TO: U.S. Air Force
15 ABW/DEEV
Hickam AFB, Hawaii 96853

In accordance with Chapter 166 of Title 13, "Rules for the Control of Ground Water Use in the State of Hawaii", your application to drill two monitor wells at the Waikakalaua Fuel Storage Annex, Tax Map Key: 9-4-12:10, is approved subject to the following conditions:

1. The wells shall be used for monitoring and testing only.
2. Driller's Well Completion Reports (enclosed) and as-built sections of the wells shall be submitted to the Division of Water and Land Development, P.O. Box 373, Honolulu, Hawaii 96809, within 60 days after completion of the wells.
3. Periodic reports on the monitoring operations shall be submitted to the Division.
4. The applicant shall comply with all applicable laws, rules, and ordinances.
5. This permit may be revoked if work is not started within six months of date of issuance or if work is suspended or abandoned for six months.
6. Upon completion of monitoring operations, the applicant shall obtain a Well Modification Permit and seal the wells with cement grout in a manner approved by the Department.
Waikakalaua Fuel Storage Annex Monitor Wells
Waikakalaua Fuel Storage Annex Monitor Wells
**DRILLER'S REPORT**

**DESCRIPTION**

Date of report: May 5, 1988  
Person filing report: Jeff Peterson  
WELL: MW-6  

**A. OWNER** U.S. Air Force  
**NAME** POL MW-7  
**LOCATION** Waikalala, Fuel Storage Annex  
**DRILLING COMPANY** PR Drilling  
**DRILLING RIG** Mobil B-80  
**CI-**  
**ELEVATION, msl** Top of drilling platform: 688.694 ft.  
**GROUND SURFACE** Height of drilling platform above ground surface: 0.0 ft. elevation.  
**F. HOLE SIZE**  
**G. CASING INSTALLED** 4 in. I.D. x 0.024 in. wall solid section to 140 ft. below drilling platform.  
**H. ANNULUS** Grouted 100 ft. to 137.0 ft. below drilling platform.  
**I. PERMANENT PUMP INSTALLATION**  
- Pump type, make, serial no.: **NONE**  
- Motor type, H.P., voltage, r.p.m.:  
- Depth of pump intake setting: ft. below ground surface. Which elevation is ft.  
- Depth of bottom of airline: ft. below ground surface. Which elevation is ft.  

**HYDROLOGY**  
**J. INITIAL WATER LEVEL** ft. below drilling platform. Date of measurement.  
**K. INITIAL CHLORIDE** ppm, total depth of well ft. below drilling platform. Date of measurement.  

**L. PUMPING TESTS**  
<table>
<thead>
<tr>
<th>Date</th>
<th>Start water level</th>
<th>ft. below R.P.</th>
<th>Rate Drawn Down (gpm)</th>
<th>Temp. °F</th>
<th>Drawn Down (ft.)</th>
<th>Cl. (ppm)</th>
<th>Elapsed Time (hours)</th>
<th>Rate Drawn Down (gpm)</th>
<th>Temp. °F</th>
<th>Drawn Down (ft.)</th>
<th>Cl. (ppm)</th>
<th>Elapsed Time (hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**M. DRILLER'S LOG**

<table>
<thead>
<tr>
<th>Depth, ft.</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level</th>
<th>Depth, ft.</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0 to 0.8</td>
<td>Pinkish Gray Gravely Sand</td>
<td>-</td>
<td>0.0 to 20.0</td>
<td>Various shades of dark</td>
<td>-</td>
</tr>
<tr>
<td>0.8 to 56.6</td>
<td>Various color shades of</td>
<td>-</td>
<td>to</td>
<td>reddish brown clayey</td>
<td>-</td>
</tr>
<tr>
<td>56.6 to 105.0</td>
<td>Various color shades of</td>
<td>-</td>
<td>to</td>
<td>silty</td>
<td>-</td>
</tr>
<tr>
<td>105.0 to 155.0</td>
<td>Olive gray silt (saprolite)</td>
<td>-</td>
<td>to</td>
<td>reddish brown silt (saprolite)</td>
<td>-</td>
</tr>
<tr>
<td>to</td>
<td>Olive Gray Basalt</td>
<td>-</td>
<td>to</td>
<td>Dark Gray Basalt</td>
<td>-</td>
</tr>
<tr>
<td>to</td>
<td>to</td>
<td>Lat. 21 27 26</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>to</td>
<td>to</td>
<td>Long. 158 02 15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>to</td>
<td>to</td>
<td>Well No. 270301</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**N. REMARKS**  
No ground water encountered in either boring.

**INSTRUCTIONS**  
Send three (3) copies to: Manager-Chief Engineer, Division of Water and Land Development, P. O. Box 373, Honolulu, Hawaii 96809.  
**REFERENCES**  

**FOR DRILLER'S USE**

**FOR OFFICIAL USE**

**Date** 9:10 AM  
Job Name:  
Job No.:  

**State of Hawaii**  
**DEPARTMENT OF LAND & NATURAL RESOURCES**  
**DIVISION OF WATER AND LAND DEVELOPMENT**  

**DRILLER'S REPORT**

**FOR DRILLER'S USE**

**FOR OFFICIAL USE**

**Date** 9:10 AM  
Job Name:  
Job No.:  

**Latitude** 21° 27' 26"  
**Longitude** 158° 02' 11"  
**Well No.** 270301
Waikakalaua Fuel Storage Annex Monitor Wells