>
<th>14</th>
<th>19</th>
<th>23</th>
<th>27</th>
<th>31</th>
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</thead>
<tbody>
<tr>
<td>PUMP CAPACITY</td>
<td>ANNUAL DRAFT</td>
<td>STATIC HEAD</td>
<td>MAX. CHLORIDES</td>
<td>MIN. CHLORIDES</td>
<td>GEOLOGIC FORMATION</td>
<td></td>
</tr>
<tr>
<td>(ppm)</td>
<td>(mill. gal.)</td>
<td>(feet)</td>
<td>(mg/l)</td>
<td>(mg/l)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>37</td>
<td>29</td>
<td>41</td>
<td>43</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**LOCATION KEYS**

- AQUIFER SYSTEM
- TAX MAP KEY NO.
- ZONE-SEC-PARCEL

*PERSON FILING SCHEDULE*  
*DATE*  
*1806-03*
## Ground Water Data Coding Schedule

**Department of Land & Natural Resources, State of Hawaii**

### Person Filing Schedule

**DATE**

**1806-04**

---

### Reference

<table>
<thead>
<tr>
<th>Card</th>
<th>WELL NO.</th>
<th>NAME OR LOCATION</th>
<th>YR. DRILLED</th>
<th>DRILLER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>31806-04</td>
<td>BARBERS POINT</td>
<td>1959</td>
<td>SAMSON-SMOK</td>
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**Quad Lat Long Owner or User**

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<th>Card</th>
<th>QUAD MAP</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
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<td>06211800</td>
<td>1580628</td>
<td>HAU</td>
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### Physical Data

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<tr>
<th>Card</th>
<th>TYPE OF COAST</th>
<th>CSG. DIA.</th>
<th>GROUND ELEV.</th>
<th>TOTAL DEPTH</th>
<th>DEPTH TO BOT. OF SOLID CSG. (-feet)</th>
<th>DEPTH TO BOT. OF PERF. CSG. (-feet)</th>
<th>MAJOR USE</th>
<th>YEAR</th>
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</thead>
<tbody>
<tr>
<td>30</td>
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</tr>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>dug</td>
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**Initial Test**

<table>
<thead>
<tr>
<th>Card</th>
<th>WATER LEVEL</th>
<th>CHLORIDES</th>
<th>RATE</th>
<th>DRAWDOWN</th>
<th>CHLORIDES</th>
<th>TEMP</th>
<th>FREQ. OF RECORDED OBSERVATIONS</th>
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<tbody>
<tr>
<td>36</td>
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**Location Keys**

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<th>Card</th>
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<th>TAX MAP KEY NO.</th>
<th>ZONE-SEG-PLAT-PARCEL</th>
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**WATER SUPPLY**

<table>
<thead>
<tr>
<th>Card</th>
<th>PUMP CAPACITY</th>
<th>ANNUAL DRAFT</th>
<th>STATIC DRAFT</th>
<th>MAX. CHLORIDES</th>
<th>MIN. CHLORIDES</th>
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<tbody>
<tr>
<td>25</td>
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<td></td>
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</tr>
</tbody>
</table>

---

**GEOLOGIC FORMATION**

- **Formation**
- **Year**
- **Region**
- **Location**

---

**Drilled**

- **Driller**
- **Year**
- **Location**

---

**Depth**

- **To Bottom of Solid CSG**
- **To Bottom of Perfect CSG**

---

**Initial Test**

- **Water Level**
- **Chlorides**
- **Rate**
- **Drawdown**
- **Chlorides**
- **Temp.**

---

**FREQ. OF RECORDED OBSERVATIONS**

- **Annually**
- **Daily**
- **Recorder**
- **Occasional**
- **Weekly**

---

**Water Supply**

- **Pump Capacity**
- **Annual Draft**
- **Static Draft**
- **Max. Chlorides**
- **Min. Chlorides**
<table>
<thead>
<tr>
<th>DOCUMENT NO.</th>
<th>YR</th>
<th>APP</th>
<th>D</th>
<th>SRC/CTR</th>
<th>COST</th>
<th>OBJ</th>
<th>PROJECT</th>
<th>PH</th>
<th>ACT</th>
<th>AMOUNT</th>
<th>NAME/DESCRIPTION (HANG INPUT)</th>
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<td>000</td>
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<td>1026</td>
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<td>0</td>
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<td>0</td>
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<td>(1) $25.00</td>
<td>Pablo McLoud</td>
</tr>
<tr>
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<td>000</td>
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<td>1026</td>
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<td>0</td>
<td>0</td>
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<tr>
<td>TOTAL</td>
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<td>$25.00</td>
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</table>

REMARKS: LINE (1) Well # 1806-03, 04
LINE (2)
LINE (3)
LINE (4)

