Date: 12-17-1976  Job No: 24-76  Hole No: 2  Elevation: 306 ft.
Customer: State Dept. of Land & Water  Location: Hana, Maui

Driller: T. Cunningham  7 Hrs.  Rig: COL
Helper: T. Lynch  5 Hrs.
Arv. Job:  Lv. Job:  Or. No:

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

Depth Start: ft., Depth Stop: ft., Feet Drilled: ft.
Water Levels, Time: M ft., Time: 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>Test Pump</td>
<td>from 12:10 AM to 11:00 AM - 11 hrs</td>
<td></td>
</tr>
</tbody>
</table>

Test Pump: 11 hrs
73 1/2 hrs
8 4 1/2 hrs Total Time Pumped.

We shut down at 11:00 AM
T. Lynch put up the 706 ft.

Remarks: About 4 1/2 drums of diesel fuel used.
3 Qts. oil added to engine.

Signed: T. Cunningham  Date: Dec. 17, 1976
Date: 12-16-1976  
Job No.: 34-76  
Hole No.: 2  
Elevation: 306 ft.  

Customer: State Dept. of Land & Water  
Location: Hane, Maui

Driller: J. Cunningham  
Hrs.: 8  
Rig: 60L

Helper: T. Lynch  
Hrs.: 6  
Gas:  
Oil:  
Repairs: 
Arv. Job:  
Lvl. Job:  

Bit-Size:  
Type:  


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

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

### Depth Formations

<table>
<thead>
<tr>
<th>Depth</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump</td>
<td>12 Hrs.</td>
</tr>
<tr>
<td>Total pumped</td>
<td>59 $\frac{1}{2}$ Hrs.</td>
</tr>
<tr>
<td>71-1/2 Hrs.</td>
<td></td>
</tr>
<tr>
<td>2 Hrs.</td>
<td></td>
</tr>
<tr>
<td>73-1/2 Hrs.</td>
<td></td>
</tr>
<tr>
<td>Start pump once more at 10:00 P.M. Till 12:00 AM.</td>
<td></td>
</tr>
</tbody>
</table>

### Remarks:

Start pump once more at 10:00 P.M. till 12:00 AM.  

Signed: J. Cunningham  
Date: Dec 16, 1976
Date 12-15-1976  Job No. 24-76  Hole No. 2  Elevation 306 ft.
Customer: State Dept. of Lead Water  Location HAVIT MAUI

Driller: T. Cunningham  12 Hrs.  Rig 604
Helper: T. Lynch  12 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>24 Hrs.</td>
<td>Pump</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Time Pumped 4 35 1/2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>59/4 HRS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump 2:00 6p.m.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

Signed: T. Cunningham  Date: Dec. 15 - 1976
Date: 12-14-1976  
Job No.: 2476  
Hole No.: 2  
Elevation: 304 ft.

Customer: State Dept. of Land & Water
Location: Hana, Maui

Driller: T. Cunningham  
12 Hrs.  
Rig: 604

Helper: T. Lynch  
12 Hrs.  
Gas:  
Oil:  
Repairs:  

Arv. Job: 6:00  
Lv. Job: 6:00 am  
24 Hrs.  
Or. No.:

Bit-Size:  
Type:


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

Water Levels, Time: M. 304 ft., Time: M. ft.

---

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:11 AM</td>
<td>to 12:42 AM</td>
<td>Pump 24 HRS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total Time Pumping 1114</td>
<td></td>
</tr>
<tr>
<td>35-1/2 HRS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump 200 GPM</td>
<td></td>
<td>Engine RPM 1525</td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

Signed: T. Cunningham  
Date: Dec. 14, 1976
**DRILLING LOG**

**RUSCOE MOSS COMPANY**

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

---

**Date:** 12-13-1976  
**Job No.:** 2476  
**Hole No.:** 2  
**Elevation:** 306 ft.

**Customer:** State Dept. of Water  
**Location:** Hana, Maui HI

**Driller:** T. Cunningham  
11 Hrs.  
**Rig:** 601

**Helper:** T. Lynch  
12 Hrs.  
**Gas:**  
**Oil:**  
**Repairs:**

**Arv. Job:**  
**Lv. Job:**  
**Or. No.:**

---

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

**Casing-Size:** 18 in.  
**Length in hole:** 321 ft.  
**Amt. Perforated:** 15 ft.

**Depth Start:**  
**Depth Stop:**  
**Feet Drilled:**

**Water Levels, Time:** M 304 ft., Time M 26 ft.

---

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>We Pump</td>
<td>11 1/2 Hrs.</td>
<td></td>
</tr>
</tbody>
</table>

**We Start the Test Pumping at 12:30 P.M.**

**12:30 P.M. to 12:00 M.D.N.T.**

**Pumping 200 G.P.M. 0 drawdown.**

---

**Remarks:**

---

**Signed:** T. Cunningham  
**Date:** Dec 13, 1976

---

**Measurments**

---

**LAND DEVELOPMENT**

---

**RECEIVED**
Date: 2-3-1976  Job No: 24-76  Hole No: 2  Elevation: 306 ft.
Customer: State Dept of Land & Water  Location: HANA, MAUI HI.

Driller: J. Cunningham  10 Hrs.  Rig: BOI
Helper: J. Lynch  10 Hrs.

Arv. Job:  Lv. Job:  Or. No:  

Bit-Size: Type:  
Depth Start: ft., Depth Stop: ft., Feet Drilled:  
Water Levels, Time: M 304 ft., Time: M ft.  

Measurements

Depth  Formation  Remarks  Top

[Blank Table]

Remarks: We set in 3 1/8" of airline pipe.

I left same plate to sit around well casing. Shut up the hole around casing.

We cut off about 1/2 ft. of 10" casing above ground. Ready to start pump.

Lay cut to some ft. pump ready to set.

(Same rain afternoon)

Signed: J. Cunningham  Date: Dec. 3-1976

(No D$d 5)
# Drilling Log

**Ruscoe Moss Company**

830 Ahua Street • Honolulu, Hawaii 96819

Telephone (808) 929-9888 • 833-1444

---

**Date:** 12-2-1976  
**Job No.:** 2974  
**Hole No.:** 2  
**Elevation:** 306 ft.

**Customer:** State Dept. of Land & Water  
**Location:** Oahu, Hawaii

**Driller:** T. Cunningham  
**Helper:** T. Lynch

**Rig:** 60C  
**Gas:**  
**Oil:**  
**Repairs:**

**Arv. Job**  
**Lv. Job**  
**Drj**

---

**Bit-Size**  
**Type**

**Casing-Size:** 10 in., Length in hole: 329 ft.  3 in., Amt. Perforated: 15 ft.  
**Depth Start:**  
**Depth Stop:**

**Feet Drilled:**

**Water Levels, Time:** M 504 ft., Time: M

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

---

*Remarks:*  
We finished job 9.  
We started in the gravel.  
A bunch of the sump material we shoveled on top of gravel.  
We filled up from 65 ft. up to about 65 ft.  
Seem to be a large cavity in this area.  
We mixed and put 50 bags of cement around casing, only fill up to about 36 ft. of surface.

*Remarks:* We return the compressor to F+E.  
Construction took about 3 hrs.

**Signed:** Tony Cunningham  
**Date:** Dec. 2, 1976
Date: 12-1-1976  
Job No.: 24-76  
Hole No.: 2  
Elevation: 306 ft.

Customer: State Dept. of Land & Water  
Location: Hana, Maui, HI

Driller: Cunningham  
10 Hrs.  
Rig: 604

Helper: Lynch  
10 Hrs.  
Gas: Oil

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

Bit-Size:  
Type:  

Casing-Size:  
in., Length in hole:  
322 ft.  
3 in., Amt. Perforated:  
15 ft.  

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

Water Levels, Time:  
M-204 ft., Time:  
M-4 ft.

We had the well about 2 hrs.  
We took one water sample from the  
first bail-out, another sample from  
lost bail-out, sent the sample to him, via Royal Hawaiian.  
We then made the trip to Lahaina, pick up  
The Pride's point tank, return to Kahului.  
Pickup 50 bags cement, also the cement mix  

tank.

Signed: Cunningham  
Date: Dec. 1-1976
**DRILLING LOG**

830 AHUA STREET • HONOLULU, HAWAII 96819
TELEPHONE (808) 639-6688 • 833-1444

**Date:** 11-30-1976  
**Job No.:** 24-76  
**Hole No.:** 2  
**Elevation:** 306 ft.

**Customer:** State Dept. of Land & Water  
**Location:** Hana, Maui, Hi.

**Driller:** T. Cunningham  
**Arv. Job:**  
**Lv. Job:**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>T. Cunningham</td>
<td></td>
<td>606</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Hrs.**  

<table>
<thead>
<tr>
<th>Driller</th>
<th>Helper</th>
<th>Rig</th>
<th>Helper</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**10 Hrs.**  
**Gas:** 
**Oil:**

**10 Hrs.**  
**Repairs:**

**Or. No.**

**Bit-Size:** 10  
**Type:** Hole.

**Casing-Size:** 10 in., Length in hole 322 ft. 3 in., Amt. Perforated 17 ft. in.

**Depth Start:** 320 ft.  
**Depth Stop:** 323 ft.  
**Feet Drilled:** 3

**Water Levels, Time:** M 304 ft. Time

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

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>320</td>
<td>Med. hard grey brown rock</td>
<td>We took out 506 barrels from well.</td>
</tr>
<tr>
<td>323</td>
<td></td>
<td>We drill about 2' of open hole - then we put about 12 or 13 tons of gravel around outside of casing. Fill up to about 65' of surface.</td>
</tr>
</tbody>
</table>

