Date: Jan-15 1976  
Job No.  
Hole No.  
Elevation  ft.  

Customer: Hanna Ranch  
Location: Maui, Hawaii  

Driller:  
Helper:  
Helper:  
Arv. Job  
Lv. Job  
Hrs.  

10 Hrs.  
10 Hrs.  
Hrs.  
Hrs.  

Rig CoL  
Gas  
Oil  
Repairs  
Or. No.  

Bit-Size  
Casing-Size  
ft.  
ft.  

in., Length in hole  
in., Amt. Perforated  

Depth Start  
Depth Stop  
Feet Drilled  

Gas  
Oil  
Hrs. Repairs  
Hrs.  
Or. No.  

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

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<tr>
<th>Depth</th>
<th>Formation</th>
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Measurements taken by  
Stated Water Was  
Diferent Job?  

Depth of well - 286.63'  
Bottom level - 264.43'  

Elev. Top of concrete block  
264.34'  

Remarks:  
Officers on site. They had already taken depth of well & water level - klent over details of job with them. Klent them normal wall speech to level second around well. Moved in all drill tools & test pump before rig would be brought in -  

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

**RUSCOE MOSS COMPANY**

830 AUHA STREET • HONOLULU, HAWAII 96819
TELEPHONE (808) 839-6688 • 833-1444

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Job No.</td>
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<tr>
<td>Hole No.</td>
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<td>Elevation</td>
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<tr>
<td>Customer</td>
<td>Honi Ranch</td>
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<tr>
<td>Location</td>
<td>Honi Maui</td>
</tr>
<tr>
<td>Driller</td>
<td>Lachie</td>
</tr>
<tr>
<td>Helper</td>
<td>P. Kanter</td>
</tr>
<tr>
<td>Hrs. Rig</td>
<td>COL</td>
</tr>
<tr>
<td>Hrs. Gas</td>
<td>Oil</td>
</tr>
<tr>
<td>Hrs. Repairs</td>
<td></td>
</tr>
<tr>
<td>Or. No.</td>
<td></td>
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</table>

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<table>
<thead>
<tr>
<th>Bit-Size</th>
<th>Type</th>
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<th>Casing-Size</th>
<th>in, Length in hole</th>
<th>ft.</th>
<th>in, Amt. Perforated</th>
<th>ft.</th>
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<thead>
<tr>
<th>Depth Start</th>
<th>ft, Depth Stop</th>
<th>ft., Feet Drilled</th>
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<thead>
<tr>
<th>Water Levels, Time</th>
<th>M</th>
<th>ft, Time</th>
<th>M</th>
<th>ft.</th>
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**Measurements**

**Depth**

- Finished Unloading @ Red Simon -
- Went back, loaded more equip &
- hauled to next job -

**Remarks:**

- Took down rig - put on fifth wheel - loaded all of 4" pump
- column & blocking on Rivers Log -

---

**Signed:**

---

**Date:**

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<tr>
<td>Customer</td>
<td>Hanz Paua</td>
<td>Location</td>
<td>Honu, Maui</td>
<td></td>
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<tr>
<td>Driller</td>
<td>Leslie</td>
<td>11 Hrs.</td>
<td>Rig GOL</td>
<td>Gas</td>
<td>Oil</td>
</tr>
<tr>
<td>Helper</td>
<td>A. Kainon</td>
<td>11 Hrs.</td>
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<tr>
<td>Helper</td>
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<tr>
<td>Arv. Job</td>
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<tr>
<td>Lv. Job</td>
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| 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

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<thead>
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<th>Depth</th>
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#### Remarks:

- Lost of muddy - finally
- Got "dummy" close
- Enough to dump in
- Poured 8 bags cement
- With rig - Make up
- Send in normal spike
- Dummy - measured in
- Started moving out - tore everything
- Went to 420' dummy - out of shock - tore down shear
- Went in just very
- Loaded diesel engine, weld much, big tool
- Smoothly - Called
- Big fell heaviest pcs. of equip.
- Engineer - Conf. of etc.
- Heavy shower came down
- Dismantle dummy
- Helldad get shore coming out - got stuck
- Incised cover plate - not coming out - used to Redman's job
- with 3" coupling & 3" plug
- Standard unloading

Signed: Sam Selli
Date: Jan-13 1976
Date: Jan-12 1976  
Job No.  
Hole No.  
Elevation  
ft.

Customer:  
Hana Ranch  
Location:  
Hana, Maui

Driller:  
S. Leslie  
10 Hrs.  
Rig Gas

Helper:  
A. Kanou  
10 Hrs.  
Gas Oil

Helper:  
  Hrs.  
Repaired

Arv. Job  
Lvl. Job  
Hrs.  
Or. No.

Bit-Size  

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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Referred to Kihului in arm & chased on "dummy"  
Tow & apply closed bib. & returned to Kina.  
Klent to Kihuku - Unloaded flatbed.  
Picked up some things we needed - loaded

Remarks: some 3/8" needs to fix up wells for rig on next job - picked up "Dummy" to Valley, job expense. Returned to Hana - Unloaded gravel & Red Smiths job. May have car out in morning. The planer trouble getting flatbed truck to job site.

Signed:  
Date: Jan-12 1976
Date: Jan-10, 1976
Job No.: _______
Hole No.: _______
Elevation: _______ ft.

Customer: Hana Ranch
Location: Hana, Maui

Driller: S. Lese
10 Hrs. Rig Cost

Helper: D. Thomas
10 Hrs. Gas Oil

Helper: _______
Hrs. Repairs

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

Bit Size: _______
Type: _______

Casing Size: _______ in., Length in hole _______ ft. _______ 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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</table>

Finished pulling out 4" test pump.

Remarks: Stuck in & preparing test pump to move out off site later.

Signed: [signature]
Date: Jan-10, 1976
Date: Jan. 9, 1976

Driller: Leslie

Helper: P. Kainop

Arv. Job ____________________________  Hrs. ____________________________

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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Remarks:
Finished 72 hr. test @ 7:00 a.m. - Kept recorder going till 10:00 a.m. - Started dismantling everything on surface.

Signed: Jim Saki

Date: Jan. 9, 1976
Date: Jun- 8  1976   Job No. ______   Hole No. ______   Elevation ______ ft.
Customer: Han Kam   Location: Han, Kona

Driller: S. Leslie   12 Hrs.   Rig: ______
Helper: D. Kaimon   12 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.

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Remarks: Pumping continuously @ 272 GPM - Taking readings every 1/2 hr.

Signed: Tom Leslie   Date: Jun- 8  1976
**Date**: Jan 7, 1974  
**Job No.**:  
**Hole No.**:  
**Elevation**: ft.  

**Customer**: Home Ranch  
**Location**: Home Ranch  

**Driller**: J. Leslie  
**Rig**:  
**Helper**: D. Kaione  
**Gas**:  
**Oil**:  
**Helper**:  
**Hrs.**:  
**Repairs**:  
**Or. No.**:  

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

**Measurements**  

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

**Remarks**: Pumping continuously @ 272 G.P.M. - taking readings every 1/2 hr.  

**Signed**: Tim Delic  
**Date**: Jan 7, 1974
DRILLING LOG

Date: Jan 6 1976  
Job No.  
Hole No.  
Customer: Hanu Ranch  
Location: Hanu Maui

Driller: J. Leslie  
Hrs: 12  
Helper: A. Kainoa  
Hrs: 18

Rig:  
Gas:  
Oil:  
Repairs:  
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.  

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<th>Depth</th>
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Measurements

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</table>

Remarks:  
Started test at 7:00 a.m. - went to Hanu Ranch Garage  
Pick up 3 lbs. diesel fuel - weather still bad - using force

Signed: J. Leslie  
Date: Jan 6 1976.
**DRILLING LOG**

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

<table>
<thead>
<tr>
<th>Date</th>
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<th>Hole No.</th>
<th>Elevation ft.</th>
<th>Customer</th>
<th>Location</th>
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<tbody>
<tr>
<td>Jan-5</td>
<td></td>
<td></td>
<td></td>
<td>Han Ranch</td>
<td>Maui</td>
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<table>
<thead>
<tr>
<th>Driller</th>
<th>Hrs.</th>
<th>Rig</th>
</tr>
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<tbody>
<tr>
<td>J. Lesie</td>
<td>10</td>
<td></td>
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<table>
<thead>
<tr>
<th>Helper</th>
<th>Hrs.</th>
</tr>
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<tbody>
<tr>
<td>A. Tomin</td>
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<tr>
<th>Bit-Size</th>
<th>Type</th>
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<table>
<thead>
<tr>
<th>Casing-Size in., Length in hole ft. in., Amt. Perforated ft. in.</th>
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<thead>
<tr>
<th>Depth Start</th>
<th>Depth Stop</th>
<th>Feet Drilled</th>
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<tr>
<th>Water Levels, Time M ft., Time M ft.</th>
<th>Measurements</th>
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</table>

Remarks:
- Picked up machine for pump in Kubuki - Oholet to plane -
- Bad weather - couldn't get Datsun up to job - used Ruscoetum to get it to
- Job - worked on entire - put in new sand on.
- Cut all set up to run test - Engines didn't show up - didn't start test.

