### Drilling Log

**Date:** 11-9-76  
**Job No.:** J-76  
**Hole No.:** 2714-03  
**Elevation:** ______ ft.  

**Customer:** Dep of Land and Water  
**Location:** Volcano Well

<table>
<thead>
<tr>
<th>Driller</th>
<th>9 Hrs.</th>
<th>Rig</th>
<th>Gas</th>
<th>Oil</th>
<th>Repairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Johnny Oka</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Helper</th>
<th>9 Hrs.</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Edward Hogan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Bit-Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing-Size</th>
<th>in., Length in hole</th>
<th>ft.</th>
<th>in., Amt. Perforated</th>
<th>ft.</th>
<th>in.</th>
</tr>
</thead>
<tbody>
<tr>
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<table>
<thead>
<tr>
<th>Depth Start</th>
<th>ft., Depth Stop</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ft., Feet Drilled</td>
</tr>
<tr>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Water Levels, Time</th>
<th>M</th>
<th>ft., Time</th>
<th>M</th>
<th>ft.</th>
<th>Measurements</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

**Comments:**

- Hooked rig down and secured all tools.

**Signed:** Johnny Oka  
**Date:** 11-9-76
Date 11-8 1976  Job No. 1-76  Hole No.  Location Volcano Well

Customer  Dept of Land and Water  

Driller  Johnny Oak  9 Hrs.  
Helper  Edward Hogan  9 Hrs.  

Bit-Size  1 2  
Casing-Size 12 3/4 in., Length in hole  6 ft.  

Depth Start  ft., Depth Stop  245 ft., Feet Drilled  

Water Levels, Time  11:00 AM  2:25 PM, Time  M ft.  

Remarks: Dept to jet right, waited for state people, 

Signed  Johnny Oak  Date 11-8  1976
## Drilling Log

**Date:** 11-5-1976  
**Job No.:** J-26  
**Hole No.:** J-26  
**Elevation:** ft.  
**Location:** Volcano Well

**Driller:** Johnny Oka  
**Hrs.:** 9  
**Rig:**  
**Helper:** Edward Hogan  
**Hrs.:** 9  
**Gas:**  
**Oil:**  
**Repairs:**

**Arv. Job:** 7 AM  
**Lv. Job:** 4 PM  
**Hrs.:** 9  
**Or. No.:**

**Bit-Size:** 12”  
**Type:** S-569  
**Casing-Size:** 1 3/4 in.  
**Length in hole:** 6 ft.  
**Amt. Perforated:** ft. in.  
**Depth Start:** 24.5 ft.  
**Depth Stop:**  
**Feet Drilled:**

**Water Levels, Time:** Jan. 23 25 ft.  
**Time:** M  
**ft.**

### Depth

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
</table>

**Measurements**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
</tr>
</thead>
</table>

**Remarks:** Wait for communication as to time and date of inspection. Drive to well and rebuild bits.

**Signed:** Johnny Oka  
**Date:** 11-5-1976
DRILLING LOG

Date: 11-3-76  
Job No.: 1-26  
Hole No.:  
Elevation: ft.  
Customer: Dept. of Land and Water
Location: Volcano Well

Driller: Johnny O.  
4 Hrs.  
Rig:  

Helper: Edward Hayes  
4 Hrs.  
Gas:  
Oil:  
Repairs:  

Arv. Job: 7 A.M.  
Lw. Job: 10 A.M.  
4 Hrs.  
Or. No.:  

Bit-Size: 1.2"  
Type: SDP  

Casing-Size: 12.34 in.  
Length in hole: 6 ft.  
Amt. Perforated: ft. in.  

Depth Start: 241 ft.  
Depth Stop: 245 ft.  
Feet Drilled:  

Measurements:

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>241</td>
<td>Cinder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>245</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


Remarks: Drilled 4 ft. Hole that was down to 245. Cannot conduct state inspection.

Signed: Johnny O.  
Date: 11-3-76
**DRILLING LOG**

**Customer:** Dept. Land and Water  
**Location:** Upland Well

**Driller:** Johnny Johnson  
**Helper:** Edward Johnson

**Date:** 11-2-76  
**Job No.:** J-76  
**Hole No.:**  
**Elevation:** ft.

- **Rig:**
- **Gas:**
- **Oil:**
- **Repairs:**
- **Arv. Job:** 7 Am, **Lv. Job:** 4 P.M.

**Bit Size:** 12"  
**Type:**

**Casing Size:** 12 1/2"  
**In., Length in hole:** 6 ft.  
**In., Amt. Perforated:**  
**Depth Start:** 238 ft.  
**Depth Stop:** 241 ft.  
**Feet Drilled:**

**Water Levels, Time:** M 225 ft., **Time:** M  
**Measurements:**

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>238 ft.</td>
<td>Hard sand rock</td>
<td>241 ft.</td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:** Drilling going slow, rock very hard.

**Signed:** Johnny Johnson  
**Date:** 11-2-76
## Drilling Log

**Company:** Ruscoe Moss Company

**Address:** 830 Ahua Street, Honolulu, Hawaii 96819

**Telephone:** (808) 833-6888, 833-1444

---

**Date:** 1-1-1976  
**Job No.:** J-76  
**Hole No.:**  
**Elevation:** ft.  

**Customer:** Dept. of Land and Water  
**Location:** Volcano Well  

**Driller:** Johnson Jake  
**9 Hrs.**  
**Rig:**  

**Helper:** Edward Hayes  
**9 Hrs.**  
**Gas:**  
**Oil:**  

**Helper:**  
**Hrs.**  
**Repairs:**  

**Arv. Job:** 7 AM  
**Lv. Job:** 4 PM  
**9 Hrs.**  
**Or. No.:**

**Bit-Size:** 12”  
**Type:** Star  

**Casing-Size:** 1-3/4 in., Length in hole: 6 ft.  
**in., Amt. Perforated:** ft.  
**in.**  

**Depth Start:** 236 ft.  
**Depth Stop:** 239 ft.  
**Feet Drilled:**

**Water Levels, Time:** 7 AM 285 ft., Time: M ft.  

---

### Depth  
**Formation:** Hard gray rock  
**Remarks:**

---

**Measurements**

<table>
<thead>
<tr>
<th>Depth</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>236</td>
<td></td>
<td></td>
</tr>
<tr>
<td>228</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:** Drilling good, slow rock, very hard.  
Obtain suggestion on 11-1-76.

**Signed:** Johnny Oake  
**Date:** 11-1-1976
Date: 10-29 1976  Job No.: 1-76  Hole No.: __________  Elevation __________ ft.
Customer: Dept. of Land and Water  Location: Volcano Well

Driller: Johnny Oake  9 Hrs.  Rig: __________
Helper: Edward Hagen  9 Hrs.  Gas: __________  Oil: __________
Helper: __________  Hrs.  Repairs: __________

Bit-Size: __________  Type: __________

Casing-Size: __________ in., Length in hole __________ ft. __________ in., Amt. Perforated __________ ft. __________ in.

