**DESCRIPTION**

- **Date of report**: 6/26/74
- **Person filing report**: L.H. Runnells
- **WELL**: 
  - **Owner**: County of Kauai
  - **Name**: Pilot Injection well, Lihue STP
  - **Island**: Kauai
- **GENERAL LOCATION**: Lihue sewage treatment plant
- **DRILLING COMPANY**: Roscoe Moss Co.
- **TYPE OF RIG/TOOL**: 
  - **Drilling completed**: 6/74
  - **Driller**: T. Cunningham
- **ELEVATION**: 
  - **Height of drilling platform above ground surface**: 121.24 ft.
  - **Bench mark and method used to determine elevation**: ...
- **HOLE SIZE**: 
  - **16 inch dia.**: to 170 ft. below drilling platform.
  - **11-1/2 inch dia.**: to 440 ft. below drilling platform.
  - **10 inch dia.**: to 700 ft. below drilling platform.
- **CASING INSTALLED**: 12 in. I.D. x 250 in. wall solid section to 170 ft. below drilling platform.
  - **3X in. I.D. x 250 in. wall perforated section to**: ft. below drilling platform.
  - **Type of perforation**: None.
- **PERMANENT PUMP INSTALLATION**: 
  - **Pump type, make, serial no.** 
  - **Capacity**: g.p.m.
  - **Motor type, H.P., voltage, r.p.m.** 
  - **Depth of pump intake setting**: ft. below, which elevation is ft.
  - **Depth of bottom of airline**: ft. below, which elevation is ft.

**HYDROLOGY**

- **Initial water level**: 110 ft. below drilling platform, Date of measurement: 5/17/74
- **Initial chloride**: 850 ppm, total depth of well: 440 ft. below drilling platform, 6/17/74

**PUMPING TESTS**

<table>
<thead>
<tr>
<th>Date</th>
<th>Start water level</th>
<th>End water level</th>
<th>Depth of well</th>
<th>Elevation</th>
</tr>
</thead>
<tbody>
<tr>
<td>8/17/74</td>
<td>108.5 ft. below R. P.</td>
<td>108.9 ft. below R. P.</td>
<td>440 ft. below R. P.</td>
<td>5.66 ft.</td>
</tr>
</tbody>
</table>

**Subsurface Formation**

<table>
<thead>
<tr>
<th>Depth (ft.)</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level</th>
<th>Depth (ft.)</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 45</td>
<td>Soft brown &amp; red clay</td>
<td>7</td>
<td>234 to 241</td>
<td>Med. hard rock</td>
<td>110</td>
</tr>
<tr>
<td>45 to 94</td>
<td>Soft brown clay &amp; gravel</td>
<td>7</td>
<td>241 to 264</td>
<td>Rock &amp; brown clay</td>
<td>110</td>
</tr>
<tr>
<td>94 to 99</td>
<td>Med. hard rock</td>
<td>7</td>
<td>264 to 273</td>
<td>Hard rock</td>
<td>110</td>
</tr>
<tr>
<td>99 to 130</td>
<td>Soft brown clay &amp; gravel</td>
<td>7</td>
<td>273 to 310</td>
<td>Brown clay</td>
<td>109</td>
</tr>
<tr>
<td>130 to 160</td>
<td>Med. hard rock &amp; soft streaks</td>
<td>7</td>
<td>310 to 330</td>
<td>Soft red clay &amp; rock</td>
<td>109.5</td>
</tr>
<tr>
<td>160 to 170</td>
<td>Hard rock</td>
<td>6.2</td>
<td>330 to 351</td>
<td>Rock, gray brown clay</td>
<td>109.5</td>
</tr>
<tr>
<td>170 to 199</td>
<td>Med. hard rock &amp; clay streaks</td>
<td>7</td>
<td>351 to 364</td>
<td>Med. hard rock</td>
<td>109.5</td>
</tr>
<tr>
<td>199 to 206</td>
<td>Soft rock, cinders</td>
<td></td>
<td>364 to 409</td>
<td>Soft reddish clay &amp; rock</td>
<td>110</td>
</tr>
<tr>
<td>206 to 225</td>
<td>Med. hard rock</td>
<td>110</td>
<td>409 to 440</td>
<td>Med. to hard rock</td>
<td>109.5</td>
</tr>
<tr>
<td>225 to 234</td>
<td>Broken rock, cinders</td>
<td>110</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**N. REMARKS**

**INSTRUCTIONS**: Send three(3) copies to: Manager-Chief Engineer, Division of Water and Land Development, P. O. Box 373, Honolulu, Hawaii 96809.