Signed: J. Lesie
Date: Jan-5 1976
**Date:** 12-20-75  
**Job No.:** 24-75  
**Hole No.:**  
**Elevation:** 40 ft.  
**Customer:** Haun Ranch  
**Location:** Hana Maui, HI  
**Driller:** T. Cunningham  
**Helper:** R. Lopez  
**10 Hrs. Rig:** 601  
**10 Hrs. Gas:**  
**10 Hrs. Oil:**  
**10 Hrs. Repairs:**  
**Arv. Job:**  
**Lv. Job:**  
**Or. No.:**  
**Bit-Size:**  
**Type:**  
**Casing-Size:**  
**10 in., Length in hole:** 42 ft.  
**Amt. Perforated:**  
**Depth Start:**  
**Depth Stop:**  
**Feet Drilled:**  
**Water Levels, Time M ft:**  
**Time M ft:**  

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**Remarks:**

- We shook up the pump, pump a little over an hour, pump 230 G.P.M. Run out of water.
- Pump down 0 - 0 - water completely clean after a couple of minutes.

---

**Signed:** T. Cunningham  
**Date:** Dec 20, 1975
Date: 12-19-1975  Job No.: 24-75  Hole No.: Elevation: 401 ft.
Customer: Hana Ranch  Location: Hana, Maui, Hi.

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

Bit-Size:  Type: 
Casing-Size: 10 in., Length in hole: 426 ft.  in., Amt. Perforated: 2 ft.  in.
Depth Start:  ft., Depth Stop:  ft., Feet Drilled: 
Water Levels, Time: M ft., Time: M ft.  

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<tbody>
<tr>
<td></td>
<td></td>
<td>We set the 5' length of 4&quot; pump at 10 ft. &amp; air line</td>
<td></td>
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</tbody>
</table>

Remarks:

Signed: T. Cunningham  Date: Dec. 19-1975
Date: 12-18-1975  
Job No. 24-75  
Hole No. Elevation ft.

Customer:  

Driller: Cunningham  10 Hrs. Rig: 600
Helper:  
Arv. Job _______________  Lv. Job _______________  Hrs. _______________

Rig Type:  

Location:  

Hrs. Gas ___________________  Oil ___________________

Hrs. Repairs _________________

Or. No. ____________________

Bit-Size ___________________  Type ___________________

Casing-Size 10 in., Length in hole 26 ft., in., Amt. Perforated 3 2 ft. in.

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

Water Levels, Time ______ M 395 3 ft., Time ______ M ______ ft.

Measurements

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<tr>
<th>Depth</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>We pull out all the 4&quot; pump &amp; equipment from the County well (Red Sam Job.) About 22 ft. of pump.</td>
<td></td>
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<tr>
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<td></td>
<td>Hand all the Pump &amp; Equipment up to our location home bench. Clean some of the Pump.</td>
<td></td>
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</table>

Remarks:

Signed: Troy Cunningham  Date: Dec. 18 - 1975

Made by: Troy Cunningham  Date: Dec 18 - 1975
**DRILLING LOG**

**RUSCOE MOSS COMPANY**

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

---

**Date:** 12-17 - 1925  
**Job No.:** 24-75  
**Hole No.:**  
**Elevation:** 401 ft.

**Customer:** Red Sam & Hana Ranch  
**Location:** Hana, Maui Hi

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

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

**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.**

---

**Depth**  
**Formation**  
**Remarks**  
**Top**  

---

**Measurements**

---

**Remarks:**  
We moved some pumping equipment from the county well (Red Sam) up to our job Hana Ranch  
We put a larger line onto the truck  
(then we went on Red Sam, finish pumping)

---

**Signed:** T. Cunningham  
**Date:** Dec. 17 1925
**DRILLING LOG**

---

**Date:** 12-16-1975  
**Job No.:** 2475  
**Hole No.:**  
**Elevation:** 401 ft.

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

**Driller:** T. Cunningham  
**Helper:** R. Lopez

**Hrs.**  
**Rig:** 606  
**Gas:**  
**Oil:**  
**Repairs:**

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

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

**Casing-Size:** 10 in., **Length in hole:** 426 ft., **Amt. Perforated:** 32 ft., in.

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

**Water Levels, Time:** M 792 ft., **Time:** M ft.

---

**Depth**  
**Formation**  
**Remarks**  
**Top**

<table>
<thead>
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<th>A</th>
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</table>

**Remarks:**

We finished the 10" Casing and set it into the well 426 ft. Casing line is 1 1/2" above ground level.

Casing set at 425 ft from ground level.

Size: 7 ft x 9".

---

**Remarks:**

We went down to the bottom of well with the tail run the bit some 30 ft with the Casing down. Couldn't bail out any material.

---

**Signed:** T. Cunningham  
**Date:** Dec. 16-1975
**DRILLING LOG**

**RUSCOE MOSS COMPANY**

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Job No.</th>
<th>Hole No.</th>
<th>Elevation</th>
<th>Customer</th>
<th>Location</th>
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<tbody>
<tr>
<td>12-15-1975</td>
<td>24-75</td>
<td></td>
<td>4.1</td>
<td>Hana Ranch</td>
<td>Hana, Maui</td>
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<table>
<thead>
<tr>
<th>Driller</th>
<th>Helper 1</th>
<th>Helper 2</th>
<th>Rig</th>
<th>Gas</th>
<th>Oil</th>
<th>Repairs</th>
<th>Or. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. Cunningham</td>
<td></td>
<td></td>
<td>10 Hrs.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>P. Lopez</td>
<td></td>
<td>10 Hrs.</td>
<td></td>
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<table>
<thead>
<tr>
<th>Bit-Size</th>
<th>Type</th>
<th>Casing-Size</th>
<th>Length in hole</th>
<th>Amt. Perforated</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>10</td>
<td>15 ft.</td>
<td>32 ft.</td>
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<table>
<thead>
<tr>
<th>Depth Start</th>
<th>Depth Stop</th>
<th>Feet Drilled</th>
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<th>Water Levels, Time</th>
<th>M</th>
<th>ft.</th>
<th>Time</th>
<th>M</th>
<th>ft.</th>
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**Measurements**

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**Remarks:**

We Pick up 2-8FT. Joint of 10" perforated Casing from Hana Ranch via freight.  Put in Hana Ranch.

Then it was set in about 10 1/2' FT. Of 10" Casing.  Excluding 32' FT. Perforated for.

Signed: Troy Cunningham  Date: Dec. 15-1975
Date: 12-12-1975 Job No: 9-75  Hole No: 29-75  Elevation: 261 ft.

Customer: Fina Ranch  Location: Hanu Maui

Driller: Cunningham  4 Hrs.  Rig: 600
Helper: P. Lopez  4 Hrs.  Gas:  Oil


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>
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Measurements

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Remarks: Waiting for Closing.
we change some time on the package

Signed: T. Cunningham  Date: Dec. 12, 1975

Remarks: leave for home at 6:35 pm
**DRILLING LOG**

RUSCOE MOSS COMPANY

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TELEPHONE (808) 839-6888 • 833-1444

---

Date: 12-11-1975  
Job No.: 24-75  
Hole No.: Z9  
Elevation: 401 ft.  
Location: Hawaii, Hi.

Driller: Cunningham  
5 Hrs. Rig: 60

Helper: Lopez  
4 Hrs. Gas:  
Oil:  
Repairs: 

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>
<th>Depth</th>
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---

Remarks:

"We want to come in some perforated casing"

---

Signed: Cunningham  
Date: Dec. 11 - 1975
Date: 12-10-1975  
Job No.: 24075  
Hole No.:  
Elevation: 401 ft.  
Customer: Hana Paniy  
Location: Hana Maui, HI  
Driller: Cunningham  
Hrs.: 8  
Rig: 60  
Helper:  
Hrs.: 8  
Gas:  
Oil:  
Repairs:  
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.  

