DRILLING LOG

830 AHUA STREET * HONOLULU, HAWAII 96819
TELEPHONE (808) 839-6896 * 833-1444

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 60L
Helper T. Lynch  5 Hrs.
Arv. Job  Lv. Job

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>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>TEST PUMP FROM 12:MM TO 11: AM - 11 HRS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TEST PUMP  11 HRS</td>
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<tr>
<td></td>
<td></td>
<td>73 1/2 HRS</td>
<td></td>
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<td></td>
<td></td>
<td>8 4 1/2 HRS  Total Time Pumped.</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>SHUT DOWN AT 11:00 AM</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>T. Lynch Put up the Tools &amp; Washed the Hole</td>
<td></td>
</tr>
</tbody>
</table>

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.**: 2476  
**Hole No.**: 7  
**Elevation**: 306 ft.  
**Location**: Hana, Maui  

**Customer**: State Dept. of Land & Water  
**Driller**: T. Cunningham  
**Helper**: T. Lynch  
**Rig**: 60L  
**Gas**:  
**Oil**:  
**Repairs**:  

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

**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

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

**Remarks:**  

**Signed**: T. Cunningham  
**Date**: Dec. 16, 1976  

**Pump**: 12 HRs.  
**Total - Pumped**: 59 ½ HRs.  
**71-½ HRs.**  
**2 HRs.**  
**73-½ HRs.**  

**Start pump once more at 10:00 P.M.**  
**Tol 30 W. M. I. E.**
Date: 12-15-1976  
Job No.: 2476  
Hole No.: 2  
Elevation: 306 ft.

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

Driller: Cunningham  
12 Hrs.  
Rig: 602

Helper: Lynch  
12 Hrs.  
Gas:  
Oil:  
Repairs:  
Or. No.:  
Arv. Job Le:  
Lv. Job Le: 24 Hrs.

Bit-Size:  
Type:  
Casing-Size:  
in., Length in hole:  
ft., 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>
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</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Pump - 24 Hrs.</td>
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<tr>
<td></td>
<td></td>
<td>Total Time Pumped: 35 1/2</td>
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<tr>
<td></td>
<td></td>
<td>59' 6 1/2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pump 200 6 p.m.</td>
<td></td>
</tr>
</tbody>
</table>

Remarks:  

Signed:  
Date: Dec. 15 - 1976
**DRILLING LOG**

**RUSCOE MOSS COMPANY**

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

**Date:** 12-14-1976  
**Job No.:** 2476  
**Hole No.:** 2  
**Elevation:** 306 ft.

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

**Driller:** T. Cunningham  
**Hrs.:** 12 Hrs.  
**Rig:** 606

**Helper:** T. Lynch  
**Hrs.:** 12 Hrs.

**Arrv. Job:** 6:00  
**Lv. Job:** 6:00 AM  
**24 Hrs.:**

**Bit-Size:**

**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>12:11 PM to 12:12 PM</td>
<td>Pump</td>
<td>24 HRS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Time Pumped</td>
<td>11 1/4 HRS</td>
<td></td>
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<tr>
<td></td>
<td>35-1/2 HRS</td>
<td></td>
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<tr>
<td></td>
<td>Pump 200 GPM</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Engine RPM 15-25</td>
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</tr>
</tbody>
</table>

**Measurements**

**Remarks:**

**Signed:** T. Cunningham  
**Date:** Dec. 14, 1976
Date: 12-13-1974  
Job No.: 2476  
Hole No.: 2  
Elevation: 306 ft.

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

Driller: T. Cunningham  
11 Hrs.  
Rig: 601

Helper: T. Lynch  
12 Hrs.  
Repairs:

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

Bit-Size:  
Type:  

Casing-Size: 10 in.  
Length in hole: 321 ft.  
Amt. Perforated: 15 ft.  

Depth Start:  
Depth Stop:  
Feet Drilled:

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

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
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</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 12:40 M.D.M.T.  
Pumping 200 GPM  

Remarks: We received the rig at 11:45 A.M.

Signed: T. Cunningham  
Date: Dec. 13, 1974
Date: 12-3-1976  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 601
Helper: T. Lynch  10 Hrs.  Repairs

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>
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</tbody>
</table>

Remarks: We set in 3¼-6" of airline zinc
I set some plates to fit and will casing shut up
the hole around casing.

We cut off about 1½ ft. of 10" casing above
Ground for test pump
I lay out 2½" Pump Ready 10 ft. set

(Same rain afternoon)

Signed: T. Cunningham  Date: Dec. 3-1976
Date: 12 - 3 - 1976  Job No. 29 - 76  Hole No. 2  Elevation 306 ft.
Customer: State Dept. of Land & Water  Location: Hanalani

Driller: Roy Cunningham  10 Hrs.  Rig 601
Helper: J. Lynch  10 Hrs.  Gas

Bit-Size  Type
Casing-Size 10 in., Length in hole 320 ft.  3 in., Amt. Perforated 15 ft. in.
Depth Start ft., Depth Stop ft., Feet Drilled
Water Levels, Time M 104 ft., Time M ft.

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

We first started in the gravel. A bunch of the samp material we shovelled onto top of gravel.
Fill up from 65' up to about 53'.
Seem to be a large cavity in this area.

We mixed 50 bags of cement around casing, only fill up to about 36' of surface.

Remarks: We return the compressor to F & M Construction. We worked about 3 HRS.

Signed: Roy Cunningham  Date: Dec. 3, 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 No: 604
Helper: Lynch  10 Hrs.  Gas:

Arv Job:  Lv Job:  Or. No:  Rig: 604

Bit-Size:  Type: 

Casing-Size: 10 in.  Length in hole: 322 ft.  3 in.  Amt. Perforated: 15 ft.  in.

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


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

We R携 the well about 2 Hrs.

We take one water sample from the
first bail out. another sample from
lost bail out. send the sample to the, via Royal Water.

We then made the trip to Lahaina pick up
the dodge brake truck return to kula
pickup 50 bags cement also the cement mix

Signed: Cunningham  Date: Dec 1  1976
<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>310</td>
<td></td>
<td></td>
</tr>
<tr>
<td>323</td>
<td>Nodular greywacke Rock</td>
<td></td>
</tr>
</tbody>
</table>

We took out 5 1/2" Bailer from well.

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.

We measure water level 304 ft.

Signed: T. Cunningham  Date: Mar 30, 1976
Date: 11-29-1976  Job No: 2976  Hole No: 2  Elevation: 306 ft.
Customer: State Dept of Land & Water  Location: Ham, Maui, Hi.
Driller: C. Cunningham  10 Hrs.  Rig: 60C
Helper: T. Lynch  10 Hrs.  Gas:  Oil:  Repairs:

Bit-Size: 10  Type: Hole:
Depth Start: 318 ft.  Depth Stop: 320 ft.  Feet Drilled: 2
Water Levels, Time: M 30  ft., Time: M ft.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>309</td>
<td>Med. hard dark grey sch</td>
<td>Drilling hard, casing follow slowly.</td>
<td></td>
</tr>
<tr>
<td>320</td>
<td></td>
<td>Casing about 6&quot; thick, bottom finish.</td>
<td></td>
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</tbody>
</table>

Gravel truck dump about 15 tons gravel on job site, about 10:00 a.m.

Signed: Troy Cunningham  Date: FEB 29, 1976
Date: 11-24-1976  Job No. 2476  Hole No. 2  Elevation 306 ft.
Customer: State Dept. of Land + Water  Location: Hana, Maui, Hi.