Depth Start: __________ ft., Depth Stop: __________ ft., Feet Drilled: __________
Water Levels, Time: __________ M __________ ft., Time: __________ M __________ ft.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>235 ft.</td>
<td>Very Hard Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>236 ft.</td>
<td>Grey in color</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Drilled all day and worked on bit

Signed: Johnny Oake  Date: 10-29 1976
Date: 10-28 1976  Job No.: 1-76  Hole No.: 7-76  Elevation: 96819
Customer: DEPT OF LAND and WATER
Location: VOLCAND WELL

Driller: Johnny Jace  9 Hrs.  Rig: 
Helper: Edward J. Hoge  9 Hrs.  Gas: 
Helper:                      Hrs.  Oil: 
Arv. Job: 9 AM  Lv. Job: 4 PM  9 Hrs.  Repairs: 

Bit-Size: 12"  Type: Styp
Depth Start: 233 ft.  Depth Stop: 235 ft.  Feet Drilled: 
Water Levels: Time: 7 PM 205 ft.  Time: M  ft.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Measurements</th>
</tr>
</thead>
<tbody>
<tr>
<td>233</td>
<td>Basalt &amp; igneous</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Drilled all day.

Signed: Johnny Jace  Date: 10-28 1976
Date: 10-27 1976
Job No.: 1-76
Hole No.: Elevation: ft.
Customer: Dept. of Land and Water
Location: Volcano Well

Driller: Johnny Cole 9 Hrs.
Helper: Edward Hoog 9 Hrs.
Helper: 9 Hrs.
Arv. Job: 7 AM 9 Hrs.
Lv. Job: 4 PM

Bit Size: 12
Type: Star

Depth Start: 233 ft., Depth Stop: 233 ft., Feet Drilled:


Depth 233
Formation Hardpoy rock

Remarks: Drilled all day - line to work only at night

Signed: Johnny Cole Date: 10-27 1976
Date 10-26-76  Job No. 1-76  Hole No.  Elevation ft
Customer  Deep of Land and Water
Location  Honolulu, Hawaii

Driller  Johnny Doe  9 Hrs.  Rig
Helper  Edward Hogan  9 Hrs.  Gas  Oil


Bit-Size  1 2"  Type  Star
Casing-Size  2 3/4"  in., Length in hole  6 ft.  in., Amt. Perforated  ft.  in.
Depth Start  228 ft., Depth Stop 230 ft., Feet Drilled
Water Levels, Time  7:45 AM  205 ft., Time  M

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>228</td>
<td>Very hard gray</td>
<td></td>
<td></td>
</tr>
<tr>
<td>230</td>
<td>2 1/4&quot;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Fishing half day and drilling half day.

Signed  Johnny Doe  Date 10-26-76
# Drilling Log

**RUSCOE MOSS COMPANY**

830 Ahua Street * Honolulu, Hawaii 96819

Telephone (808) 859-5688 • 633-1444

---

**Date:** 3-25-76  
**Job No.:** 1-26  
**Hole No.:**  
**Elevation:** ft.  
**Location:**  
**Well:**  

<table>
<thead>
<tr>
<th>Customer</th>
<th>Dept. of Land and Water</th>
<th>Rig</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<table>
<thead>
<tr>
<th>Driller</th>
<th>Days Job</th>
<th>Hrs.</th>
<th>Gas</th>
<th>Oil</th>
<th>Repairs</th>
<th>Or. No.</th>
</tr>
</thead>
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<table>
<thead>
<tr>
<th>Helper</th>
<th>Days Job</th>
<th>Hrs.</th>
<th>Gas</th>
<th>Oil</th>
<th>Repairs</th>
<th>Or. No.</th>
</tr>
</thead>
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<tr>
<th>Bit-Size</th>
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<tr>
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<td>GD</td>
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<thead>
<tr>
<th>Casing-Size</th>
<th>In., Length in hole</th>
<th>In., Amt. Perforated</th>
<th>Ft. in.</th>
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<tbody>
<tr>
<td>2 3/4</td>
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<thead>
<tr>
<th>Water Levels</th>
<th>Time</th>
<th>Depth Start</th>
<th>Time</th>
<th>Depth Stop</th>
</tr>
</thead>
<tbody>
<tr>
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<table>
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<tr>
<th>Measurements</th>
<th>A</th>
<th>B</th>
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<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
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</thead>
<tbody>
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</tbody>
</table>

**Remarks:**  
Hooked up fishing tools and picked up track and stem.

**Signed:** Joby Juke  
**Date:** 10-25-76
Date: 10-22 1976

Customer: Deputy Land and Water
Location: Wai'anae Well

Driller: C. A. Ahn
Helper: E. D. Hogan

Rig: 
Gas: 
Oil: 

Repairs: 

Arv. Job: 7AM
Lv. Job: 4PM

8 Hrs.

9 Hrs.

Bit-Size: 12"
Type: Star

Casing-Size: 12 3/4 in.
Length in hole: 6 ft.

Amt. Perforated: 3 ft.
in.

Depth Start: 225 ft.

Depth Stop: 228 ft.

Feet Drilled: 

Water Levels, Time: M ft., Time: M ft.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>225</td>
<td>Hard gray sand</td>
<td></td>
<td></td>
</tr>
<tr>
<td>228</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Drilled half way- lost tools! Am went to search for fishing tools

Signed: Johnny John 
Date: 10-22 1976
Date: 10-21-76  
Job No: 1-76  
Hole No:  
Elevation: ft.

Customer:  
Driller:  
Helper:  
Arv. Job:  
Lv. Job:  
Hrs.:  
Rig:  
Gas:  
Oil:  
Repairs:  
Or. No:  

Bit-Size:  
Type:  
Casing-Size:  
in., Length in hole:  
ft.  
in., Amt. Perforated:  
ft.  
in.  

Depth Start:  
Depth Stop:  
Feet Drilled:  

Water Levels, Time:  

Measurements:

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>225</td>
<td>Very hard grey,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>225</td>
<td>nore,</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Continued drilling and tools seem to be holding good.

Signed:  
Job:  
Date: 10-21-76  
1976
<table>
<thead>
<tr>
<th>Date</th>
<th>10-16 1976</th>
<th>Job No.</th>
<th>1-76</th>
<th>Hole No.</th>
<th>Elevation</th>
<th>ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer</td>
<td>Deep Clean Water</td>
<td>Location</td>
<td>Volcano Well</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Driller</td>
<td>Gay Lee Cash</td>
<td>9 Hrs.</td>
<td>Rig</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Helper</td>
<td>EDWARD HOGAN</td>
<td>9 Hrs.</td>
<td>Gas</td>
<td>Oil</td>
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<table>
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<tr>
<th>Bit-Size</th>
<th>12”</th>
<th>Type</th>
<th>5227</th>
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<tbody>
<tr>
<td>Casing-Size</td>
<td>12 3/4”</td>
<td>in., Length in hole</td>
<td>6 ft. in., Amt. Perforated</td>
</tr>
<tr>
<td>Depth Start</td>
<td>225 ft.</td>
<td>Depth Stop</td>
<td>275 ft.</td>
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<td>Water Levels</td>
<td>Time</td>
<td>7:42 M</td>
<td>205 ft., Time</td>
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<th>Measurements</th>
<th>A</th>
<th>B</th>
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<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Tap</th>
</tr>
</thead>
</table>

Remarks: Still drilling on hole.