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Remarks:

Signed: Ray Cunningham  
Date: Dec, 10 - 1975
| Date       | 12-9-75 | Job No. | 24-75 | Hole No. | Elevation 401 ft.
<table>
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</thead>
<tbody>
<tr>
<td>Customer</td>
<td>Hana</td>
<td>Location</td>
<td>Hana</td>
<td>Maui</td>
<td></td>
</tr>
<tr>
<td>Driller</td>
<td>T. Cunningham</td>
<td>10 Hrs.</td>
<td>Rig 606</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Helper</td>
<td>R. Lopez</td>
<td>10 Hrs.</td>
<td>Gas</td>
<td>Oil</td>
<td></td>
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</tbody>
</table>

Bit-Size


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

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

<table>
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<tr>
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<th>Remarks</th>
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</table>

- We make trip into familiar river. About noon gas and oil. Stop after gas flow.
- Return to Hana job. We start replacing the casing.
- Ends worn out all of our guides, dick.

Remarks: Rain most of the afternoon.

Signed: T. Cunningham Date: Dec. 9-75
Date: 12-8-1975  
Job No: 24-75  
Hole No:  
Elevation: 401 ft.

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

Driller: J. Cunningham  
Rig Loc:  
Hrs: 10  
Gas:  
Oil:  
Repairs:  
Arv. Job:  
Lv. Job:  
Hrs:  
Or. No:  

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>
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<th>Depth</th>
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Remarks:

- We pull out all of the 10" casing.
- We check the hole after removing the casing.
- We have maybe one or two kids.

Signed: J. Cunningham  
Date: Dec. 8-1975
Date: 12-6-1975  Job No. 24-75  Hole No. __________ Elevation __________ ft.
Customer: Hana Ranch  Location: Hana, Maui

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

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.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
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</thead>
<tbody>
<tr>
<td>425</td>
<td>First Rock</td>
<td></td>
<td></td>
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<tr>
<td>424</td>
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</table>

We did not fill the last 100 ft. Hard to make any holes. We try to turn the casing in 1/4 hole.

We try to put some gravel around outside of casing.

We put a gravel pass down to the bottom of the well.

Remarks:

We go to Sam Leslie John Hubi, put one 10” length of 10” casing

Signed: T. Cunningham  Date: Dec. 6-1975
RUSCOE MOSS COMPANY

Date: 12-5-1975  
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.  
Gas:  
Oil:  
Repairs:

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

Bit-Size: 9  
Type: for bulb

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

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

Water Levels, Time:  
M: 4920 ft., Time:  

Measurements

Depth  
Formation  
Remarks  
Top

420  
Black Rock

425

Remarks: We try to help Larry in one load of gravel, but truck stuck in sand (245 bush).
Date: 12-4-1975  
Job No.: 24-75  
Hole No.:  
Elevation: 401 ft.  

Customer: Hana Island   
Location: Hana, Maui, HI

Driller: T. Cunningham  
10 Hrs.  
Rig: 604

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

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

Bit-Size: 9  
Type: Diffused


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

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

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

Notes: 

We made Trip to Hana for 1 Small 2" Bush.  
Waited and see Job Clear before returning to  
Hana, Job Site

Remarks: We pick up oxygen and acetylene in Hana.

Signed: T. Cunningham  
Date: Dec. 4-1975
Date: 12-3-75  Job No.: 24-75  Hole No.: Elevation: 401 ft.
Customer: Hanu Ranch  Location: Hanu, Maui, Hi.
Driller: T. Cunningham  Hrs.: 10  Rig: 601
Helper: R. Lopez  Hrs.: 10  Gas: Oil
Arv. Job:  Hrs.:  Or. No.: 
Lv. Job:  Hrs.:  

Bit-Size: 9  Type: Steel Shell
Depth Start: 41 ft.  Depth Stop: 230 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>
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</thead>
<tbody>
<tr>
<td>41</td>
<td>Black Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>230</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

drilling, don't make any Mud - Connect Tool out
Any Material  Hard Drilling

Remarks:

Signed: T. Cunningham  Date: Dec. 3, 1975
Date: 12-2-1975  
Job No.: 29-75  
Hole No.:  
Elevation: 401 ft.

Customer: Mauna Kea Drilling Co.
Location: Hilo, Big Island

Driller: Cunningham  
Hrs.: 10  
Rig: CCL

Helper: Lopez  
Hrs.: 10  
Gas: Oil

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

Bit Size: 9  
Type:  

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

Depth Start: 415 ft.  
Depth Stop: 418 ft.  
Feet Drilled: 3

Water Levels:  
Time: M 39.5 ft.  
Time: M ft.

Measurements

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<th>Remarks</th>
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<tr>
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<td>Black Rock</td>
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<td></td>
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<tr>
<td>418</td>
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Remarks:

We finish 418 ft. 1 1/2 casing.

Total casing set in the well 418 ft.

Shot 3-3/4 x 8 1/16

We put on the 9" 11/2 started drill.

Casing follower down about 2 ft.

1 1/2 well on a couple hung up casing to

Hold up the casing.

I cut the bit hung down to 81/2 inches.

Signed: Cunningham  
Date: Dec. 2 - 1975
Date: 12-1-1975  Job No: 22-75  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.

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

Bit-Size:  
Type:  


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

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

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<tr>
<td></td>
<td></td>
<td>We arrive Maui. - 8:30 am.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Go to job site. Set in about 153 ft. of</td>
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<tr>
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<td></td>
<td>16&quot; Casing. That have bad time welding</td>
</tr>
<tr>
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<td></td>
<td>due to of rain. Most of the day</td>
</tr>
</tbody>
</table>

 Signed: T. Cunningham  Date: Dec. 1, 1975
Date: 11-26-1975  
Job No: 24-7  
Hole No:  
Elevation: ft.

Customer: Mana Ranch  
Location: Maui Ward

Driller: T. Cunningham  
Rig:  
Hrs: 8

Helper:  
Hrs:  
Gas:  
Oil:  
Repaired:  

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.  

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Remarks:  

Signed: T. Cunningham  
Date: Dec 26, 1975
Date: 11-25-1975  
Job No: 24-25  
Hole No:  
Elevation: 401 ft.

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

Driller: Cunningham  
8 Hrs.  
Rig: 60C

Helper: Lopez  
8 Hrs.  
Gas: Oil  
RePAIRS:

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

<table>
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<th>Bit-Size</th>
<th>Type</th>
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<table>
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<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>
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<thead>
<tr>
<th>Depth Start</th>
<th>ft., Depth Stop</th>
<th>ft., Feet Drilled</th>
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<tr>
<th>Water Levels, Time</th>
<th>M</th>
<th>ft., Time</th>
<th>M</th>
<th>ft.</th>
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I go to the Ranch Shop, get one truck driver to come out to site, we have the truck coming lead of casing down to the start. We very much unload our casing with the Ranch Truck.

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

Signed: Roy Cunningham  
Date: Nov. 25, 1975
Date: 11-24-1975  
Job No.: 24-75  
Hole No.:  
Elevation: 401 ft.

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

Driller: T. Cunningham  8 Hrs.  
Rig Oil.

Helper: R. Lopez  8 Hrs.  
Repairs.

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

Bit-Size:  
Type:  


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

Water Levels, Time: M 395.4 ft., Time: M:  

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

Remarks:  
Take water sample for analysis. We try pull the road up to job site with direct traction 4x4 truck. Drive water truck & unable to do so. Muddy. Take the casing in with a cat back in the day.

Signed: T. Cunningham  Date: Nov. 24 - 1975
Date: 11-22-1925  Job No. 24-75  Hole No.  Elevation: 9.01 ft.

Customer: Hana Ranch

Location: Hana Ranch

Driller: T. Cunningham  8 Hrs.  Rig: 80C

Helper: T. Lopez  8 Hrs.


Bit-Size  Type


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

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

We help unload the 10” Casing to day.
We load the Casing into # Hana Ranch.

Arv. 9-10 am.  Up at 7 to take up to Hana Ranch.

[Signatures and date: T. Cunningham  Dec 22 1925]
Date: 11-21-1975  Job No: 24-73  Hole No: 4-73  Elevation: 401 ft.