Driller: Cunningham  10 Hrs.  Rig: GOL
Helper:   7 Hrs.  Gas:   Oil: 
Helper:   7 Hrs.  Repairs:   

Bit-Size: 10  Type: Steel
Depth Start: 510 ft., Depth Stop: 315 ft., Feet Drilled: 5
Water Levels, Time: 8:00 M  3:00 ft., Time: M  0 ft.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
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<tbody>
<tr>
<td>510</td>
<td>Red clay</td>
<td></td>
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<tr>
<td>318</td>
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Including coating, the casing follows. Casing closed about 1/315 ft. from around 11.

Remarks: We put in another 17 ft. of casing. Make a total of 322 ft. of casing in the well. Casing stands 4 ft. above ground.

Signed: Cunningham  Date: Nov. 24, 1976
**Drilling Log**

---

**Date**: 11-23-1976  
**Job No.**: 24-76  
**Hole No.**: 2  
**Elevation**: 306 ft.  
**Location**: Hana, Maui, HI.

<table>
<thead>
<tr>
<th>Driller</th>
<th>T. Cunningham</th>
<th>10 Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Helper</td>
<td>T. Lynch</td>
<td>10 Hrs.</td>
</tr>
<tr>
<td>Arv. Job</td>
<td></td>
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<tr>
<td>Lv. Job</td>
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</tr>
</tbody>
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**Drill Rig**: 60L  
**Type**:  
**Casing-Size**: 10 in., Length in hole 315 ft., Amt. Perforated 15 ft.,  
**Depth**: Start _____ ft., Depth Stop _____ ft., Feet Drilled _____ ft.  
**Water Levels, Time**:  

---

**Depth** | **Formation** | **Remarks** | **Top** | **A** | **B**
--- | --- | --- | --- | --- | ---

---

"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 Start Size 7/8" x 8" 15' of Lower Perforated"  

---

**Remarks**:  

---

**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: J. Cunningham  
10 Hrs.  

Rig: 60L  
Gas:  
Oil:  

Helper:  
Hrs.  

Repairs:  

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

Bit-Size: 10  
Type: Stul  

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

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>
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<tbody>
<tr>
<td></td>
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<td>Top 196 Dec. 9 P1:58</td>
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<td>RECEIVED</td>
</tr>
</tbody>
</table>

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

Remarks: Have no helper this day.  
Time come in this afternoon.  

Signed: J. Cunningham  
Date: Nov. 22, 1976
Date: 11-19-1976  Job No. 24-76  Hole No. 2  Elevation 806 ft.
Customer: State Dept. of Agriculture  Location: Hanapepe, Kauai, HI.
Driller: J. Cunningham  8 Hrs.  Rig 60L
Helper: J. Lynch  6 Hrs.  Gas 42 Oil

Bit Size: T  Type: 
Depth Start: 0 ft., Depth Stop: 112.1 ft., Feet Drilled: 112.1 ft.
Water Levels, Time: M 33.3 ft., Time: M 99.9 ft.

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

Some time,

We did back down to 311 ft. inside to meet any more bed. Found the shoe at the 111. Perforated length 12 ft, total at 12:30 p.m.

Signed: Roy Cunningham  Date: Nov. 19, 1976
Date: 11-18-1976  
Job No.: 24-76  
Hole No.: 2  
Elevation: 306 ft.

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

Driller: Tommy Cunningham  
Hrs.: 10  
Rig: 601K

Helper: Tom Lynch  
Hrs.: 0  
Repaired:

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

Bit Size: 4  
Type: Iron

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

Depth Start: ft., Depth Stop: 702 ft., Feet Drilled:  

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

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top A</th>
<th>Top B</th>
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</thead>
<tbody>
<tr>
<td>317</td>
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<tr>
<td>319</td>
<td></td>
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</tbody>
</table>

Remarks: We had to chill because Back out from 317 inj 10'  
To 9 inj 10'
(6 make 10" to 319)  
Get new happy top  

Signed: Tommy Cunningham  
Date: 11-18-76
### DRILLING LOG

#### RUSCOE MOSS

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

---

**Date:** 11-17 - 1976  
**Job No.:** 76  
**Hole No.:** 2  
**Elevation:** 305 ft.

**Customer:** Dept. of Fuel & Water  
**Location:** Waipahu

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

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

**Arv. Job**

---

**Bit-Size:** 4  
**Type:** Steel

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

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

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

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**Measurements**

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

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**Remarks:**  
We found some like in the hole from 200'-250'  
We have about 1/3 of the hole filled 20' instead at the bottom. Bottom half filled with 210'.  
We still need the field material down to 307'.  
Hard drilling  
Hole checked out down to 307'.

---

**Signed:** T. Cunningham  
**Date:** Nov. 17, 1976

---
Date: 11-16-1976  Job No.: 29-24  Hole No.: 2  Elevation: 506 ft.

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

Driller: T. Cunningham  10 Hrs.  Rig: GO-1

Helper: T. Lynch  10 Hrs.  Equipment:


Bit-Size: 4
c

Depth Start: 2 feet  Depth Stop: 70 feet  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>
</table>

We drilled down to 300' to back up the hole
Do some clean out some ledge time 11/2' - 180'
135' - 200' only fill about 1/3 ft. we bottomed

Remarks:

Signed:  Date: 11-16-1976
Date: 11-11-1976  
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: 604  
Type: Oil

Helper: J. Lynch  
10 Hrs.  
Gas:  
Type: Repairs

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

Bit-Size: 14  
Type: Steel

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

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

Water Levels, Time: M 305 ft., Time: M 30 ft.

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

We have had hard time drilling due to all my cutting settle back made me I mad hit just 6\" won't pick up the material drilled drill down to 31' settle back 2 ft.

We hit some water about 305'-306'.

Signed: Troy Cunningham  
Date: Nov. 11, 1976
## Drilling Log

**RUSCOE MOSS COMPANY**

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

<table>
<thead>
<tr>
<th>Date 11-10 - 1976</th>
<th>Job No. 29-76</th>
<th>Hole No. 2</th>
<th>Elevation 306 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer</td>
<td>State Dept. of Land &amp; Water</td>
<td>Location Hana, Maui, HI</td>
<td></td>
</tr>
<tr>
<td>Driller</td>
<td>J. Cunningham</td>
<td>10 Hrs.</td>
<td>Rig 601</td>
</tr>
<tr>
<td>Helper</td>
<td>T. Lynch</td>
<td>10 Hrs.</td>
<td>Gas. Oil</td>
</tr>
<tr>
<td>Arv. Job</td>
<td></td>
<td>Hrs.</td>
<td>Repairs</td>
</tr>
<tr>
<td>Job</td>
<td>Lv. Job</td>
<td>Or. No.</td>
<td></td>
</tr>
<tr>
<td>Bit-Size</td>
<td>14</td>
<td>Type</td>
<td>5/16</td>
</tr>
<tr>
<td>Casing-Size</td>
<td>in., Length in hole</td>
<td>ft. in., Amt. Perforated</td>
<td>ft. in.</td>
</tr>
<tr>
<td>Depth Start</td>
<td>296 ft.</td>
<td>Depth Stop</td>
<td>304 ft.</td>
</tr>
<tr>
<td>Water Levels, Time</td>
<td>M ft., Time M ft.</td>
<td>Measurements</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>296</td>
<td>Med. hard Bk Gry Tbl + Clay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>299</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>299</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>304</td>
<td>Dark Gry Rck, Salt Streaks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>304</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:**

