Date: Jan-15 1976
Job No.: Hole No.: Elevation: ft.
Customer: Hanu Ranch
Location: Hanu Maui

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

Helper: D. Imai
10 Hrs.
Gas: Oil

Arv. Job: Lv. Job:

Bit-Size:
Type:


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

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

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Measurements taken by:
Stated Water Was:

Depth of well - 286.63' → 4600-02
Water level - 264.43'

Elev. Top of concrete block:
264.34'

Waited for tractive from Hanu Ranch
Moved out rig to begin boring with
tractor - Towed rig with power supply to
next job - Meet staff & water supply

Remarks: Officials on site - they had already taken deep well & water levels & depth of job with them - showed them manual well - special gear - to level second round well - moved in all drill tools & test pump before rig could be brought in -

Signed: Leli
Date: Jan-15 1976
**DRILLING LOG**

RUSCOE MOSS COMPANY

830 AHUA STREET * HONOLULU, HAWAII 96819
TELEPHONE (808) 839-6899 * 833-1444

Date: Jan-14 1976  Job No. Hole No. Elevation: ft.
Customer: Hanak Ranch  Location: Hanalani Maui

Driller: Zakhe  10 Hrs. Rig: COL
Helper: A. Namer  10 Hrs. Gas: Oil
Helper:  Hrs. Repairs

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

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

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

Measurements

Finished Unloading @ Red Swamp -began back, loaded more equip & hauled to next job-

Remarks: Took down rig - put on fifth wheel - loaded all of a pump column & blocking on Prowler-

Signed:  Date: Jan-14 1976
Date: Jan-13 1976, Job No., Hole No., Elevation ft.
Customer: Honolulu Ranch, Location: Honolulu, Hawaii

Driller: J. Leslie, 11 Hrs., Rig: Oil
Helper: A. Kainoa, 11 Hrs., Gas: Oil
Helper:—, Hrs., Repairs:—
Arv. Job, Lv. Job, Or. No., 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>
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</table>

- Wet & sandy - finally
- got "dummy" close
- put in 63' of 2" pipe
- enough to drop in
- painted & bags over cement
- with rig - hole up
- send in annular space
- dummy - measured in-
- started moving out - tore everything
- went to 420', dummy out of shuck, tore down shuck
- went in, not very
- loaded diesel engine, welder, big tool
- smoothly - called
- black, all heaviest part of equip.
- rained - got out of
- heavy shower came down-

Remarks:
- Honolulu dummy
- held oil strake coming out - got truck
- threw over plate, over casing out to pond in Red Simon's job
- with 3" coupling & 3" plug
- standard unloading

Signed: J. Leslie, Date: Jan-13 1976
Date: Jan-12 1976  
Job No.:  
Hole No.:  
Elevation: ft.  
Customer: Haana Ranch  
Location: Haana, Maui  

Driller: S. Leslie  
10 Hrs.  
Rig: 602  
Helper: A. Kaimo  
10 Hrs.  
Gas:  
Oil:  
Repairs:  
Arv. Job:  
Lv. Job:  
Hrs.:  
Or. No.:  

Bit Size:  
Type:  
Casing Size: in., Length in hole: ft., Depth Stop: ft., Feet Drilled:  
Depth Start: ft., Depth Stop: ft., Feet Drilled:  
Water Levels, Time: M ft., Time: M ft.  

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</table>

Remarks:  
Some 7½" race to fix up pump for rig on next job. Picked up "dummy" on Valley Job. Expired. Returned to town. Unloaded several ½" steel suitcases. Pick up some things we needed. Loaded the "dummy" to job site.  

Signed:  
Date: Jan-14 1976
**Date:** Jan-10 1976  
**Job No.:**  
**Hole No.:**  
**Elevation:** ft.  
**Customer:** Hans Ranch  
**Location:** Hans Maui  

**Driller:** T. Kashe  
**10 Hrs.**  
**Rig:** CA  

**Helper:** D. Kinnes  
**10 Hrs.**  
**Gas:**  
**Oil:**  
**Repairs:**  

**Arr. Job:**  
**L. Job:**  
**2 Hrs.**  
**Or. No.:**  

**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.  

---

**Depth** | **Formation** | **Remarks** | **Top**
---|---|---|---

---

**Finishing pulling out 4" test pump.**

**Remarks:** Stacking & preparing test pump to move out.  
Turn off kid's shum.

**Signed:** John Dalli  
**Date:** Jan-10 1976
### Drilling Log

**Date:** Jan. 9, 1976  
**Job No.:**  
**Hole No.:**  
**Elevation:**  
**Customer:** Hanu Ranch  
**Location:** Hanu, Maui

<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>D. Leslie</td>
<td>P. Kainoa</td>
<td>10 Hrs.</td>
<td>5 Hrs.</td>
<td>5 Hrs.</td>
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<td>5 Hrs.</td>
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<th>Bit-Size</th>
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<th>Casing-Size</th>
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<th>Water Levels, Time</th>
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### Remarks:

*Finished 72 hr test @ 7:00 a.m. - Kept recorder going till 10:00 a.m.*  
*Started dismantling everything on surface*  
*Started pulling mud pump & equipment*.

**Signed:** Tim Valc  
**Date:** Jan. 8, 1976
DRILLING LOG

Date: Jan-8 1976  Job No. Hole No. Elevation ft.
Customer: Hanna Ranch  Location: Hanna, Maui

Driller: Leslie  12 Hrs. Rig
Helper: L. Kimon  12 Hrs. Gas
Helper
Arv. Job  lv. Job  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.

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<th>Depth</th>
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Measurements

A  B

Remarks: Pumping continuously @ 272 GPM- Taking readings every 1/4 hr.

Signed: "Jim" Date: Jan-8 1976
### Drilling Log

Date: Jan 7, 1974  
Job No.:  
Hole No.:  
Elevation: ft.  

**Customer:** Ho'oulu Ranch  
**Location:** Ho'oulu, Maui  

**Driller:** J. Leslie  
**12 Hrs.**  
**Rig:**  
**Helper:** P. Zainoa  
**12 Hrs.**  
**Gas:**  
**Oil:**  
**Help:**  
**Hrs.**  
**Repairs:**  
**Hrs.**  
**Or. No.:**

**Arr. 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.

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**Measurements**

**Remarks:** Pumps continuously @ 872 G.P.M - taking readings every 1/2 hr.

**Signed:** J. Leslie  
**Date:** Jan 7, 1974.
**DRILLING LOG**

**RUSCOE MOSS COMPANY**

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

---

**Date:** Jan-6 1976  
**Job No.:**  
**Hole No.:**  
**Elevation:** ft.

**Customer:** Hans Ranch  
**Location:** Maui

**Driller:** J. Leslie 7:00AM-7:00PM 12 Hrs.  
**Rig:**  
**Helper:** K. Hino 7:00AM-7:00PM 18 Hrs.  
**Gas:**  
**Oil:**  
**Repairs:**  
**Or. No.:**

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

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**Measurements**

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**Remarks:**  
*Started test at 7:00 a.m. - Haul to Hans Ranch Garage*  
*Picked up 360 lbs. diesel fuel - Weather still bad - using paper*  

---

**Signed:** J. Leslie  
**Date:** Jan-6 1976
Date Jan-5 1976 Job No. Hole No. Elevation ft.
Customer Hanu Ranch Location Hanu, Maui
Driller S. Leshe 10 Hrs. Rig
Helper A. Kaiona 10 Hrs. Gas
Helper Hrs. Repairs
Bit-Size Type
Casing-Size in., Length in hole ft. in., Amt. Perforated ft. in.
Depth Start ft., Depth Stop ft., Feet Drilled
Water Levels, Time M ft., Time M ft.

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Remarks: Picked up gasoline for gas in Kake Hulu - had to change. Bad weather couldn't get Datsun up to job - used Powerboiler to get it up.

Job - worked on engine - put £ new fan belts on - got all set up to run test - engines didn't show up - didn't start test.

Signed Lance Leslie Date Jan-5 1976
Date 12-20 1975  Job No 24-75  Hole No  Elevation 401 ft.
Customer Hung Ranch Location Hana Maui HI
Driller Ti Cunningham 10 Hrs. Rig 601
Helper R. Lopez 10 Hrs. Gas Oil
Arv. Job  Lv. Job 

Bit-Size Type
Casing-Size 8 1/2 in. Length in hole 426 ft in. Amt. Perforated 32 ft in.
Depth Start ft. Depth Stop ft. Feet Drilled
Water Levels, Time M ft. Time M ft.