Customer: Hana Ranch  Location: Hana, Maui - HI

Driller: T. Cunningham  8 Hrs.  Rig: 601
Helper: M. Lepea  8 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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We made trip to Makena to pick up the 10" Spider for ships from the dock.
See string tooling hire them to pick up the cement tank & 2" pipe bring to Hana along with the casing.

Remarks:

Signed: T. Cunningham  Date: 12-21-1975
Date: 11-20-1975  
Job No: 24-75  
Hole No: 
Elevation: 401 ft.

Customer: Hana Ranch  
Location: Hana, Maui, HI

Driller: T. Cunningham  
Hrs: 8  
Rig: GO

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

Arv. Job:  
Lv. Job:  

Bit-Size 14  
Type: 

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

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

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


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</tr>
</tbody>
</table>

Measurements


Remarks:

We check Red Sam, Joe about the Pump.
I call Griffin checking they are to bring their 10" Casing down Saturday.

We take off the 14" test. Clay, rock and some material.

Signed: T. Cunningham  
Date: Nov. 20, 1975
<table>
<thead>
<tr>
<th>Date</th>
<th>Job No.</th>
<th>Location</th>
<th>Elevation</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-19 1975</td>
<td>34-75</td>
<td>Hana, Maui, HI</td>
<td>401 ft.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Driller</th>
<th>Helper</th>
<th>Hours</th>
<th>Rig</th>
<th>Hrs.</th>
<th>Gas</th>
<th>Oil</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. Cunningham</td>
<td>P. Lopez</td>
<td>10</td>
<td>604</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

<table>
<thead>
<tr>
<th>Depth Start</th>
<th>Depth Stop</th>
<th>Feet Drilled</th>
<th>Water Levels, Time</th>
<th>M</th>
<th>39 ft.</th>
<th>Time</th>
<th>M</th>
<th>ft.</th>
<th>Measurements</th>
</tr>
</thead>
<tbody>
<tr>
<td>414</td>
<td>415</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth</th>
<th>Remarks</th>
<th>Top</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>414</td>
<td>Hard Gray, 10% Pct. With Soft Rocks</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>415</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:**
- We tried to Bit 24 once, it is very hard to trail any material out of the well.
- Call on US Honolulu (813) checking on casing.

**Signed:**
- T. Cunningham
- Date: Feb. 19 1975
Date: 11-18 - 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.  | Gas: Oil


Bit-Size: 14  | Type: Star

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

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

Water Levels, Time:  
M 39  
ft., Time: M  
ft.

---

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>410</td>
<td>Hard Clay &amp;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>414</td>
<td>rock, base with soft rock</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We don’t make any mud, drilling and cutting hand to hand out the cutting material. If we break it on the choke socket.

Signed: T. Cunningham  | Date: Nov. 18, 1975.
Date: 11-17-1975  
Job No: 24-75  
Elevation: 401 ft.

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

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

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

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

Bit-Size: 14  
Type: 5/8

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

Depth Start: 408 ft., Depth Stop: 410 ft., Feet Drilled: 2

Water Levels, Time: M 796 ft., Time: M  

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>408</td>
<td>Hand Brown Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>410</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We go into Takaui, check on our well casing, return to job site. I weld on one clay hanger. We pull hanger.

Signed: T. Cunningham  
Date: 11-17-1975
<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>407</td>
<td>Hard Pumice Rock,</td>
<td>making as much only cutting, material very dry, don't do any damage to bit only some wear.</td>
<td></td>
</tr>
<tr>
<td>408</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We may be down to depth 409, material settles back into bottom will fill one ft.

Signed: [Signature]  Date: Nov 15, 1975
## Drilling Report

**Date:** 11-14-1925  
**Job No.:** 24-75  
**Location:** Hana, Maui, HI

<table>
<thead>
<tr>
<th>Customer</th>
<th>Hana Ranch</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Driller</th>
<th>T. Cunningham</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Helper</th>
<th>R. Lepiz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Arv. Job</th>
<th>Lv. Job</th>
</tr>
</thead>
</table>

| Rig     | 60c |

<table>
<thead>
<tr>
<th>Gas</th>
<th>Oil</th>
</tr>
</thead>
</table>

**Depth:**

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>401</td>
<td>Hard Bamon Rock</td>
<td>Measures no sand, the material we take out is fine as silk and very heavy.</td>
<td></td>
</tr>
<tr>
<td>407</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Water Levels:**

- Time: 7:00 AM 496 ft., Time: 7:00 PM 392 ft.

**Measurements**

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

**Signed:** Roy Cunningham, 207/14/1925
Date: 11/13/1975  
Job No: 24-75  
Hole No:  
Elevation: 401 ft.

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

**Driller:** T. Cunningham  
**Helper:** R. Lopez

**Rig:** 606  
**Gas:**  
**Oil:**  
**Repairs:**

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

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

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

**Depth Start:** 400 ft., Depth Stop: 406 ft., Feet Drilled: 6

**Water Levels, Time:**  
7:00 AM 389 ft., Time 400 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 Tuff Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>405</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>407</td>
<td>Hard Black Brown Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>406</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Measurements**

**Depth** | **Formation** | **Remarks** | **Top**
--- | --- | --- | ---
| 400 | Med. Hard Grey Tuff Rock |          |     |
| 405 |            |          |     |
| 407 | Hard Black Brown Rock |          |     |
| 406 |            |          |     |

**Remarks:** Rabbit on the Pipe Sock; we check water level morning 385', afternoon 395'

**Signed:** Troy Cunningham  
**Date:** Nov. 13, 1975
Date: 11-12-1975  
Job No.: 24-75  
Hole No.:  
Elevation: 765 ft.  
Customer: Hana Ranch  
Location: Hana, Maui  

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

Bit-Size: 14  
Type:  

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

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 | Grey & B&W. Rock & Clay |  |
395 |  |
400 |  |

Remarks: We build up bit 2 times.  
Need much water yet, tried to flood well yesterday.  

Signed: T. Cunningham  
Date: 12-12-1975
Date: 11-11-1975  
Job No.: 24-72  
Hole No.:  
Elevation: 401 ft.

Customer: Hana Ranch  
Location: Maui, HI

Driller: T. Cunningham  
10 Hrs.  
Rig: 601

Helper: R. Lopez  
10 Hrs.  

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

Bit-Size: 14  
Type:  


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 Bk</td>
<td>Build up Bit 3 Times</td>
<td></td>
</tr>
<tr>
<td>384</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We splice in 2 strands into sand line (slip proof)

Signed: T.J. Cunningham  
Date: Nov. 11, 1975
Date: 11-10-1975  
Job No.: 24-75  
Hole No.:  
Elevation: 401 ft.  

Customer: Hana Ranch  
Location: Hana, Maui  

Driller: T. Cunningham  
16 Hrs.  
Rig: 601  

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

Arv. Job:  
Lv. Job:  
Hrs.:  

Bit-Size: 14  
Type:  

Casing-Size:  


Water Levels, Time:  

Depth | Formation  | Remarks | Top | Measurements  
-----|------------|---------|-----|--------------  
377  | Hard Black |          |     |               
781  |           |          |     |               

Remarks: We build up the bit 3 times  

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

Customer: Hana Ranch  
Location: Hana, Maui, HI  

Driller: T. Cunningham  
Hrs.: 8  
Rig: 600  
Helper: R. Lopez  
Hrs.: 8  
Gas:  
Oil:  
Repairs:  
Arv. Job:  
Lv. Job:  
Hrs.:  
Or. No.:  

Bit-Size:  
Type:  

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

Depth Start: 327 ft., Depth Stop: 377 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>327</td>
<td>Hard Rock To Bunk</td>
<td></td>
<td></td>
</tr>
<tr>
<td>377</td>
<td></td>
<td>formation has some thin soft stone.</td>
<td></td>
</tr>
</tbody>
</table>

Measurements:  

Remarks: We twisted on the rope socket  
Don't make much mud drilling  

Signed: T. Cunningham  
Date: 11-9-1975
### Job Log

**Date:** 11-8-1975  
**Job No:** 24-75  
**Hole No:**  
**Elevation:** 401 ft.

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

**Driller:** J. Cunningham  
**Helper:** R. Lopez  
**Helper:**  
**Arv. Job:**  
**Lv. Job:**  
**Or. No.:**

<table>
<thead>
<tr>
<th>Field</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rig No.</td>
<td>60-1</td>
</tr>
<tr>
<td>Hrs. Gas</td>
<td></td>
</tr>
<tr>
<td>Hrs. Oil</td>
<td></td>
</tr>
<tr>
<td>Repairs</td>
<td></td>
</tr>
<tr>
<td>Or. No.</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Star</td>
</tr>
<tr>
<td>Bit-Size</td>
<td>14</td>
</tr>
<tr>
<td>Casing-Size</td>
<td></td>
</tr>
<tr>
<td>in., Length in hole</td>
<td></td>
</tr>
<tr>
<td>ft., in., Amt. Perforated</td>
<td></td>
</tr>
<tr>
<td>Depth Start</td>
<td>370 ft.</td>
</tr>
<tr>
<td>Depth Stop</td>
<td>374 ft.</td>
</tr>
<tr>
<td>Feet Drilled</td>
<td>4</td>
</tr>
</tbody>
</table>