- Making less Mud - More Rock
- We Bubble on the Rake Socket

Signed: J. Cunningham Date: 11-10 - 1976
# DRILLING LOG

**Date:** 11-9-1976  
**Job No.:** 24-76  
**Location:** Hana, Maui, Hi.  
**Hole No.:** 2  
**Elevation:** 306 ft.  
**Customer:** Dept. of Land & Water  
**Driller:** W. Cunningham  
**Helper:** T. Lynch  
**Rig:** 60L  
**Hrs.:** 10  
**Type:** steer  
**Depth Start:** 291 ft.  
**Depth Stop:** 296 ft.  
**Foot Drilled:** 5  
**Oil:**  
**Gas:**  
**Repairs:**  
**Arv. Job:**  
**Lv. Job:**  
**Bit-Size:** 14  
**Casing-Size:** in.  
**Length in hole:** ft.  
**Amt. Perforated:** ft.  
**Water Levels, Time:** M  
**Remarks:** We finish Remain hole out to 15" ball and depth 291.  
**Build the Bit up once.**  
**Signed:** W. Cunningham  
**Date:** Dec. 9-1976

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>291</td>
<td>Tank &amp; Hill</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>296</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
DRILLING LOG

RUSCOE MOSS COMPANY
830 AHUA STREET • HONOLULU, HAWAII 96819
TELEPHONE (ROB) 839-6821 • 833-1444

Date 11-8-1976  Job No. 29  Location Hana, Maui, HI
Hole No. 16  Elevation 250 ft.

Customer  Driller: Cunningham  10 Hrs Rig LOC
Location:  Helper:  7 Hrs. Gas
Driller:  Helper:  10 Hrs. Repairs

Bit-Size 14  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 ___ 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></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

Signed Ray Thompson  Date 11-8-1976
**DRILLING LOG**

**RUSCOE MOSS COMPANY**

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

Date: 11-5-1976  |  Job No. 29-76  |  Hole No. 2  |  Elevation 306 ft.
Customer: State Dept. of Land & Water  |  Location: Pearl View

Driller: T. Cunningham  |  10 Hrs.  |  Rig 604
Helper: T. Lynch  |  10 Hrs.  |  Gas


Bit-Size: 14  |  Type: Steel
Depth Start: 230 ft., Depth Stop: 260 ft., Feet Drilled: 30
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>230</td>
<td>Beam &amp; Drill</td>
<td>mostly hard, beam &amp; drilling down, quite a bit of material, seems to be further than hand drill used with 14&quot; bit, then it was with the 10&quot; bit</td>
<td></td>
</tr>
<tr>
<td>260</td>
<td></td>
<td>Build up the bit 3 times</td>
<td></td>
</tr>
</tbody>
</table>

Signed: T. Cunningham  |  Date: Dec. 5, 1976
### Drilling Log

**Date:** 11-4-1976  
**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:** 601

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

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

---

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

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

**Depth Start:** 190 ft., **Depth Stop:** 230 ft., **Feet Drilled:** 40

**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>190</td>
<td>Ream + Drill</td>
<td>only 2 to 8 ft. we didn't had to ream, hole large enough</td>
</tr>
<tr>
<td>230</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Signed:** T. Cunningham  
**Date:** Nov. 4, 1976
### Drilling Log

**RUSCOE MOSS COMPANY**

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

**Date:** 11-3-1976  
**Job No.:** 29-75  
**Hole No.:** 1  
**Elevation:** 306 ft.  
**Location:** Hana, Maui, Hi.

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

**Helper:** T. Lynch  
10 Hrs.  
**Type:** G  
**Or. No.:**

<table>
<thead>
<tr>
<th>Bit-Size</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Star</td>
</tr>
</tbody>
</table>

### Casing-Size

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

**Depth Start:** ft., **Depth Stop:** 190 ft., **Feet Drilled:**

| Water Levels, Time: M ft., Time: M ft. |
| Measurements |
| A | B |

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>167/190</td>
<td>Drill &amp; Rem.</td>
<td></td>
</tr>
</tbody>
</table>

**Signed:** Roy Cunningham  
**Date:** Nov. 3, 1976

**Remarks:** Build up the bit 3 times.
DRILLING LOG

Date: 11-2-1976  Job No.: 2476  Hole No.: 5  Elevation: 306 ft.

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

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

Bit-Size: 14  Type: Steel
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>160</td>
<td>Team &amp; Drill. - Hard</td>
<td></td>
</tr>
<tr>
<td>167</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurements | A | B |
-------------|---|---|

We Pull out the 160' of 10" Casing.
Change Bit to 14".

Remarks:
We Start to Team out to 14", set down at 164'.
Team & Drill down to 167', very hard drilling.

Signed: Roy Cunningham  Date: 12/2/76
## DRILLING LOG

<table>
<thead>
<tr>
<th>Date</th>
<th>11-1-76</th>
<th>Job No.</th>
<th>24-76</th>
<th>Hole No.</th>
<th>2</th>
<th>Elevation</th>
<th>306 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer</td>
<td>State Dept. of Land</td>
<td>Driller</td>
<td>T. Cunningham</td>
<td>10 Hrs.</td>
<td>Rig 606</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Water</td>
<td>Helper</td>
<td>T. Lynch</td>
<td>10 Hrs.</td>
<td>Gas</td>
<td>Oil</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Repairs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arv. Job</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Or. No.</td>
<td></td>
</tr>
<tr>
<td>Lv. Job</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bit-Size</td>
<td>10</td>
<td>Type</td>
<td>Hub</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Casing-Size</td>
<td>10 in., Length in</td>
<td>Depth Start</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>hole 200 ft.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depth Stop</td>
<td>190 ft.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feet Drilled</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Levels, Time</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<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>190</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

We Babbit on the Rope Socket

**Remarks:** Made one Fan Try Drill But Rock Came down possible to make any hole. Pull out the 10' Chasing of my help and cut the Sump. Gave water to Rig until Janine from Kahului.

**Signed:** T. Cunningham  **Date:** Nov 1, 1976
**DRILLING LOG**

---

**ROUSCOE MOSS COMPANY**

---

**Date:** 10-29-1976  
**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:** 60A

**Helper:** T. Lynch  
**Hrs.:** 6  
**Gas:**  
**Oil:**

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

---

**Bit-Size:** 10  
**Type:** Hub

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

**Depth Start:** 290 ft.  
**Depth Stop:** 291 ft.  
**Feet Drilled:** 1

**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>290</td>
<td>Hard Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>291</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Remarks:**

We started drilling the hole in a solid rock face. To drill out, had to fill up about 2.5 ft.  
Then the well bore out about 15 ft. If it was open, about half of the day cleaning out  
Dissolved about 6 ft.  
Seem pretty hard  
Bored off the bit legs.  

(We shut down early, just one empty 55-gallon drum.)

---

**Signed:** T. Cunningham  
**Date:** Oct. 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>10-28-1976</th>
<th>Job No.</th>
<th>2476</th>
<th>Hole No.</th>
<th>2</th>
<th>Elevation</th>
<th>306 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer</td>
<td>State Dept of Land &amp; Water</td>
<td>Location</td>
<td>Maui, HI</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Driller</td>
<td>T. Cunningham</td>
<td>Hours</td>
<td>10 Hrs</td>
<td>Rig</td>
<td>COOL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Helper</td>
<td>J. Lynch</td>
<td>Hours</td>
<td>10 Hrs</td>
<td>Gas</td>
<td>Oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Helper</td>
<td>J. Lynch</td>
<td>Hours</td>
<td>10 Hrs</td>
<td>Repairs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bit-Size</td>
<td>10</td>
<td>Type</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Casing-Size</td>
<td>10 in.</td>
<td>Length in hole</td>
<td>140 ft.</td>
<td>Amt. Perforated</td>
<td>140 ft.</td>
<td>in.</td>
<td></td>
</tr>
<tr>
<td>Depth Start</td>
<td>280 ft.</td>
<td>Depth Stop</td>
<td>280 ft.</td>
<td>Feet Drilled</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Levels, Time</td>
<td>M ft.</td>
<td>Time</td>
<td>M ft.</td>
<td>Measurements</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>280</td>
<td>Brown Clay, Rock &amp; Hard Shale</td>
<td></td>
<td></td>
</tr>
<tr>
<td>390</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**We drill down to about 291', seems very hard this last 10 foot. We get quite a bunch of boulder came down.**

**Remarks:** Cannot keep that very little water in the well melted. Don't seem to mix very well with the water, had to bail out.