<table>
<thead>
<tr>
<th>Time</th>
<th>Gauge lbs</th>
<th>Static lbs</th>
<th>GPM</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>9:15 AM</td>
<td>65</td>
<td>4.5</td>
<td>3336</td>
<td>110</td>
</tr>
<tr>
<td>10:15</td>
<td></td>
<td></td>
<td>367</td>
<td>118</td>
</tr>
<tr>
<td>1:05</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:18</td>
<td>8.0</td>
<td></td>
<td>350</td>
<td></td>
</tr>
<tr>
<td>3:30 PM</td>
<td>7.7</td>
<td></td>
<td>340</td>
<td></td>
</tr>
<tr>
<td>3:45 &quot;</td>
<td>16.5</td>
<td></td>
<td>470</td>
<td></td>
</tr>
<tr>
<td>4:20 &quot;</td>
<td>14.0</td>
<td></td>
<td>355 GPM</td>
<td></td>
</tr>
<tr>
<td>5:04 &quot;</td>
<td>10.0</td>
<td></td>
<td>332</td>
<td></td>
</tr>
<tr>
<td>6:07 &quot;</td>
<td>10.1</td>
<td></td>
<td>405</td>
<td></td>
</tr>
<tr>
<td>7:20 &quot;</td>
<td>10.1</td>
<td></td>
<td>400</td>
<td></td>
</tr>
<tr>
<td>7:59 &quot; - Start 2 Pumps: 3&quot; - 7:59</td>
<td></td>
<td></td>
<td>606 6pm</td>
<td>For 6 minutes</td>
</tr>
<tr>
<td>8:15 PM</td>
<td>10.1</td>
<td></td>
<td>560</td>
<td></td>
</tr>
<tr>
<td>9:00</td>
<td>10.1</td>
<td></td>
<td>530</td>
<td></td>
</tr>
<tr>
<td>1:00 midnt</td>
<td>10.0</td>
<td></td>
<td>510</td>
<td></td>
</tr>
<tr>
<td>2:00 AM</td>
<td>9.7</td>
<td></td>
<td>540</td>
<td></td>
</tr>
<tr>
<td>2:54 &quot;</td>
<td>8.8</td>
<td></td>
<td>390</td>
<td></td>
</tr>
<tr>
<td>7:06 &quot;</td>
<td>8.4</td>
<td></td>
<td>390</td>
<td></td>
</tr>
<tr>
<td>8:05 &quot;</td>
<td>8.4</td>
<td></td>
<td>350</td>
<td></td>
</tr>
<tr>
<td>9:05 &quot;</td>
<td>9.9</td>
<td></td>
<td>290</td>
<td></td>
</tr>
<tr>
<td>9:55 &quot; - Start 22 pumps 9:55 &quot;</td>
<td>13.9 &quot;</td>
<td>280-6PM</td>
<td>280-6PM</td>
<td></td>
</tr>
<tr>
<td>10 &quot;</td>
<td>13.8</td>
<td></td>
<td>237</td>
<td></td>
</tr>
<tr>
<td>11:00</td>
<td>13.0</td>
<td></td>
<td>280</td>
<td></td>
</tr>
<tr>
<td>12:35 &quot;</td>
<td>11.3</td>
<td></td>
<td>550</td>
<td></td>
</tr>
<tr>
<td>1:38 &quot;</td>
<td></td>
<td></td>
<td>270</td>
<td></td>
</tr>
<tr>
<td>2:20 &quot;</td>
<td></td>
<td></td>
<td>320</td>
<td></td>
</tr>
<tr>
<td>3:15 &quot;</td>
<td></td>
<td></td>
<td>330-6PM</td>
<td></td>
</tr>
<tr>
<td>4:15 &quot;</td>
<td>9.0</td>
<td></td>
<td>330-6PM</td>
<td></td>
</tr>
</tbody>
</table>

Luuwu STP
No. 5821-01

55 drum section
Screen failure
Collapse

Change pumps
To clean out suction

Change pumps
NOTICE OF INTENT TO DRILL

WELL NAME: PILOT INJECTION WELL, LIHUE STP
ISLAND: Kauai

OWNER OF WELL: County of Kauai
Mailing Address: P. O. Box 111, Lihue, Hawaii 96766

DRILLING COMPANY: ROSCOE MOSS COMPANY
Mailing Address: 930 Ahua Street, Honolulu, Hawaii 96819
Proposed Construction Date: April 29, 1974
Proposed Completion Date: May 10, 1974