Signed: Gay Lee Cash Date: 10/16/1976
<table>
<thead>
<tr>
<th>Date</th>
<th>10-15 1976</th>
<th>Job No.</th>
<th>76</th>
<th>Location</th>
<th>Waianae Well</th>
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<tbody>
<tr>
<td>Driller</td>
<td>John Lee</td>
<td></td>
<td>9</td>
<td>Hrs. Rig</td>
<td></td>
</tr>
<tr>
<td>Helper</td>
<td>Pete Reyes</td>
<td></td>
<td>9</td>
<td>Hrs. Gas</td>
<td></td>
</tr>
<tr>
<td>Helper</td>
<td></td>
<td></td>
<td>9</td>
<td>Hrs. Repairs</td>
<td></td>
</tr>
<tr>
<td>Arv. Job</td>
<td>7-14</td>
<td>Lv. Job</td>
<td>4-18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bit-Size</td>
<td>12 in.</td>
<td>Type</td>
<td>Star</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depth Start</td>
<td>220 ft.</td>
<td>Depth Stop</td>
<td></td>
<td>Feet Drilled</td>
<td></td>
</tr>
<tr>
<td>Water Levels, Time</td>
<td>7.05 M</td>
<td>205 ft., Time</td>
<td>6 M</td>
<td>ft.</td>
<td>Measurements</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
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</tr>
</tbody>
</table>

Remarks: pedestal hole and continued coring.

Signed: John Sue Date 10-15 1976
# Drilling Log

**Date:** 11-14-76  
**Job No.:** 1-76  
**Hole No.:** 1-76  
**Elevation:** ft.  

### Customer Information
- **Name:**  
- **Address:**  
- **City:**  
- **State:**  
- **Zip:**  
- **Telephone:**  

### Drilling Details
- **Driller:**  
- **Helper:**  
- **Arrv. Job:** 7AM  
- **Lv. Job:** 4PM  
- **Hrs.:**  
- **Rig:**  
- **Gas:**  
- **Oil:**  
- **Repairs:**  
- **Location:**  
- **Volume:**  
- **Well:**  

### Hole Details
- **Bit-Size:** 12"  
- **Type:**  
- **Casing-Size:**  
- **Depth Start:** 220 ft.  
- **Depth Stop:**  
- **Feet Drilled:**  
- **Water Levels, Time:** 7AM 208 ft.  
- **Time:** M ft.  

### Depth Table

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

### Comments

- Drilled 2 ft. but hole still wants to go off.

### Signature

**Signed:** John Moss  
**Date:** 10-4 1976
Date 10-13-76  Job No. 126  Hole No.  Elevation ft.
Customer City and Water  Location John A. Wells
Driller  Seligman  7 Hrs.  Rig
Helper  Paupeley  9 Hrs.  Gas
Helper  9 Hrs.  Oil
Bit-Size  Type Stan
Casing-Size  3 1/4 in., Length in hole ft. in., Amt. Perforated ft. in.
Depth Start 220 ft., Depth Stop  ft., Feet Drilled
Water Levels, Time AM 203 ft., Time PM  ft.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
</table>

Measurements

Depth  Formation  Remarks  Top

Remarks: Drilled for steel, possibly future hole.

Signed Delilah Chess  Date 10-13-76
DRILLING LOG

Date: 10-12-76  Job No. 1-76  Hole No.  Elevation  ft.
Customer: Peplow Land and Water  Location: Wailea Well

Driller: John Oka  9 Hrs.  Rig
Helper: Ken Goring  9 Hrs.  Gas
Helper:  Hrs.  Repairs

Bit-Size:  12"  Type:  Star
Depth Start:  220 ft., Depth Stop:  62 ft., Feet Drilled:  
Water Levels, Time:  M  ft., Time:  M  ft.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Remarks: Continued boring on hole

Signed: Del Mar Otani  Date: 10-12-76
## DRILLING LOG

### Customer
**DIF. OF LAND AND WATER**
Location: **VOLCAND WEL**

### Driller
**JOHNN OAKS**
45 Hrs.

### Helper
**KIM DONALDSON**
45 Hrs.

### Arv. Job
7 AM

### Lv. Job
4 PM

### Job
9 Hrs.

### Basic Information
- **Date:** 10-7 1976
- **Job No.:** 1-76
- **Hole No.:** 1-76
- **Elevation:** ft.

### Drilling Details
- **Bit-Size:** 7"
- **Type:** STAR
- **Casing-Size:** in., Length in hole: 6 ft., in., Amt. Perforated: ft., in.
- **Depth Start:** 220 ft.
- **Depth Stop:** ft.
- **Feet Drilled:**

### Water Levels, Time
- **Time:** M ft., Time: M ft.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
</table>

### Measurements

### Remarks
Bad hole from 208 to 220 noted on hole roll and stuck. Still have 3 ft of bad hole. Hole was off 1 3/4 in line over 3 4 off.

### Signed
**Jeff C**
Date: **10-9 1976**
Date: 10-2-1976  Job No.: 1-76  Hole No.:  

Customer: Dad of Land and Water  Location: Volcano Well  

Driller: Sunny Cars  S8 Hrs.  Rig:  
Helper: Ken Delany  S0 Hrs.  Gas: Oil  
Helper:  Hrs.  Repairs:  

Bit Size: 1/2"  Type: ST4N  

Casing Size: 12 3/4 in.  Length in hole: 6 ft.  in.  Amt. Perforated:  

Depth Start: 210 ft.  Depth Stop: 217 ft.  Feet Drilled:  

Water Levels, Time: M ft., Time: M ft.  

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>31%</td>
<td>Hard Gray Rock</td>
<td></td>
<td>5 1/2 5 1/2 6 1/2 5</td>
</tr>
</tbody>
</table>

Remarks:  

Signed: Johnny Date  Date: 10-2-1976
**Date:** 9-25-1976  
**Job No.:** 1-76  
**Hole No.:**  
**Elevation:** ft.  
**Customer:** DEPT. OF LAND AND WATER  
**Location:** VOLCANA WELL  
**Driller:** JERRY OAKS  
**Helper:** KIRI VONAGEL  
**Arv. Job:** 7 AM  
**Lv. Job:** 4PM  
**Rig:**  
**Helper:**  
**Hrs.:**  
**Gas:**  
**Oil:**  
**Repairs:**  
**Or. No.:**  
**Bit-Size:**  
**Type:** STAR  
**Casing-Size:** 12  
**Length in hole:** 6 ft.  
**In., Amt. Perforated:** ft. in.  
**Depth Start:** 160 ft.  
**Depth Stop:** 210 ft.  
**Feet Drilled:** 60  
**Water Levels, Time:** M ft., Time:** M ft.  

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
<th>Measurements</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td>MEASUREMENT AT 40 FT.</td>
<td>5 4</td>
<td>5 4 5 8</td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td>5 4</td>
<td>5 4 5 8</td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td>5 4</td>
<td>5 4 5 8</td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td>5 4</td>
<td>5 4 5 8</td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td>5 4</td>
<td>5 4 5 8</td>
</tr>
<tr>
<td>19</td>
<td></td>
<td></td>
<td>5 4</td>
<td>5 4 5 8</td>
</tr>
<tr>
<td>19</td>
<td></td>
<td></td>
<td>5 4</td>
<td>5 4 5 8</td>
</tr>
<tr>
<td>21</td>
<td></td>
<td></td>
<td>5 4</td>
<td>5 4 5 8</td>
</tr>
</tbody>
</table>

**Remarks:**  
**Working 9 hours each day**  

**Remarks:**  
**Hole is in good shape and Miller shows perfect closure. Have very small seepage at 153 ft. and is not even enough to drill with.**  

**Signed:** John Ecke  
**Date:** 9-25-1976
### DRILLING LOG

**Company:** RUSCOE MOSS COMPANY  
**Address:** 830 Ahua Street • Honolulu, Hawaii 96819  
**Telephone:** (808) 839-6888 • 833-1444