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

**RUSCOE MOSS COMPANY**

830 AUA STREET • HONOLULU, HAWAII 96819
TELEPHONE (808) 839-5555 • 833-1444

**Date:** 10-27-1976  
**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:** 606

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

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

**Bit-Size:** 10  
**Type:** M-3B.6

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

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

**Water Levels, Time:** M  
**M:**

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

**Measurements**

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

**Remarks:** We may be getting some rocks coming down after from rope socket action

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

RUSCOE MOSS COMPANY

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

Date 10-25-1976  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 601
Helper  Hrs.  Gas
Helper  T. Lynch 10 Hrs.  Oil
Arv. Job  Lv. Job  Hrs.  Repairs
Or. No.  

Bit-Size 10  Type Hub
Casing-Size 10 in., Length in hole 160 ft. in., Amt. Perforated ft. in.
Depth Start 232 ft., Depth Stop 237 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>232</td>
<td>Med. Fred grey Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>237</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Build up the bit & trip

Remarks: Do somereaming on some rock and place to keep from hang up the bit while drilling

Signed T. Cunningham  Date Oct.25-1976
DRILLING LOG

Date 10-22-1976  Job No. 24-24  Hole No. 2  Elevation 306 ft.
Customer State Dept. of Land & Water  Location Hana, Maui #1

Driller: T. Cunningham  10 Hrs.  Rig (6) 1
Helper  Hrs.  Gas  Oil
Helper: T. Lynch  10 Hrs.  Repairs

Bit-Size 10  Type: H-26
Casing-Size 10 in., Length in hole 160 ft. in.,Amt. Perforated 2 ft. 19 in.
Depth Start 215 ft., Depth Stop 278 ft., Feet Drilled 19

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>R.V. Grey Rock with sand streaks</td>
<td></td>
</tr>
<tr>
<td>230</td>
<td>Med. 130 Grey Rock</td>
<td></td>
</tr>
<tr>
<td>232</td>
<td>Med. grey rock</td>
<td></td>
</tr>
</tbody>
</table>

we drill down to about 232' the last 2 ft. pretty hard.

Signed: T. Cunningham  Date Oct. 22 - 1976
DRILLING LOG

Date 10-20-76  Job No. 2474  Hole No. 2  Elevation 386 ft.
Customer State Dept. of Land & Water  Location Hana, Maui, HI.
Driller T. Cunningham  10 Hrs.  Rig 606
Helper  Hrs.  Gas
Helper J. Lynch  10 Hrs.  Oil
Or. No.

Bit-Size 10  Type Hb
Depth Start 192 ft.  Depth Stop 200 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>192</td>
<td>Brown &amp; Grey Rock with hard strata.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>200</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurements: A B

Remarks: We drill 5 FT then we put the frame back on, pour new Trope socket, put in new Post & Riser

Signed: T. Cunningham  Date: Oct. 20, 1976
# Drilling Log

**Date:** 10-18-1976  
**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 601...
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Helper</td>
<td>P. Purdy</td>
<td>5 Hrs.</td>
<td>Gas...Oil</td>
</tr>
<tr>
<td>Helper</td>
<td>T. Lynch</td>
<td>5 Hrs.</td>
<td>Repairs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bit-Size</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Hubbard</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing-Size</th>
<th>10 in., Length in hole 160 ft., Amt. Perforated ft. in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth</td>
<td>Start 176 ft., Depth Stop 186 ft., Feet Drilled 10</td>
</tr>
<tr>
<td>Water Levels, Time</td>
<td>M</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>176</td>
<td>Hard blue rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>178</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>178</td>
<td>Brown + Grey Rock, w/ hard streaks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>186</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Measurements:**

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

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

**Signed:** Troy Cunningham  
**Date:** Oct. 18-1976
Date: 10 - 16 - 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  10 Hrs.  Gas:  Oil:

Helper  10 Hrs.  Repairs:

Arv. Job  Lv. Job  Or. No.:

Bit-Size: 1  Type: Hubbard

Casing-Size: 3  in., Length in hole: 140  ft.  in., Amt. Perforated:  ft.  in.

Depth Start: 172  ft., Depth Stop: 174  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>
<th>Measurements</th>
</tr>
</thead>
<tbody>
<tr>
<td>173</td>
<td>Ice Rock</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Twinning 2 Times

Some Rocks Came Down.

Signed: T. Cunningham  Date: Oct. 16, 1976
Date: 10-15-1976  
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: 60L

Helper: T. Lynch  
10 Hrs.  
Gas: Oil

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

Bit-Size: 10  
Type: Hubbard

Casing-Size: 12 in.  
Length in hole: 160 ft.  
Amt. Perforated: 100 ft.  

Depth Start: 156 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>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>156</td>
<td>Brown grey rock, Hard Strata</td>
<td></td>
<td></td>
</tr>
<tr>
<td>172</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>172</td>
<td>Hard grey rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>173</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurements

A

B

Remarks: We troubled up this well 2 times, plenty of rain. Some rock caved down.

Signed: T. Cunningham  
Date: Oct. 15, 1976
**Drilling Log**

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

**Location:** Hana, Maui — Hi.

**Date:** 10 - 14 - 1976  
**Job No.:** 2476  
**Hole No.:** 2  
**Elevation:** 506 ft.

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

**Rig:** 606

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

**Gas:** Oil

**Arv. Job:** 5:30  
**Lv. Job:** 4:30  
**Or. No.:**

**Bit-Size:** 4  
**Type:** Hubbard

**Casing-Size:** 16 in., Length in hole: 160 ft.  
**In., Amt. Perforated:** ft.  
**in.**

**Depth Start:** 160 ft.  
**Depth Stop:** 166 ft.  
**Feet Drilled:**

**Water Levels, Time:**

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>160</td>
<td>A. V. 4 &amp; grey rocks, hard streaks</td>
<td>Very hard from 160 - 162 (2-1/2)</td>
<td></td>
</tr>
<tr>
<td>166</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:** We drill the Chug down to about 15 ft. from surface. We then start up at 2 ft. We put in 1 sack of gel.

**Signed:** T. Cunningham

**Date:** Oct. 14, 1976
Date: 10-13-1976   Job No: 24-76   Hole No: 7   Elevation: 306 ft.
Customer: State Dept. of Land & Water   Location: Hana, Maui - HI

Driller: T. Cunningham   10 Hrs.   Rig: 60L
Helper: F. Purdy   10 Hrs.

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

Remarks:  
I arrived October 13, 1976. Picked up one drum of nitroglycerin. Chatted with Sniffin' about our casing. Met my helper Purdy to get mud and figures kept for us. We unloaded the load of casing on the job site at three o'clock. Length of 10' of casing.