Depth
Formation
Remarks

---

we hook up the Pump Pump a little over an hour Pump at 230 G.P.M Run out of Power

[i

draw down 0 - 0 water completely clear after a couple of minutes.

---

Remarks:

Signed: Ti Cunningham  Date: Dec 20 - 1975
Date: 12-19-75  Job No: 24-75  Hole No:  Elevation: 201 ft.
Customer: Hana Ranch  Location: Hana, Maui, Hi.
Driller: T. Cunningham  10 Hrs.  Rig: 601
Helper: R. Lopez  10 Hrs.

Bit-Size:  Type:
Casing-Size: 10 in., Length in hole: 426 ft.  in., Amt. Perforated: 3 ft.  in.
Depth Start:  ft., Depth Stop:  ft., Feet Drilled:
Water Levels, Time:  M  ft., Time:  M  ft.

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<td></td>
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<td>We set the 5' length of 4&quot; Pump</td>
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<td>4/10 ft. &amp; Air line</td>
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</table>

Remarks:

Signed: T. Cunningham  Date: Dec. 19-1975
DRILLING LOG

Date: 12-18-1975  Job No.: 2402  Hole No.: Elevation: ft.
Customer: Fred Sam & Harri Panl  Location: Harri Maui HI
Driller: Cunningham  10 Hrs.  Rig: 600
Helper: R. Lopez  10 Hrs.  Repairs:

Bit-Size  Type
Depth Start:  ft., Depth Stop:  ft., Feet Drilled:  
Water Levels, Time:  M 395 ft., Time:  M  ft.

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<tr>
<th>Depth</th>
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<th>Remarks</th>
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<tbody>
<tr>
<td></td>
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<td>We pull out all the 4&quot; pump &amp; equipment from the County well (Fred Sam job) about 27 ft. of Pump.</td>
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<tr>
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<td>Hand all the pump &amp; equipment up to and down to Harri Olander, Clean some of the Pump.</td>
</tr>
</tbody>
</table>

Signed: Troy Cunningham  Date: Dec. 18 - 1975
Date: 12-17-1975  Job No: 24-75  Hole No. Elevation: 401 ft.
Customer: Red Sam & Hana Ranch  Location: Hana, Maui, Hi.

Driller: T. Cunningham  10 Hrs.  Rig: 601
Helper: R. Lopez  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.

<table>
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</table>

We move some pumping equipment from the county well (Red Sam) up to our job Hana Ranch.
We put out a larger line onto the wrench truck.

Then we wait on Red Sam, finish pumping.

Signed: T. Cunningham  Date: Dec. 17, 1975
Date: Dec. 16, 1975  
Job No.: 24-75  
Location: Hana, Maui, HI  
Elevation: 401 ft.

Customer: Hana Ranch  
Driller: T. Cunningham  
Hrs.: 10  
Rig: 60C  
Helper: P. Lopez  
Hrs.: 10  
Gas:  
Oil:  
Repairs:  
Or. No.:  

Bit-Size  
Type:  

Casing-Size 10 in., Length in hole 426 ft., Amt. Perforated 32 ft. in.  
Depth Start:  
Depth Stop:  
Feet Drilled:  

Water Levels, Time: M: 7:35, Time: M:  

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<tr>
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<td>WE finish set on the 10&quot; Casing, Total set into the well 426 1/2 ft. Casing limit at 1 1/4 ft. above ground level.</td>
</tr>
</tbody>
</table>

|       |           | Casing set at 425 ft from ground level.  |
|       |           |Stock size 75/8 x 9"  |

Remarks: We went down to the bottom of well within the well, ran the bit some to settle the Clays, down, couldn't bail out any material.

Signed: T. Cunningham  
Date: Dec. 16, 1975
Date 12-15-1975   Job No. 24-75   Hole No. Location   Hana Ranch   Hana, Maui
Customer    Driller   Cunningham   10 Hrs.   Rig 601
Helper   Helper   Lopez   10 Hrs.   Repairs

Bit-Size   Type
Casing-Size 10 in., Length in hole 187 ft. in., Amt. Perforated 32 ft. in.
Depth Start ft., Depth Stop ft., Feet Drilled
Water Levels, Time M ft., Time M ft.

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We Pick up 2 - 8FT Joints of 10" Perforated Casing from Hana Ranch per Freight with Job 1. Set 2 in about 182 1/4 FT. of 10" Casing, Including 32' FT Perforated Casing.

Signed  Ted Cunningham   Date  Dec. 15 1975
Drilling Log

Date: Dec. 12, 1975
Job No.: 24-75
Hole No.: 4-75
Elevation: 261 ft.

Customer: Indiana
Driller: Cunningham
Helper: Lopez

4 Hrs. Job
4 Hrs. Helper

Rig No.: 60

Gas
Oil
Repairs

Arrv. Job
Lv. Job

Bit Size
Type


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

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

Measurements

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<tbody>
<tr>
<td></td>
<td>Waiting on Casing.</td>
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We Change Some Time on The Perforage

Remarks: Leave for Home at 6:25 pm

Signed: Cunningham Date Dec. 12, 1975
**DRILLING LOG**

**RUSCOE MOSS COMPANY**

830 AHUA STREET · HONOLULU, HAWAII 96819
TELEPHONE (808) 539-6885 · 833-1444

**Date:** 12-11-1975  
**Job No.:** 24-25  
**Hole No.:**  
**Elevation:** 401 ft.

**Customer:**  
**Location:** Hana, Maui, HI

**Driller:** T. Cunningham  
**Hrs.:** 8

**Helper:** L. Lopez  
**Hrs.:** 4

**Rig:** 60

**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.**  
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</tr>
</tbody>
</table>

*We wait for some perforated casing to come in.*

**Remarks:**

---

**Signed:** T. Cunningham  
**Date:** Dec. 11, 1975
**DRILLING LOG**

**RUSCOE MOSS COMPANY**

830 AHU STREET * HONOLULU, HAWAII 96819
TELEPHONE (808) 839-6288 * 833-1444

---

**Date:** 12-10-1975  **Job No.:** 24-75  **Hole No.:** 401  **Elevation:** ft.

**Customer:** Hope Ranch  **Location:** Hana, Maui, Hi.

**Driller:** Cunningham  **Rig:** 60C

**Helper:** R. Lopez  **Gas:** Oil  **Oil:**

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

---

**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>2 try one solid Stone grade well</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Then we finish bend the casing end</td>
<td>clean off of it</td>
</tr>
</tbody>
</table>

---

**Remarks:**

---

**Signed:** Tony Cunningham  **Date:** Dec, 10 - 1975
Date: 12-9-75  Job No: 24-75  Hole No:  Elevation: 401 ft.
Driller: T. Cunningham  10 Hrs.  Rig: 60c
Helper: R. Lopez  10 Hrs.  Gas:  Oil:  Gas
Arv. Job:  Lv. Job:  Repairs:  Or. No: 

Bit-Size:  Type:  Measurements:
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>
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</tbody>
</table>

we make trip into Hana after one
soon of gas and to job site, Hana after
Gas of Pump

return to Hana Job, we start breaking the closing
caps, we wear out all of our
guide dike.

Remarks: Rain most of the afternoon

Signed by T. Cunningham  Date: Dec. 9, 1975
Date: 12-8-1975  Job No. 24-75  Hole No.  Elevation 901 ft.
Customer: Hana Ranch  Location: Hana, Maui, HI
Driller: T. Cunningham  Hrs.  Rig: BOC
Helper: P. Lopez  10 Hrs.  Gas: Oil
Arv. Job  Lv. Job  Hrs.  Repairs

Bit-Size  Type
Casing-Size  in., Length in hole 0 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></td>
<td></td>
<td>we Pull out all of the 10&quot; Casing</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>we check the hole after removing the casing</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>we have maybe one set of silt</td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

Signed: Ray Cunningham  Date: Dec. 8-1975
<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>425</td>
<td>Hash Rock</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>426</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

We did not drill the last 20 ft. Hard to make any hole we try to run the casing 6" neck hole.

We try put in some gravel around inside of casing.

We gravel pack 4 ft. down to the bottom of the well.

Signed: T. Cunningham
Date: Dec. 6, 1975

Customer: Hana Ranch
Location: Hana, Maui
Date: December 5, 1975
Job No.: 24-75
Hole No.: 401
Elevation: 401 ft.