UNITED STATES POSTAL MONEY ORDER

**25*00

PAY TO: Hawaii Dept. of Land and Natural Resources

ADDRESS: [Redacted]

CO D. NO. OR No. USED FOR: well abandonment permit

NEGOTIABLE ONLY IN THE U.S. AND POSSESSIONS
STATE OF HAWAII
COMMISSION ON WATER RESOURCE MANAGEMENT
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT

REGISTRATION OF WELL AND
DECLARATION OF WATER USE

INSTRUCTIONS: Please type or print. If information is not available or not applicable, indicate as N/A. Fill out as completely as possible, sign, and file form with the Division of Water Resource Management, P.O. Box 373, Honolulu, Hawaii 96809. Phone 548-3048 or 548-7543 for assistance.

BATTERY OF WELLS: For a battery of wells, on the surface, in a tunnel, or in a shaft, submit a registration form for each well together with a single map or plot plan showing layout of wells.

STATE WELL NO.: 1606-03
ISLAND: Oahu
WELL NAME OR DESIGNATION: BARGERY POINT
SOURCE OR STATION NAME (For a battery of wells):

A. WELL OPERATOR
Firm name: HAWAIIAN WESTERN WELLS
Contact person: Gavie A Taba
Address: 2320 Kamehameha Hwy

B. OWNER OF WELL SITE
Contact person: Same

C. WELL LOCATION
Tax Map Key: 01-05-01-0024-0010
Town, Place, District: Campbell Industrial Park, Ewa
Attach USGS "Quad" map (scale 1:24,000), tax map, or other map showing the well location.

D. WELL DATA
Well is capped & has not been used since 1959.
For Drilled Wells, submit "as-built" drawing, driller's log, and pump test results, and complete items below.
For Tunnels and Shafts, submit construction drawings, plot plan, or sketch map.
Ground elevation (mean sea level): ___________ ft.
Reference point (Used to measure depth to water):
Elevation: ___________
Description: ___________
Depth to water (Below reference point): ___________ ft.
Maximum recorded chloride: ___________ ppm
Minimum recorded chloride: ___________ ppm
Maximum chloride in 1987: ___________ ppm

E. INSTALLED PUMP DATA
Pump type: [ ] Vertical shaft [ ] Submersible [ ] Centrifugal [ ] Other (specify): ___________
Power: [ ] Diesel, ____ HP [ ] Gas, ____ HP [ ] Electric, ____ HP [ ] Other (specify): ___________
Pump capacity: ___________ gallons per minute
Pump installation contractor: ___________

For Official Use Only:
Date received: ______ Date accepted: ______
Field checked by: ______ Date: ______
Latitude: ______ Long. ______ Hydrologic Unit: ______
State Well No.: ______

References: Hawaii Revised Statutes, Chapter 174C
Hawaii Administrative Rules, Chapters 13-167 to 13-171.
F. DECLARATION OF WATER USE

NOTE: The purpose of the Declaration of Water Use is to obtain information necessary for the management of the State’s water resources. The Declaration does not confer a legal right to water or its use.

Water use data are recorded: □ Daily □ Weekly □ Monthly □ Other (Describe): ____________________

Method of measurement: □ Flow Meter □ Orifice □ Other (Describe): ____________________

Quantity of Use (Report metered or estimated monthly water use from the well described on the reverse side of this form, for the calendar years 1983 through 1987. For a battery of wells which are not individually metered, but which are connected to a single meter or other measuring device, report total use from the battery):

Not used WATER USE, IN GALLONS x 1000

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>February</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>March</td>
<td></td>
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<tr>
<td>April</td>
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<td>May</td>
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<td>June</td>
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<td>July</td>
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<td>August</td>
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<td>September</td>
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<td>December</td>
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</tr>
<tr>
<td>ANNUAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Minimum day’s use: ____________________ gallons  Maximum day’s use: ____________________ gallons

Typical times of usage: ____________________

Type of Use (Check all category boxes that apply and provide additional information as indicated):  

<table>
<thead>
<tr>
<th>Category</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Municipal (including resorts, hotels, businesses)</td>
<td>Number of service connections: ____________________</td>
</tr>
<tr>
<td>□ Domestic (systems serving 25 people or less)</td>
<td>Acres Irrigated:</td>
</tr>
<tr>
<td>□ Irrigation</td>
<td>Crop(s): □ Sugar □ Pineapple □ Other (specify): ____________________</td>
</tr>
<tr>
<td></td>
<td>Non-Crop: □ Landscape □ Other (specify): ____________________</td>
</tr>
<tr>
<td></td>
<td>Method: □ Drip □ Furrow □ Sprinkler</td>
</tr>
<tr>
<td>□ Industrial</td>
<td>□ Cooling □ Manufacturing □ Mill</td>
</tr>
<tr>
<td>□ Military</td>
<td>□ Other (specify): ____________________</td>
</tr>
<tr>
<td>□ Other</td>
<td>Specify (livestock, aquaculture, etc.): ____________________</td>
</tr>
</tbody>
</table>

I declare that the contents of the above Declaration of Water Use are, to the best of my knowledge and belief, true, correct, and complete.