**Remarks:**  
**We measure water level 304 ft.**

**Signed:** T. Cunningham  
**Date:** Mar 30, 1976
**Drilling Log**

RUSCOE MOSS COMPANY

830 AHUA STREET • HONOLULU, HAWAII 96819
TELEPHONE (808) 835-6885 • 833-1444

---

**Date:** 11-29-1976  
**Job No.:** 29-76  
**Hole No.:** 2  
**Elevation:** 306 ft.

**Customer:**  
**State Dept. of Land & Water**  
**Location:** Hamakua, Maui, Hi.

**Driller:** T. Cunningham  
**Helper:** T. Lynch

**Rig:** 600L  
**Hrs.** 10  
**Gas**  
**Oil**  
**Repairs**

**Arv. Job**  
**Lv. Job**  
**Hrs.**

---

**Bit-Size:** 10  
**Type:** Hdc.

**Casing-Size:** 10 in., Length in hole 322 ft.  
**In., Amt. Perforated** 15 ft. in.

**Depth Start:** 318 ft., **Depth Stop:** 320 ft., **Feet Drilled:** 2

**Water Levels, Time:** M 30 ft., **Time:** M 5 ft.

---

### Depth

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>309</td>
<td>Med. hard Ool. Grey Rock</td>
<td></td>
</tr>
<tr>
<td>320</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Remarks:**  

- Drilling hard. Casing follows slowly.  
- Casing about 6" of pump bottom finished.  
- Casing almost 720' from ground level.

---

**Signed:** Troy Cunningham  
**Date:** 10/27-29, 1976
**DRILLING LOG**

**RUSCOE MOSS COMPANY**

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

Date: 11-24-1976
Job No.: 2476
Hole No.: 2
Elevation: 306 ft.

Customer: State Dept. of Land + Water
Location: Hana, Maui, HI.

Driller: T. Cunningham
10 Hrs. Rig Gas

Helper: T. Hayter
7 Hrs. Repairs

Arv. Job: 
Lv. Job: 

Or. No.: 

Bit-Size: 10
Type: Hill


Depth Start: 510 ft., Depth Stop: 515 ft., Feet Drilled: 5

Water Levels, Time: N/A M 300 ft., Time: M 300 ft.

---

**Depth** | **Formation** | **Remarks** | **Top**
---|---|---|---
510 | Red clay | Hand | 510
515 |  |  | 515

**Remarks:**
Including setting the casing, cutting, casing blown about 6 ft. 318" from ground level.

---

**Remarks:**
We put in another # T.I. of casing
Make a total of 342' of casing in the well, casing started 4' clear of gravel.

Signed: T. Cunningham
Date: Nov. 24, 1976
Date: 11-23-1976  Job No: 24-76  Hole No: 2  Elevation: 306 ft.
Customer: State Dept.  Location: Hana, Maui, HI.
Driller: T. Cunningham  10 Hrs.  Rig: 604
Helper: T. Lynch  10 Hrs.  Gas:  Oil: Repairs

Bit-Size: 10  Type: Stick
Casing-Size: 10 in., Length in hole: 315 ft. 3 in., Amt. Perforated: 15 in.,
Depth Start: ft., Depth Stop: ft., Feet Drilled:
Water Levels, Time: M: 120 ft., Time: M: 124 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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<tr>
<td></td>
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</tr>
</tbody>
</table>

Remarks:

we set in a total of 315'-3" of 10" Casing in the well. Our Casing set down at about 310 ft. casing above ground level 5 ft.

Casing Set: Size: 7½" X 8" 15' of Lower Perforated

Signed: Roy Cunningham  Date: Nov. 23, 1976
Date: 11-22-1976  
Job No.: 24-76  
Hole No.:  
Elevation:  
Customer: State Dept. of Land & Water  
Location: Honolulu, Oahu, Hi.

Driller: T. Cunningham  
Hours: 10 Hrs.  
Rig: 601  
Helper:  
Hours:  
Gas:  
Oil:  
Helper:  
Hours:  
Repairs:  
Arv. Job:  
Lv. Job:  
Hrs:  
Or. No.:  

Bit-Size: 10  
Type:  

Casing-Size:  
in.  
Length in hole:  
ft.  
Amt. Perforated:  
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>Measurements</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks:  

1. I make one casing hole guide.  
2. Change Bits from 14" to 10" Bit  

Signed: T. Cunningham  
Date: 11-22-1976

Remarks:  

Then some in the afternoon.
**DRILLING LOG**

**Customer:** State Dept. of Land & Water

**Location:** Hanu, Mau, HI

**Date:** 11-19-1976

**Job No.:** 24-76

**Hole No.:** 2

**Elevation:** 306 ft.

---

**Driller:** T. Cunningham

**Hrs.:** 8

**Rig:** DL

**Helper:** T. Lynch

**Hrs.:** 6

**Gas:** Oil

**Reps.:**

**Arv. Job:** 6

**Lv. Job:** 4

---

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

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

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

**Water Levels, Time:** M sup. 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></td>
<td></td>
<td></td>
<td></td>
<td>A</td>
</tr>
</tbody>
</table>

---

*Remarks:*

"Some time, we did back down to 311 ft. in order to make any more hole, I could the shoe onto the 15 ft. perforated length of casing. Start off at 12:30 p.m. to 5. 45 p.m."

---

*Signed:* T. Cunningham  Date: Nov. 19, 1976

Customer: State Dept. of Land & Water  Location: Harun, Maui, Hi.

Driller: Cunningham  10 Hrs.  Rig 601
Helper: Lynch  2 Hrs.  Repairs


Bit-Size: 74  Type: 74

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.

### Depth Formations

<table>
<thead>
<tr>
<th>Depth</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>307</td>
<td>Kauri</td>
</tr>
<tr>
<td>319</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:** Rain all the day.

We had to chill casing back out from 317 in. 10' to 317.

Signed: David Cunningham  Date: 11/15/76
**DRILLING LOG**

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

**Date:** 11-17-1976  
**Job No.:** 76  
**Hole No.:** 2  
**Elevation:** 306 ft.

**Customer:** State Dept. of Land + Water  
**Location:** Hono Mau 111

<table>
<thead>
<tr>
<th>Driller</th>
<th>Hrs.</th>
<th>Rig</th>
<th>Helper</th>
<th>Hrs.</th>
<th>Gas</th>
<th>Oil</th>
<th>Helper</th>
<th>Hrs.</th>
<th>Repairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. Cunningham</td>
<td>10 Hrs.</td>
<td>612</td>
<td>J. Lynch</td>
<td>10 Hrs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Arr. Job:**  
**Lv. Job:**

**Bit-Size:** 14  
**Type:**  

<table>
<thead>
<tr>
<th>Casing-Size</th>
<th>in.</th>
<th>Length in hole</th>
<th>ft.</th>
<th>Amt. Perforated</th>
<th>ft.</th>
<th>in.</th>
</tr>
</thead>
</table>

**Depth Start:**  
**Depth Stop:**  
**Feet Drilled:**

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

### Depth Formations

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

**Remarks:**

- We finally came the hole from 200 - 250 ft. We have about 1/2 of material total 20' material at the bottom. Bottom of well depth 310 ft. We still put the hole (material) down to 307 ft. Hard drilling.
- Holes checked out down to 307 ft.

**Signed:** J. Cunningham  
**Date:** Nov. 17, 1976
**DRILLING LOG**

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

<table>
<thead>
<tr>
<th>Date</th>
<th>11-16-76</th>
<th>Job No.</th>
<th>29-26</th>
<th>Hole No.</th>
<th>2</th>
<th>Elevation</th>
<th>506 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer</td>
<td>State Department of Land + Water</td>
<td>Location</td>
<td>Maui, HI</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Driller</th>
<th>T. Cunningham</th>
<th>Hrs.</th>
<th>Rig GDL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Helper</td>
<td>T. Lynch</td>
<td>Hrs.</td>
<td>Gas</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Bit-Size</th>
<th>1/4</th>
<th>Type</th>
<th>Steel</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Casing-Size</th>
<th>in.</th>
<th>Length in hole</th>
<th>ft.</th>
<th>Amt. Perforated</th>
<th>ft.</th>
<th>in.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Depth Start</th>
<th>284 ft.</th>
<th>Depth Stop</th>
<th>709 ft.</th>
<th>Feet Drilled</th>
</tr>
</thead>
</table>

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

**Measurements**

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

**Remarks:**

- We cycled down to 300 ft, then back up to the 150 ft level. We managed some bores, sunk 165' - 180' down. 185' - 200' was filled about 1/3rd full after oil.

Signed: [Signature] Date: March 16, 1976
**DRILLING LOG**

**RUSCOE MOSS COMPANY**

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

---

**Date:** 11-11-1976  
**Job No.:** 24-76  
**Hole No.:** 2  
**Elevation:** 306 ft.

**Customer:** State Dep. of Land & Water  
**Location:** Hana, Maui, Hi.

**Driller:** J. Cunningham  
**Helper:** J. Lynch

**Hrs.:** 10  
**Rig:** 604

**Hrs.:** 10  
**Gas:**  
**Oil:**

**Arv. Job:**  
**Lv. Job:**  
**Or. No.:**

**Bit-Size:** 19  
**Type:**

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

**Depth Start:** 304 ft., **Depth Stop:** 309 ft., **Feet Drilled:** 5

**Water Levels, Time:** M 30 ft., **Time:** M 130 ft.

---

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>304</td>
<td>Dark Grey Rock, soft streaks</td>
<td></td>
</tr>
<tr>
<td>309</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Remarks:**

We have had time drilling due to all my cutting settle back. Made 14 1/2 and hit just of 1/8' Drill down to 311'. Set back 2 ft.