Customer: Hana Ranch
Location: Hana Ranch

Driller: J. Cunningham
10 Hrs.
Rig: 600

Helper: J. Lopez
10 Hrs.
Gas: Oil


Bit-Size: 9
Type: Slotted


Depth Start: 420 ft., Depth Stop: 425 ft., Feet Drilled: 5

Water Levels, Time: 495 ft., Time: 5 ft.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>420</td>
<td>Black</td>
<td></td>
<td></td>
</tr>
<tr>
<td>425</td>
<td>Rock</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We try to help take off one load of gravel, but the truck stuck onessler 1/2 load.

Signed: J. Cunningham
Date: December 5, 1975
**Drilling Log**

**RUSCOE MOSS COMPANY**

850 AHU STREET • HONOLULU, HAWAII 96818
TELEPHONE (808) 839-6585 • 833-1444

---

**Date:** 12-4-1975  
**Job No.:** 24-75  
**Hole No.:**   
**Elevation:** 401 ft.

**Customer:** Hana, Hawaii  
**Location:** Hana, Maui, HI

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

**Helper:** R. Lopez  
**10 Hrs.**  
**Gas:**  
**Oil:**  
**Repairs:**

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

**Bit-Size:** 9  
**Type:** Inch

**Casing-Size:** 10 in., **Length in hole:** 418 ft.  
**in., Amt. Perforated:** 16  
**ft.**

**Depth Start:**  
**Depth Stop:**  
**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 Made Trip To Hana, Get One Small 1” Bola. Wait For And See Job Clear Before Returning To Hana Job Site.**

---

**Remarks:** We Pick Up Oxygen & Acetylene in Hana.

---

**Signed:** T. Cunningham  
**Date:** Dec. 4-1975
DRILLING LOG

Date: 12-3-1975  Job No. 24-75  Hole No. 401  Elevation: 401 ft.
Customer: Hana Ranch  Location: Hana, Maui, HI

Driller: T. Cunningham  10 Hrs.  Rig: 604
Helper: R. Lopez  10 Hrs.  Gas:  Oil:


Bit-Size: 9  Type:  Legend
Depth Start: 470 ft.  Depth Stop: 520 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>
</tr>
</thead>
<tbody>
<tr>
<td>470</td>
<td>Black Rock</td>
<td></td>
</tr>
<tr>
<td>520</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Drilling: don't make any mud - Cannot bail out any material. Hand drilling

Remarks:

Signed: T. Cunningham  Date: Dec. 3, 1975
**DRILLING LOG**

**RUSCOE MOSS COMPANY**

830 AHUA STREET • HONOLULU, HAWAII 96819
TELEPHONE (808) 835-5588 • 833-1444

Date 12-2-1975 | Job No. 24-75 | Hole No. | Elevation, 701 ft.
Customer Hana Punga | Location Hana, Maui, HI

Driller J. Cunningham | 10 Hrs. | Rig 60L
Helper B. Lopez | 10 Hrs. | Gas. Oil


Bit-Size 9 | Type |
Casing-Size 10 in., Length in hole 418 ft. in., Amt. Perforated 16 ft. in.
Depth Start 415 ft., Depth Stop 518 ft., Feet Drilled 3

Water Levels, Time M 38.5 ft., Time M ft.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>415</td>
<td>Black Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>418</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

WE finish 10” I.D. casing
Total casing set in the well 418 ft.
Size 34 x 84.

WE put on the 9” Ht. Start drill
Casing follow down about 2 ft.
If I well on a couple bugs in casing To

We held up the casing

(2 Put the bit bugs down to see nicks)

Signed Ray Cunningham | Date Dec. 2 - 1975
Date: 12-1-1975  Job No: 24-75  Hole No:  Elevation: 401 ft.
Customer: Hana Ranch  Location: Hana, Maui, HI.
Driller: T. Cunningham  10 Hrs.  Rig: 604
Helper: R. Lopez  10 Hrs.  Repairs
Arv. Job:  Lvs. Job:  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>we arrive Maui: 8:30 am.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>go to job site  Set in about 153 ft of</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>10&quot; casing  that have third time wiring</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>due to of rain most of the day</td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

Signed: Troy Cunningham  Date: Dec 1st 1975
Date: 11-26-1975  Job No.: 24-75  Hole No.:  
Customer: Kane Ranch  Location: Kihei, Maui, Hi.

Driller: T. Cunningham  Hrs.: 8  Rig:  
Helper:   Hrs.:  Gas:  Oil:  
Helper:   Hrs.:  Repairs:  

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

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

Placed out.

Remarks:  

Signed: T. Cunningham  Date: 12-26-1975
Date: 11-25-1975  Job No: 24-75  Hole No: 401 ft
Customer: Hana Ranch  Location: Hana, Maui
Driller: T. Cunningham  Hrs: 8  Rig: 606
Helper: R. Lopez  Hrs: 8  Gas:  Oil
Arv. Job:  Lv. Job:  Hrs:  Or. No: 

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

<table>
<thead>
<tr>
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</thead>
</table>

I go to the Ranch Shop get one truck driver to come out to job site, we give the truck long head of casing down to the top of rig, very slowly, unload last casing with the bench truck.

Remarks: We shut the job down on account of bad weather.

Signed: T. Cunningham  Date: Nov. 25, 1975
Date: 11-24-1975  
Job No.: 24-75  
Hole No.:  
Elevation: 401 ft.  
Customer: Hana Beach  
Location: Hana, Maui, Hi.  

Driller: J. Cunningham  
8 Hrs.  
Rig No.:  
Helper:  
Hrs.:  
Gas:  
Oil:  
Helper: R. Lopez  
8 Hrs.  
Repairs:  
Arv. Job:  
Lv. Job:  
Or. No.:  

Bit-Size:  
Type:  
Depth Start: ______ ft., Depth Stop: ______ ft., Feet Drilled: ______ 

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

We check water level & make chloride test on water sample.  

Remarks:  
We took water sample for laboratory, we try pulling the load up to job site with 1/4 tank full & which to drive with truck, it's impossible to do so. Finally take the casing in with a Cat bale in the day.  

Signed: J. Cunningham  
Date: Nov. 24 - 1975
Date: 11-22-1925  Job No: 24-75  Hole No: ______  Elevation: 901 ft.
Customer: Hana Ranch  Location: Hana, Maui, Hi
Driller: T. Cunningham 8 Hrs.  Rig: EOC
Helper: J. Lopez 8 Hrs.  Gas: Oil

Bit-Size: ______  Type: ______
Depth Start: ______ ft., Depth Stop: ______ ft., Feet Drilled: ______
WATER LEVELS, TIME: M 39.6 ft., TIME: M ______ ft.

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

"we help unload the 10" Casing to day, we load the Casing gate - Hana Ranch, 10-19, we go back in Chicago to take up to see John S. good Monday"

Remarks: Plenty rain, John S. very wet & muddy.

Signed: T. Cunningham  Date: 11-22-1925
Date 11-21-72  Job No. 24-72  Hole No.  Hana Ranch  Location Hana, Maui - Hi.

Driller T. Cunningham  8 Hrs.  Rig 601
Helper R. Lopez  8 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>
</table>

We made Trip To Kahului to pick up the 10" Spider Jet ship from the dock.

See Mr. Geiger and have them pick up the cement tank of 2" pipe bring to Hana along with the casing.

Remarks:

Signed T. Cunningham  Date 11-21-72
Date: 11-20-1975  
Job No.: 24-75  
Hole No.:  
Elevation: 701 ft.  

Customer:  

Driller: C. Cunningham  
8 Hrs.  
Rig: G04  

Helper: R. Lopez  
8 Hrs.  
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 39  

Measurements  

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

Remarks:  

We check Red Sam for土 the Pump  

I call Son for concrete, they are to bring  

8' Casing down Saturday.  

We take off the 14' test Tiny tail out some  

material.  

Signed: C. Cunningham  
Date: Nov. 20, 1975
Date 11-19 1975  Job No. 24-75  Hole No.  Elevation 401 ft.
Customer Han Leo Location Han Leo, 76
Driller I. Cunningham 10 Hrs. Rig 604
Helper R. Lopez 10 Hrs.