---

**Date:** 9/18/76  
**Job No.:** 1-26  
**Hole No.:** 1-26  
**Elevation:**  

**Customer:**[redacted]  
**Location:** Volcano well

**Driller:** Ken Sanchez  
**Helper:** John Oate  
**Arv. Job:** 7:00 AM  
**Lv. Job:** 4:00 PM  
**9 Hrs.**  
**Rig:**  
**Gas:**  
**Oil:**  
**Repairs:**  
**Or. No.:**

| Bit-Size | 12 |
| Casing-Size | 12 3/4 in. |
| Length in hole | 16 ft. |
| Amt. Perforated | In. |
| Depth Start | 145 ft. |
| Depth Stop | 150 ft. |
| Feet Drilled | 5 |

**Water Levels, Time:**

| M | ft. |
| Time | M |

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Measurements</th>
</tr>
</thead>
<tbody>
<tr>
<td>145</td>
<td>Hard Gray Rock</td>
<td></td>
<td>5'0 5'8</td>
</tr>
<tr>
<td>146</td>
<td>Very Hard Gray Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>149</td>
<td>Red Rock</td>
<td>Soft &amp; muddy</td>
<td>5'0 5'8</td>
</tr>
<tr>
<td>150</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:**

---

**Signed:** Kenneth J. Sanchez  
**Date:** 9/18/76  
**1976**
### Drilling Log

**Customer:** Lift of Sand for Water  
**Location:** Valkendwell

<table>
<thead>
<tr>
<th>Field</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>9/17/76</td>
</tr>
<tr>
<td>Job No.</td>
<td>1-26</td>
</tr>
<tr>
<td>Hole No.</td>
<td></td>
</tr>
<tr>
<td>Customer</td>
<td></td>
</tr>
<tr>
<td>Driller</td>
<td>Ken Sandlie</td>
</tr>
<tr>
<td>Helper</td>
<td>John Sandlie</td>
</tr>
<tr>
<td>Rig</td>
<td></td>
</tr>
<tr>
<td>Gas</td>
<td></td>
</tr>
<tr>
<td>Oil</td>
<td></td>
</tr>
<tr>
<td>Helper Hrs.</td>
<td>9</td>
</tr>
<tr>
<td>Repair Hrs.</td>
<td></td>
</tr>
<tr>
<td>Arv. Job Time</td>
<td>7:00 AM</td>
</tr>
<tr>
<td>Liv. Job Time</td>
<td>4:00 PM</td>
</tr>
<tr>
<td>Hrs.</td>
<td>9</td>
</tr>
<tr>
<td>Driller Hrs.</td>
<td></td>
</tr>
<tr>
<td>Helper Hrs.</td>
<td></td>
</tr>
<tr>
<td>Bit Size</td>
<td>1/2</td>
</tr>
<tr>
<td>Type</td>
<td></td>
</tr>
<tr>
<td>Casing-Size</td>
<td>12-1/4 in.</td>
</tr>
<tr>
<td>Length in hole</td>
<td>6 ft.</td>
</tr>
<tr>
<td>Amt. Perforated</td>
<td></td>
</tr>
<tr>
<td>Depth Start</td>
<td>135 ft.</td>
</tr>
<tr>
<td>Depth Stop</td>
<td>145 ft.</td>
</tr>
<tr>
<td>Feet Drilled</td>
<td>10</td>
</tr>
<tr>
<td>Water Levels</td>
<td></td>
</tr>
<tr>
<td>Remarks</td>
<td></td>
</tr>
<tr>
<td>Measurements</td>
<td></td>
</tr>
<tr>
<td>Depth</td>
<td>135 ft.</td>
</tr>
<tr>
<td>Remarks</td>
<td>Ben Rock</td>
</tr>
<tr>
<td>Measurements</td>
<td>5/8</td>
</tr>
<tr>
<td>Depth</td>
<td>138 ft.</td>
</tr>
<tr>
<td>Remarks</td>
<td></td>
</tr>
<tr>
<td>Measurements</td>
<td></td>
</tr>
<tr>
<td>Depth</td>
<td>140 ft.</td>
</tr>
<tr>
<td>Remarks</td>
<td>Jag Rock</td>
</tr>
<tr>
<td>Measurements</td>
<td></td>
</tr>
<tr>
<td>Remarks</td>
<td>Hard Jag Rock</td>
</tr>
<tr>
<td>Measurements</td>
<td>5/8</td>
</tr>
<tr>
<td>Remarks</td>
<td></td>
</tr>
<tr>
<td>Measurements</td>
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<td>Measurements</td>
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</tr>
<tr>
<td>Remarks</td>
<td></td>
</tr>
<tr>
<td>Measurements</td>
<td></td>
</tr>
</tbody>
</table>

**Signed:** Kenneth J. Sandlie  
**Date:** 9/17/76
**DRILLING LOG**

830 AHUA STREET * HONOLULU, HAWAII 96819
TELEPHONE (808) 839-6688 * 833-1444

<table>
<thead>
<tr>
<th>Date</th>
<th>9/16/76</th>
<th>Job No.</th>
<th>1-76</th>
<th>Hole No.</th>
<th>Elevation</th>
<th>ft.</th>
</tr>
</thead>
</table>

**Customer:** Out of Land & Water  
**Location:** Volcano Well

**Driller:** Ken Sandies 9 Hrs.  
**Helper:** Joel R. 9 Hrs.  
**Arv. Job:** 2:00 AM  
**L. Job:** 4:00 PM  
**Or. Hrs.:** 9 Hrs.

- **Rig:**  
- **Gas:**  
- **Oil:**
- **Reps.:** 
- **Or. No.:**

**Bit-Size:** 12  
**Type:** LL2

**Casing-Size:** 12 3/4 in.  
**Length in hole:** 60 ft.  
**In., Amt. Perforated:**  
**Feet Drilled:** 10

**Depth Start:** 12 5/8 ft.  
**Depth Stop:** 13 5/8 ft.

**Water Levels, Time:** M ft., Time M ft.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formotion</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 5/8</td>
<td>Bin Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13 5/8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Measurements**

**Remarks:** _____________________________________

**Signed:** Kenneth J. Sandies  
**Date:** 9/16/76  
**Year:** 1976
Date: 9/15/1976  
Job No.: 1-76  
Hole No.: ______  
Elevation: ______ ft.

Customer: Rift of Jade and Water  
Location: Volcano well

Driller: Ken Sandine  
Hrs.: 8  
Rig: ______

Helper: Talmadge  
Hrs.: 9  
Gas: ______  
Oil: ______

Helper: ______  
Hrs.: ______  
Repairs: ______

Arv. Job: 7:00 AM  
Lv. Job: 4:00 PM  
9 Hrs.  
Or. No.: ______

Bit-Size: 12  
Type: Star  

In., Amt. Perforated: ______ ft. ______ in.

Depth Start: 115 ft., Depth Stop: 125 ft., Feet Drilled: 10


<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>115</td>
<td>Grey Rock</td>
<td>Hard Grey Rock</td>
<td>5 8</td>
</tr>
<tr>
<td>119</td>
<td>Grey Rock</td>
<td></td>
<td>5 8</td>
</tr>
<tr>
<td>125</td>
<td>Grey Rock</td>
<td></td>
<td>5 8</td>
</tr>
</tbody>
</table>

Remarks: First Rike Rock

Signed: Kenneth F. Sanders  
Date: 9/15/1976

Drilling Log

RUSCOE MOSS
COMPANY

830 AHUA STREET • HONOLULU, HAWAII 96819
TELEPHONE (808) 838-6888 • 833-1444
Date: 9/14/1976  
Job No.: 1-76  
Hole No.: Hole 1  
Elevation: 30 ft.  
Customer: City of Pearl City

Driller: Ken Sanders  
Helper: John Doe  
Arv. Job: 7/29/76  
Lv. Job: 4:00 PM  
9 Hrs.