Signed: T. Cunningham   Date: Oct 13, 1976
Date 10-7-1976  Job No. 24-76  Hole No. 2  Elevation 306 ft.
Customer State Dept. of Land & Water  Location

Driller: J. Cunningham  10 Hrs.  Rig 606
Helper  Hrs.  Gas  Oil
Helper: P. Purdy  10 Hrs.  Repairs

Bit-Size Type  Steel
Casing-Size in., Length in hole ft. in., Amt. Perforated ft. in.
Depth Start 15-5 ft., Depth Stop ft., Feet Drilled
Water Levels, Time ft., Time ft.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurements

```
we drill all day try to get back to the testing but unable to. we keep losing hole.
finishing the day at depth 15-5.
hole depth 15-5.
we drill about 1-5 and extension into clay fine bit. dont seem to help any drilling.
```
### DRILLING LOG

**RUSCOE MOSS COMPANY**

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

---

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

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

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

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

**Arv. Job:**  
**Lv. Job:**  
**Hrs.:** 10  
**Repairs:**

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

**Casing-Size:**  
**in., Length in hole:**  
**ft., 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>160</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Remarks:**

we start in T railroad bed we had start cause we didn't have the kind of bit that worked well, we had to get them in a week to work well. We had to take each labor 15' to the hole continue to

---

**Signed:** T. Cunningham  
**Date:** Oct. 6 - 1976
Date: 10-5-1976  Job No: 24-76  Hole No: 2  Elevation: 310 ft.
Customer: State Dept. of Land & Water  Location: Hana, Maui

Driller: T. Cunningham  10 Hrs.  Rig: 60L
Helper:  8 Hrs.  Gas:  Oil:
Helper: P. Purdy  10 Hrs.  Repairs:

Bit-Size: 14  Type: Steel
Depth Start: 15 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>
</tr>
</thead>
<tbody>
<tr>
<td>15 ft.</td>
<td>Lower sandstone Rock</td>
<td></td>
</tr>
<tr>
<td>160 ft.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

We Start To Fadapter on the 4adapter, But run out of Oxygen. 2 Make Trip with Helium and
Pick up oxygen + acetylene.

Remarks:

Signed: T. Cunningham  Date: Oct. 5-1976
Date: 10-4-1976  | Job No: 2474  | Hole No: 7  | Elevation: 30 ft
Customer: State Dept. of Land & Water  | Location: Hana, Maui

Driller: T. Cunningham  | 10 Hrs.  | Rig: 60C
Helper: P. Purdy  | 10 Hrs.  | Gas: Oil
Arv. Job:  | Lv. Job:  | Repairs:

Bit-Size: 14  | Type: Star
Depth Start: 150 ft. Depth Stop: 137 ft. Feet Drilled: 7
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>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>Loose hard lava rock</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurements:

Remarks:

Signed: T.J. Cunningham  Date: Oct. 4 - 1976

The hole caved in about 4 ft. Hard to drill out. We put in one 24" bag of drill mud.
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: Cunningham  10 Hrs.  Rig 604
Helper:  P. Purdy  10 Hrs.  Gas
Helper:  P. Purdy  10 Hrs.  Oil

Bit-Size: 14  Type: Star
Depth Start: 14 5 ft., Depth Stop: 15 0 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>144</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>150</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurements

Signed: Cunningham  Date: Oct 1 - 1976

Remarks: We lose all drilling fluid at 145'50' put in one sack of drill mud (we bailed from 145' 146' 2 hrs.) need more room yet (very hard this area)
Date: 9-30-1976  
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: R. Purdy  
10 Hrs.
Gas:  
Oil:  
Repaired:  
Or. No.  

Bit-Size: 14  
Type: Steel


Depth Start: 144 ft., Depth Stop: 145 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>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>

Measurements

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
</tr>
</thead>
</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: 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: P. Purdy  10 Hrs.


Bit-Size: 14  Type: Star


Depth Start: 143 ft., Depth Stop: 144 ft., Feet Drilled: 1

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>143</td>
<td>Hard Blue Rock</td>
<td>Rock seem to get more hard, better the less &amp; bottom of bit some.</td>
<td></td>
</tr>
<tr>
<td>144</td>
<td></td>
<td>Work on the bit &amp; time</td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

Signed: T. Cunningham  Date: Sept 29, 1976
Date 9-28 - 1976  Job No. 24-76  Hole No. 2  Elevation 306 ft.
Customer State Dept. of Land & Water  Location Hana, Maui  411
Driller Cunningham  10 Hrs.  Rig 60L
Helper  P. Purdy  10 Hrs.  Gas
Helper  P. Purdy  10 Hrs.  Oil
Arv. Job  Lv. Job
Hrs. Or No.

Bit-Size 11/4  Type Stak
Casing-Size in., Length in hole ft. in., Amt. Perforated ft. in.
Depth Start 141 ft., Depth Stop 143 ft., Feet Drilled 2
Water Levels, Time M ft., Time M ft.

Measurements

<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>141</td>
<td>Hard blue Rock</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>143</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

We drill 6" then slow down the Rig and room + till coupled 2 hours
while take off fast in the hard rock area.

Remarks: Build up the Pit 3 times

Signed Cunningham Date Sept. 28, 1976
Date: 9-27-1976  
Job No: 24-76  
Hole No: 2  
Elevation: 306 ft.

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

Driller: T. Cunningham  
Hours: 10 Hrs.  
Rig: 604

Helper: P. Purdy  
Hours: 10 Hrs.

Arrival: Job 4, Leave: Job 4

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
Date: 9-25-1976  
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: 601

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

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

Bit-Size: 1A  
Type: "A"


Depth Start: 136 ft., Depth Stop: 139 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>136</td>
<td>Med. hard grey</td>
<td>We have cracks in rock came down while drilling.</td>
</tr>
<tr>
<td>139</td>
<td>Rock</td>
<td></td>
</tr>
</tbody>
</table>

We have to tighten the bearing bolts on rig twice.

Remarks: Build up the bit once.

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: Hana, Maui, HI.

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

Bit-Size: 14  Type:  Steel
Depth Start: 128 ft. Depth Stop: 156 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>128</td>
<td>Red to Brown Cinders, Chalk, &amp; Ralc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>135</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>136</td>
<td>Med. hard Grey Rock</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurements

Remarks: We spend 1 1/2 Hrs. Ream from 116 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: Hang Ma'ui, Hi
Driller: T. Cunningham  10 Hours  Rig: B-2
Helper: P. Purdy  10 Hours  Gas:  Oil:  Repairs:
Arv. Job: 6'00'  Hv. Job: 4'  10 Hours  Or. No:

Bit-Size: 14  Type: API
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>123</td>
<td>Ptd to Bbl. Cinders, Chunks, T Rock</td>
<td></td>
</tr>
</tbody>
</table>

We broke down the fishing string tool. Pout Tape Sodt get started. Drilling 10:00 AM

We take off the belt guard. Tighter Engine elected.

Signed: T. Cunningham  Date: Sept. 23, 1976
Date: 9-22 - 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: 601
Helper:  Hrs.  Gas:  Oil:  
Helper: P. Purdy  10 Hrs.  Repairs:  
Arv. Job: 6'  10 Hrs.  Job 9'  Or. No.: 

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

I make one Bell To put on the overshot. Tools arrive 9.45 AM, we hook up ladder, feed pipe, cooler etc. We go in with overshot. Bring the tools out from well.
Set tools on tension wrench.