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

**Depth**  
**Formation**  
**Remarks**  
**Top**

- 369 ft.  
  **Head Black Rock.**  
  Represents husband's a girtum  
  or bunch of materials  
  while drilling  

- 374 ft.  
  Not making much mud  
  Possibly digesting a little water  

**Remarks:** We may have a little water seeping coming into well  
from about 350' depth down—  
we bail down to about 10 ft. level previous evening (this day level  
was up 10 ft. (20 to 25 ft. water level, all bottoms)

**Signs:** J. Cunningham  
**Date:** 11-8-1975
Date: 11-7-1975  Job No.: 24-75  Hole No.: Elevation: 401 ft.

Customer: Halea Ranch  Location: Halea, Maui, HI

Driller: T. Cunningham  10 Hrs.  Rig: 60C
Helper: R. Lopez  10 Hrs.


Bit-Size: 14  Type: Stun


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>352/369</td>
<td>Gray sand, rock &amp; clay</td>
<td>Fairly soft</td>
<td></td>
</tr>
</tbody>
</table>

Measurements

Remarks: We build up the bit once own drilling fluid via changing up above.

Signed: Roy Cunningham  Date: 11-7-1975
Date: 11-6-1975  
Job No.: 24-75  
Hole No.:  
Elevation: 401 ft.  

Customer: Hanamai Company  
Location: Hanamaui, H.  

Driller: T. Cunningham  
10 Hrs.  
Rig: 600  

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

Bit-Size:  
Type:  

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

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

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

Depth  
Formation  
Remarks  
Top  

340  
Grey A Brown Rock & Clay  

Measurements  
A  
B  

Remarks: We Hung The Ricker going on the Job 90' from Surface Large Boulder fell this way we Put on the 9' Bar & Knocked it Out  

Signed: T. Cunningham  
Date: Nov. 6, 1975
Date: 11-5-1975  Job No: 24-75  Hole No:  Location: Hana Ranch

Customer: Hana Ranch  Driller: T. Cunningham  10 Hrs.  Rig: 50L

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


Bit-Size: 14  Type: Std


Depth Start: 332 ft.  Depth Stop: 340 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>332</td>
<td>Med hard clay &amp; trail rock w/ soft streaks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>340</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We break the hug of the bit some, Build up the bit 3 times

Signed: T. Cunningham  Date: Jan 5 - 1975
**Ruscoe Moss Company**

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

---

**Date**: 11-4-1975  
**Job No.**: 24-75  
**Hole No.**:  
**Elevation**: 401 ft.

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

**Driller**: Ti Cunningham  
**Hrs.**: 9  
**Rig**: 60C

**Helper**: R. Lopez  
**Hrs.**: 9  
**Gas**:  
**Oil**:  
**Repairs**:  
**Arv. Job**:  
**Lv. Job**:  
**Or. No.**:  

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

**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.

---

**Depth** | **Formation** | **Remarks** | **Top**
--- | --- | --- | ---
326 | Med. hard gray & Opn. Rock w/ soft Shales |  |
332 |  |  |

---

**Remarks**: We arrive Hanahei 7:30 AM. We pick up one drum of gas & one of diesel - for Job.

---

**Signed**: Ti Cunningham  
**Date**: 11-4-1975
**Date:** 10-31-1975  
**Job No.:** 24-75  
**Hole No.:**  
**Elevation:** 401 ft.

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

**Driller:** J. Cunningham  
**Hrs.:** 9  
**Rig:** 60C

**Helper:** R. Lopez  
**Hrs.:** 9

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

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

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

**Depth Start:** 318 ft.  
**Depth Stop:** 326 ft.  
**Feet Drilled:** 8

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

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>326</td>
<td>Some of the Rock is Hard, Better the Bet, Some</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:** We get some Post came down.

**Signed:** J. Cunningham  
**Date:** Oct 31-1975
Date: 10-30-75  
Job No.: 24-75  
Hole No.:  
Elevation: 701 ft.

Customer: Hanu - Ranch  
Location: Hanu, Maui hi.

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

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

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

Bit-Size: 14  
Type: Star  


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>306</td>
<td>Hard, Gray, BGN, Rock, with soft Strata.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>318</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

We Build up the Bit twice.

Remarks: Formation from 31' to 318' is partially loose, clays & Crevasses. Things the Bit can't keep up in the Well. We have too much water.

Signed: T. Cunningham  
Date: Oct. 30, 1975.
Date 10-29-75   Job No. 24-75   Hole No. ___________   Elevation 401 ft.

Customer: Hana Ranch   Location: HANA, MAUI, HI

Driller: T. Cunningham   10 Hrs. Rig 606
Helper: R. Lopez   10 Hrs.

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

Bit-Size ___________   Type ___________.

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

Depth Start: 300 ft.  Depth Stop: 306 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>299</td>
<td>med. hard gray sand, rich with soft shelly</td>
<td></td>
</tr>
<tr>
<td>306</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

We drill out 10 ft. of caulk fill.

Remarks: About 5 ft. was bridged over.

Signed: T. Cunningham   Date: Oct. 29-75
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: P. Lopez  
10 Hrs.  

Arv. Job:  
Lv. Job:  

Bit Size:  
Type: Star  


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

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

Measurements:  

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

Remarks:  

we make another Trip to take Pick up one 8" Bails return hold the Bails up.  
We pull off the Sandline, change ends.  
we put the 14" Bit. Back on.  

Signed: T. Cunningham  
Date: Oct. 28, 1975
Date: 10-27-1975  
Job No.: 24-75  
Hole No.:  
Elevation: 461 ft.

Customer: Hana Ranch  
Location: Hana Ranch

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

Helper: R. Lopez  
Hrs.: 10 Hrs.  
Reps.:  
Arv. Job:  
Lv. Job:  
Hrs.:  
Or. No.:  

Bit-Size: 4  
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>
<th>Measurements</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>B</td>
</tr>
</tbody>
</table>

Remarks:

we make the Trip To H. Brown Jet  
at Tiku' Pick up one 10" Bit  
Return To Hana Change Bit to 8"  
we use the Bit as a bumper, we get the  
Bails Out. —

Signed: T. Cunningham  
Date: Oct 27, 1975
**Date**: 10-26-75  
**Job No.**: 24-75  
**Hole No.**: 9  
**Location**: Hana, Maui  

**Customer**: Hana Ranch  
**Depth Start**: 293 ft.  
**Depth Stop**: 300 ft.  
**Feet Drilled**: 7  
**Elevation**: 401 ft.  

**Driller**: T. Cunningham  
**9 Hrs.**  
**Rig**: 600  
**Helper**: R. Lopez  
**9 Hrs.**  

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

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

**Casing-Size**: in., Length in hole ft. in., Amt. Perforated ft. in.  
**Water Levels, Time**: M ft., Time M ft.  

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
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<tbody>
<tr>
<td>293</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>299</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>293</td>
<td>Gray &amp; BPN Rock &amp; Clay &amp; Sand &amp; Shale &amp; Streem</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks**: We have a case in on top of the trailer. Hang the bailing hook on the casing line. Pull the Bailer about 4 ft. up. I but came no more.