We hit some water about 305' to 306'.

---

**Signed:** J. Cunningham  
**Date:** Nov. 11, 1976
### DRILLING LOG

**RUSCOE MOSS COMPANY**

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

---

**Date**: 11-10-1976  
**Job No.**: 24-76  
**Hole No.**: 2  
**Elevation**: 306 ft.

**Customer**: State Dept. of Land & Water  
**Location**: Hana, Maui, Hi.

---

**Driller**: T. Cunningham  
10 Hrs.  
Rig No.: 601

**Helper**: T. Lynch  
10 Hrs.

---

**Arv. Job**:  
**Lv. Job**:  
**Hrs.**

---

**Bit-Size**: 14  
**Type**: 

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

**Depth Start**: 296 ft., Depth Stop: 304 ft., Feet Drilled: 8

**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>296</td>
<td>Medium sand grey rock clay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>304</td>
<td>Dark grey rock, soft shale</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Remarks**: Making less mud, more rock.  
We bubbled on the rope socket.

---

**Signed**: T. Cunningham  
**Date**: Nov. 10, 1976
Date: 11-9-1976  
Job No: 24-76  
Hole No: 2  
Elevation: 306 ft. 

Customer: State Dept. of Land & Water  
Location: Hana, Maui, Hi. 

Driller: T. Cunningham  
10 Hrs.  
Rig: 60L 

Helper: T. Lynch  
10 Hrs. 
Gas:  
Oil: 

Arv. Job:  
L. Job:  
Hrs:  

Bit-Size: 14  
Type: Steel 

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

Depth Start: 291 ft.  
Depth Stop: 296 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>287</td>
<td>Powd. Till</td>
<td></td>
<td></td>
</tr>
<tr>
<td>291</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>296</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We first Round Hole out to 14" below depth 291. 

Build the Bit up once. 

Signed: T. Cunningham  
Date: Nov. 9 - 1976
Date: 8-12-76  
Job No.: 24  
Hole No.: 16  
Elevation: 5.0 ft.

Customer: State Dept. of Health  
Location: Hana, Maui, HI

Driller: T. Cunningham  
Hrs: 10  
Rig Loc: 

Helper:  
Hrs:  
Gas:  
Oil:  

Helper:  
Hrs:  

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

Bit Size: 14  
Type: Star

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

Depth Start: 260 ft.  
Depth Stop: 262 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>260</td>
<td>585</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

[Handwritten notes]

Signed: T. Cunningham  
Date: 8-12-76  
1976
Date 11-5-1976  Job No. 29-26  Hole No. 2  Elevation 306 ft.
Customer State Dept. of Land & Water  Location Honolulu, O.N.

Driller: T. Cunningham  10 Hrs.  Rig 601
Helper: T. Lynch  10 Hrs.  Repairs

Bit-Size 14  Type Stat
Casing-Size in., Length in hole ft. in., Amt. Perforated ft. in.
Depth Start 230 ft., Depth Stop 260 ft., Feet Drilled 30

Water Levels, Time M ft., Time M ft. Measurements

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>230</td>
<td>Steam &amp; Drill</td>
<td>mostly hand Reaming &amp; drilling</td>
</tr>
<tr>
<td>260</td>
<td></td>
<td>taking out granite a bit of material</td>
</tr>
<tr>
<td></td>
<td></td>
<td>seems to be granite there</td>
</tr>
<tr>
<td></td>
<td></td>
<td>the hard granite with 14&quot; Bit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>then it was with the 10&quot; Bit</td>
</tr>
</tbody>
</table>

Remarks: Build up the Bit 3 Times

Signed: T. Cunningham  Date Nov. 5, 1976
## DRILLING LOG

### General Information
- **Date:** 11-4-1976
- **Job No.:** 24-76
- **Hole No.:** 2
- **Elevation:** 306 ft.
- **Customer:** Stein & Weiss
- **Location:** Hanalani Estates, Oahu, HI
- **Driller:** J. Cunningham
- **Helper:** J. Lynch
- **Rig:** 601
- **Gas:** Oil
- **Hrs.:** 10
- **Or. No.:**

### Drilling Details
- **Bit Size:** 14
- **Type:** Steel
- **Casing Size:**
- **Depth:** 190 ft., **Stop:** 230 ft., **Feet Drilled:** 40
- **Water Levels:**
- **Time:** M
- **Measurements:** A

<table>
<thead>
<tr>
<th>Depth</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>190</td>
<td>Ream &amp; Drill</td>
</tr>
<tr>
<td>230</td>
<td>only 2 to 8 ft. we didn't have to ream, hole large enough</td>
</tr>
</tbody>
</table>

### Remarks:
- Build up the bit 3 times

### Signed:
- **Signed By:** J. Cunningham
- **Date:** Nov. 4, 1976
<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>167</td>
<td>Drill &amp; Ream</td>
<td></td>
<td></td>
</tr>
<tr>
<td>190</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Build up the bit 3 Times

Signed: Roy Cunningham  Date: Nov. 3, 1976
Date: 11-2-1976  Job No. 2476  Hole No. 1  Elevation 306 ft.
Customer: State Dept. of Land & Water  Location: Hanakau, Hi.
Driller: T. Cunningham  10 Hrs.  Rig: 601
Helper:  Hrs.  Gas:  Oil
Helper: T. Lynch  10 Hrs.  Repairs

Bit-Size 14  Type: Spot
Casing-Size 0  in., Length in hole  ft.  in., Amt. Perforated  ft.  in.
Depth Start  160 ft., Depth Stop  167 ft., Feet Drilled  Reason & Drill
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>160</td>
<td>Beam &amp; Drill - Hard.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>167</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

We pull out the 160' of 10' casing.
Change Bits to 14'.

Remarks: We start To Beam out to 14" set down at 164'.
Beam & drill down to 167' very hard drilling.

Signed: Roy Cunningham  Date Nov. 9  1976
Date: 11-1-76
Job No.: 2476
Hole No.: 2
Elevation: 306 ft.

Customer: State Dept. of Land Survey
Location: Honua, Maui

Driller: T. Cunningham
Helper: T. Lynch
Arv. Job: 10 Hrs.
Lv. Job: 10 Hrs.

Rig: #6

Bit-Size: 10
Casing-Size: 10 in., Length in hole: 160 ft.

Depth Start: 10 ft., Depth Stop: 290 ft., Feet Drilled: 180 ft.

Water Levels, Time: M 11 ft., Time: M 11 ft.

Measurements

<table>
<thead>
<tr>
<th>Depth</th>
<th>Forma1</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>290</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

We Rabbit on the Rope Socket


Signed: T. Cunningham
Date: Nov. 1, 1976
Date: 10-29-1976  Job No: 24-76  Hole No: 2  Elevation 30 ft.
Customer: State Dept. of Land & Water  Location: Hana, Maui, HI.

Driller: T. Cunningham  10 Hrs.  Rig #601
Helper: T. Lynch  6 Hrs.  Repairs

Bit-Size 10  Type: Hubi
Casing-Size 10 in., Length in hole 160 ft.  in., Amt. Perforated 18 ft.  in.
Depth Start 290 ft., Depth Stop 291 ft., Feet Drilled 1

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

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>290</td>
<td>Hard Rock</td>
<td></td>
</tr>
<tr>
<td>291</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

We started drilling the hole Cape in one try, But trying to drill out, hole fill up about 2.5 ft. We had to re-drill about 15 ft. of it the last 10' was open, about half of the day cleaning out the better of the bit lugs. It looked like the well was empty for a bottle farm it on the Rig.

Signed: T. Cunningham  Date: Oct. 29, 1976
Date 10-28-76  Job No. 2476  Hole No. 2  Elevation 306 ft.
Customer State Dept. of Land & Water  Location: Maui

Driller: T. Cunningham  10 Hrs.  Rig 601
Helper: T. Lynch  10 Hrs.

Arv. Job  
Lv. Job  

Bit-Size 10  Type  \[?\]

Casing-Size 10 in., Length in hole 460 ft., 160 ft. in., Amt. Perforated ________ ft. in.

Depth Start 280 ft., Depth Stop 290 ft., Feet Drilled 10

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

We drill down to about 291' seem very hard the last 100 feet. We got quite a bunch of boulder came down.

Remarks: cannot keep that very little water in the well material. Don't seem to mix very well with the water paid to hold out.

Signed: Troy Cunningham  Date: Oct. 28 - 1976
**DRILLING LOG**

**RUSCOE MOSS COMPANY**

830 AHUA STREET • HONOLULU, HAWAII 96819

TELEPHONE (808) 839-6888 • 833-1444

---

**Date:** 10-27-76  
**Job No.:** 24-76  
**Hole No.:** 2  
**Elevation:** 306 ft.

**Customer:** State Dept.  
**Water:**  
**Location:** Hana, Maui - HI

**Driller:** T. Cunningham  
**Helper:** T. Lynch  
**Arv. Job:**  
**Lv. Job:**  
**Hrs.:** 10  
**Repair:**

**Bit-Size:** 10  
**Type:** \[\text{Type}\]  
**Casing-Size:** 10 in., Length in hole 160 ft.  
**Am. Perforated:** ft. in.