Rig:  
Gas:  
Oil:  
Repairs:  
Or. No.:  

Bit-Size:  
Casing-Size: 12 3/4 in.  
Type:  
Length in hole: 60 ft.  
Amt. Perforated: 50 ft.

Depth Start: 105 ft.  
Depth Stop: 115 ft.  
Feet Drilled: 10  

Water Levels, Time: A M  
Top:  

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
<th>Measurements</th>
</tr>
</thead>
<tbody>
<tr>
<td>105</td>
<td>Ben Rock</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>114</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>125</td>
<td>Clay Rock</td>
<td>Hard Clay,root</td>
<td>5 5/8</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

Signed: Kenneth J. Sanders  
Date: 9/14/1976
Date: 9/13/76  
Job No.: 1-76  
Hole No.:  
Elevation:  

Customer:  

Driller: K. J. Sanders  
Hrs.: 9  
Rig:  
Helper: J. Cats  
Hrs.: 9  
Gas:  
Oil:  
Helper:  
Hrs.:  
Repairs:  
Arv. Job: 7:00 AM  
Lv. Job: 4:00 PM  
Hrs.: 9  
Or. No.:  

Bit-Size: 12  
Type: Star  

Casing-Size: 12  
in., Length in hole: 6  
ft.  
Amt. Perforated:  
ft.  

Depth Start: 95  
ft.  
Depth Stop: 105  
ft.  
Feet Drilled: 10  

Water Levels, Time:  
M  
ft., Time:  
M  
ft.  

Depth  
Formation  
Remarks  
Top  

95  

Ben Rock with  

105  

Hard clay strata  


A  
B  


Signed: K. J. Sanders  
Date: 9/13/76
### DRILLING LOG

<table>
<thead>
<tr>
<th>Date</th>
<th>9/10/76</th>
<th>Job No.</th>
<th>1-76</th>
<th>Hole No.</th>
<th>Elevation</th>
<th>ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer</td>
<td>Elk of Land &amp; Water</td>
<td>Location</td>
<td>Volcano well</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Driller</td>
<td>Ken Sanders</td>
<td>9 Hrs.</td>
<td>Rig</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Helper</td>
<td>Ken Rossby</td>
<td>9 Hrs.</td>
<td>Gas</td>
<td>Oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Helper</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arv. Job</td>
<td>7:00 AM</td>
<td>Lv. Job</td>
<td>4:00 PM</td>
<td>9 Hrs.</td>
<td>Or. No.</td>
<td></td>
</tr>
</tbody>
</table>

| Bit-Size | 1 1/2 | Type | 5 1/2 |
| Casing-Size | 12 3/4 in. | Length in hole | 60 ft. | Amt. Perforated | 5 ft. in. |
| Depth Start | 85 ft. | Depth Stop | 95 ft. | Feet Drilled | 10 |
| Water Levels, Time | M | ft. | Time | M | ft. |

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>85/95</td>
<td>Oil Sand, Brown Rock</td>
<td>with gasshells</td>
<td>5 5/8</td>
</tr>
</tbody>
</table>

**Remarks:**

**Signed:** Ken Sanders  
**Date:** 6/10/76

---

**Note:** The image contains a table with various drilling data entries, including dates, job numbers, hole numbers, elevations, times, and measurements. The table also includes remarks and signatures for verification.
**DRILLING LOG**

Date: 9/19/1976  
Job No.: 1-76  
Hole No.:  
Elevation: ft.  

**Customer:**  
Left of job and water  
Location: Volcano well  

**Driller:** Ken Sandlin  
9 Hrs.  
Rig:  

**Helper:** Ken Carly  
9 Hrs.  
Gas: Oil:  

Hrs.  
Repairs:  

Arv. Job: 2:00 AM  
Job 9:00 PM  
9 Hrs.  
Or. No.:  

**Bit-Size:** 19 in.  
Type: Stw.  

**Casing-Size:** 19 3/4 in., Length in hole: 6 ft. in., Amt. Perforated: ft. in.  

**Depth Start:** 55 ft.  
**Depth Stop:** 85 ft.  
**Feet Drilled:** 0  

**Water Levels, Time:** M ft., Time: M ft.  

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
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</tbody>
</table>

**Remarks:** Went to Sam’s location for water truck went back to seeing load water tank after removing boom poles. Went and took up rig for water meter went to Dad’s tank of water. Took pipe off at well went to rig and rushed tank. Man was colder this time out. Went for water. Drilled 1 hr 15 min.  

**Signed:** Ken Sandlin  
**Date:** 9/19/1976  
**(One of these days!)**
Date: 7/8/76  
Job No: 1-76  
Hole No:  
Elevation: ft.  

Customer:  
Driller: Ken Sanders  
9 Hrs.  
Helper: Ken Scantly  
9 Hrs.  
Helper:  
9 Hrs.  
Arv. Job: 8:00AM  
Lv. Job: 4:00PM  
9 Hrs.  

Rig:  
Gas:  
Oil:  
Repairs:  
Or. No.:  

Bit Size:  
Type:  

Casing Size:  
in., Length in hole:  
6 ft.  
Am. Perforated:  
ft.  
in.  

Depth Start: 85 ft.  
Depth Stop: 85 ft.  
Feet Drilled: 10  

Water Levels, Time:  
M ft., Time:  
M ft.  

Remarks:  

Depth | Formation | Remarks | Top A | Top B  
--- | --- | --- | --- | ---  
75 |  | guy strikes 3 in. to 12 to 14 5 6 5 7  
85 |  | 2 hard guy strikes in thick.  

Signed: Ken Sanders  
Date: 7/8/76  

Drilling Log | 830 Ahua Street • Honolulu, Hawaii 96819  
Telephone (808) 839-6888 • 833-1444  

Notes:
**Drilling Log**

**Customer:** Left of Goods Water  
**Location:** Volcano Well

<table>
<thead>
<tr>
<th>Date</th>
<th>Job No.</th>
<th>Hole No.</th>
<th>Elevation</th>
<th>Ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/7/26</td>
<td>J-26</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Driller:** Ken Sandlin  
**Helper:** Ken Dearth

**Rig:** Gas  
**Oil:**

**Hrs.**  
**Driller:** 9  
**Helper:** 9

**Arv. Job:** 7:00 AM  
**Lv. Job:** 4:00 PM  
**Time: 9 Hrs.**

**Bit-Size:** 12"  
**Type:** Star

**Casing-Size:** 12  
**Length in hole:** 60 ft.  
**In., Amt. Perforated:** 10 ft.  
**In.**

**Depth Start:** 65 ft.  
**Depth Stop:** 75 ft.  
**Feet Drilled:** 10 ft.  
**Water Levels, Time:**

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formotion</th>
<th>Remarks</th>
<th>Measurements</th>
</tr>
</thead>
<tbody>
<tr>
<td>65 ft.</td>
<td>Hard Gray Rock</td>
<td></td>
<td>5% 5%</td>
</tr>
<tr>
<td>72 ft.</td>
<td>Redish Brown Rock</td>
<td></td>
<td>5% 5%</td>
</tr>
<tr>
<td>75 ft.</td>
<td>M. Hard</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:**

**Signed:** Ken Sandlin  
**Date:** 9/7/1926
Date: 7/6/1976  
Job No.: 1-76  
Hole No.:  
Elevation: ft.  

Customer:  
Driller: Ken Launde  
9 Hrs.  
Rig:  

Helper: Rosalg  
9 Hrs.  
Gas: Oil:  

Helper:  
Hrs.  
Repairs:  

Arv. Job: 7:00AM  
Lv. Job: 8:00AM  
9 Hrs.  
Or. No.:  

Bit-Size: 12  
Type: Star  

Casing-Size: 12  
3/4 in.  
Length in hole: 60 ft.  
Amnt. Perforated:  

Depth Start: 56 ft.  
Depth Stop: 65 ft.  
Feet Drilled: 9  

Water Levels, Time: M ft., Time: M ft.  