Water User’s Signature: Gayle A. Tabb  Date: 2/20/89
Printed Name: Gayle A. Tabb  Firm or Title (Well Operator, etc.): Comptroller
STATE OF HAWAII
COMMISSION ON WATER RESOURCE MANAGEMENT
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT

REGISTRATION OF WELL AND DECLARATION OF WATER USE

INSTRUCTIONS: Please type or print. If information is not available or not applicable, indicate as N/A. Fill out as completely as possible, sign, and file form with the Division of Water Resource Management, P.O. Box 574, Honolulu, Hawaii 96809. Phone 548-5648 or 548-7543 for assistance.

BATTERY OF WELLS: For a battery of wells, on the surface, in a tunnel, or in a shaft, submit a registration form for each well together with a single map or plot plan showing layout of wells.

STATE WELL NO.: 1606-04
ISLAND: Oahu

WELL NAME OR DESIGNATION: PARADISE POINT

SOURCE OR STATION NAME (For a battery of wells):

A. WELL OPERATOR
Firm name: Hawaiian Western Steel
Contact person: Gayle A Tabo
Address: [Redacted]

B. OWNER OF WELL SITE
Firm name: [Redacted]
Contact person: [Redacted]
Address: [Redacted]

C. WELL LOCATION
Tax Map Key: 01-09-01-0026-201B Town, Place, District: Campbell Industrial Park, Ewa
Attach USGS "Quad" map (scale 1:24,000), tax map, or other map showing the well location.

D. WELL DATA
Well is capped & has not been used since 1959
For Drilled Wells, submit "as-built" drawing, driller's log, and pump test results, and complete items below.
For Tunnels and Shafts, submit construction drawings, plot plan, or sketch map.

Ground elevation (Mean sea level): [Redacted] ft.
Reference point (Used to measure depth to water): [Redacted] ft.
Elevation: [Redacted] ft.
Description: [Redacted]

Depth to water (below reference point): [Redacted] ft.
Maximum recorded chloride: [Redacted] ppm
Minimum recorded chloride: [Redacted] ppm
Maximum chloride in 1987: [Redacted] ppm

E. INSTALLED PUMP DATA
Pump type: [Redacted]
Power: [Redacted]
Pump capacity: [Redacted] gallons per minute
Pump installation contractor: [Redacted]

... (continued over)

For Official Use Only:
Date received: [Redacted] Date accepted: [Redacted]
Field checked by: [Redacted] Date: [Redacted]
Latitude: [Redacted] Longitude: [Redacted]
Hydrologic Unit: [Redacted]
State Well No.: 1606-04

References: Hawaii Revised Statutes, Chapter 174C.
Hawaii Administrative Rules, Chapters 13-167 to 13-171.
NOTE: The purpose of the Declaration of Water Use is to obtain information necessary for the management of the State's water resources. The Declaration does not confer a legal right to water or its use.

Water use data are recorded:  
☐ Daily  ☐ Weekly  ☐ Monthly
☐ Other (describe): 

Method of measurement:  
☐ Flow Meter  ☐ Orifice
☐ Other (describe): 

Quantity of Use (Report metered or estimated monthly water use from the well described on the reverse side of this form, for the calendar years 1983 through 1987. For a battery of wells which are not individually metered, but which are connected to a single meter or other measuring device, report total use from the battery.):

Not used  WATER USE, IN GALLONS x 1000

<table>
<thead>
<tr>
<th>Year</th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>August</th>
<th>September</th>
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<th>November</th>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Minimum day's use: ___________ gallons  Maximum day's use: ___________ gallons

Typical times of usage: __________________________ 

Type of Use (Check all category boxes that apply and provide additional information as indicated.):

☐ Municipal (including resorts, hotels, businesses)
☐ Domestic (systems serving 25 people or less)
☐ Irrigation
☐ Industrial
☐ Military
☐ Other

Additional Information
Number of service connections: __________________________
Acres Irrigated:
Crop(s): ☐ Sugar  ☐ Pineapple
☐ Other (specify):
Non-Crop: ☐ Landscape  ☐ Golf Course
☐ Other (specify):
Method: ☐ Drip  ☐ Furrow  ☐ Sprinkler
☐ Cooling  ☐ Manufacturing  ☐ Mill
☐ Other (specify): __________________________
Specify (livestock, aquaculture, etc.): __________________________

I declare that the contents of the above Declaration of Water Use are, to the best of my knowledge and belief, true, correct, and complete.