**Depth Start:** 257 ft., Depth Stop 280 ft., Feet Drilled 23

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

**Measurements**

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>257</td>
<td>Brown Clay, with hard streaks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>258</td>
<td>BROWN. Clay, with hard streaks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>265</td>
<td>Brown Clay, Lava Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>273</td>
<td>BROWN. Lava Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>280</td>
<td>Brown Clay, Rock + hard streaks</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:** We maybe getting some packs coming down from Rod Socket Action

**Signed:** T. Cunningham  
**Date:** Oct. 27, 1976
**DRILLING LOG**

RUSCOE MOSS COMPANY

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

Date: 10-25-1976  |  Job No.: 24-76  |  Hole No.: 2  |  Elevation: 506 ft.

Customer: State Dept. of Land + Water  |  Location: Hana Maui - Hi.

Driller: T. Cunningham  |  Drilling Days: 10

Helper: J. Lynch  |  Helper Days: 10


---

Bit-Size: 10  |  Type: Hub


Water Levels, Time: M  |  Time: M

**Measurements**

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>232</td>
<td>Med. Hard grey Rock</td>
<td>build up the bit &amp; times</td>
<td></td>
</tr>
<tr>
<td>237</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:**
- do some reaming on some Rock and place to keep from hanging up the bit & while drilling.

Signed: Roy Cunningham  |  Date: Oct. 25 - 1976
**DRILLING LOG**

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

Date: 10-29-1976  
Job No.: 24-24  
Hole No.: 2  
Elevation: 306 ft.

Customer: State Dept. of Health  
Location: Hana, Maui

Driller: T. Cunningham  
10 Hrs. Rig 6000

Helper:  
Hrs. Gas Oil

Helper: T. Lynch  
10 Hrs. Repairs

Arv. Job  
Lv. Job  
Hrs.  
Or. No.

Bit-Size: 10  
Type: H-2

Casing-Size: 10 in.  
Length in hole: 60 ft.  
In., Amt. Perforated: 20 ft.  
In.

Depth Start: 215 ft.  
Depth Stop: 232 ft.  
Feet Drilled: 17

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

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>215</td>
<td>RIV. Grey Rock with hard Shreds</td>
<td></td>
</tr>
<tr>
<td>230</td>
<td></td>
<td></td>
</tr>
<tr>
<td>232</td>
<td>Med. hard grey Rock</td>
<td></td>
</tr>
<tr>
<td>232</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks:  
we drill down to about 232' the last 2 ft. Pretty hard.

Signed: T. Cunningham  
Date: 10-29-1976
## 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</th>
<th>Customer</th>
<th>State Dept. of Land &amp; Water</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-20-96</td>
<td>29-74</td>
<td>2</td>
<td>306 ft.</td>
<td></td>
<td>Hana, Maui</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Driller</th>
<th>Helper</th>
<th>Hours</th>
<th>Rig</th>
<th>Helper Job</th>
<th>Helper Hours</th>
<th>Helper Repairs</th>
<th>Or. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. Cunningham</td>
<td></td>
<td>10</td>
<td>60L</td>
<td>T. Lynch</td>
<td>10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bit Size</th>
<th>Type</th>
<th>Casing Size</th>
<th>Length in hole</th>
<th>Amt. Perforated</th>
<th>Depth Start</th>
<th>Depth Stop</th>
<th>Feet Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>H6</td>
<td>10 in.</td>
<td>160 ft.</td>
<td></td>
<td>192 ft.</td>
<td>200 ft.</td>
<td>8 ft.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>192</td>
<td>Brown &amp; Grey Rock with Good Freash</td>
<td></td>
<td></td>
</tr>
<tr>
<td>200</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We drill 8 ft. then we put the fan back on. Pour new rope socket, put in new post K&K socket.

Signed: T. Cunningham  Date: Oct. 20, 1926
Date: 10 - 18 1976  Job No: 24 - 76  Hole No. 2  Elevation 306 ft.
Customer: State Dept. of Land & Water  Location: Haapua, Maui, HI

Driller: T. Cunningham  10 Hrs.  Rig: 601
Helper: P. Purdy  5 Hrs.  Gas:  Oil:
Helper: T. Lynch  5 Hrs.  Repairs:  

Bit-Size: 10  Type: Hubbard
Casing-Size: 10 in., Length in hole: 160 ft.  in., Amt. Perf. ft.  in.
Depth Start: 176 ft., Depth Stop: 176 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>Measurements</th>
</tr>
</thead>
<tbody>
<tr>
<td>176</td>
<td>Hard gray rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>178</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>186</td>
<td>Brown gray rock with hard streaks</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We lose all our drilling fluid water at 150' we get some rocks came down.

Signed: Troy Cunningham  Date: Oct. 18 - 1976
Date: 10-16-1976  Job No.: 24-26  Hole No.: 2  Elevation: 306 ft.
Customer: Dept. of Land & Water  Location: Hana, Maui, Hi.

Driller: J. Cunningham  10 Hrs.  Rig: 60L
Helper: L. Lynch  10 Hrs.

Bit-Size: 16  Type: Hubbard
Depth Start: 173 ft., Depth Stop: 176 ft., Feet Drilled: 3

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

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top A</th>
<th>Top B</th>
</tr>
</thead>
<tbody>
<tr>
<td>173</td>
<td>Sand Lime Rock</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Trouble with Bit & Tires

Some Tools Came Down.

Signed: J. Cunningham  Date: Oct. 16, 1976
DRILLING LOG

Date: 10 - 15 - 1976  
Job No.: 2476  
Hole No.: 2  
Elevation: 30 ft.

Customer: State Dept. of Land & Water  
Location: Hana, Maui, HI

Driller: J. Cunningham  
10 Hrs.  
Rig: 60L

Helper: J. Lynch  
10 Hrs.  
Repairs

Arv. Job:  
Lv. Job:  
Or. No.: 

Bit-Size: 10  
Type: Standard

Casing-Size: 10 in., Length in hole: 160 ft.  
Amt. Perforated: ___ ft. ___ in.

Depth Start: 116 ft.  
Depth Stop: 173 ft.  
Feet Drilled: 7

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

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>116</td>
<td>Brown/grey rock</td>
<td>Hard Shanks</td>
</tr>
<tr>
<td>172</td>
<td>Head blue Rock</td>
<td></td>
</tr>
<tr>
<td>173</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Measurements

Signed: Ray Cunningham  
Date: Oct. 15, 1976

Remarks: We found up the bit 2 times, Plenty of rain. Some rocks came down.
Date: 10-14-1976  Job No. 2426  Hole No. 2  Elevation 306 ft.
Customer: State Dept. of Land & Water
Location: Hana, Maui - HI.

Driller: T. Cunningham  10 Hrs.  Rig 606
Helper: T. Lynch  10 Hrs.


Bit-Size: 10  Type: Hubbed


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

Measurements

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formication</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>160</td>
<td>CQV 4 grey rock, faulted</td>
<td>Very hard from 160-162 (201?)</td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We drill the casing down to about 15-18' from surface. Then stop. We put in 1 sack of gel.

Signed: T. Cunningham  Date: Oct. 14 1976
Date: 10-12-1976  
Job No.: 29-76  
Hole No.: 2  
Elevation: 306 ft.

Customer: State Dept. of Land & Water  
Location: Hana, Maui - Hi.

Driller: T. Cunningham  
10 Hrs.  
Rig: 60L

Helper: T. Purdy  
10 Hrs.

Arv. Job:  
Lv. Job:  
Or. No.:  

Bit-Size:  
Type:  

Casing-Size: in., Length in hole ft., Depth Start ft., Depth Stop ft., Feet Drilled  
Amt. Perforated ft. in.

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

Remarks:

I arrived at 10:20.  
Kahului. Pickup one drum gas.  

Told #6 helper Purdy to rent and tongs lift frame.

We unloaded the load of casing on the job site.  
17 lengths of 10" of casing.

Signed: T. Cunningham  
Date: Oct 12, 1976
**Drilling Log**

**Ruscoe Moss Company**

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

Date: 10-7-1926  Job No.: 2476  Hole No.: 2  Elevation: 306 ft.

<table>
<thead>
<tr>
<th>Customer State</th>
<th>dept of land &amp; water</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>T. Cunningham</td>
<td>10 Hrs.</td>
</tr>
<tr>
<td>Helper</td>
<td></td>
<td>Hrs.</td>
</tr>
<tr>
<td>Helper</td>
<td>P. Purdy</td>
<td>10 Hrs.</td>
</tr>
<tr>
<td>Arv. Job</td>
<td></td>
<td>Hrs.</td>
</tr>
<tr>
<td>Lv. Job</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Bit-Size**

**Type**

<table>
<thead>
<tr>
<th>Casing-Size</th>
<th>in., Length in hole</th>
<th>ft.</th>
<th>in., Amt. Perforated</th>
<th>ft.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Depth Start</th>
<th>15.5 ft.</th>
<th>Depth Stop</th>
<th>15 ft.</th>
<th>Feet Drilled</th>
</tr>
</thead>
</table>

**Water Levels, Time**

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

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

**Measurements**

```
we drill all day try to get back to the situation but unable to, we keep losing file finish the day at depth 15 ft.
Hole depth 15 ft.
I will use about 1 1/2 inch extension into clay but don't seem to help any drilling.
```

Remarks:

Signed: T. Cunningham  Date: Oct. 7-1926
### DRILLING LOG

**Date:** Oct. 6 - 1976  
**Job No.:** 24-76  
**Hole No.:** 2  
**Elevation:** 306 ft.

**Customer:** State Dept. of Land & Water  
**Location:** Hanaini, Hi.

<table>
<thead>
<tr>
<th>Driller</th>
<th>Helper</th>
<th>Rig</th>
<th>Gas</th>
<th>Oil</th>
<th>Repairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. Cunningham</td>
<td>P. Pardy</td>
<td>600</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Job &amp; Lv.</td>
<td></td>
</tr>
</tbody>
</table>

**Bit-Size:**      
**Type:** Ster

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

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

**Remarks:**

- We start in 16" drilling but the hole start casing 60.8 ft. below. Very hard to drill out all from 156.5 ft.
- We can dig 80 ft. put in 8" 1/2 and 8" 1/2 drill and close. We set 8" 1/2 with labor and 15/8" Hole Continue to 160 ft. 