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
<th>Measurements</th>
</tr>
</thead>
<tbody>
<tr>
<td>56</td>
<td>Fracture</td>
<td>Ground off high side.</td>
<td>56</td>
<td>5</td>
</tr>
<tr>
<td>65</td>
<td>Hard Gray Rock</td>
<td>High side joy Rock</td>
<td>65</td>
<td>5</td>
</tr>
</tbody>
</table>

Remarks:  

Signed: Kenneth S. Launde  
Date: 7/6/1976
Date: 9/3/1976  
Job No.: 1-76  
Hole No.:  
Elevation:  

Customer: Cliff of Jan Pucket  
Location: Volcano well  

Driller: Ken Sanders  
9 Hrs. Rig  

Helper: Ken Dargie  
9 Hrs. Gas  

Helper:  

Arv. Job: 7:00 AM  
Lv. Job: 4:00 PM  
9 Hrs. Repairs  

Bit-Size: 12  
Type: Star  

Casing-Size: 1 3/4 in.  
Length in hole: 6 ft.  
Amount Perforated:  

Depth Start: 53 ft.  
Depth Stop: 56 ft.  
Feet Drilled:  

Water Levels, Time: M ft.  
Time: M ft.  

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>53</td>
<td>Fracture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>54</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurements

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Redrilling to straight hole. Backfilled with stone & scrap iron. For 100' mud and water in fracture. Very hard cementing.

Signed: Ken Sanders  
Date: 9/3/1976
## Drilling Log

**Rusco Moss Company**

830 Ahua Street • Honolulu, Hawaii 96819

Telephone (808) 839-6288 • 833-1444

---

**Date:** 9/2/1976  
**Job No.:** 1-76  
**Hole No.:**  
**Elevation:**  
**Location:** Volcano well

---

**Driller:** Ken Sanchez  
9 Hrs.  
**Rig:**  
**Gas:**  
**Oil:**  
**Repairs:**

**Helper:** Ken Langley  
9 Hrs.  
**Hrs.:**

**Arrv. Job:** 7:00 AM  
**Sal. Job:** 4:00 PM  
9 Hrs.

---

**Bit-Size:**  
**Type:**  
**Star:**

**Casing-Size:** 12\(\frac{3}{4}\) in.  
**Length in hole:** 60 ft.  
**Amt. Perforated:**

**Depth Start:** 49 ft.  
**Depth Stop:** 53 ft.  
**Feet Drilled:** 4

**Water Levels, Time:**

---

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>49</td>
<td>Hard clay rock</td>
<td>Very hard and bits.</td>
<td>5</td>
</tr>
<tr>
<td>53</td>
<td></td>
<td></td>
<td>53.6</td>
</tr>
</tbody>
</table>

---

**Measurements**

---

**Remarks:** Hit another fracture @ 53.6 ft

---

**Signed:** Ken Sanders  
**Date:** 9/2/1976
Date: 9/1/76  
Job No.: 1-76  
Hole No.:  
Elevation: ft.  

Customer: Lift of land & water  
Location: Volcano well  

Driller: Tim Jandt  
9 Hrs.  
Rig:  

Helper: Tim Longy  
9 Hrs.  
Gas:  
Oil:  

Helper:  
Hrs.  
Repairs:  

Arv. Job:  
1st AM. Job: 4:00 PM  
9 Hrs.  
Or. No.:  

Bit-Size: 1/2  
Type: Star  

Casing-Size: 13 3/4 in.  
Length in hole: 6 ft.  
in., Amt. Perforated: ft. in.  

Depth Start: 47 ft.  
Depth Stop: 49 ft.  
Feet Drilled: 2  

Water Levels, Time: M ft., Time: M ft.  

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>42</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>47</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>47</td>
<td></td>
<td>new hole</td>
<td></td>
</tr>
<tr>
<td>49</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurements  

Remarks: Redrilling to straighten hole. 2 hrs. next hole soak.  
Drilling ahead. Very hard formation.  

Signed: Tim Jandt  
Date: 9/1/76  1976
<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
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<tbody>
<tr>
<td>42</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45</td>
<td></td>
<td></td>
<td>5 3/4</td>
</tr>
<tr>
<td>47</td>
<td></td>
<td></td>
<td>5 5/8</td>
</tr>
</tbody>
</table>

Remarks: Redrilling to Straight hole.

Signed Ken Sandell Date 8/31/1976
Date: 3/30 1976  Job No. 1-76  Hole No.  _____________  Elevation ___________ ft.

Customer:  ________________  Location:  ________________

Driller:  ________________  9 Hrs.  Rig ________________
Helper:  ________________  9 Hrs.  Gas ________________  Oil ________________
Helper:  ________________  Hrs.  Repairs ________________

Bit-Size:  ________________  Type:  ________________
Depth Start:  ________________  ft., Depth Stop:  ________________  ft., Feet Drilled ________________
Water Levels, Time:  ________________  M ________________  ft., Time:  ________________  M ________________  ft.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Measurements</th>
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<tbody>
<tr>
<td>4  1/4</td>
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<td>4  1/4</td>
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<td>4  1/4</td>
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<td>4  1/4</td>
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<td>4  1/4</td>
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</table>

Remarks:  ________________

Signed:  ________________  Date:  8/30 1976
<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
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<tr>
<td>42</td>
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<tr>
<td>45</td>
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<td>5 1/4</td>
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<tr>
<td>47</td>
<td></td>
<td>6 6</td>
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</tbody>
</table>

Remarks: Redrilling to strengthen holes using mostly scrap iron pipe. Hole coming back slowly.

Signed: Ken Sandel Date: 8/27/76
Date: 8/26 1976  
Job No.: 1-76  
Hole No.:  
Elevation: ft.  

Customer: Dept. of Land & Water  
Location: Volcano Well  

Driller: Ken Sande  
Hrs.: 9  
Rig:  

Helper: Tim Donaghy  
Hrs.: 9  
Gas:  
Oil:  

Rig:  

Arv. Job: 7:00 AM  
Lv. Job: 4:00 PM  
Hrs.: 9  
Repairs:  
Or. No.:  

Bit-Size: 12  
Type: Star  

Casing-Size: 12  
3/4 in.  
Length in hole: 60 ft.  
Am. Perforated:  
in.  

Depth Start: 47 ft.  
Depth Stop: 47 ft.  
Feet Drilled: 0  

Water Levels, Time: M ft.  
Time: M ft.  