**Signed**: T. Cunningham  
**Date**: Oct 26 - 1975
<table>
<thead>
<tr>
<th>Date</th>
<th>10-25-75</th>
<th>Job No.</th>
<th>24-75</th>
<th>Location</th>
<th>Hana, Maui</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer</td>
<td>Hana Ranch</td>
<td>Hole No.</td>
<td></td>
<td>Elevation</td>
<td>401 ft</td>
</tr>
<tr>
<td>Driller</td>
<td>T. Cunningham</td>
<td>Hours</td>
<td>10</td>
<td>Rig</td>
<td>601</td>
</tr>
<tr>
<td>Helper</td>
<td>R. Lopez</td>
<td>Hours</td>
<td>10</td>
<td>Gas</td>
<td>Oil</td>
</tr>
<tr>
<td>Helper</td>
<td></td>
<td>Hours</td>
<td></td>
<td>Repairs</td>
<td></td>
</tr>
<tr>
<td>Arv. Job</td>
<td></td>
<td></td>
<td></td>
<td>Or. No.</td>
<td></td>
</tr>
</tbody>
</table>

- Bit-Size: 14
- Type: Star
- Depth Start: 280 ft., Depth Stop: 293 ft., Feet Drilled: 13

**Measurements**

<table>
<thead>
<tr>
<th>Depth</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>280</td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>293</td>
<td></td>
<td>B</td>
</tr>
</tbody>
</table>

**Water Levels, Time**

- M 4 ft., Time M 4 ft.

**Depth**

- 280 ft.
- 293 ft.

**Remarks:**

- we have one strand to break in the drill cable
- we cut off about 65 ft. of line, Rebuild conn
- some Rocks can

**Signed:**

- T. Cunningham
- Date: Oct. 25-1975
Date: 10-24-1975  Job No.: 34-7w  Hole No.:  Elevation: 401 ft.
Customer: Hana Ranch  Location: Hana, Maui, HI

Driller: J. Cunningham  10 Hrs.  Rig: 60c
Helper: J. Lopes  10 Hrs.

Arv. Job__  Lv. Job__  Or. No._

Bit Size: 14  Type: Stk

Depth Start: 265 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>265</td>
<td>Gley SDH. Rock &amp; clay with hard streaks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>280</td>
<td>We have Rock Casing on some most of the Time while drilling</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurements

Remarks: We build up the bit once

Signed: J. Cunningham  Date: Oct. 24 - 1975
Date: 10-23-1975  
Job No.: 2476  
Hole No.:  
Elevation: 401 ft.

Customer: Mana Ranch  
Location: Hana, Maui, HI

Driller: T. Cunningham  
Helper: R. Lopez  
Arv. Job:  
Lv. Job:  
Or. No.:  
Hrs.: 10  
Rig: Oil

Hrs.: 10  
Gas:  
Oil:  
Repairs:  

Bit-Size: 14'  
Type: Stan

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

Depth Start: 246 ft., Depth Stop: 265 ft., Feet Drilled: 19

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

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>246</td>
<td>Gray L&amp;M, Rock &amp; Clay with Hard Shells</td>
<td></td>
<td></td>
</tr>
<tr>
<td>265</td>
<td></td>
<td>Formation changed, More Soft from 246 - 265</td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We continue to have sanders come down while dilling, we have some trouble pulling on the bit coming out of the hole. We are 70 ft. from bottom, drive out, stuck. Replaced in the drill hole, at 80 ft. Beddington again.

Signed: T. Cunningham  
Date: Oct. 23-1975
**Date:** 10-22-75  
**Job No.:** 24-75  
**Hole No.:**  
**Elevation:** 401 ft.  
**Customer:** Hana Ranch  
**Location:** Hana, Maui - HI  
**Driller:** Jerry Cunningham  
**Rig:** G4C  
**Helper:** R. Lopez  
**Rig:** Gas  
**Hrs.:** 10  
**Rig:** Oil  
**Hrs.:** 10  
**Arv. Job:**  
**Lv. Job:**  
**Hrs.:**  
**Or. No.:**  
**Bit-Size:** 14  
**Type:**  
**Stnl:**  
**Casing-Size:**  
**Length in hole:**  
**ft. in., Amt. Perforated:**  
**Depth Start:** 236 ft.  
**Depth Stop:** 246 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>236</td>
<td>Grey silt, rocky clay with hard streaks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>239</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>239</td>
<td>Hard, hard greyish silt clay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>246</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:** WE build-up the Bit once.

**Signed:** Jerry Cunningham  
**Date:** Oct 22, 1975
Date: 10-21-1975  
Job No.: 24-75  
Hole No.:  
Elevation: 4-01 ft.

Customer: Hana Ranch  
Location: Hana, Maui, HI

Driller: T. Cunningham  
Helper: R. Lopez  
Rig: 601
Gas:  
Oil:  
Type: Star

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

Bit-Size: 14 in.  

Depth Start: 233 ft., Depth Stop: 236 ft., Feet Drilled: 3
Water Levels, Time: M  

Measurements

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>233</td>
<td>Grey + Gray, Rock + Clay + Shell, Shells</td>
<td></td>
<td></td>
</tr>
<tr>
<td>236</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We have come in about 12' Cinders + Rock, very hard. To get back to the Bottom (clean out) we take 6 to 7 hrs. cleaning out.

We use Aqua 71, mulch one sack & half cleaning out the casse.

Signed: T. Cunningham  
Date: Oct. 21 - 1975
Date: 10-20-1975  Job No.: 24-75  Hole No.: Elevation: 401 ft.
Customer: Hana Ranch  Location: Hana, Maui, Hi.
Driller: I. Cunningham  10 Hrs.  Rig: 60 C
Helper: R. Lopez  10 Hrs.  Gas: Oil

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

Bit-Size: 4  Type: 

Depth Start: 2 2 3 ft., Depth Stop: 2 3 3 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>2 2 3</td>
<td>Gray sand, Rock &amp; Clay, all hard streaks</td>
<td></td>
</tr>
<tr>
<td>2 3 3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

We have one strand to break on drill line 1600 ft.  Out of & Rabbit on.

Remarks: We have to put the spare tire on front wheel of water truck.  Painted Fire-tire.

Signed: Troy Cunningham  Date: Aug 20, 1975
Date 10-19-1975  Job No. 24-75  Hole No.  Elevation 401 ft.
Customer Hana Ranch  Location Hana, Maui - Hi

Driller  T. Cunningham  10 Hrs.  Rig  60L
Helper
Helper  R. Lopez  10 Hrs.

Bit-Size 14  Type Stk
Casing-Size ___________ in., Length in hole ___________ ft. ___________ in., Amt. Perforated ___________ ft. ___________ in.
Depth Start 216 ft., Depth Stop 223 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>215</td>
<td>Gray/Brown Back/clay with hard streaks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>223</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We came the bottom 5 ft, taking off one ledge about 3 hrs. we had the bit stuck about 15 minutes with a pack in top

Signed  T. Cunningham  Date  Oct. 19-1975
<table>
<thead>
<tr>
<th>Date</th>
<th>10-18-1975</th>
<th>Job No.</th>
<th>24-75</th>
<th>Hole No.</th>
<th>Elevation</th>
<th>401 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer</td>
<td>Hana Ranch</td>
<td>Location</td>
<td>Hana, MAU- HI</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Driller</td>
<td>T. Cunningham</td>
<td>10 Hrs.</td>
<td>Rig</td>
<td>60 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Helper</td>
<td>R. Lopez</td>
<td>10 Hrs.</td>
<td>Gas</td>
<td>Oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arv. Job</td>
<td></td>
<td>Lv. Job</td>
<td>Repairs</td>
<td></td>
<td></td>
<td></td>
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<table>
<thead>
<tr>
<th>Bit-Size</th>
<th>14</th>
<th>Type</th>
<th>Star</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing-Size</td>
<td>in.</td>
<td>Length in hole</td>
<td>ft.</td>
</tr>
<tr>
<td>Depth Start</td>
<td>204 ft.</td>
<td>Depth Stop</td>
<td>216 ft.</td>
</tr>
<tr>
<td>Water Levels, Time</td>
<td>M ft.</td>
<td>ft.</td>
<td>Time</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>204</td>
<td>Clay, sand with hard streaks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>215</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Build up bit once

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: 104L  

Helper: R. Lopez  
10 Hrs.  
Repairs:  

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

Bit-Size: 14  
Type:  

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

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></td>
<td></td>
<td></td>
</tr>
<tr>
<td>204</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Build up Bit once, continue to get some Radio's come down. We use some Aqua 4L.</td>
<td></td>
</tr>
</tbody>
</table>