Remarks:

Signed: J. 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: 604
Helper:  
Arv. Job:  

Bit-Size:  
Type:  
Casing-Size:  
in., Length in hole:  
ft., 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></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

I arrived in Hana, Maui at 8:30 am. I checked with Willy Dale express about our fishing tackle for Hana job. I picked up some fishing gear from Wally F. at the Hana Fish. Upon arrival, the job site at 11:30 am, we changed drill cable.

Signed: Troy Cunningham  Date: Sept 21, 1976
**Date:** 9-16-1976  **Job No.:** 24-76  **Hole No.:** 2  **Elevation:** 306 ft.

**Customer:** State Dept. of Land & Water  **Location:** Hanapepe, Kauai

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

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

**Arv. Job:**  **Lv. Job:**  **Remarks:** Repairs

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

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

**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>
</tr>
</thead>
<tbody>
<tr>
<td>122</td>
<td></td>
<td>Npd to hand guy back</td>
</tr>
<tr>
<td>123</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Measurements**

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

**At 3:40 pm our cable broke off at the rope socket we gone. Tools in well.**

**Signed:** T. Cunningham  **Date:** Sept. 16, 1976
Date: 9-15 - 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: 601
Helper:  Hrs.  Gas:  Oil:
Helper: F. Purdy  10 Hrs.  Repairs:
Arv. Job:  Hrs.  Or. No.:
Lv. Job:  Hrs.  

Bit-Size: 1 ½"  Type: 5m
Depth Start: 121 ft., Depth Stop: 127 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>/121</td>
<td>Med. Tuhu guy Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>/122</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

we pick up the Bearing Bolts from the airport 12/20  
Install in Rig, thread 1 drill, Chill & Ream 
drill about 8" of head Rock

Remarks: We have to realign the Bearing Bolts 2 times.

Signed: J. Cunningham  Date: Sept. 15 - 1976
DRILLING LOG

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

Date: 9-14-1976  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: 601
Helper: P. Purdy  10 Hrs.

Bit-Size 14  Type: Stan

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 gray rock -</td>
<td></td>
<td></td>
</tr>
<tr>
<td>121</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

We Ream 14 to 120' but bolt in the sand
Gears being wired. Call the kind for more
returns to gold site & remove the broken paws

Signed: T. Cunningham  Date: Sept. 14, 1976
Date: 9-13-1976  
Job No.: 24-74  
Hole No.: 2  
Elevation: 306 ft.

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

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

Helper: P. Puddy  
10 Hrs.  
Gas:  
Oil:  
Reps:  
Repair:

Arv. Job:  
Lv. Job:  
Hrs.:

Bit-Size: 14  
Type: Star

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

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

Water Levels, Time:

---

We drill only to a few feet.

I arrive Kahului, Maui, 8:30. Pick up 12 sacks of drilling mud from the dock. Arrive job site 11:30 A.M. No helper. Should have sunrise gate until 2 A.M. arrive.

Remarks: We spread most of the afternoon from 11:30 to 12:30 off a little too much.

---

Signed: J. Cunningham  
Date: Sept. 13-1976
Drilling Log

Date: 9-10-1976  Job No: 24-76  Hole No: 2  Elevation: 306 ft.
Customer: State Dept. of Land & Water  Location: Hono, Maui - Hi.

Driller: T. Cunningham  10 Hrs.  Rig: 661
Helper: J. Oakley  10 Hrs.  Gas:  Oil:

Arv. Job: 6  Lw. Job: 4  10 Hrs.  Repairs:

Bit-Size: 14  Type: Star
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 gray rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>120</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We continue ream about 5 1/2 IPS taking off a little

Signed: T. Cunningham  Date: Sept. 10-1976
**DRILLING LOG**

**RUSCOE MOSS COMPANY**

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

---

**Date**: 9-8-1976  
**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**: 601

**Helper**: J. Oakes  
**10 Hrs.**  
**Gas**: -  
**Oil**: -  
**Repairs**: -  
**Or. No.**: -

**Arv. Job**: 6:00  
**Lv. Job**: 4:00  
**10 Hrs.**

**Bit-Size**: 1  
**Type**: Star

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

**Depth Start**: 118 ft.  
**Depth Stop**: 119 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>118</td>
<td>Wed. to hard Gre Grey Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>119</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks**:  
- Ream about 4 Hrs.  
- Very Slow  
- Ream off rock  
- Build up the Bit 4 Times

**Signed**: T. Cunningham  
**Date**: Sept. 9, 1976
Date: 9-8-1976  Job No. 24-26  Hole No. 2-B  Elevation 306 ft.
Customer: State Dept. A  Land & Water  Location: Hana, Maui, HI

Driller: T. Cunningham  10 Hrs.  Rig: 601
Helper: J. Oak  10 Hrs.  Gas:
Helper:  Hrs.  Oil:

Arv. Job 6:  Lv. Job 7:  10 Hrs.  Repairs:
Or. No.  

Bit-Size: 14  Type: Steer
Casing-Size in., Length in hole ft. in., Amt. Perforated ft. in.

Depth Start: 116 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>116</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>

Notes:
- Job is off about one inch. Too much the last 6'. I mean about one half day. Tapping off a little as the hole went more deeper. Evidence of hard rock quit coming down from rope replacement. Haul clean up. Making it easier to measure more accurately.

Remarks:
- Build up the bit thinner

Signed: Ray Cunningham  Date: Sept 8-1976
Date: 9-6-76  
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: 60C

Helper: Jack Oak  
10 Hrs.  
Gas: Oil

Helper:  
Hrs.  
Repairs:

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

Bit Size: 14  
Type: Star

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

Depth Start: 1/2 ft., Depth Stop: 1 1/4 ft., Feet Drilled: 2

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

### Measurements

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Tap</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>Med to Hard gray rocks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 1/4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Build up the K. T. 5 Times — Formation is very hard, making it hard to drill. I have to drill tight line completely drill off, even so the hole head off some towards the ocean. We ream as we drill.

Signed: Cunningham  
Date: Sept 6-1976
Date: 9-3-1976  
Job No.: 24-76  
Hole No.: 2  
Elevation: 306 ft.

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

Driller: T. Cunningham  
Helper: J. Obe  
Arv. Job: 6:  

LV. Job: 4: PM  

Rig: 10 Hrs.  
Gas: 10 Hrs.  
Reparis: 10 Hrs.

Bit-Size: 14  
Casing-Size: 14"  

Type: Stee  
Conductive: Length in hole: 11 ft.  

In., Amt. Perforated: 11 ft.  

Feet Drilled: 2  

Depth Start: 110 ft.  
Depth Stop: 112 ft.  

Water Levels, Time: M  

Remarks: Well build up bit about 4 Time.

Signed: T. Cunningham  
Date: Sept. 3 - 1976
### DRILLING LOG

**RUSCOE MOSS COMPANY**

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

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

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

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

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

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

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

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

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

**Depth Start:** 107 ft.  
**Depth Stop:** 110 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>107</td>
<td>Med-To-Hard Grey Rocks</td>
<td>Rope socket seems to be knocking in quite a bank of material. Rock tender</td>
<td></td>
</tr>
<tr>
<td>110</td>
<td></td>
<td>(I think it had a full hole full of rocks)</td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:** Build up the bit & time.