Formation  Remarks  Top

43  44  53  6

44  47  6  6  6


Remarks:  
Drilling hole, starting to come back down. Hard formation on seemingly side.  

Signed: Ken Sande  
Date: 8/26 1976
Date: 8/25/76  
Job No: 1-76  
Hole No:  
Elevation:  

Customer: East Jandia Water  
Location: Volcano Well  

Driller: Ken Sandine  
9 Hrs.  
Rig:  

Helper: Ken Longkey  
9 Hrs.  
Gas:  

 Helper:  
Hrs.  
Reps:  

Arv. Job: 7:00AM  
Lv. Job: 4:00PM  
9 Hrs.  
Or. No.  

Bit-Size: 12  
Type: Star  

Casing-Size: 12 1/2  in.  
Length in hole: 6 ft.  
Amt. Perforated:  

Depth Start: 47 ft.  
Depth Stop: 47 ft.  
Feet Drilled:  

Water Levels, Time: M M ft., Time: M M ft.  


<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
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</tbody>
</table>

Measurements:


Remarks: Redrilling hole 42 to 47 ft. Rock and sandstone still being forced out into fracture. Starting to hold late in the day.

Signed: Ken Longkey
Date: 8/26/76
**DRILLING LOG**

**RUSCOE MOSS COMPANY**

830 AHUA STREET • HONOLULU, HAWAII 96819
TELEPHONE (808) 839-6888 • 833-1444

---

<table>
<thead>
<tr>
<th>Date</th>
<th>6/24/76</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job No.</td>
<td>1-76</td>
</tr>
<tr>
<td>Hole No.</td>
<td></td>
</tr>
<tr>
<td>Elevation</td>
<td></td>
</tr>
</tbody>
</table>

**Customer**

Dept. of Land and Water

**Location**

Walencowell

**Driller**

Ken Sandusy

9 Hrs.

**Helper**

Ken Tongay

9 Hrs.

**Helper**

9 Hrs.

**Arv. Job**

7:00 AM

**Lv. Job**

4:00 PM

9 Hrs.

---

**Bit-Size**

1 2

**Type**

Star

**Casing-Size**

1 2 3 4 in., Length in hole

6 ft.

**Amt. Perforated**

in., Amt. Perforated

ft.

in.

**Depth Start**

41 ft.

**Depth Stop**

47 ft.

**Feet Drilled**

---

**Water Levels, Time**

M ft., Time M ft.

---

**Depth**

<table>
<thead>
<tr>
<th>41</th>
<th>43</th>
<th>47</th>
</tr>
</thead>
<tbody>
<tr>
<td>rock</td>
<td>fracture</td>
<td>Bit broke through hard formation and came free. for 4 ft.</td>
</tr>
</tbody>
</table>

**Remarks**

Back filled hole with rock and scrap iron to 42 ft. started to refill. Very big fracture took large amount of stones to refill.

---

**Signed**

[Signature]

Date 8/28/76

1976
### Drilling Log

**Date:** 8/23 1976  
**Job No.:** 1-76  
**Hole No.:**  
**Elevation:**  

**Customer:**  
**Debit of land and water:**  
**Location:** Volcano well

**Driller:** Ken Sanders  
**9 Hrs. Rig:**  

**Helper:** Ken Comary  
**9 Hrs. Gas:** Oil  
**9 Hrs. Repairs:**  
**Arv. Job:** 7:00 AM  
**Lv. Job:** 4:00 PM  
**9 Hrs. Or. No.:**

<table>
<thead>
<tr>
<th>Bit-Size</th>
<th>1/2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>165</td>
</tr>
</tbody>
</table>

**Casing-Size:** 12 1/4 in.  
**Length in hole:** 60 ft.  
**in., Amt. Perforated:** ft. in.  
**Depth Start:** 4 1/2 ft.  
**Depth Stop:** 4 1/2 ft.  
**Feet Drilled:** 0

### Water Levels

**Measurements**  

<table>
<thead>
<tr>
<th>Water Levels</th>
<th>A</th>
<th>ft.</th>
<th>Time</th>
<th>B</th>
<th>ft.</th>
</tr>
</thead>
</table>

### Depth Formations

<table>
<thead>
<tr>
<th>Depth</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
</table>

**Remarks:**

Receivnent surface pipe in well. Looked out flat bed truck loaded 3 loads with cut up scrap iron to put in well.

**Signed:** Kenneth Sanders  
**Date:** 8/23 1976
## Drilling Log

**Customer:** Kulapa | Location: Volcano well

**Driller:** Ken Sanders | Rig: 

**Helper:** Kim Conagly | Gas: Oil

**Arv. Job:** 7:00 AM | Lv. Job: 4:00 PM | Repairs: 

---

**Bit-Size:** 12 in. | **Type:** Star

**Casing-Size:** 12 1/4 in., Length in hole: 12 ft. | **In.:** Amt. Perforated: ft. in.

**Depth Start:** 37 ft. | **Depth Stop:** 41 ft. | **Feet Drilled:** 4

**Water Levels, Time:** ft. | **Time:** ft. 

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>37</td>
<td>Hard Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>41</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Measurements**

**Remarks:** Ending very hard, spread bottom of bit @ 40 ft. had to take about 3 ft. out of cement to get out of hole. Reversing bit went fast to drilling well have to break out tomorrow. Hole staying straight.

**Signed:** Ken Sanders | **Date:** 8/20 1976
Customer ____________ Quarters Location Volcano well

Driller Mr. Sandlin 9 Hrs. Rig ____________
Helper Mrs. Donaghey 9 Hrs. Gas ____________ Oil ____________
Helper ________ Hrs. Repairs ____________
Arv. Job 7:00 AM Lv. Job 4:00 PM 9 Hrs. Or. No. ________

Bit-Size 12 Type ____________
Casing-Size 1¾ in., Length in hole 12 ft. in., Amt. Perforated ________ ft. ________ in.
Depth Start 32 ft., Depth Stop 37 ft., Feet Drilled 5
Water Levels, Time M ______ ft., Time M ______ ft. 

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td>Hard Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>37</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Water Levels, Time M ______ ft., Time M ______ ft.

Remarks: Drilling very hard, very hard to keep bit in shape, hole staying straight. Hole will hold water at this point.

Signed Mr. Sandlin Date 8/19 1976
**DRILLING LOG**

**RUSCOE MOSS COMPANY**

830 AHUA STREET • HONOLULU, HAWAII 96819
TELEPHONE (808) 839-6888 • 833-1444

---

**Date:** 8/18/1976  
**Job No.:** 1-76  
**Hole No.:**  
**Elevation:** ft.

**Customer:**  
**Location:** Volcano well

---

**Driller:** Ken Sancius  
**Hrs.:** 9  
**Rig:**  

**Helper:** Ken Donaghy  
**Hrs.:** 9  
**Gas:**  
**Oil:**

**Helper:**  
**Hrs.:**  
**Repairs:**

**Arv. Job:**  
**Lv. Job:** 4:00 PM  
**Hrs.:** 9

---

**Bit-Size:** 12  
**Type:** Star

**Casing-Size:** 12  
**in., Length in hole:** 12  
**ft., In., Amt. Perforated:** ft. in.

**Depth Start:** 28  
**ft., Depth Stop:** 32  
**ft., Feet Drilled:** 4

**Water Levels, Time:** M  
**ft., Time:** M  
**ft.**

---

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>28/32</td>
<td>Hard Rock</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Remarks:** Cemented surface. Pile in place. Put on Tare