Dreams:  
Signed: T. Cunningham  
Date: Oct. 17 - 1975
<table>
<thead>
<tr>
<th>Date</th>
<th>19/75</th>
<th>Job No.</th>
<th>94-75</th>
<th>Hole No.</th>
<th>Elevation</th>
<th>401 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customers</td>
<td>Hana Ranch</td>
<td>Location</td>
<td>Hana, Maui</td>
<td>14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Driller</td>
<td>J. Cunningham</td>
<td>10 Hrs.</td>
<td>Rig 60</td>
<td>60</td>
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<tr>
<td>Helper</td>
<td>R. Lopez</td>
<td>10 Hrs.</td>
<td>Gas.</td>
<td>Oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arv. Job</td>
<td></td>
<td>Lv. Job</td>
<td>Repairs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hrs.</td>
<td></td>
<td></td>
<td>Or. No.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bit-Size</td>
<td>14</td>
<td>Type</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Casing-Size</td>
<td>in.,</td>
<td>Length in hole</td>
<td>ft. in.,</td>
<td>Amt. Perforated</td>
<td>ft. in.</td>
<td></td>
</tr>
<tr>
<td>Depth Start</td>
<td>182 ft.</td>
<td>Depth Stop</td>
<td>190 ft.</td>
<td>Feet Drilled</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Water Levels, Time</td>
<td>M</td>
<td>ft. Time</td>
<td>M</td>
<td>ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remarks:</td>
<td>We build up the K-10 core.</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>182</td>
<td>Boulder &amp; B.R.C. Clay</td>
<td></td>
</tr>
<tr>
<td>185</td>
<td></td>
<td></td>
</tr>
<tr>
<td>190</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Signed: J. Cunningham  Date: Oct. 16 - 1975
<table>
<thead>
<tr>
<th>Date</th>
<th>10-15-1975</th>
<th>Job No.</th>
<th>24-75</th>
<th>Hole No.</th>
<th>Elevation</th>
<th>401 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer</td>
<td>Hana Ranch</td>
<td>Location</td>
<td>Hana, Maui, Maui</td>
<td>14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Driller</td>
<td>T. Cunningham</td>
<td>Hrs.</td>
<td>10 Hrs.</td>
<td>Rig</td>
<td>60 L</td>
<td></td>
</tr>
<tr>
<td>Helper</td>
<td>R. Lopez</td>
<td>Hrs.</td>
<td>10 Hrs.</td>
<td>Gas</td>
<td>Oil</td>
<td></td>
</tr>
<tr>
<td>Arv. Job</td>
<td></td>
<td></td>
<td></td>
<td>Repairs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lv. Job</td>
<td></td>
<td></td>
<td></td>
<td>Or. No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bit-Size</td>
<td>44</td>
<td>Type</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Casing-Size</td>
<td></td>
<td>in., Length in hole</td>
<td>ft.</td>
<td>Amt. Perforated</td>
<td>ft.</td>
<td>in.</td>
</tr>
<tr>
<td>Depth Start</td>
<td>175</td>
<td>ft.</td>
<td>Depth Stop</td>
<td>182</td>
<td>ft.</td>
<td>Feet Drilled</td>
</tr>
<tr>
<td>Water Levels, Time</td>
<td>M</td>
<td>ft., Time</td>
<td>M</td>
<td>ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remarks:</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>175</td>
<td>Boulder + BRN. Clay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>182</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:**
Jet quit at lunch. Rocks were dead. Then they bit up some having to redrill some and ruined.
Date: 10-14-1975  Job No.: 24-75  Hole No.:  Elevation: 401 ft.
Customer: Hana Ranch  Location: Hana, Maui, HI

Driller: T. Cunningham  10 Hrs.  Rig: 602
Helper: R. Lopez  10 Hrs.
Or. No.:

Bit-Size: 1/2  Type: Stan

Depth Start: 170 ft., Depth Stop: 175 ft., Feet Drilled: 5

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>165</td>
<td>Boulders &amp; ORN Clay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>175</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks:
- We picked up the Dodge Power wagon Taunt at the Ahi Pau, Hana
- Picked up one bottle of Oxygen around 9:30 at Hana
-Quit a bunch of birds came down from the cliffs touduit

Signed: T. Cunningham  Date: Oct. 14-1975
Date: 10-10-1975  
Job No.: 24-75  
Hole No.: 1  
Elevation: 401 ft.

Customer: Hanna Ranch  
Location: Hana, MAUI - HI

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

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

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

Bit-Size: 14  
Type: Star

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

Depth Start: 15  
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>135/165</td>
<td>Bar. Chug &amp; Laue Rock</td>
<td>Formation getting more hard mostly Rock</td>
<td></td>
</tr>
</tbody>
</table>

Remarks:  
We take the welder truck into Kekaha to pick it up at the airport.  
We were sure to get ice water to job site water tank broke down.

Signed: Tim Cunningham  
Date: Oct. 10, 1975
Date: 10-9-1975  
Job No: 94-75  
Hole No.  
Elevation: 401 ft.

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

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

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

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

Bit-Size: 14  
Type: Star

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

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

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>125</td>
<td>Soft-Rod Cinder &amp; Lava Rock</td>
<td></td>
</tr>
<tr>
<td>145</td>
<td></td>
<td></td>
</tr>
<tr>
<td>155</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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</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:

more rock from 145' to 155'

Signed: T. Cunningham  
Date: Oct. 9, 1975
Date: 10-8-1975  Job No: 24-75  Hole No: 1  Elevation 401 ft.
Customer: Hana Ranch  Location: Kaneohe, Oahu

Driller: T. Cunningham  11 Hrs.  Rig: 601
Helper: R. Lopez  11 Hrs.  Gas: Oil
Helper:  Hrs.  Repairs

Bit-Size: 14  Type: ST60
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 Iron with Hard Shale</td>
<td></td>
<td></td>
</tr>
<tr>
<td>104</td>
<td>Soft Redclays &amp; Lava Rock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>125</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: Build up the bit once

Signed: T. Cunningham  Date: Oct. 8-1975
Date: 10-7-1975  Job No: 24-75  Hole No:  Elevation: 401 ft.
Customer: Hana Ranch  Location: Hana, Maui

Driller: J. Cunningham  Hrs: Rig 60L
Helper: R. Lopez  Hrs: Gas
Helper:  Hrs: Oil

Arv. Job  Lv. Job  Hrs: Repairs

Bit-Size: 14  Type:  
Depth Start: 88 ft., Depth Stop: 97 ft., Feet Drilled: 9

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

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>98</td>
<td>Black &amp; Grey Rock with Hard Shale</td>
<td></td>
<td></td>
</tr>
<tr>
<td>97</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We Build up the Bitcone

Signed: J. Cunningham  Date: Oct. 7 - 1975
<table>
<thead>
<tr>
<th>Date</th>
<th>10-6-1975</th>
<th>Job No.</th>
<th>24-75</th>
<th>Hole No.</th>
<th>Elevation</th>
<th>4 ft 1 ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer</td>
<td>Hanakaa'ino</td>
<td>Location</td>
<td>Hana, Maui, HI</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Driller</td>
<td>Cunningham</td>
<td>11 Hrs.</td>
<td>Rig</td>
<td>Gas</td>
<td>Oil</td>
<td></td>
</tr>
<tr>
<td>Helper</td>
<td>R. Lopez</td>
<td>11 Hrs.</td>
<td>Repairs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arv. Job</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lv. Job</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hrs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remarks</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remarks</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Measurements**

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

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

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

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

**Depth**

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formtion</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>73</td>
<td>Black &amp; BRR. Rock with fluid. Stratum (Formation more)</td>
<td>88</td>
<td>(fluid) Silt</td>
</tr>
</tbody>
</table>

**Signed**

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

Customer: Kane Ranch  
Location: Kaneohe, Hi.

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

Helper: R. Lopez  
8 Hrs.  
Gas:  
Oil:  
Repaired:  

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

Bit-Size: 14  
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>
</tr>
</thead>
<tbody>
<tr>
<td>70</td>
<td>Med. Pink Black rock</td>
<td></td>
</tr>
<tr>
<td>73</td>
<td></td>
<td></td>
</tr>
<tr>
<td>73</td>
<td></td>
<td></td>
</tr>
<tr>
<td>78</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>We knock off a thin rock, possibly with the rock socket</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 604

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

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

**Bit-Size:** 14"  
**Type:**  
**Steel:**

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

**Depth Start:** 60 ft., Depth Stop 70 ft., Feet Drilled 10 ft.

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

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

**Remarks:** We had one load of water cut off road. Shit. I didn't make it with the job. I'm out.

(Signed)  
**Date:** Oct 3-1975
<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>we knock some rock down</td>
<td></td>
</tr>
<tr>
<td>60</td>
<td></td>
<td>Bobbi</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>we put on the gang</td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We build up the bit once. We hung up with bit 30 minutes before piton jam. Quite a lot of rain shown.