**Signed:** T. Cunningham  
**Date:** Oct. 6 - 1976
Date 10-5-1976  Job No. 24-76  Hole No.  Elevation 50 ft.

Customer State Dept. of Land & Water  Location Hana, Maui

Driller T. Cunningham  10 Hrs.  Rig  60 L

Helper P. Purdy  10 Hrs.  Repairs

Arv. Job  Lv. Job

Bit-Size 14  Type  

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

Depth Start  157 ft., Depth Stop 160 ft., Feet Drilled 3

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>157</td>
<td>Low hard lava Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>160</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

we start to faller on the socket but run out of oxygen 2 make trip with Kcalus and
Pic up oxygen and acetylene.

Signed T. Cunningham  Date Oct. 5-1976
**DRILLING LOG**

**Customer:** STATE Dept. of Land & Water  
**Location:** Hana, Maui  
**Date:** 10-4-1976  
**Job No.:** 24  
**Hole No.:** 7  
**Elevation:** 500 ft.

**Driller:** T. Cunningham  
**Helper:** P. Purdy

<table>
<thead>
<tr>
<th>Driller</th>
<th>Helper</th>
<th>Rig</th>
<th>Gas</th>
<th>Oil</th>
<th>Repairs</th>
<th>Or. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. Cunningham</td>
<td>P. Purdy</td>
<td>GDC</td>
<td>Gas</td>
<td>Oil</td>
<td>Repairs</td>
<td>Or. No.</td>
</tr>
</tbody>
</table>

**Bit Size:** 14 in., **Type:** ST21

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

<table>
<thead>
<tr>
<th>Depth Start</th>
<th>Depth Stop</th>
<th>Feet Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 ft.</td>
<td>157 ft.</td>
<td>7</td>
</tr>
</tbody>
</table>

**Water Levels:**  
- Time A ft. Time B ft.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>Loose Sand and Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>157</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks:  
- The hole caved in about 4 ft. Hard to drill out.  
- We put in one 600 lb. bag of drill mud.

Signed: T.J. Cunningham  
**Date:** Oct. 4 - 1976
### Drilling Log

**Date:** 10-1-1976  
**Job No.:** 24-76  
**Hole No.:** 2  
**Elevation:** 306 ft.

**Customer:** State Dept. of Land & Water  
**Location:** Hana Maui - Hi.

**Driller:** T. Cunningham  
**10 Hrs.**  
**Rig:**

**Helper:** P. Purdy  
**10 Hrs.**  
**Gas:**

**Arv. Job:** G  
**Lw. Job:** 4  
**10 Hrs.**  
**Repairs:**

**Bit-Size:** 14  
**Type:** Star

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

**Depth Start:** 145 ft., **Depth Stop:** 150 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>145</td>
<td>Hard blue Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>146</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>146</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>150</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Measurements**

- **A**  
- **B**

**Remarks:** We lose all drilling fluid at 145' - 5 ft in one sack of drill mud. (We beam from 145'-146' 24 hrs.) Need more red mud yet. Very hard this area

**Signed:** T. Cunningham  
**Date:** Oct. 1 - 1976
**DRILLING LOG**

**RUSCOE MOSS COMPANY**

830 AHUA STREET • HONOLULU, HAWAII 96818
TELEPHONE (808) 839-6888 • 833-1444

---

**Date:** 9-30-1976  
**Job No.:** 24-76  
**Hole No.:** 2  
**Elevation:** 306 ft.

**Customer:** State Dept. of Land & Water  
**Location:** Hana, Maui Hi

**Driller:** T. Cunningham  
**Hrs.:** 10  
**Rig:** 60L

**Helper:** P. Purdy  
**Hrs.:** 10  
**Gas:**  
**Oil:**

**Arv. Job:** 6  
**Hrs.:** 10  
**Job:**

**Bit-Size:** 14  
**Type:** Ptn

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

**Depth Start:** 144 ft.  
**Depth Stop:** 145 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>144</td>
<td>Hard Blue Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>145</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Remarks:** 4 Times We build up the Bit. Remade.
Rain most of the afternoon

**Signed:** Troy Cunningham  
**Date:** Sept 30, 1976
Date: 9-29-1976  Job: No. 29-76  Hole No. 2  Elevation: 304 ft.
Customer: State Dept. of Land & Water Location: Hana, Maui HI

Driller: T. Cunningham  10 Hrs.  Rig: 60L
Helper:  P. Purdy  10 Hrs.  Gas:  Oil:  Oil:  Repairs:
Arv. Job: L.V. Job: 91  10 Hrs.  Or. No.:

Bit-Size: 14
Casing-Size: in., Length in hole ft. in., Amt. Perforated ft. in.
Depth Start: 143 ft., Depth Stop: 144 ft., Feet Drilled 1
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>143</td>
<td>Hard Blue Rock</td>
<td>Rock seem to get more</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hard, Better, less cut</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bit, Some</td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

Work on the Bit & Time

Signed: T. Cunningham  Date: Sept. 29, 1976
**Drilling Log**

Date: **9-28-1976**  
Job No.: **24-26**  
Hole No.: **2**  
Elevation: **306 ft.**

Customer: State Dept. of Cond. Water  
Location: Hana, Maui, HI

Driller: **Ray Cunningham**  
10 Hrs.  
Rig: **604**

Helper:  
Hrs.:  
Gas:  
Oil:  

Helper: **P. Purdy**  
10 Hrs.  
Repairs:  

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

**Bit-Size:** 14  
**Type:** Ska

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

Depth Start: **141 ft.**  
Depth Stop: **143 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>141</td>
<td>Hard blue rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>143</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**We drill 6” then slow down the Rig and room till coupled 10 hours. Note took off fast in the Hard Rock area.**

Remarks: **Build up the bit 3 times**

Signed: **Ray Cunningham**  
Date: **Sept 28, 1976**
Customer: State Dept. of Land & Water  Location: Hana, Maui, Hi.

Driller: T. Cunningham  10 Hrs.  Rig: 60L
Helper: P. Purdy  10 Hrs.  Gas:  Oil:  
Helper:  10 Hrs.  Repairs:  

Bit-Size: 14  Type: Star  
Depth Start: 139 ft., Depth Stop: 141 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>139/</td>
<td>Hard Blue Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>141</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Rain most of the morning.

Signed: T. Cunningham  Date: Sept. 27, 1976
**DRILLING LOG**

**Date:** 9-25-1976  
**Job No.:** 24-76  
**Location:** Wana, Maui, HI

<table>
<thead>
<tr>
<th>Customer</th>
<th>State Dept., L&amp;d., Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>T. Cunningham</td>
</tr>
<tr>
<td>Helper</td>
<td>P. Purdy</td>
</tr>
</tbody>
</table>

- **Rig:** 60L
- **Hrs.:**
  - Driller: 10
  - Helper: 10
- **Gas:**
- **Oil:**
- **Repairs:**

|----------|---------|------|---------|

**Bit-Size:** 14  
**Type:** 

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

<table>
<thead>
<tr>
<th>Depth Start</th>
<th>Depth Stop</th>
<th>Feet Drilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>136 ft.</td>
<td>139 ft.</td>
<td>3</td>
</tr>
</tbody>
</table>

**Water Levels, Time:**  
**Measurements:**

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>136</td>
<td>Wet hard grey rock</td>
<td>we have cutters of rock came down while drilling</td>
<td></td>
</tr>
<tr>
<td>139</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:**
- We have to tighten the bearing bolts on rig twice.

**Signed:** T. Cunningham  
**Date:** Sept. 25, 1976
Date: 9-24-1976  Job No: 24-76  Hole No: 2  Elevation: 306 ft.
Customer:  State Dept. of Land & Water  Location: Maalaea Hi.

Driller: T. Cunningham  10 Hrs.  Rig: 601
Helper:  Hrs.  Gas:  Oil:
Helper: P. Purdy  10 Hrs.  Repairs:

Bit-Size: 14  Type:  Steer
Depth Start: 128 ft., Depth Stop: 136 ft., Feet Drilled: 8

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

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>128</td>
<td>Red 5f.</td>
<td>Brown</td>
</tr>
<tr>
<td>135</td>
<td>Cinder</td>
<td>Rock</td>
</tr>
<tr>
<td>135</td>
<td>Med. 16f.</td>
<td>Grey</td>
</tr>
<tr>
<td>136</td>
<td></td>
<td>Rock</td>
</tr>
</tbody>
</table>

Remarks: We spend 14 Hrs. Beam from 115 to 120'

Signed: T. Cunningham  Date: Sept. 24, 1976
Date: 9-23-1976  
Job No.: 24-76  
Hole No.: 2  
Elevation: 306 ft.

Customer: State Dept. of Land & Water  
Location: Hana, Maui, HI

Driller: T. Cunningham  
10 Hrs.

Helper: P. Purdy  
10 Hrs.

Arv. Job 6:00 AM  
Lv. Job 4:00 PM

Bit-Size: 14  
Type: PDC

Casing-Size: 9-5/8 in.  
Length in hole: 123 ft.  
Amt. Perforated: 7 in.