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

**RUSCOE MOSS COMPANY**

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

---

**Date:** 9-1-76  
**Job No.:** 24-76  
**Hole No.:** 2-13  
**Elevation:** 306 ft.

**Customer:** State Dept. of Land & Water  
**Location:** Hana, Maui - 14

**Driller:** Joe Galbreath  
**Hrs.:** 10 Hrs.  
**Type:** 601

**Driller:** T.J. Cunningham  
**Hrs.:** 10 Hrs.  
**Type:** Oil

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

**Helper:** J. Lynch  
**Hrs.:** 20 Hrs.  
**Type:** Or. No.

---

**Bit-Size:** 14  
**Type:** Ston.

**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., Time: M. ft.

---

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>97</td>
<td>Hard CRM, Rock &amp; Cinder</td>
<td></td>
</tr>
<tr>
<td>103</td>
<td></td>
<td></td>
</tr>
<tr>
<td>103</td>
<td>Med. To hard Grey 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 new Bolting, Antonio drill  
We unload the pump & equipment from Valley Isle Truck  
On job site.

---

**Signed:** Ray Cunningham  
**Date:** Sept. 1 - 1976
Drilling Log

Date: 8-31-1976  Job No: 2476  Hole No: 2-15  Elevation 906 ft.
Customer: State Dept. of Land & Water  Location: Hana, Maui  1-4

Driller: J. Oldham  10 Hrs.  Rig 64X
Driller: J. Cunningham  10 Hrs.  Gas
Helper: P. Purdy  10 Hrs.  Oil
Helper: T. Lynch  10 Hrs.  Repairs
Arv. Job 6'  Lv. Job 2'

Bit-Size: 14"  Type: Star
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>
</tr>
</thead>
<tbody>
<tr>
<td>93</td>
<td>Hard Blue Rock</td>
<td></td>
</tr>
<tr>
<td>95</td>
<td></td>
<td></td>
</tr>
<tr>
<td>95</td>
<td>Reddish Blue Rock &amp; Cinder</td>
<td></td>
</tr>
<tr>
<td>97</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

We Relubricate the Pope Socket

Remarks: Bolt lyrics in the Mud Gear Bearing. Right shift clean up Rig (Grease etc.)
Order new Bolt, first yield in Hana.

Signed: J. Cunningham  Date: Aug 31-1976
**DRILLING LOG**

**RUSCOE MOSS COMPANY**

830 AHUA STREET • HONOLULU, HAWAII 96819
TELEPHONE (808) 839-6866 • 833-1444

Date: 8-30-1976  
Job No: 24-76  
Hole No: D  
Elevation: 308 ft.

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

**Driller:** J. O. Ogawa  
Hrs.: 10

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

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

**Arv. Job:** 6   
Lv. Job: 2:45  
2:0 Hrs.

**Bit-Size:** 4

**Type:** Star

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

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

**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></td>
<td></td>
</tr>
<tr>
<td>93</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Measurements**

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

**Remarks:**  
1. Pick up fuel in Kapalua for Drilled  
2. Check the deck, see if our drill mud came in  
3. Parker, Clancy and Surrency clean up all drilling equipment  
4. Hang up tools for a while  
5. Have one trouble arise  
6. Signed by Driller

**Signed:** Ray Cunningham  
**Date:** Aug. 30, 1976
**Drilling Log**

- **Date:** Aug 27, 1974
- **Job No.:** Ahea
- **Location:** Across High School

**Driller:** Jimmy Bowen  
**Helper:** [Name not legible]  
**Arv. Job:** [Name not legible]

**Bit-Size:**  
**Type:**  
**Casing-Size:** in., **Length in hole:** ft., **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></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Worked on hole until Breakfast called.</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Dad said to back fill and start drilling so we did. Measurement 2 3/8 - 2 3/8 85 ft. Worked on casting wall off and fill with metal.</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>5&quot; out of plumb.</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:**

**Signed:**  
**Date:** Aug 27, 1974

---

**Drilling Log**

- **Date:** Aug 27, 1974
- **Job No.:** Ahea
- **Location:** Across High School

**Driller:** Jimmy Bowen  
**Helper:** [Name not legible]  
**Arv. Job:** [Name not legible]

**Bit-Size:**  
**Type:**  
**Casing-Size:** in., **Length in hole:** ft., **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></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Worked on hole until Breakfast called.</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Dad said to back fill and start drilling so we did. Measurement 2 3/8 - 2 3/8 85 ft. Worked on casting wall off and fill with metal.</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>5&quot; out of plumb.</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:**

**Signed:**  
**Date:** Aug 27, 1974

---
Date: Aug 26 1976

Customer: Mana Well
Location: Mana

Driller: Jerry Brown
Rig:
10 Hrs.

Helper: Brad Pierce
Gas:
Oil:
10 Hrs.

Arv. Job:
Lv. Job:
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.

---

Remarks:

Want to rig John had.

---

Signed: Jerry Brown
Date: 19
**Date**: 8-26-76  
**Job No.**: 2976  
**Hole No.**: 2  
**Elevation**: 306 ft.

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

**Rig**: 601

**Driller**: T. Cunningham  
**Hrs.**: 10  
**Type**: Star

**Helper**: D. Perry  
**Hrs.**: 10  
**Casing-Size**: in., Length in hole: ft. in., Amt. Perforated: ft. in.

**Helper**: T. Lynch  
**Hrs.**: 20  
**Depth Start**: 90 ft., Depth Stop: 94 ft., Feet Drilled: 4

**Arv. Job**: 6 AM  
**Lv. Job**: 2 AM

**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>90</td>
<td>Hard Shale Rock</td>
<td></td>
</tr>
<tr>
<td>94</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks**:  
- Start Break as hill Cable at 930, Debuit the Sockets

**Signed**: T. Cunningham  
**Date**: Aug. 26, 1976
**Date:** 8-25-1976  
**Job No.:** 29-76  
**Hole No.:** 2  
**Elevation:** 306 ft.  
**Customer:** State Dept. of Land & Water  
**Location:** Hana, Maui  

**Driller:** J. Oakley  
**Hrs.:** 10 Hrs.  
**Rig:** 60c  

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

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

**Arv. Job:** 6'  
**Lv. Job:** 2:15 AM  
**Or. No.:**  

**Bit-Size:** 7/4  
**Type:** Steel  

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

**Depth Start:** 87 ft., Depth Stop: 20 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>87</td>
<td>Hard Blue Rock</td>
<td>Build up the bit after cutting,</td>
<td></td>
</tr>
<tr>
<td>90</td>
<td></td>
<td>+ Drastically reduced.</td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:** Casing some of rock & calcar,  
have to run down hole, some reaming, hole try to off some

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

8-24-1976  Job No. 24-76  Hole No. 2  Elevation 706 ft.

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

Driller: J. O'Keefe  10 Hrs.  Rig: 60c
Helper: P. Purdy  10 Hrs.
Helper: T. Lynch  10 Hrs.

Bit-Size 14  Type: Star


Depth Start 83 ft., Depth Stop 87 ft., Feet Drilled 4

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>83</td>
<td>Hard Blue Rock</td>
<td>Build up bit hung 4.005 feet each shift</td>
</tr>
<tr>
<td>87</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Some Case in Boulder & Cinder, Boulder hung up but in the hole

Signed: J. O'Keefe  Date: Aug. 24, 1976
Date: 8-23-1976  Job No.: 2476  Hole No.: 2  Elevation: 706 ft.