Bit-Size 14 Type Star
Casing-Size in., Length in hole ft. in., Amt. Perforated ft. in.
Depth Start 4 14 ft., Depth Stop 4 14 ft., Feet Drilled 1

Water Levels, Time M 396 ft., Time M  ft.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 14</td>
<td>Hard Gray Lava Rock with Soft Breccia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 15</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We tried to break the bit at 4 14 once it was very hard to drill any material out of the well.
Call on 70 Honolulu (hi) without any casing.

Signed I. Cunningham  Date 11-19 1975
Date: 11-18 - 1975
Job No.: 24-75
Hole No.: 
Elevation: 451 ft.

Customer: Hana Ranch
Location: Hana, Maui, Hi.

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

Helper: R. Lopez
10 Hrs.
Gas: Oil

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

Bit-Size: 1¼
Type: Star


Depth Start: 410 ft., Depth Stop: 414 ft., Feet Drilled: 4


<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Measurements</th>
</tr>
</thead>
<tbody>
<tr>
<td>410</td>
<td>Hard gray rock, rock with soft shale</td>
<td></td>
<td></td>
</tr>
<tr>
<td>414</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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<td></td>
<td></td>
<td></td>
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</tbody>
</table>

Remarks: We don't make any mud, drilling and drilling hand to tail out the cut off material, we bail out on the J rope socket.

Signed: Roy Cunningham
Date: 11-18 - 1975
Date: 11-17-1975  Job No: 24-75  Hole No:   Elevation: 401 ft.
Customer: Hana Ranch  Location: Hana, Maui, Hi.

Driller: T. Cunningham  10 Hrs.  Rig: 60c
Helper: P. Lopez  10 Hrs.  Gas: Oil
Helper:  
Arv. Job:  
Lv. Job:  
Hrs.:  
Or. No.:  

Bit-Size: 14  Type:  Star
Depth Start: 40 ft., Depth Stop: 410 ft., Feet Drilled: 2

Water Levels, Time: M 746 ft., Time: M 4 ft.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>Hard BROWN Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>410</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

We go into Mahului, check on our well casing. Return to job site. I will use one clay base. Go down the drill kit.

Remarks: 

Signed: T. Cunningham  Date: 12/17/1975
Customer: Hana Ranch  Location: Hana, Maui, Hi.
Driller: T. Cunningham  9 Hrs.  Rig: 601
Helper: D. Lopez  9 Hrs.  Gas: Oil
Arv. Job:  Lv. Job:  Hrs:  Or. No: 

Bit-Size: 4"  Type: Stan.
Depth Start: 407 ft., Depth Stop: 408 ft., Feet Drilled: 1
Water Levels, Time 6:30 A.M. 396 ft., Time 7: P.M. 396 ft.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>407</td>
<td>Hard Taw Rock</td>
<td>Making too much cutting</td>
<td></td>
</tr>
<tr>
<td>408</td>
<td></td>
<td>Material very heavy, don't do any damage to tool only some wear</td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We may have done too deep 409, material settle back up. Bottom will fill one ft.

Signed: T. Cunningham  Date: Nov. 15, 1975
Date: 11-14-1925  Job No: 24-75  Hole No: 401  Elev: 401 ft.
Customer: Hana Ranch  Location: Hana, Maui, Hi.

Driller: T. Cunningham  10 Hrs.  Rig: 60c
Helper: R. L. 10 Hrs.  Gas:  Oil:  
Helper: 10 Hrs.  Repairs: 
Arv. Job:  Lv. Job:  Or. No: 

Bit-Size: 4  Type: Star
Casing-Size:  in. Length in hole:  ft.  in. Amt. perforated:  ft.  in.
Depth Start: 401 ft. Depth Stop: 407 ft. Feet Drilled: 1
Water Levels, Time 7:00 A.M. 396 ft. Time 4:00 P.M. 392 ft.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>401</td>
<td>Hard Basalt Rock</td>
<td>Make no sound the material we take out, is 'fair as Silt' and very heavy.</td>
<td></td>
</tr>
<tr>
<td>407</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

Signed: Roy Cunningham  Date: 12-14-1925
Date: 11-13-1975  Job No.: 24-75  Hole No.  Elevation: 401 ft.
Customer: Hana Ranch  Location: Hana, Maui
Driller: T. Cunningham  10 Hrs.  Rig: 60c
Helper: R. Lopez  10 Hrs.

Bit-Size: 14  Type:  Sae
Depth Start: 400 ft., Depth Stop: 406 ft., Feet Drilled: 6
Water Levels, Time: 7:00 AM 389 ft., Time: 4:00 PM 398 ft.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>Med. Hard Grey</td>
<td></td>
<td></td>
</tr>
<tr>
<td>405</td>
<td>Tuff Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>407</td>
<td>Hard Shale</td>
<td></td>
<td></td>
</tr>
<tr>
<td>408</td>
<td>Brown Rock</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurements

Remarks: Rabbit on the Pipe Socket. We check water level morning 389'—afternoon 398'

Signed: T. Cunningham  Date: Nov. 13 - 1975
Date: 11-12-1975  Job No: 24-75  Job No: 24-75  Hole No: 465 ft.
Customer: Hana Ranch  Location: Hang Mau'i 4141
Driller: T. Cunningham  10 Hrs.  Rig: 60-1
Helper: R. Lopez  10 Hrs.  Gas: Oil

Bit-Size: 14  Type: 5000
Depth Start: 384 ft. Depth Stop: 400 ft. Feet Drilled: 16
Water Levels, Time: M ft., Time: M ft.

Depth  Formation  Remarks  Top
384  Hard black to Blue Rock  
385  
385  Greys B&W, Rock & Clay  
395  
395  mud, Hard Grey B&W. Rock  
400  

Measurements

Remarks: We built up Bit 2 Times  Test much water yet, tower the well Monday.

Signed: T. Cunningham  Date: 12-1-1975
**RUSCOE MOSS COMPANY**

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

<table>
<thead>
<tr>
<th>Date</th>
<th>11-11-1975</th>
<th>Job No.</th>
<th>24-75</th>
<th>Hole No.</th>
<th>401</th>
<th>Elevation</th>
<th>401 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer</td>
<td>Hana Ranch</td>
<td>Driller</td>
<td>T. Cunningham</td>
<td>10 Hrs.</td>
<td>Rig</td>
<td>601</td>
<td></td>
</tr>
<tr>
<td>Helper</td>
<td>R. Lopez</td>
<td>Hrs.</td>
<td>Gas</td>
<td>Oil</td>
<td>Repairs</td>
<td>Or. No.</td>
<td></td>
</tr>
</tbody>
</table>

| Bit-Size | 14 | Type | 24 |
| Casing-Size | in., Length in hole | ft. | in., Amt. Perforated | ft. | in. |
| Depth Start | 381 ft. | Depth Stop | 384 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>381</td>
<td>Hard Black to Blue Pick</td>
<td></td>
<td></td>
</tr>
<tr>
<td>384</td>
<td>Build up Bit 3 Times</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:** We splice in 2 strands into sand line (when done)

Signed: T. Cunningham  Date: Nov. 11-1975
Date: 11-10-1975  
Job No: 24-75  
Customer: Hanu Ranch  
Location: Hanu, Maui  

Driller: J. Cunningham  
16 Hrs.  
Rig: 601  

Helper: R. Lopez  
10 Hrs.  
Rig:  
Gas:  
Oil:  
Repairs:  

Arv. Job:  
Lv. Job:  

Bit-Size: 14  
Type:  


Depth Start: 377 ft., Depth Stop: 381 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>377</td>
<td>Hard Black To Blue Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>381</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We build up the bit 3 times

Signed: J. Cunningham  
Date: 11-10-1975
Date: 11-9-1975  
Job No.: 24-75  
Hole No.: Hole 1  
Elevation: 401 ft.

Customer: Hana Ranch  
Location: Hana, Maui, HI

Driller: Cunningham  
8 Hrs.  
Rig: 604

Helper: B. Lopez  
8 Hrs.  
Gas:  
Oil:  
Repairs:  

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

Bit-Size:  
Type: Stk

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

Depth Start: 377 ft., Depth Stop: 377 ft., Feet Drilled: 3

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>377</td>
<td>377</td>
<td>Hard Soil To Blue Sand</td>
<td></td>
</tr>
<tr>
<td>322</td>
<td></td>
<td>formation has some thin soft</td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We had to add the rope to the hoist. Don't make much mud digging out.