PROPOSED USE OF WELL:
(a) Domestic
(b) Irrigation
(c) Industrial (type)
(d) Cooling (type)
(e) Disposal (type) Sewage effluent *
(f) Other (specify) Pilot hole

LOCATION OF WELL: (Attach copy of USGS topographic map, plantation field map, road map, or prepared drawing showing exact location. If not available, prepare a hand-drawn sketch map (not necessarily to scale) in the space below showing sufficient landmarks, distances, and directions for location in the field)

LIHUE SEWAGE TREATMENT PLANT
Lihue, Kauai, Hawaii
See attached maps

Date Submitted: April 25, 1974
Signature of Owner: [Signature]
Title (If Applicable): County Engineer

FOR OFFICIAL USE
Latitude: 21° 58' 19"
Longitude: 159° 21' 11"
Well No: 5821 - 01

INSTRUCTIONS: Send three (3) copies to: Manager-Chief Engineer, Division of Water and Land Development, P. O. Box 373, Honolulu, HI 96809.

NOTICE OF INTENT TO DRILL

WELL NAME: PILOT INJECTION WELL, LIHUE STP

OWNER OF WELL: County of Kauai
Mailing Address: P. O. Box 111, Lihue, Hawaii 96766

DRILLING COMPANY: ROSCOE MOSS COMPANY
Mailing Address: 830 Ahua Street, Honolulu, Hawaii 96819
Proposed Construction Date: April 29, 1974
Proposed Completion Date: May 10, 1974

PROPOSED USE OF WELL:
(a) Domestic
(b) Irrigation
(c) Industrial (type)
(d) Cooling (type)
(e) Disposal (type)
(f) Other (specify)

PROPOSED DEPTH: 440 ft.

LOCATION OF WELL: (Attach copy of USGS topographic map, plantation field map, road map, or prepared drawing showing exact location. If not available, prepare a hand-drawn sketch map (not necessarily to scale) in the space below showing sufficient landmarks, distances, and directions for location in the field)

LIHUE SEWAGE TREATMENT PLANT
Lihue, Kauai, Hawaii
See attached maps

Date Submitted: April 25, 1974
Signature of Owner: [Signature]
Title (If Applicable): County Engineer

INSTRUCTIONS: Send three (3) copies to: Manager-Chief Engineer, Division of Water and Land Development, P. O. Box 373, Honolulu, HI 96809.

Date of report: 6/26/74
Person filing report: L.H. Runnels

A. OWNER: County of Kauai
NAME: Pilot Injection well, Lihue STP.

B. GENERAL LOCATION: Lihue sewage treatment plant

C. DRILLING COMPANY: Roscoe Moss Co.

D. TYPE OF RIG: Cable tool
DRILLING COMPLETED: 6/74
DRILLER: T. Cunningham

E. ELEVATION, msf: Top of drilling platform - 121.24 ft. Bench mark and method used to determine
Height of drilling platform above ground surface - 0 ft. elevation:

F. HOLE SIZE: 16 dia. to 170 ft. below drilling platform.
11-1/2 dia. to 440 ft. below drilling platform.

G. CASING INSTALLED: 12 in I.D. x 250 in wall solid section to 170 ft. below drilling platform.
XX in I.D. x in wall perforated section to ft. below drilling platform.
Type of perforation: None

H. ANNULUS: Grouted 158 ft. to 170 ft. below drilling platform. top 35 ft. grouted Gravel packed 35 ft. to 158 ft. below drilling platform.

I. PERMANENT PUMP INSTALLATION:
- Pump type, make, serial no.
- Motor type, H.P., voltage, r.p.m.
- Depth of pump intake setting ft. below which elevation is ft.
- Depth of bottom of airline ft. below which elevation is ft.

J. INITIAL WATER LEVEL: 110 ft. below drilling platform. Date of measurement: 5/17/74
K. INITIAL CHLORIDE: 850 ppm, total depth of well 440 ft. below drilling platform 6/17/74

L. PUMPING TESTS:
Reference point (R.P.) used:
which elevation is ft.

M. DRILLER'S LOG:

N. REMARKS:

FOR OFFICIAL USE
Latitude 21 58.19
Longitude 159 21 11
Well No. S821-01

INSTRUCTIONS: Send three (3) copies to: Manager-Chief Engineer, Division of Water and Land Development, P.O. Box 373, Honolulu, Hawaii 96809.