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

Driller: T. Oakes  10 Hrs.  Rig: 60
Driller: T. Cunningham  10 Hrs.  Gas:  Oil
Helper: P. Purdy  10 Hrs.  Oil:  Repairs
Helper: L. Lynch  20 Hrs.  Or. No.:

Arv. Job: 6:00  Lv. Job: 2:00 AM

Bit-Size: 14  Type: 


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

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>65</td>
<td>Radio Fishponds &amp; Ridge</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80</td>
<td>Hard Blue Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>83</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We Babbit on the Rope Socket

Signed: T. Cunningham  Date: Aug. 23-1976
### DRILLING LOG

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

**Customer**: State Dept. of Land & Water  
**Location**: Hana, Maui  
**Driller**: T. Oak  
**Driller Hrs.**: 10  
**Rig**: 60C  
**Driller**: T. Cunningham  
**Driller Hrs.**: 10  
**Gas**:  
**Oil**:  
**Helper**: P. Purdy  
**Helper Hrs.**: 10  
**Repairs**:  
**Helper**: T. Lynch  
**Helper Hrs.**: 10  
**Or. No.**:  

**Arv. Job**: 6:  
**Lv. Job**: 2:1m  
**20 Hrs.**

**Bit-Size**: 4"  
**Type**: Star  

**Casing-Size**: in., Length in hole ft., Amt. Perforated ft., in.  
**Depth Start**: 45 ft., Depth Stop 65 ft., Feet Drilled 20  

**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>45</td>
<td>Hard Grey Rock, Soft Shells</td>
<td></td>
</tr>
<tr>
<td>63</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>Rock in Brown Cinder &amp; Rode</td>
<td></td>
</tr>
</tbody>
</table>

**Remarks**: We put on the jam.

**Signed**: T. Cunningham  
**Date**: Aug 22, 1976
**Date:** 8-28-1976  
**Job No.:** 2476  
**Hole No.:** 2  
**Elevation:** 306 ft.

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

**Driller:** J. Oak  
**Helper:** J. Lynch

**Rig:** 601  
**Gas:** Oil  
**Repairs:**

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

**Bit-Size:** 4

**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>Formaion</th>
<th>Remarks</th>
<th>Top A</th>
<th>Top B</th>
</tr>
</thead>
<tbody>
<tr>
<td>75</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Ratfill the hole some to 14" foot.**

**Hole off 4½ inch.**

**Remarks:**

**Signed:** Ray Cunningham  
**Date:** Aug 28 1976
**DRILLING LOG**

Date: **8-27-1976**  
Job No: **24-76**  
Location: **Hana, Maui, Hi.**

<table>
<thead>
<tr>
<th>Customer</th>
<th>State Dept. of Land + Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driller</td>
<td>J. Goets</td>
</tr>
<tr>
<td>Driller</td>
<td>10 Hrs.</td>
</tr>
<tr>
<td>Helper</td>
<td>T. Cunningham</td>
</tr>
<tr>
<td>Helper</td>
<td>10 Hrs.</td>
</tr>
<tr>
<td>Helper</td>
<td>T. Lynch</td>
</tr>
<tr>
<td>Helper</td>
<td>10 Hrs.</td>
</tr>
<tr>
<td>Arv. Job 6</td>
<td>20 Hrs.</td>
</tr>
<tr>
<td>Arv. Job 2</td>
<td>20 Hrs.</td>
</tr>
<tr>
<td>Bit-Size</td>
<td>4</td>
</tr>
<tr>
<td>Type</td>
<td>PAER</td>
</tr>
<tr>
<td>Casing-Size</td>
<td>10 in.</td>
</tr>
<tr>
<td>Length in hole</td>
<td>60 ft.</td>
</tr>
<tr>
<td>Amt. Perforated</td>
<td>30 ft.</td>
</tr>
<tr>
<td>Depth Start</td>
<td>94 ft.</td>
</tr>
<tr>
<td>Depth Stop</td>
<td>94 ft.</td>
</tr>
<tr>
<td>Feet Drilled</td>
<td>30 ft.</td>
</tr>
<tr>
<td>Water Levels, M</td>
<td>10 ft.</td>
</tr>
<tr>
<td>Time</td>
<td>10 ft.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>94</td>
<td>Hard Blue Rock</td>
<td></td>
</tr>
<tr>
<td>95</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Measurements**

**Remarks:** Hole measure off about 4 ft. at bottom

Signed: **T. Cunningham**  
Date: **Aug 27, 1976**
Date: 8-21-1976  Job No. 24-76  Hole No. 2  Elevation 306 ft.
Customer: State Dept. of Land & Water  Location: Hanu, Maui, HI
Driller: H. Okada  10 hrs.
Driller: T. Cunningham  10 hrs.
Helper: P. Purdy  10 hrs.
Helper: T. Foster  20 hrs.
Arv. Job  1st, Lv. Job 2

Bit-Size: 14  Type: Star
Depth Start: 30 ft., Depth Stop: 45 ft., Feet Drilled: 15

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

Depth  Formations  Remarks  Top

30  Hard Grey Rock, Soft Shale
45

Remarks: Have to redrill about a foot of the hole as we will go, due to rocks coming in on Dr. after drilling them.

Signed: T. Cunningham  Date: Aug 21, 1976
Date: 8-20-1976
Job No.: 24-76
Hole No.: 2
Elevation: 306 ft.
Customer: State Dept. of Land & Water
Location: Hana, Maui - HI

Driver: J. Oaks
Driller: T. Cunningham
Helper: P. Purdy
Helper: T. Lynch
Arv. Job: 6
Lv. Job: 2

Rig: 60C
Gas:  
Oil:  
Repaired:  

Depth Start: 22 ft.
Depth Stop: 30 ft.
Feet Drilled: 8

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

Bit-Size: 4
Type: Star

Depth
Formation
Remarks
Top

22
Hard Grey Rock
Soft Shale

20

A

B


Signed: J. Cunningham
Date: Aug. 20 - 1976
### Drilling Log

**Ruscoe Moss Company**

830 Ahua Street • Honolulu, Hawaii 96819
Telephone (808) 539-6888 • 333-1444

**Date:** 8-19-1976  
**Job No.:** 24-76  
**Hole No.:** 2  
**Elevation:** 306 ft.

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

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

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

**Helper:** J. Lynch  
**Repairs:**

**Arv. Job:** 6’  
**Lv. Job:** 20  
**Or. No.:**

<table>
<thead>
<tr>
<th>Bit-Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>Stkr</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>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Large hard sand, Soft shale</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<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>

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

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

**Remarks:**
- We reset the 18" - 2 1/2 ft. of conductor - Big hole at Top.
- Fill in around conductor & Padle P Dawn.

Signed: Troy Cunningham  
Date: Aug 19, 1976
Date: 8-18-1976  Job No. 24-76  Hole No. 2  Elevation 306 ft.
Customer: State Dept. of Land & Water  Location: Hana, Maui, HI.
Driller: J. Oaks  10 Hrs.  Rig 609
Helper: P. Purdy  10 Hrs.
Helper: T. Lynch  10 Hrs.

Blk-Size: 14  Type: Sp
Depth Start: 4 ft., Depth Stop: 11 ft., Feet Drilled: 7
Water Levels, Time: M ft., Time: M ft.

Depth  Formation  Remarks  Top
4/11  Large hard boulder with soft sheen.

Measurements

A  B

Remarks: Boulders came in here to re-dill from about 8 ft. till
fix conductor in. (But no good) Came around 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: J. W. Oaks  
10 Hrs.  
Rig: 604

Helper: P. Purdy  
10 Hrs.  
Gas: Oil

Helper: T. Lynch  
10 Hrs.  
Repairs

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

Bit Size: 14  
Type: Star

Casing Size:  
Length in hole:  
Amt. Perforated:  

Depth Start: 0 ft.  
Depth Stop: 4 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>0</td>
<td>Loose Lava</td>
<td>We got the Hana Ranch Truck &amp; Driver to move our Rig onto new well site then we raise the Rig (Set up the Rig) and set up tools start the Stump mill down to about 35 ft.</td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

Signed: J. W. Cunningham  
Date: Aug 17-1976