Signed: Ray Cunningham  
Date: 11-9-1975
Date: 11-8-1975
Job No.: 24-75
Hole No.: 401 ft.

Customer: Hana Ranch
Location: Hana, Maui, HI

Driller: T. Cunningham
10 Hrs.
Rig: 601

Helper: R. Lopez
10 Hrs.

Arv. Job:
Lv. Job: Hrs.

Bit-Size: 14 in.
Type: Size Star


Depth Start: 370 ft., Depth Stop: 374 ft., Feet Drilled: 4

Water Levels, Time: M 369 ft., Time: M 374 ft.

Measurements

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>369</td>
<td>Hard Black Rock</td>
<td>Towered towards bottom of well</td>
</tr>
<tr>
<td>374</td>
<td></td>
<td>a bunch of material while drilling</td>
</tr>
<tr>
<td></td>
<td></td>
<td>not making much mud</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Possibly doing a little water</td>
</tr>
</tbody>
</table>

Remarks:

We may have a little water seepage coming into well from about 350' depth down. We bail down to about 100' level previous evening (Thursday level was up 100' (20 to 25 ft. water level at all times).)

Signed: T. Cunningham
Date: 11-8-1975
Date: 11-7-1975  
Job No: 24-75  
Hole No: Elevation 401 ft.  
Location: Hana, Maui, Hi.

Driller: T. Cunningham  
Helper: R. Lopez  
Arv. Job:  
Hrs.  
Rig: 60C  
Gas:  
Oil:  
Repairs:  
Or. No.:  

Bit-Size: 14  
Type: Steel  

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

Depth Start: 352 ft.  
Depth Stop: 370 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>352</td>
<td>365</td>
<td>Gray sand, rock &amp; clay</td>
<td>Daily Job</td>
</tr>
</tbody>
</table>

Remarks: We build up the Bit once our drilling fluid was too heavy.

Signed: Troy Cunningham  
Date: 11-7-1975
Date: 11-6-1975  
Job No.: 24-75  
Hole No.:  
Elevation: 4,011 ft.  

Customer: Hana Ranch  
Location: Hana, Maui - 40'  

Driller: I. Cunningham  
Hrs.: 10  
Rig: 600  

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

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

Bit-Size: 14  
Type: 502  

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

Depth Start: 340 ft., Depth Stop: 352 ft., Feet Drilled: 12  

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>340</td>
<td>Grey and Brown Shale &amp; Clay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>352</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurements:

Remarks: We hung the Bailer going in the hole 90' from surface large Boulder fell down, we put on the 8" Tuff - and manned it below! (Continue drilling)

Signed: I. Cunningham  
Date: 11-6-1975
Date: 11-5-1975  Job No: 24-75  Hole No:  Elevation: 401 ft.
Customer: Hana Ranch  Location: Hana, Maui, Hi.

Driller: T. Cunningham  10 Hrs.  Rig: 50L
Helper: P. Lopez  10 Hrs.  Gas:  Oil:  Repairs:  
Arv. Job:  Lv. Job:  Hrs:  Or. No:  

Bit-Size: 14  Type: SIS
Depth Start: 332 ft., Depth Stop: 340 ft., Feet Drilled: 8

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>332</td>
<td>340</td>
<td>Med. bad gravel + 60% Rock, little soft streaks</td>
</tr>
</tbody>
</table>

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

Measurements

Remarks: We broke the legs of the bit, fixed it, built up the bit 3 times

Signed: T. Cunningham  Date: Nov. 5 - 1975
Date: 11-4-1975  
Job No.: 24-75  
Hole No.:  
Elevation: 401 ft.

Customer: Hana Ranch  
Location: Hana, Maui - HI

Driller: Ti Cunningham  
9 Hrs.  
Rig: 60C

Helper: R. Lopez  
9 Hrs.  
Gas: Oil

Rig:  
Hrs.  
Gas:  
Oil:  
Reps:  
Or. No.:

Bit-Size: 4  
Type: Star

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

Depth Start: 326 ft., Depth Stop: 332 ft., Feet Drilled: 6

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>326</td>
<td>Med. hard grey &amp; O.P. shale w/soft streaks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>332</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We arrive Hanaui @ 7:30a.m. We pick up one drum of gas at one of Devil's for Jet.

Signed: Ti Cunningham  
Date: 11-4-1975
<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
<th>Measurements</th>
</tr>
</thead>
<tbody>
<tr>
<td>326</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We get some water came down.

Signed: T. Cunningham  Date: Oct. 31 - 1975
### Ruscoe Moss Company

**Date:** 10-30-1975  |  **Job No.:** 24-75  |  **Hole No.:** 401 ft.  
**Customer:** Hanu Ranch  |  **Location:** Hanu, Maui, HI  
**Driller:** T. Cunningham  |  **Rig:** 60c  
**Helper:** R. Lopez  |  **Hrs.:** 10  
**Arv. Job:**  |  **Lv. Job:**  |  **Hrs.:**  
**Bit-Size:** 14  |  **Type:** Star  
**Casing-Size:**  |  **Length in hole:**  |  **ft., Amt. Perforated:**  
**Depth Start:** 306 ft.  |  **Depth Stop:** 316 ft.  |  **Feet Drilled:** 12  
**Water Levels, Time:**  |  **M:**  |  **ft., Time:**  |  **M:**  

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>306</td>
<td>Clay, short Gray &amp; Brown Rock with soft strata.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:** Formation from 312' to 316' is partly clayy, sandy & crumbly. thing the bit can't keep with in the well, we use Aqua Sol.

**Signed:** T. Cunningham  |  **Date:** Oct. 30, 1975
Date: 10-29-75
Job No.: 24-75
Date: 10-29-1975
Job No.: 24-75
Elevation: 401 ft.
Location: Hana, Maui, Hi

Customer: Hana Ranch
Driller: Kenneth Cunningham
10 Hrs.
Rig: 606

Helper: R. Lopez
10 Hrs.
Gas: Oil
Repairs:

Arv. Job: 0
Lv. Job: 0
Hrs.: Or. No.: 0

Bit-Size: 14
Type: Star

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

Depth Start: 300 ft., Depth Stop: 306 ft., Feet Drilled: 6

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

We drill out 10 ft. of Cane Fill.

Remarks: About 5 ft. was bridle cut.

Signed: Kenneth Cunningham
Date: Oct. 29, 1975
Date: 10-28 1975  
Job No: 24-75  
Hole No:  
Elevation:  
Customer: HANA RANCH  
Location: Hana, Maui HI  
Driller: T. Cunningham  
10 Hrs.  
Rig: 60C  
Helper: R. Lopez  
10 Hrs.  
Arv. Job:  
Lv. Job:  
Bit-Size: 4  
Casing-Size: in., Length in hole: 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>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

we made another Trip to take Rock up one 8' tail. return build the tail up.
we pull off the sandline. Change ends.
we put the 14" Bit. Back on.

Remarks:

Signed: T. Cunningham  
Date: Oct 28 1975
Date: 10-27-1975  Job No.: 24-75  Hole No.: 5  Elevation: 461 ft.
Customer: Hana Ranch  Location: Hana Mill Ht.

<table>
<thead>
<tr>
<th>Driller</th>
<th>10 Hrs.</th>
<th>Rig</th>
<th>Helper</th>
<th>10 Hrs.</th>
<th>Helper</th>
<th>10 Hrs.</th>
<th>Or. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. Cunningham</td>
<td></td>
<td>60c</td>
<td>R. Hooper</td>
<td></td>
<td></td>
<td>Repairs</td>
<td></td>
</tr>
</tbody>
</table>

Arv. Job:  Lv. Job: 

Bit-Size: 14  Type:  Fur
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>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

- We made the trip to Hana Ranch to get the 10" bit.
- Returned to Hana Ranch with 7' 8" bit.
- We use the bit as a bumper, we get the barrel out.

Signed: T. Cunningham  Date: Oct 27, 1975
Date: 10-26-1975  
Job No: 24-75  
Hole No:  
Elevation: 401 ft.  

Customer: Hana Ranch  
Location: Hana, Maui - Mo.  