Water User's Signature: Gayle A. John  Date: 2/20/89
Printed Name: Gayle A. John
Firm or Title (Well Operator, etc.): Comptroller
Date 7/11/1959

MISCELLANEOUS FIELD NOTES

Geological Field Notes 271-1

1806-03-04

To Marwell Damming-Development

1806-04

271-DA Water level 11.5' below ground surface

Well 271-DA Water level 11.5' below ground surface

No. of sheets 20-08178-0

U.S. Government Printing Office
December 7, 1979

Hawaiian Western Steel Limited

Attention: Mr. Guy Hogue

Gentlemen:

This is to acknowledge receipt of the Declaration of Existing Water Withdrawal and Use forms that you submitted for your two wells. Since the wells have not been used during the past 5 years, they do not qualify as existing uses. Therefore, if you plan to use them in the future, you must apply for a Permit to Withdraw Water for Beneficial Use from the Department of Land and Natural Resources.

Thank you for your cooperation.

Very truly yours,

ROBERT T. CHUCK
Manager-Chief Engineer

ES:ey
DEPARTMENT OF LAND AND NATURAL RESOURCES

DECLARATION OF EXISTING WATER WITHDRAWAL AND USE

Pearl Harbor Ground Water Control Area

Instructions: This form must be properly completed, signed, and submitted for each individual well or connected battery of wells on or before January 2, 1980, in accordance with Regulation 9 of the Department. Submit the form with any attachments to Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.

1. WATER USER: Name: HAWAIIAN WESTERN STEEL LIMITED

2. WATER USER'S WELL OR CONNECTED BATTERY OF WELLS:

User's Well Name and Location: SAME

Pump or natural flow capacity (gpm): 1000

Capacity determined by flowmeter, nameplate, orifice, etc. (specify): Pump Size: 5-1/2

Year pump inst./modified: 1959

3. BENEFICIAL USE OF WATER:

(a) Major Use: ☐ Municipal ☐ Agriculture ☐ Military ☐ Industrial (cooling water)

(b) Minor Uses: ☐ Domestic ☐ Other (specify) (specify)

(c) For Agriculture Use list crop(s), total acreage irrigated, and attach map showing acreage irrigated by the well source.

4. BENEFICIALLY USED WATER WITHDRAWALS:

(a) All figures given in (b) are records of: ☐ Metered flow ☐ Nameplate pump capacity ☐ Orifice ☐ Weir ☐ Other (specify)

(b) Records available (in million gallons per day, three decimal places):

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(c) For Agriculture Use only: description of withdrawal schedule (include times of day and days of week):

5. WELL DESCRIPTION:

On the attached computer list of wells, make corrections or additions thereon in red pencil as necessary and return with Declaration form. If information is readily available in another form, you may submit it in lieu of a corrected computer list.

Declaration: Under penalties provided in Regulation 9 of the Department of Land and Natural Resources, the undersigned declare and certify that this declaration has been examined, including accompanying statements and to the best of knowledge and belief, it is true, correct, and complete.

Signature: ____________________________

Date: __________

For Official Use:

Last day to certify: 5/12/80

Date Certified: __________

Amount certified: _______________________

WELL NO.: 1806-04
State of Hawaii
Department of Land and Natural Resources

DECLARATION OF EXISTING WATER WITHDRAWAL AND USE
Pearl Harbor Ground Water Control Area

Instructions: This form must be properly completed, signed, and submitted for each individual well or connected battery of wells on or before January 2, 1980, in accordance with Regulation 9 of the Department. Submit the form with any attachments to Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.

1. WATER USER: Name HAWAIIAN WESTERN STEEL LIMITED Mailing address

2. WATER USER'S WELL CONNECTED BATTERY OF WELLS:
User's Well Name and Location SAME TMK 9-1-26-10

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<th>Capacity determined by flowmeter, nameplate, orifice, etc. (specify)</th>
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3. BENEFICIAL USE OF WATER:
(a) Major Use:  

(b) Minor Uses:  

(c) For Agriculture Use list crop(s), total acreage irrigated, and attach map showing acreage irrigated by the well source.

4. BENEFICIALLY USED WATER WITHDRAWALS:
(a) All figures given in (b) are records of:  

(b) Records available (in million gallons per day, three decimal places):

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Declaration: Under penalties provided in Regulation 9 of the Department of Land and Natural Resources, the undersigned declare and certify that this declaration has been examined, including accompanying statements and to the best of knowledge and belief it is true, correct, and complete.

Signature:  

Date:  

For Official Use:
Last day to certify 5/10/80
Date Certified  
Amount certified  
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