Signed: Tim Cunningham Date: Oct. 2 - 1975
Date: 10-1-1975  
Job No.: 247  
Hole No.:  
Elevation: 401 ft.  

Customer: mana  
Location:  

Driller: T. Cunningham  
Helper: R. Lop  
Arv. Job:  
Lv. Job:  
Repairs:  

Rig: 601  
Gas:  
Oil:  

Bit Size: 4  
Type: Steel  

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

Depth Start: 36 ft., Depth Stop: 45 ft., Feet Drilled: 9  

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

Depth  
Formation  
Remarks  
Top  

36  
Black Rock, will not hold fluid  
Just about one inch  
Hard rock, or soft rock  
Cannot build up the drilling fluid  
Above 6 or 7 ft.  
Sometimes only 15 ft.  

Remarks:  We build up the pit 2 times  

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

Driller: T. Cunningham    10 Hrs.
Helper: R. Lopez    10 Hrs.
Arv. Job    Lv. Job

Rig: 60
Gas:    Oil:

Helper's $    Repairs

Or. No.

Bit Size: 4
Type: Star

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

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>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>Gray and Red Rock, carbonates</td>
<td>With Hard streaks</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>34-36</td>
<td>Black Rock, with Hard streaks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>36</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: We lose and challenging fluid quite often.

Remarks: Build up the bit once.

Signed: T. Cunningham    Date: Sept 30-1975
Date: 9-29-1975  
Job No: 24-25  
Hole No:  
Elevation: 401 ft.
Customer: Hana Ranch  
Location: Hana, Maui - Hi.

Driller: J. Cunningham  
10 Hrs. Rig 604
Helper: R. Lopez  
10 Hrs. Repairs

Arv. Job  
Lv. Job  
Hrs.

Bit-Size: 14  
Type: Stk
Depth Start: 8 ft., Depth Stop: 24 ft., Feet Drilled: 16

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>Soil &amp; Condens</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Med. Hard Gray Sand</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Grey &amp; Red Rock</td>
<td>W. T. Fluid Stained</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Hard Streaks</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurements: A  

Remarks: We Build up the Test once  
we Put in 9 ft. 14" Conductor Casing

Signed: Judy Cunningham  
Date: Sept 29, 1975
Date: 9-27-1975  Job No.: 24-75  Hole No.:  Elevation: 401 ft.

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

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

Bit-Size: 4t  Type: Star


Depth Start: 0 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>

Measurements

- We found one load of water from Hana. Washed the bit and put up the stand pipe.
- Started drill and hard guy had rock at 3 ft. to 8 ft.

Remarks: We had to get set up before starting drilling.

We were out.

Signed: Tru 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: 60C

Helper: R. Lopez  
Hrs: 10

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

Bit-Size: 4  
Type: Star


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


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>we dig one starter hole 3' deep in area</td>
<td></td>
</tr>
</tbody>
</table>

Remarks:  
we build one Dog house  
I go into Hana to return the valley file finding  
Pick up all of my 12" Conductor Casing  
which amount 6 to 1-18' Joint  
1-6' Joint = 24 ft. 14"  
Had Valley Isle cut the 18' Joint, and headed in to Hana, in the pick-up  
we unloaded the weller and tied it, and headed up the water tank  

Signed: T. Cunningham  
Date: Sept 26, 1975
Date 9-25-1975  Job No. 24-24  Hole No.  Elevation 401 ft.
Customer: Harry Farnby  Location: Hana, Maui, hi.

Driller  J. Cunningham  10 Hrs.  Rig 60c
Helper  R. Lopez  10 Hrs.  Repairs

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

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

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

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

Measurements

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

Remarks:

- We finish blocking up the Rig. Raise the Rig set the anchored wire (Static).
- Repair oneahed block leg on the Rig.

Signed  Troy Cunningham  Date  Sept. 25 1975
Date: 9-24-1975
Job No: 24-75
Hole No: Location: Elevation: 401 ft.
Hana Ranch

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

Helper: R. Lopez 10 Hrs.
Gas: Oil


Bit-Size


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>
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<td></td>
</tr>
</tbody>
</table>

Measurements

Remarks: We got the Cut in Fox in about 9:00 Am. We work on location from about 9:00 to 1:00 pm. Then we start blocking up the Rig. After spotting the Rig on Drill Sticks we widened out of the well. We had quite a bit of shouldn't do.

Signed: T. Cunningham

Date: Sept. 24th, 1975
Date: 9-23-1975  
Job No.: 94-75  
Hole No.:  
Elevation: 401 ft.

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

Driller: T. Cunningham  
10 Hrs.  
Rig: 600

Helper: R. Lopez  
10 Hrs.

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

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

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

Measurements:

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

Remarks:

- We arrive Pokelu to go to the deck pick up the wrench truck loaded with drilling equipment pick up local fuel drive onto the well site at Hana
- See Mr. Henderson of Hana Ranch about cutting a cat for breaking up wild life

Signed: T. Cunningham  
Date: Sept. 23, 1975
Date: 9-22-1975  Job No. 4474  Hole No. ___________  Elevation ___________ ft.

Customer: Kauai Builders  Location: Hospital, Kapaa, Kauai

Driller: T. Cunningham  6 Hrs.  Rig ___________

Helper: R. Lopez  5 Hrs.  Gas ___________ Oil ___________

Arv. Job: ___________  Hrs.  Or. No. ___________

L. 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.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Jopy Change hole where on my co. tools</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>attach near Home off.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>We weld 2 top well flanges on.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 - In joint flanges on.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>We had some trouble to my house.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>They were lazy, stealing timber.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

Signed: T.J. Cunningham  Date: Sept. 22, 1975
Date 9-20 - 1971  
Job No. Hole No. Elevation ft. 
Customer: Hana Ranch  
Location: Hana, Maui. Hi.  
Driller: Cunningham  
Rig: 60C  
Helper: R. H. P.  
Arv. Job:  
Lv. Job:  
Bit-Size:  
Casing-Size in., Length in hole ft. in., Amt. Perforated ft. in.  
Depth Start ft., Depth Stop ft., Feet Drilled  
Hrs. Gas ________ Oil ________  
Hrs. Repairs ______________  
Hrs. Or. No. ____________  

<table>
<thead>
<tr>
<th>Depth Start ft.</th>
<th>Formation</th>
<th>Remarks</th>
<th>Top</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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 small a place. I see bill Harris at hana ranch about getting a cat in to fix one place for the rig.</td>
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Remarks: We leave for Kapea, Kauai at 12:00 noon. 

Signed: Cunningham  
Date: Sept 20 - 1971
<table>
<thead>
<tr>
<th>Date</th>
<th>Job No.</th>
<th>Hole No.</th>
<th>Elevation</th>
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<tbody>
<tr>
<td>9-19-75</td>
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</thead>
<tbody>
<tr>
<td>Hana Ranch</td>
<td></td>
<td>Hana, Maui-11</td>
<td>I. Cunningham</td>
<td>R. Lopez</td>
<td>R. Lopez</td>
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<table>
<thead>
<tr>
<th>Bit-Size Type</th>
<th>Casing-Size</th>
<th>in., Length in hole</th>
<th>ft. in., Amt. Perforated</th>
<th>ft. in.,</th>
<th>Depth Start</th>
<th>Depth Stop</th>
<th>Feet Drilled</th>
<th>Water Levels, Time</th>
<th>Time</th>
<th>M ft.</th>
<th>Time</th>
<th>M ft.</th>
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<table>
<thead>
<tr>
<th>Measurements</th>
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<table>
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<th>Depth</th>
<th>Formation</th>
<th>Remarks</th>
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<tbody>
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<td>A</td>
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<td>B</td>
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</tbody>
</table>

Remarks:

"We wait for arrival of the Rig near noon. Arrived with Pick up, picked up the Rig. Delivered, we hook on the platform, used one 6 ft. Water tank. Trucked pull the Rig onto location."

"We a year1 Track with a 6 ft. Pick-up"

Signed: I. Cunningham Date: Sept 19, 1975
**Remarks:**

- We leave for Kahului, Maui at 7:00 AM, arrive airport take a taxi to the park, get the jetstream, pickup loaded with Rig, Timber, & Rig Jack.
- We see Valley Oak about bringing the Rig in to Hana.
- We go on to Hana - used till I learn my last about getting something to pull the Rig onto the site from highway.
- We unload the Rig, Timber at job site.