---

**Signed:** Ken Sancius  
**Date:** 8/18/1976
### Drilling Log

**Date:** 8/17/76  
**Job No.:** 1-76  
**Hole No.:**  1  
**Elevation:**  
**Customer:** Gift of Land and Water  
**Location:** Volcano Well

**Driller:** Ken Jordan  
**Hrs.:** 9  
**Rig:**  
**Helper:** Ken Conagher  
**Hrs.:** 9  
**Gas:**  
**Oil:**  
**Repairs:**  
**Arv. Job:** 7:00 AM  
**Lv. Job:** 4:00 PM  
**Hrs.:** 9  
**Or. No.:**  

| Bit-Size | 12 in.  
| Type     |  
| Depth Start | 23 ft.  
| Depth Stop  | 28 ft.  
| Feet Drilled | 5  
| Water Levels, Time | M ft., Time | M ft. |  

**Depth** | **Formation** | **Remarks** | **Top** | **Measurements** |
---|---|---|---|
23/28 | Hard fractured Rock |  |  |  

**Remarks:** Great job doing. Having to hold tools back hard to keep hole straight using scrap metal to hole straight.

**Signed:** Ken Jordan  
**Date:** 8/17/76
Date: 21/16/1976  
Job No.: 1-76  
Hole No.:  
Elevation:  

Customer: Dept. of Land and Water  
Location: Volcano well Hilo

Driller: Kim Saunders  
9 Hrs.  

Helper: Kim Donaghy  
9 Hrs.

Arv. Job: 7:00AM  
Job End: 4:00PM  
9 Hrs.

Location:  

Bit-Size: 12 in  
Type: Star

Casing-Size: 12 3/8 in., Length in hole: 12 ft.  
In., Amt. Perforated:  

Depth Start: 18 ft., Depth Stop: 23 ft., Feet Drilled: 5

Water Levels, Time: M ft., Time: M ft.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>Hard fractured rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Will need water hose to run water in hole at all times.

Signed: Kim Saunders  
Date: 8/16/1976
Drilling Log

Date: Aug. 13, 1976  
Job No.: 1-76  
Hole No.:  
Elevation: __________ ft.

Customer: Drift of Land's Water  
Location: Volcano Well - Hilo

Driller: Ken Sandlin  
9 Hrs.  
Rig: __________

Helper:  
Hrs.  
Gas: __________  
Oil: __________

Helper:  
Hrs.  
Repairs: __________

Arv. Job: __________  
Lv. Job: __________  
Hrs.  
Or. No. __________

Bit-Size: __________  
Type: __________


Depth Start: __________ ft., Depth Stop: __________ ft., Feet Drilled: __________

Water Levels, Time: __________ M, __________ ft., __________ M, __________ ft.

Measurements

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Flow from Honolulu to Hilo</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>went to job site received order</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>on well from Mr. Burren</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>viewed truck and tools from other drillers and were shown</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>where to get fuel, water and other places to purchase things needed</td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

Signed: Ken Sandlin  
Date: 8/13/1976
<table>
<thead>
<tr>
<th>Date</th>
<th>8-13 1976</th>
<th>Job No.</th>
<th>1-76</th>
<th>Hole No.</th>
<th>Elevation ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer</td>
<td>Dept. Cold. and Water</td>
<td>Location</td>
<td>Volcano Well</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Driller</td>
<td>Johnny Oats</td>
<td>45 Hrs.</td>
<td>Rig</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Helper</td>
<td>Kim R. Donaghy</td>
<td>45 Hrs.</td>
<td>Gas.</td>
<td>Oil</td>
<td></td>
</tr>
<tr>
<td>Helper</td>
<td></td>
<td>Hrs.</td>
<td>Repairs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bit-Size</td>
<td>1 3/4&quot;</td>
<td>Type</td>
<td>STAR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Casing-Size</td>
<td>6&quot; in.</td>
<td>Length in hole</td>
<td>ft.</td>
<td>in., Amt. Perforated</td>
<td>ft.</td>
</tr>
<tr>
<td>Depth Start</td>
<td>ft.</td>
<td>Depth Stop</td>
<td>ft.</td>
<td>Feet Drilled</td>
<td></td>
</tr>
<tr>
<td>Remarks:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Water Levels

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Hard gray fractured</td>
<td>Kept on slope all week and is now straight</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>rock</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

Signed: Johnny Oats | Date: 8-13 1976
**Drilling Log**

**RUSCOE MOSS COMPANY**

830 AHUA STREET • HONOLULU, HAWAII 96819
TELEPHONE (808) 839-6888 • 833-1444

<table>
<thead>
<tr>
<th>Date</th>
<th>Job No.</th>
<th>Hole No.</th>
<th>Elevation (ft.)</th>
<th>Customer</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-7 1976</td>
<td>1-76</td>
<td></td>
<td></td>
<td>DEPARTMENT OF LAND AND WATER</td>
<td>VOLCANO WELL HILDOLELL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Driller</th>
<th>Helper</th>
<th>Rig</th>
<th>Gas</th>
<th>Oil</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAM MYERS</td>
<td>BRANT LERNER</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45 Hrs.</td>
<td>45 Hrs.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Helper</th>
<th>Or. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Arv. Job</th>
<th>Lvl. Job</th>
<th>Repairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 AM</td>
<td>4 PM</td>
<td>9 Hrs.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bit-Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>12&quot;</td>
<td>STAR</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing-Size</th>
<th>Length in hole (ft.)</th>
<th>Amt. Perforated (ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8&quot;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth Start</th>
<th>Depth Stop</th>
<th>Feet Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water Levels</th>
<th>Time M ft.</th>
<th>Time M ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:**

- HARD FRACTION ROCK
- HOLE WENT OFF, POO HAVE
- GRAY IN COLOR BEEN CUTTING BAD SIDES OFF

<table>
<thead>
<tr>
<th>Measurements</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Remarks:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

Signed: Johnny Sak Date: 8-7 1976
### Drilling Log

**Date**: 7-31-76  
**Job No.**: 1-76  
**Location**: Volcano Well - Hill  
**Customer**: Department of Land and Water

<table>
<thead>
<tr>
<th>Driller</th>
<th>Helper</th>
<th>Helper</th>
<th>Arv. Job</th>
<th>Job Start</th>
<th>Ltr. Job</th>
<th>Or. Time</th>
<th>Hrs. Rig</th>
<th>Hrs. Gas</th>
<th>Hrs. Oil</th>
<th>Hrs. Repairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jamie G.</td>
<td>Brian A.</td>
<td>Brian A.</td>
<td>7:00 AM</td>
<td>4:00 PM</td>
<td>9 Hrs.</td>
<td>Or. No.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Bit-Size**: 12  
- **Type**: STA

<table>
<thead>
<tr>
<th>Casing-Size</th>
<th>Length in hole</th>
<th>Amt. Perforated in</th>
<th>Depth Start</th>
<th>Depth Stop</th>
<th>Feet Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 in.</td>
<td>ft.</td>
<td>in.</td>
<td>ft.</td>
<td>ft.</td>
<td>ft.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water Levels, Time</th>
<th>Top</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Helped contaminated move their equipment 2 days. Mon. - Tues.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Moved our equipment in and set rig up - 3 days Wed. Thurs. Fri.</td>
</tr>
</tbody>
</table>

**Remarks**: 

**Signed**: Jolson Oaha  
**Date**: 7-31 1976