Driller: T. Cunningham  
Hrs: 9  
Rig: 604  

Helper: R. Lopez  
Hrs: 9  
Gas: Oil  

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

Bit-Size: 14  
Type:  

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

Depth Start: 293 ft.  
Depth Stop: 300 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>297</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>291</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 293   | Gray & B-R  
Rock & Clay |        |     |
| 299   | Hill Footstone |       |     |

We have a case. we on top of the rails.  
Hang the bailing hook on the casing line. Pull the  

Remarks:  

Signed: T. Cunningham  
Date: Oct 26 - 1975
Date 10-25-1975  Job No. 24-75  Hole No.  Elevation 401 ft.
Customer Hana Ranch  Location Hana, Maui - Hi.
Driller T. Cunningham  10 Hrs. Rig 601
Helper  Hrs. Gas Oil
Helper P. Lopez  10 Hrs. Repairs

Bit-Size 14 Type Stan
Casing-Size in, Length in hole ft. in, Amt. Perforated ft. in.
Depth Start 280 ft., Depth Stop 293 ft., Feet Drilled 13
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>280</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>293</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurements

- We have one strand to break in the drill cable.
- We cut off about 65 ft. of him. Replaced on

Remarks: Same rocks everywhere

Signed T. Cunningham  Date Oct. 25-1975
Date: 10-24-1975  Job No. 24-7  Hole No.  Elevation 401 ft.
Customer: Hana Ranch  Location: Hana, Maui, HI

Driller: J. Cunningham  10 Hrs. Rig 60c
Helper:  Hrs. Gas
R. Lopez  10 Hrs. Oil
Arv. Job  Lv. Job  Hrs. Repairs

Bit-Size 14  Type: 64c
Casing-Size  in., Length in hole  ft.  in., Amt. Perforated  ft.  in.
Depth Start 245 ft., Depth Stop 280 ft., Feet Drilled 15
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>245</td>
<td>Clay, Silt, Rock &amp; Clay, with hard streaks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>280</td>
<td></td>
<td>We have Rock &amp; Clay in</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>some most of the time</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>While drilling</td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We build up the bit once

Signed: J. Cunningham  Date: Oct. 24 - 1975
<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>241</td>
<td>Gray sand, Rock + Clay with hard streaks</td>
<td></td>
</tr>
<tr>
<td>265</td>
<td>Formation first soft, more soft from 241 - 265</td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We continue to have troubles come down while driling. We have some trouble. Rollin on the bit coming out of the hole. We were 75 ft from bottom, drive out broken brand in the well, call at eight. Molokai, again.

Signed: Guy Cunningham  Date: Oct. 23 - 1975
Date: 10-22-1975  Job No: 24-75  Hole No.  Elevation: 401 ft.
Customer: Hana Ranch  Location: Hana, Maui - HI.

Driller: Ti Cunningham  10 Hrs.  Rig: 60C
Helper:  
Helper: T. Lopez  10 Hrs.
Arr. Job:  
Lv. Job:  
Hrs.  Or. No.  Repairs:

Bit-Size: 14  Type: Star
Casing-Size: \(\text{in.}\), Length in hole: \(\text{ft.}\) \(\text{in.}\), Amt. Perforated: \(\text{ft.}\) \(\text{in.}\)
Depth Start: 236 ft., Depth Stop: 246 ft., Feet Drilled: 10

Water Levels, Time: M \(\text{ft.}\), Time: M \(\text{ft.}\)

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>236/ 239</td>
<td>Grey &amp; BKN. Rock &amp; Clay with hard Sleek</td>
<td></td>
</tr>
<tr>
<td>239/ 246</td>
<td>&amp; 246</td>
<td>medium &amp; hard greyish BKN. Laminated Clay</td>
</tr>
</tbody>
</table>

Remarks: We build up the pit once.

Signed: Ti Cunningham  Date: Oct. 22, 1975
Date: 10-21-1975  
Job No.: 24-75  
Hole No.:  
Elevation: 401 ft.  
Customer: Hana Ranch  
Location: Hana, Maui, HI.  

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

Helper: R. Lopez  
10 Hrs.  

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

Bit-Size:  
Type:  


Depth Start: 233 ft., Depth Stop: 236 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>233</td>
<td></td>
<td>Grey + Barn Rock + Clay + 11' String</td>
<td></td>
</tr>
<tr>
<td>236</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

We have come in about 12' Condos + Rocks very hard to get back to the Bottom (Cleanout)  

We take 6 to 7 hrs cleaning out.  

Remarks: We use Aqua Gel and one sack & a half cleaning out the line.  

Signed: T. Cunningham  
Date: Oct. 21 - 1975  

Date: 10-20-1975  Job No: 24-75  Hole No:  
Customer: Hanu Ranch  Location: Hanu, Maui Hi.

Driller: T. Cunningham  10 Hrs.  Rig: 60 L
Helper: R. Lopez  10 Hrs.  Gas: Oil
Arv. Job:  


Depth Start: 223 ft., Depth Stop: 233 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>223</td>
<td>Gray Silt, Rock, Clay, wet sand, fine sand</td>
<td></td>
</tr>
<tr>
<td>233</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We have one strand to break in drill line but such cut off & rabbit on.

We have to put spare tire on front wheel of Water Tank. Put new one on.

Signed: T. Cunningham  Date: Aug 20, 1975
Date: 10-19-1975

Job No.: 24-75

Hole No.: Hole No.

Elevation: 401 ft.

Customer: Hana Ranch

Location: Hana, Maui - Hi

Driller: T. Cunningham 10 Hrs.

Rig: GOL

Helper: R. Lopez 10 Hrs.

Gas: Oil

Repairs: 


Bit-Size: 14

Type: Ste.


Depth Start: 216 ft., Depth Stop: 223 ft., Feet Drilled: 7

Water Levels, Time: 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>215</td>
<td>Grey, hard, black, clay</td>
<td>216 ft., hard, fossil</td>
<td></td>
</tr>
<tr>
<td>223</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We place the bottom 5 ft. taking off one ledge about 3 hrs.
We place the 2nd steak about 15 minutes with a rock in top

Signed: T. Cunningham

Date: Oct. 19-1975
Date: 10-18 - 1975  Job No: 24-75  Hole No:  
Customer: Hina Ranch  Location: Hana, Maui hi.

Driller: T. Cunningham  10 Hrs.  
Helper: R. Lopez  10 Hrs.

Bit-Size: 14 Type: Star
Casing-Size: in. Length in hole ft. in., Amt. Perforated ft. in.
Depth Start: 204 ft., Depth Stop: 216 ft., Feet Drilled: 12

Water Levels, Time M 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>
<tr>
<td>204</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>215</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Build up bit once

Gut more header the last 2 ft.

Signed: T. Cunningham  Date: Oct. 18, 1975
Date: 10-17-1975  
Job No.: 24-75  
Hole No.:  
Elevation: 401 ft.

Customer: Hana Ranch  
Location: Hana, Maui - HI

Driller: T. Cunningham  
10 Hrs.  
Rig: 100 L

Helper: R. Lopez  
10 Hrs.  
Gas:  
Oil:  
Repairs:  
Arv. Job:  
Lv. Job:  
Or. No.:

Bit-Size: 14  
Type:  


Depth Start: 190 ft., Depth Stop: 204 ft., Feet Drilled: 14

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>190</td>
<td>Gray sand, rock, clay, with sand streaks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>204</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

Build up Bit once  
Continue to get some Beds came down  
We use sand, Aqua gel

Signed: T. Cunningham  
Date: Oct. 17 - 1975
Date: 10–16–1975  Job No. 94–75  Hole No. Location: Hana Ranch, Maui, Hi.

Customer: Hana Ranch  Elevation: 401 ft.

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

Helper: R. Lopez  10 Hrs. Repairs

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

Bit-Size: 14  Type: For


Depth Start: 182 ft., Depth Stop: 190 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>182</td>
<td>Boulder A, Bar. Clay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>185</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>190</td>
<td>Gray Bentonite Clay with hard formation</td>
<td>Leave some rock, case in at first stage</td>
<td></td>
</tr>
</tbody>
</table>

Measurements

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

Remarks: We built up the pit once.

Signed: J. Cunningham  Date: Oct. 16–1975
Date: 10-15-1975  
Job No: 24-75  
Hole No:  
Elevation: 401 ft.

Customer: Hana Ranch  
Location: Hana, Maui - W.