Depth Start: 123 ft.  
Depth Stop: 128 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>123</td>
<td>Bed to Basalt, Cinder, Chalk, Limestone</td>
<td>Trench job</td>
<td>-</td>
</tr>
<tr>
<td>128</td>
<td></td>
<td></td>
<td>-</td>
</tr>
</tbody>
</table>

Remarks:

- We break down the fishing string tool.
- Pour pipe socket get started & drilling 1:00 pm
- We take off the belt guard, tighten engine....

Signed: T. Cunningham  
Date: Sept. 23, 1976
Date: 9-22-76  
Job No.: 24-76  
Hole No.: 2  
Elevation: 306 ft.

Customer: State Dept. of Land & Water  
Location: Hana, Maui, HI

Driller: T. Cunningham  
Helper: P. Purdy

10 Hrs.  
10 Hrs.

Rig: 604

Gas:  
Oil:  
Repairs:  

Arv. Job: 6  
Job: 9  
10 Hrs.

Bit-Size:  
Type:  


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

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

Depth | Formation | Remarks | Measurements

| A | B |

I make one Bell to put on the overshoot. Tools arrive 9:15 am, we hook up facing, face horns, socket, etc. We go in with overshoot. Bring the tools out from well. Set tools on top wrench.

Remarks:

Signed: T. Cunningham  
Date: Sept. 22, 1976
Date: 9-21-1976  
Job No.: 24-76  
Hole No.: 2  
Elevation: 306 ft.

Customer: State Dept. of Land & Water
Location: Hana, Maui - Hi.

Driller: T. Cunningham  
10 Hrs.  
Rig: 60

Helper: Parker Purdy  
8 Hrs.  
Repairs:

Arv. Job:  
Lv. Job:  
Or. No.:  

Bit-Size:  
Type:  

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

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

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

Measurements

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

Remarks:

I arrived at 8:30 am to pick up some Peron gear down for the rig from Bulk Plant.

Cable.

Signed: Troy Cunningham  
Date: Sept. 21, 1976
**DRILLING LOG**

Date: 9-16-1976  |  Job No.: 29-76  |  Hole No.: 2  |  Elevation: 306 ft.

Customer: State Dept. of Land & Water  |  Location: Honolulu, HI

Driller: T. Cunningham  |  10 Hrs.  |  Rig: 60 L

Helper: P. Purdy  |  10 Hrs.  |  Gas  |  Oil

Arv. Job  |  Hrs.

Bit-Size: 14  |  Type: Star


Depth Start: 122 ft.  |  Depth Stop: 123 ft.  |  Feet Drilled: 1

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>122-123</td>
<td></td>
<td>Need to hard guy back</td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:**

- We did § Bear on the last 6 ft. of hole

- At 5:40 pm our cable broke off at the rope socket, we lost tools in well

Signed: T. Cunningham  |  Date: Sept. 16, 1976
Date 9-15-76  
Job No. 29-76  
Hole No. 2  
Elevation 306 ft.

Customer: State Dept. of Land & Water  
Location: Hana, Maui M.  

Driller: J. Cunningham  
10 Hrs. Rig 604  

Helper: P. Budy  
10 Hrs. Repairs  

Arv. Job:  
Lv. Job:  

Bit-Size 14  
Type:  

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

Depth Start: 121 ft., Depth Stop: 122 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 A</th>
<th>Top B</th>
</tr>
</thead>
<tbody>
<tr>
<td>117/</td>
<td>Med. Limestone</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>122</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We pried up the Bearing Bolts from the support 8:20  
Install in Rig then 1 Start Drill & Beam  
drill about 8" of hard Rock  

Signed: J. Cunningham  
Date: Sept. 15, 1976
Date: 9-14-1976  Job No: 29-76  Hole No: 3  Elevation: 306 ft.

Customer: State Dept. of Land & Water  Location: Hana, Maui - Hi.

Driller: T. Cunningham  10 Hrs.  Rig: 60L

Helper: P. Purdy  10 Hrs.


Bit-Size: 14  Type: Star


Depth Start: 120 ft., Depth Stop: 121 ft., Feet Drilled: 1

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>120</td>
<td>Med. to hard grey rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>121</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Gear Bearing Break  Call the yard for part returns to south site  & remove the torsion bars.

Signed: T. Cunningham  Date: Sept. 14, 1976
Customer: State Dept. Land & Water
Location: Hana, Maui

Driller: Cunningham  10 Hrs. Rig: 60L
Helper: P. Puddy  10 Hrs. Gas: Oil


Bit-Size: 14 Type: Steel
Depth Start: ft., Depth Stop: 120 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>120</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

We still only a few feet.

I arrive Kahului, Maui 8:30. Pick up 12 sacks of Gilly paid from the deck. Arrive job site 11:30 am. My helper should out the Samp site until I arrive.

Remarks: We steam most of the afternoon from 11:30-12:00 hole off a little too much.

Signed: Troy Cunningham  Date: Sept. 13, 1976
Date: 9-10-1976  
Job No.: 25-76  
Hole No.: 2  
Elevation: 306 ft.

Customer: State Dept. of Land + Water  
Location: Hona, Maui - Hi.

Driller: T. Cunningham  
10 Hrs.  
Rig: Gal

Helper: J. Oak  
10 Hrs.  
Gas:  
Oil:  
Repairs:

Arv. Job: 6  
Lv. Job: 4  
10 Hrs.

Bit-Size: 1  
Type:  

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

Depth Start: 119 ft., Depth Stop: 120 ft., Feet Drilled: 1

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>119</td>
<td>Med to hard grey rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>120</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We continue beam about 5 hrs. Taking off a little

Signed: T. Cunningham  
Date: Sept. 10 - 1976
Date: September 9, 1976
Job No.: 2476
Hole No.: 2
Elevation: 306 ft.

Customer: State Dept. of Land + Water
Location: Maui, HI

Driller: J. Cunningham
10 Hrs. Rig: 601

Helper: J. Oaks
10 Hrs. Gas: Oil

Helper: ___________________________
Hrs. Repairs: ______________________

Arv. Job: 6:00
Lv. Job: 4:00
10 Hrs. Or. No.: ___________________

Bit-Size: 19
Type: Star


Depth Start: 118 ft., Depth Stop: 119 ft., Feet Drilled: 1


<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>118</td>
<td>Med. top hard Grey Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>119</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurements

Remarks: Ream about 1/4 HP. - Very slow. Ream off rock
Build up the bit 4 times

Signed: J. Cunningham
Date: Sept. 9, 1976
### DRILLING LOG

**RUSCOE MOSS COMPANY**

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

---

**Date:** 9-8-76  
**Job No:** 24-26  
**Hole No:** 2-B  
**Elevation:** 706 ft.  
**Customer:** State Dept. of Lands & Water  
**Location:** Hana, Maui, HI

**Driller:** T. Cunningham  
**Helper:** J. Oaki  
**Arv. Job:** 6  
**Lv. Job:** 7  
**Hrs.:** 10  
**Rig:** 601

**Helper**

---

**Bit-Size:** 14  
**Type:** Step

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

**Depth Start:** 114 ft.  
**Depth Stop:** 118 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>114</td>
<td>Med. To Hard Grey Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>118</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:**

Hole is off about one inch to right. Much Th. last 6-7 crew about one half day taking off a little as the hole went more deeper. Sidewall Rock quit coming down from rock.lost action. Hole clean up, making it easier to measure more accurately.

**Signed:** T. Cunningham  
**Date:** Sept. 8-1976

---
**Date:** 9-6-1976  
**Job No.:** 24-76  
**Hole No.:** 2  
**Elevation:** 306 ft.

**Customer:** State Dept. of Land & Water  
**Location:** Hana, Maui, HI

**Driller:** J. Cunningham  
**Rig:** 606  
**Helper:** J. Oake  
**Gas:**  
**Oil:**  
**Repairs:**

**Arv. Job:** 6  
**Lv. Job:** 4  
**Hrs.:** 10

**Bit Size:** 14  
**Type:** Star

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

**Depth Start:** 112 ft., Depth Stop:** 114 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>112</td>
<td>med. to hand gray rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>114</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:** Build up the R.T. 5 Times – Formation is very hard, making it impossible to drill. I have to dig tight line completely. Drill off, turn to the right. Lead off some toward the ocean. We bow down as we drill.

**Signed:** J. Cunningham  
**Date:** Sept. 6 - 1976
## DRILLING LOG

**RUSCOE MOSS COMPANY**

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

---

**Date:** 9-3-1976  
**Job No.:** 24-76  
**Hole No.:** 7  
**Elevation:** 306 ft.  
**Customer:** State Dept. of Land + Water  
**Location:** Hana, Maui, Hi.

**Driller:** J. Cunningham  
**Helper:** J. O'Fallon

<table>
<thead>
<tr>
<th>Driller</th>
<th>10 Hrs.</th>
<th>Rig</th>
<th>Gas</th>
<th>Oil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Helper</td>
<td>10 Hrs.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Arv. Job:** 6  
**Lv. Job:** 4:30 Pm  
**Hrs.:** 10 Hrs.

**Bit-Size:** 14  
**Type:** Star

**Casing-Size:** 14  
**Conduits:** L  
**Length in hole:** X ft. in., Amt. Perforated X ft. in.

**Depth Start:** 110 ft., Depth Stop: 122 ft., Feet Drilled: 12 ft.

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

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top A</th>
<th>Top B</th>
</tr>
</thead>
<tbody>
<tr>
<td>110</td>
<td>Mod. To hard Gray Rock.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:** Well build up bit about 4 Turn.

**Signed:** J. Cunningham  
**Date:** Sept. 3 - 1976
**DRILLING LOG**

RUSCOE MOSS COMPANY

830 AHUA STREET • HONOLULU, HAWAII 96819
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---

### Job No. 24-76 Hole No. 2

**Elevation:** 306 ft.

**Location:** Hana, Maui, Hi.

**Driver:** JT. Cowles

**Driller:** JT. Cunningham

**Helper:** PT. Purdy

**Helper:** JT. Lyshak

**Arv. Job:** 6

---

### Measurements

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>107 M</td>
<td>Med. To Hard Grey Rocks</td>
<td>Rope socket seemed to be knackered in quite a bank of material - stuck under.</td>
</tr>
<tr>
<td>110 M</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### Remarks

Bore up the first 4/10ths.

---

**Signed:** JT. Cunningham  
**Date:** Sept. 2 - 1976
**DRILLING LOG**

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---

**Date:** 9-1-1976  
**Job No.:** 24-76  
**Hole No.:** 3-15  
**Elevation:** 306 ft.

**Customer:** State Dept. of Land & Water  
**Location:** Hana, Maui - Hi.

**Driller:** F. Gallo  
**10 Hrs.**

**Driller:** T. Cunningham  
**10 Hrs.**  
**Rig:** 601

**Helper:** P. Pondy  
**10 Hrs.**  
**Gas:**  
**Oil:**

**Helper:** T. Lynch  
**10 Hrs.**

**Arv. Job:** L.  
**Lv. Job:** 2  
**20 Hrs.**

---

**Bit-Size:** 14  
**Type:**  
**Measurements**

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

**Depth Start:** 97 ft.  
**Depth Stop:** 107 ft.  
**Feet Drilled:** 10

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

---

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>97</td>
<td>Red clay</td>
<td>Pick &amp; Cinders</td>
</tr>
<tr>
<td>103</td>
<td></td>
<td></td>
</tr>
<tr>
<td>103</td>
<td>Med. to hard clay rock</td>
<td></td>
</tr>
<tr>
<td>107</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Remarks:** We pick up the rig parts from the airport 9:30 am  
We put in the next system, continue drill.

**Remarks:** We unload the pump equipment from Valley Isle Church  
on job site.

**Signed:** Ray Cunningham  
**Date:** Sept. 1 - 1976
Date: 8-31-1976  Job No: 2476  Hole No: 2-B  Elevation: 306 ft.

Customer: State Dept. of Land & Water  Location: Hana, Maui  1st.

Driller: F. Columbus  10 hrs.
Driller: J. Cunningham  10 hrs.
Helper: P. Purdy  10 hrs.
Helper: T. Lynch  20 hrs.

Bit-Size: ft  Type: Stan
Casing-Size: in., Length in hole ft.  in., Amt. Perforated ft.  in.
Depth Start: 93 ft., Depth Stop: 97 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>93/95</td>
<td>Hard Blue Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>95/97</td>
<td>Reddish B. Rock &amp; Cinder</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

We Rabbit the Pipe Socket

Remarks: Bolt brake in the mud gear bearing
Right shift clean up rig (Grease 1st etc.)
Order new bolt for pump yard in town

Signed: F. Columbus  Date: Aug 31, 1976
**Date:** 8-30-1976  
**Job No.:** 24-76  
**Hole No.:** T  
**Elevation:** 30 ft.

**Customer:** State Dept. of Land & Water  
**Location:** Hanu, Maui, Hi

**Driller:** J. Oakey  
**Rig:** 606  
**Hrs.:** 10  
**Helper:** P. Purdy  
**Hrs.:** 10  
**Helper:** T. Lynch  
**Hrs.:** 10  
**Arv. Job:** 6  
**Lv. Job:** 2:40 AM  
**2:00 Hrs.**

---

**Bit-Size:** 14  
**Type:** Star

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

**Depth Start:** 87 ft.  
**Depth Stop:** 93 ft.  
**Feet Drilled:** 6

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

---

**Depth**  
<table>
<thead>
<tr>
<th>87</th>
<th>93</th>
</tr>
</thead>
</table>

**Remarks:**  
The drilling is promising.

---

**Remarks:**  
I pick up fuel in Honolulu for Rig 606.  
Check the Dock, see if our drilling must come in.  
(Parking, clean and supply the crew and equipment.)

**Signed:** Ray Cunningham  
**Date:** Aug. 30, 1976
Date: Aug 29, 1974

Customer: Board of Water Supply
Location: Across High School

Driller: Jimmy Brown
Helper: Rodger Fritze
Arv. Job: T. Lynch

Job No.: Aheka
Hole No.: 600 ft.
Elevation: 600 ft.

Rig: 601

Gas: Oil
Repairs:

Arr. Time: 10 Hrs.

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.

Measurements

Depth
Formation
Remarks
Top

Worked on hole until breakfast called.
Dad said to backfill and start re-drilling on we would. Measurement:
7 7/8' - 7 7/8' 8 5/8. Worked on cutting wall off and fill with metal.

3" out of plumb.

Remarks:

Signed: Jerry Souer
Date: Aug 29, 1974.
Drilling Log

Date: August 26, 1976

Job No.: Hana Well

Customer: Hana
Location: Hana

Driller: Jimmy Bauze, 10 Hrs.
Helper: Fred Piace, 10 Hrs.

Rig:
Gas:
Oil:

Hrs.

Arv. Job
Lv. Job
Hrs.

Hrs. Repairs

Or. No.

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.

Measurements

A

B

Depth

Formation

Remarks

Top

Went up to Rig. John had
tack filled bottom and stuff
Rammed in hole off 4 ft. more.

Wanted job be said to build on
Wall to see if it will do any

good.

Remarks:

Signed: Jimmy Bauze

Date: 19
### Drilling Log

**Date:** 8-26-1976  
**Job No.:** 2976  
**Hole No.:** 2  
**Elevation:** 300 ft.

**Customer:** State Dept. of Land & Water  
**Location:** Hawaii

**Driller:** T. Carwinhern  
**Helper:** P. Purne  
**Helper:** T. Lynch  
**Arv. Job:** 6: Am  
**Lv. Job:** 2: Am  
**Rig:** 60L

<table>
<thead>
<tr>
<th>Bit-Size</th>
<th>1/4</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Sft</td>
<td></td>
</tr>
<tr>
<td>Depth Start</td>
<td>90 ft.</td>
<td>Depth Stop</td>
</tr>
<tr>
<td>Water Levels, Time</td>
<td></td>
<td>M.</td>
</tr>
</tbody>
</table>

**Formation:** Hard Blue Rock

**Remarks:**

- Not try head off towards direction, have to drill off to East some to hold the alignment straight or north.

**Measurements**

<table>
<thead>
<tr>
<th>Depth</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>94</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:**

- 25' hand break in drill cable, hit socket.
- Did not hit the socket.

**Signed:** Roy Cunningham  
**Date:** Aug. 26, 1976
Date: 8-25-1976   Job No: 24-76   Hole No: 2   Elevation: 306 ft.

Customer: State Dept. of Land & Water
Location: Honolulu, Hawaii

Driller: T. Oakes
Driller: T. Cunningham
Helper: P. Purdy
Helper: T. Lynch

Rig 600

Gas:          Oil:          Repairs:          Or. No.

Bit Size: 79


Depth Start 87 ft., Depth Stop 80 ft., Feet Drilled 3

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

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
<td>Hard Blue Rock</td>
<td>Build up the bit after hitting water + Dracrey of influx</td>
</tr>
<tr>
<td>90</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Casing some of the rocks & cutters hard to drill very thin side seams, hole try to go off some

Signed: T. Cunningham   Date: Aug. 25, 1976
**DRILLING LOG**

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

---

**Date:** 8-24-1976  
**Job No.:** 74-76  
**Hole No.:** 2  
**Elevation:** 306 ft.

**Customer:** State Dept. of Land & Water  
**Location:** Hana, Maui

**Driller:** J. Oats  
**10 Hrs.**

**Driller:** J. Cunningham  
**10 Hrs.**  
**Rig:** 600

**Helper:** P. Pupoy  
**10 Hrs.**  
**Gas:**  
**Oil:**

**Helper:** J. Lynch  
**10 Hrs.**  
**Repairs:**

**Arv. Job:** 6:AM  
**Lv. Job:** 2:AM  
**20 Hrs.**  
**Or. No.:**

<table>
<thead>
<tr>
<th>Bit-Size</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Sta</td>
</tr>
<tr>
<td>Casing-Size</td>
<td>in., Length in hole</td>
</tr>
<tr>
<td>Depth Start</td>
<td>8 3</td>
</tr>
<tr>
<td>Water Levels, Time</td>
<td>M ft., Time</td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 3</td>
<td>Hard Blue Rock</td>
<td>Build up bit longer &amp; the time each shift.</td>
</tr>
<tr>
<td>8 7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---


---

**Signed:** J. Oats  
**Date:** Aug. 24, 1976
### Drilling Log

**Date:** 8-23-76  
**Job No.:** 2476  
**Hole No.:** 2  
**Elevation:** 306 ft.  
**Customer:** State Dept. of Water  
**Location:** Hanu, Maui  

**Driller:** J. Oaks  
**Drilling Time:** 10 hrs.  
**Rig:** 60c  
**Helper:** P. Purdy  
**Helper Time:** 10 hrs.  
**Gas:**  
**Oil:**  
**Repairs:**

**Arrival Job:** 6:00 AM  
**Arrival Time:** 2:40 PM  
**20 Hrs.**  

**Bit-Size:** 14  
**Type:** Star  

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

**Depth Start:** 65 ft., Depth Stop 83 ft., Feet Drilled 18  

**Water Levels, Time:**

<table>
<thead>
<tr>
<th>M</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Measurements**

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>65/80</td>
<td>Radio P. M., Landers &amp; Roke</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80/83</td>
<td>Hanu Blue Rock</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:** We Babbit on the Rove Socket

Signed: Troy Cunningham  
**Date:** Aug. 23-76
**DRILLING LOG**

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

Date: 8-22-1976  Job No. 24-76  Hole No. 2  Elevation 306 ft.