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

Helper: P. Lopez  
10 Hrs.  
Gas: Oil

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

Bit-Size:  
Type:  


Depth Start: 175 ft., Depth Stop: 182 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>175</td>
<td>Boulder, R.M. Clay</td>
<td></td>
</tr>
<tr>
<td>182</td>
<td></td>
<td>Jet Quality of Sections Over</td>
</tr>
<tr>
<td></td>
<td></td>
<td>down hole. Hit up some</td>
</tr>
<tr>
<td></td>
<td></td>
<td>having to redrill some more.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>man.</td>
</tr>
</tbody>
</table>

Signed: T. Cunningham  
Date: Oct. 15-1975
Date 10-14-1975  Job No. 24-75  Hole No.  Location Hana, Maui, Hi
Customer: T. Cunningham  Rig No. 601
Helper: P. Lopez 10 Hrs.  Gas
Driller: T. Cunningham 10 Hrs.  Oil

Bit-Size: 2 4  Type:  Stan
Depth Start: 170  ft., Depth Stop: 175  ft., Feet Drilled: 5
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>167</td>
<td>Boulder s &amp; Art Clay</td>
<td></td>
</tr>
<tr>
<td>175</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

We picked up the Dodge Power wagon from at the Air Port, Hana. We picked up one bottle of Oxygen arriving at Hana at 12:30.

Remarks: Quite a bunch of Pocks came down having to mudill

Signed: T. Cunningham  Date: Oct 14-1975
Date: 10-10-1975  
Job No.: 24-75  
Customer: Kane Ranch  
Location: Kane, HI  
Elevation: 401 ft.

Driller: T. Cunningham  
Hrs.: 11  
Rig: 604  
Hrs.:  
Gas:  
Oil:  
Repairs:  
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: 155 ft.  
Depth Stop: 170 ft.  
Feet Drilled: 15  

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>157/165</td>
<td>TSTN Clay &amp; Lava Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Formation getting more hard</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mostly Rock</td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We take the Wrench Tank into Kauluani Park it at the airport. We have some trouble getting water to job site. Water tank broke down.

Signed: T. Cunningham  
Date: Oct. 10, 1975
### Ruscoe Moss Company

**Date:** 10-9-1975  
**Job No.:** 94-75  
**Hole No.:**  
**Elevation:** 401 ft.

**Customer:** Hana Ranch  
**Location:** Hana, Maui - 14

**Driller:** T. Cunningham  
**Hrs.:** 11  
**Rig:** 60C

**Helper:** T. Lopez  
**Hrs.:** 11  
**Gas:**  
**Oil:**  
**Repairs:**

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

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

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

**Depth Start:** 125 ft.  
**Depth Stop:** 155 ft.  
**Feet Drilled:** 30

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

### Depth Table

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>125</td>
<td>Soft-Red. Cinder, Lava-Soil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>145</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>145</td>
<td>BRN. Clay, Lava Tuff</td>
<td>More F.Y. from 145' to 155'</td>
<td></td>
</tr>
<tr>
<td>155</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Remarks:

---

**Signed:** T. Cunningham  
**Date:** Oct. 9, 1975
Date 10-8-1975  Job No. 24-75  Hole No. Elevation 401 ft.
Customer Hana Ranch  Location Hana, Maui, HI
Driller T. Cunningham  Hrs.  Rig 60C
Helper R. Lopez  Hrs.  Gas  Oil
Helper  Hrs.  Repairs

Bit-Size 14  Type ST 60
Casing-Size in., Length in hole ft. in., Amt. Perforated ft. in.
Depth Start 97 ft., Depth Stop 125 ft., Feet Drilled 28
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>97</td>
<td>Black &amp; Bonuck with Pyrocl</td>
<td></td>
<td></td>
</tr>
<tr>
<td>104</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>104</td>
<td>Soft Redimono Lava Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>125</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurements

Remarks: Build up the Pit Face

Signed T. Cunningham  Date Oct. 8-1975
Date: 10-7-75  
Job No.: 29-75  
Hole No.:  
Elevation: 401 ft.  

Customer: Hana Ranch  
Location: Hana, Maui HI  

Driller: Tr Cunningham  
Hrs.: 11  
Rig: 60L  

Helper: R. Lopez  
Hrs.: 11  

Arr. Job:  
Lv. Job:  
Hrs.:  
Or. No.:  

Bit-Size: 14  
Type:  

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

Depth Start: 85 ft.  
Depth Stop: 97 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>98</td>
<td>Black &amp; Raw Rock with Hard Strata</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurements

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

Remarks:  
We Build Up the Bit Now.  

Signed: Tr Cunningham  
Date: Oct 7 - 1975
Date: 10-6-1975  
Job No.: 24-75  
Hole No.:  
Elevation: 481 ft.

Customer: Hanu Ranch  
Location: Hanu, Maui, HI

Driller: T. Cunningham  
Hrs.: 11  
Rig: 60-

Helper: R. Lopez  
Hrs.: 11  
Gas:  
Oil:  
Repairs:  
Or. No.:  

Arv. Job:  
Lv. Job:  
Hrs.:  

Bit-Size: 14  
Type: Star

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

Depth Start: 78  
ft., Depth Stop: 88  
ft., Feet Drilled: 10

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

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>73</td>
<td>Black &amp; BRN. Rock with Pearl Beach</td>
<td></td>
<td></td>
</tr>
<tr>
<td>88</td>
<td></td>
<td>(Formation more)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(hard, thin, soft)</td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

Signed: Troy Cunningham  
Date: Oct. 6 - 1975
Date: 10-4-1975  Job No: 94-75  Hole No: 401  Elevation 401 ft.

Customer: Eagle Ranch  Location: Hanu, Maui, Hi

Driller: T. Cunningham  9 Hrs.  Rig: 60
Helper: R. Lopez  8 Hrs.  Gas:  
             Oil:  
             Repairs:  
             Arv. Job:  
             Lv. Job:  
             Or. No:  

Bit-Size: 24  Type: Star


Depth Start: 70 ft., Depth Stop: 78 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>70</td>
<td>Med. Fine Black Sand</td>
<td></td>
<td></td>
</tr>
<tr>
<td>73</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>78</td>
<td></td>
<td>We knocked into a hard rock possibly with the rock socket</td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Build up bit once

Signed: T. Cunningham  Date: Oct. 4 - 1975
Date: 10-3-1975  Job No: 24-75  Hole No:  Elevation: 401 ft.
Customer: Hana Ranch  Location: Hana, Maui, Hi.

Driller: T. Cunningham  10 Hrs.  Rig: 60L
Helper: R. Lopez  10 Hrs.  Repairs
Arv. Job:  Lv. Job:  

Bit-Size: 14"  Type: Star
Depth Start: 60 ft., Depth Stop: 70 ft., Feet Drilled: 10

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

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>Black Rock with hard Sand</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>Med. hard black Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>70</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We found the location water saturated and stuck badly. Finally able to make it into well site.

Signed: Ray Armstrong  Date: Oct 3-1975
Date: 10-2-1975  
Job No.: 34-75  
Hole No.:  
Elevation: 401 ft.  

Customer: Hana Ranch  
Location: Hana, Maui, HI  

Driller: [Signature]  
10 Hrs.  

Helper: R. Lopez  
10 Hrs.  

Arv. Job:  
Lv. Job:  

Rig: 60.  
Oil:  
Gas:  
Repairs:  
Or. No.:  

Bit-Size: 14  
Type:  

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

Depth Start: 45 ft.  
Depth Stop: 60 ft.  
Feet Drilled: 15  

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>45</td>
<td>Black-Rock with Hard Shale</td>
<td></td>
<td></td>
</tr>
<tr>
<td>60</td>
<td></td>
<td>we knocked some rock down</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>drill</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>we put on the Jess.</td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We build up the bit once we hung up with bit 20 minutes before piston jam.  
Quite a lot of rain shower.  

Signed: [Signature]  
Date: Oct. 2 - 1975
Date 10-1-1975  Job No. 24-22  Hole No.  Elevation 401 ft.
Customer  Honua Ranch  Location  Honua Maui - Hi
Driller T. Cunningham  10 Hrs.  Rig 601
Helper R. Lopez  10 Hrs.  Gas
Helper  10 Hrs.  Oil  Repairs

Bit-Size 44  Type Steel
Casing-Size in., Length in hole ft. in., Amt. Perforated ft. in.
Depth Start 36 ft., Depth Stop 45 ft., Feet Drilled 9

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>Black Rock, with Hard Streaks</td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>Just about all hard rock, not soft rock. Cannot build for the drilling fluid</td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We build up the bit 2 times

Signed T. Cunningham  Date Oct 1-1975
Date: 9-30-1975  Job No. 24-75  Hole No.  Elevation: 401 ft.
Customer: Han Tom Ranch  Location: Hanac Maui, HI

Driller: T. Cunningham  10 Hrs.  Rig: 60
Helper: T. Lopez  10 Hrs.
Arv. Job:  Lv. Job:  Hrs.:  Repairs:
Or. No.:

Bit Size:  
Type: 
Depth Start: 24 ft., Depth Stop: 36 ft., Feet Drilled: 12

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>24</td>
<td>Gray Tied Rock, Cinder with Hard Shale</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Black Rock, with Hard Shale</td>
<td></td>
</tr>
</tbody>
</table>

Measurements

Remarks: We lose our circulating fluid quite often.