<table>
<thead>
<tr>
<th>Customer</th>
<th>State Dept of Land &amp; Water</th>
<th>Location</th>
<th>Hanu, Maui</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>J. Oakey</td>
<td>10 Hrs.</td>
<td>Rig 606</td>
</tr>
<tr>
<td>Driller</td>
<td>T. Cunningham</td>
<td>10 Hrs.</td>
<td>Gas</td>
</tr>
<tr>
<td>Helper</td>
<td>P. Purdy</td>
<td>10 Hrs.</td>
<td>Oil</td>
</tr>
<tr>
<td>Helper</td>
<td>T. Lynch</td>
<td></td>
<td>Repairs</td>
</tr>
<tr>
<td>Arv. Job</td>
<td>6:00 Am 20 Hrs.</td>
<td></td>
<td>Or. No.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bit-Size</th>
<th>Type</th>
<th>Star</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Casing-Size</th>
<th>in., Length in hole</th>
<th>ft. in., Amt. Perforated</th>
<th>ft. in.</th>
</tr>
</thead>
</table>

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

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

<table>
<thead>
<tr>
<th>Measurements</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>45</td>
<td>Hard Grey Rock</td>
<td>Self Drilled</td>
</tr>
<tr>
<td>63</td>
<td></td>
<td></td>
</tr>
<tr>
<td>63</td>
<td>Teak Bark</td>
<td></td>
</tr>
<tr>
<td>65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>Reddish Brown Cinders &amp; Mud</td>
<td></td>
</tr>
</tbody>
</table>

Remarks: WE put on the jar.

Signed: T. Cunningham  Date: Aug 22, 1976
Date: 8-28-1976  Job No. 2976  Hole No. 2  Elevation: 306 ft.
Customer: State Dept of Land & Water  Location: Hano, Maui - Hi.

Driller: J. Oak  Helper: T. Lynch

Rig: 606
Gas:     Oil:


Bit-Size: 14  Type:  Stan


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

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

<table>
<thead>
<tr>
<th>Depth</th>
<th>Forma</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>75</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

Buckhill the hole some to Shafter, Bunt

Hole off 4½ inch.

Signed: Ray Cunningham  Date: Aug 28, 1976
<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>94</td>
<td>Hana Blue Rock</td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Hole measured off about 4' at bottom.

Signed: T. Cunningham  Date: Aug 27, 1976
## Drilling Log

**Date:** 8-21-1976  
**Job No.:** 24-76  
**Hole No.:** 2  
**Elevation:** 306 ft.

**Customer:** State Dept. of Land & Water  
**Location:** Haan, Maui - HI

<table>
<thead>
<tr>
<th>Customer</th>
<th>State Dept. of Land &amp; Water</th>
<th>Location</th>
<th>State Dept. of Land &amp; Water</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>J. Oakley</td>
<td>10 Hrs.</td>
<td>Rig 600</td>
<td></td>
</tr>
<tr>
<td>Helper</td>
<td>T. Cunningham</td>
<td>10 Hrs.</td>
<td>Gas</td>
<td>Oil</td>
</tr>
<tr>
<td>Helper</td>
<td>P. Pusley</td>
<td>10 Hrs.</td>
<td>Repairs</td>
<td></td>
</tr>
</tbody>
</table>

**Bit-Size:** 14  
**Type:** Star  

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

**Depth Start:** 30 ft., **Depth Stop:** 45 ft., **Feet Drilled:** 15

**Remarks:**
- Hard grey rock, soft shale
- Have to drill a lot of the hole as well go due to rocks coming in on Dr. after drilling them

**Signed:** J. Cunningham  
**Date:** Aug 21, 1976
Date 8-20-76  Job No. 24-76  Hole No. 2  Elevation 306 ft.
Customer: State Dept. of Land & Water  Location: Hana, Maui-Hi.
Driller: J. Oaks  Hrs.: 10  Rig: 601
Driller: T. Cunningham  Hrs.: 10  Gas: __________  Oil: __________
Helper: P. Purdy  Hrs.: 10  Repairs: __________
Helper: T. Lynch  Hrs.: 10  Or. No.: __________

<table>
<thead>
<tr>
<th>Bit-Size</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing-Size</td>
<td>in. Length in hole ft. in., Amt. Perforated ft. in.</td>
</tr>
<tr>
<td>Depth Start</td>
<td>22 ft., Depth Stop 30 ft., Feet Drilled 8</td>
</tr>
<tr>
<td>Water Levels, Time</td>
<td>M ft., Time M ft.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>Hard Grey Rock</td>
<td>Soft Shale</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Set in 11' of 14" Conduits, Rock Came Some

Signed: Troy Cunningham  Date: Aug. 20-1976
Date: 8-19-1976  
Job No.: 29-76  
Hole No.: 2  
Elevation: 306 ft.

Customer: State Dept. of Land & Water  
Location: Hana, Maui, Hi.

Driller: T. Cunningham  
Driller's Hrs.: 10 hrs.

Helper: P. Pardy  
Helper's Hrs.: 10 hrs.

Arv. Job: 6:00  
Lv. Job: 7:00  
Hrs.: 20 hrs.

Rig #: 604

Gas:  
Oil:

Repairs:

Bit-Size: 14  
Type: Steel

Casing-Size: in., Length in hole: ft.  
Amot. Perforated: ft. in.

Depth Start: 11 ft., Depth Stop: 22 ft.  
Feet Drilled: 11

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>11</td>
<td>Large hard Brooks, Soft streak</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We went the 18"-3/4 FT of conductor - Big hole at top  
Fill in around conductor + Packed down.

Signed: Troy Cunningham  
Date: Aug. 19, 1976
Date: 8-18-1976  
Job No: 2426  
Hole No: 2  
Elevation: 306 ft.

Customer: State Dept of Land and Water  
Location: Hana, Maui, Hi.

Date: 8-18-1976  
Job No: 2426  
Hole No: 2  
Elevation: 306 ft.

Customer: State Dept of Land and Water  
Location: Hana, Maui, Hi.

Driller: J. Oate  
10 Hrs.  
Rig 606

Driller: J. Cunningham  
10 Hrs.  
Gas

Helper: P. Purdy  
10 Hrs.  
Oil

Helper: T. Lynch  
10 Hrs.  
Repairs

Driller: J. Oate  
10 Hrs.  
Rig 606

Helper: P. Purdy  
10 Hrs.  
Gas

Helper: T. Lynch  
10 Hrs.  
Oil

Driller: J. Oate  
10 Hrs.  
Rig 606

Helper: P. Purdy  
10 Hrs.  
Gas

Helper: T. Lynch  
10 Hrs.  
Oil

Arv. Job 6:30 a.m.  
Job 2:15 a.m.  
20 hrs.

Bit-Size: 14 in.  
Type: S
c

Casing-Size: 4 in., Length in hole: 7 ft.  
Amnt. Perforated: 7 ft.  
Type: S
c

Depth Start: 4 ft., Depth Stop: 11 ft., Feet Drilled: 7

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

--- Table ---

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>LARGE hard boulder with soft shear</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>LARGE hard boulder with soft shear</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Boulders Case in hole. Too rockill from about 6 ft.  
Fix conductor in (but not good) cemented it.

Signed: J. Cunningham  
Date: Aug 18, 1976
Date 8-17 - 1976  Job No. 2476  Hole No. 2  Elevation 306 ft.
Customer State Dept. of Land Water Location Hana, Maui, HI

Driller Ti. Cunningham  10 Hrs.  Rig 60 C
Helper P. Pardy  10 Hrs.  Gas
Helper T. Lynch  10 Hrs.  Oil

Bit-Size 14  Type Star
Depth Start 0 ft., Depth Stop 4 ft., Feet Drilled 4
Water Levels, Time M ft., Time M ft.

Depth Formation Remarks
0 Loose Law  We got the Hana Ranch Truck & Driver to move our Rig onto new well site then we raise the Rig (set up the Rig) rest the anchors United States makeup tools start the Speed on dug to about 35 ft.

Remarks:

Signed: Ti. Cunningham  Date: Aug. 17 - 1976
WELL NO 2  

**Rock Description**

- Elev 306' 
  0 - 4' loose lava nodule

4 - 63' hard gray rock with gray streaks.

63' - 86' reddish brown cinder & nodule

86' - 95' hard blue nodule

**Remarks**

* Hole 87, 87-93'

95' - 103' reddish brown cinder & nodule

103' - 123' mud hard gray nodule

103' - 135' red to brown cinder & nodule

135' - 139' mud hard gray rock

139' - 150' hard blue rock

150' - 172' brown grey rock w/ hard streaks

172' - 178' hard blue nodule

178' - 230' brown grey rock w/ hard streaks

230' - 237' mud hard gray nodule

237' - 255' brown & grey rock w/ hard drindle

255' - 273' brown cinders & loose nodule

273' - 290' brown clay & rock with hard streak

290' - 299' mud hard brown & grey nodule

**Notes:**

* Built up bit 2 Time