Build up the bit once

Signed: T. Cunningham  Date: Sept. 30, 1975
Date: **Sept 29, 1925**  
Job No.: **24-75**  
Hole No.:  
Elevation: **404 ft.**  

**Customer:** Hana, Hana, Maui, HI  
**Driller:** T. Cunningham  
10 Hrs.  
**Rig:** Oil  
**Helper:** R. Lopez  
10 Hrs.  
**Repairs:**  
**Arv. Job:**  
**Lv. Job:**  
**Hrs.:**  
**Or. No.:**  

---

**Bit-Size:** 14  
**Type:** Stn.  
**Casing-Size:** in., Length in hole **2** ft. in., Amt. Perforated **ft.** in.  
**Depth Start:** **8** ft., Depth Stop **29** ft., Feet Drilled **16**  
**Water Levels, Time:** M ft., Time M ft.  

<table>
<thead>
<tr>
<th>Depth (ft.)</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Soil &amp; Cinder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Med. Hard &amp; Lava Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Grey &amp; Red Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Hard Shale</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Can not keep very much water in the hole.**

**Remarks:** We built up the first once we put in 25' 14' Conductor casing.

**Signed:** T. Cunningham  
**Date:** **Sept 29, 1925**
Date: 9-27-1975  Job No: 24-75  Hole No: 41  Elevation: 401 ft.
Customer: Hana Rental  Location: Hana, Maui - Hi.

Driller: J. Cunningham  10 Hrs.  Rig: 604
Helper: P. Lopez  10 Hrs.

Bit-Size: 14  Type: Steel
Depth Start: 12 ft., Depth Stop: 8 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>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

We found one load of water from 100 ft., had to kick up the bit. Put up the stand pipe.

Started drill and heard guy said rock at 39 ft. to 8 ft.

Remarks: We built the rig up before starting drilling.

Signed: J. Cunningham  Date: Sept. 27, 1975
Date: 9-26-1975  
Job No: 24-75  
Hole No:  
Elevation: 401 ft.

Customer: Hana Ranch  
Location: Hana, Maui, Hi

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

Helper: R. Lopez  
Hrs.: 10

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

Bit-Size: 14  
Type: Star

Casing-Size: 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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>we dig one starter hole 3' deep in coral</td>
</tr>
<tr>
<td></td>
<td></td>
<td>we build one dog house</td>
</tr>
<tr>
<td></td>
<td></td>
<td>I go into Maluhi (SHORE ROAD)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>to the dock of the Valley Isle Fishing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pick up all of my 14&quot; conductor casing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>which amount to 1-18' joint 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-6' joint, 2-4 ft. 14&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Had Valley Isle cut the 18' joint, and hauled it to</td>
</tr>
<tr>
<td></td>
<td></td>
<td>home, it the pickups</td>
</tr>
<tr>
<td></td>
<td></td>
<td>we unloaded the well &amp; said 'thank you' and handed up the water</td>
</tr>
<tr>
<td></td>
<td></td>
<td>turbine</td>
</tr>
</tbody>
</table>

Remarks:  

Signed: Troy Cunningham  
Date: Sept. 26, 1975
**Date:** 9-25-1975  
**Job No.:** 24-24  
**Hole No.:**  
**Elevation:** 401 ft.  
**Customer:**  
**Driller:** Cunningham 10 Hrs.  
**Rig:** 601  
**Helper:** R. Lopez 10 Hrs.  
**Arv. Job:**  
**Lv. Job:**  
**Hrs.:**  
**Rig:**  
**Type:**  
**Gas:**  
**Oil:**  
**Repairs:**  
**Wells:**  
**Or. No.:**  
**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.  

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<thead>
<tr>
<th>Depth</th>
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<tr>
<td></td>
<td></td>
<td>W we finish back in up the Rig Raise the Rig set the anchor wires (Estatia) repair one anchor back leg on the Rig.</td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:**

---

**Signed:** Troy Cunningham  
**Date:** Sept. 25 1975
<table>
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<tr>
<td></td>
<td></td>
<td>we got the Cut &amp; Quarry in about 9:00 AM</td>
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<td>work on location from about 9:00 AM</td>
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<tr>
<td></td>
<td></td>
<td>there we started blocking up the Rig</td>
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<tr>
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<td></td>
<td>after spotting the Rig on drill site</td>
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<td></td>
<td></td>
<td>we worked most of the week truck</td>
</tr>
<tr>
<td></td>
<td></td>
<td>we have quite a bit of shoveling to do</td>
</tr>
</tbody>
</table>

Signed: T. Cunningham  Date: Sept. 24, 1925
Date: 9-23-1975   Job No.: 29-75    Hole No.:    Elevation: 401 ft.

Customer: Harri Tranch     Location: Harri Mauki - Hi.

Driller: T. Cunningham  10 Hrs. Rig 600
Helper: Mrs. Lopez      10 Hrs. Repairs

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.

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Measurements

- We arrived at the site, went to the truck and loaded it with drill equipment. Parked near the drill site at Harri.
- See the handlist of Harri Ranch about getting a cat footing for leveling.

Remarks:

Signed: T. Cunningham  Date: Sept. 23, 1975
Date: 9-22-1972  
Job No: 1174  
Hole No:  
Elevation:  

Customer: Hawaiian Builders  
Location: Hospital, Kapoo, Kauai  

Driller: T. Cunningham  
Rig:  
Hrs: 6  

Helper: R. Lopez  
Hrs:  
Gas:  
Oil:  
Repairs:  
Arv. Job:  
Lv. Job:  
Or. No:  

Bit-Size:  
Type:  

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

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

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

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</table>

Remarks:

Lopez Change back while on my Co. Truck.  

Weld 2. Top well Flange on.  

We had some trouble. To my house.  

Signed: T. Cunningham  
Date: Sept. 22, 1972  

[Text written by hand on the form]
Date: 9-20 - 1971
Customer: Hana Ranch
Location: Hana, Maui - HI

Driller: J. Cunningham
5 Hrs. Rig: 60C
Helper: R. Lopez
4 Hrs.

Arv. Job
Lv. Job

Hole No.
Elevation
ft.

Gas
Oil
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.

Measurements

Depth
Formation
Remarks
Top

A
B

we go to the Job Site. We try
blocking up the Rig. But unable to
Jack up the Rig. Ground no good. Rig sliding
down.

Foundation for Rig to much unlevel to smell a
place.

I see Bill Harris of Hana Ranch, about
getting a Cat, up to fly one place for
the Rig.

Remarks:
we leave for Hana, Maui at 12. noon.

Signed: J. Cunningham Date: Sept. 20 - 1971
Date 2-19-1925  
Job No.  
Hole No.  
Elevation  
ft.  
Customer  
Hana Ranch  
Location  
Hana, Maui - Hi  

Driller  
T. Cunningham  
10 Hrs.  
Rig 601  

Helper  
P. Lopez  
10 Hrs.  
Gas  
Oil  
Reparis  

Arv. Job  
Lv. Job  
Hrs.  
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.  

Remarks:  

---  

Signed  
T. Cunningham  
Date  Sept. 19, 1925
Customer Kane Ranch  Location Hana, Maui - HI
Driller Cunningham  10 Hrs. Rig 
Helper R. Lopez  10 Hrs. Gas  Oil

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.

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We leave for Kahului, Maui - at 7:00 AM, arrive airport take a taxi to the park, get the Potain Pick-up loaded with Rig Timber & Rig Jack.

We see Valley Rd. about driving in the Rig in to Hana. We go on to Hana - used Bill Kenny's my last about getting & some thing to pull the Rig onto Site - Site from highway.

We unload the Rig Timber at Job Site.

Remarks:

Signed Big Cunningham  Date Sept. 18 1975