1. U.S.G.S. No.: Maui T 52; E.M.I.Co. No. 52

2. Location: Nahiku area, ca. 1050 W of Kula area, Gulk, ca. 3400 m s.s. from Belt Road.

3. Location determined by:

4. Longitude: 156° 6' 9"

5. Latitude: 20° 48' 5"


7. Driller: J. M. Heizer

8. Started:

9. Completed:

10. Altitude: 1521.

11. Depth: 174.1

12. Diameter: 1\(\frac{1}{2}\) inches

13. Casing:

14. Purpose:

15. Salt content when completed:

16. Head:

17. Geologic formations penetrated:

\[
\begin{align*}
0.0 - 50.3 & \quad \text{Kula area} \\
50.3 - 114.5 & \quad \text{Makahiki} \\
114.5 - 155.6 & \quad \text{Waikiki} \\
155.6 - 171.7 & \quad \text{Waihale} \\
171.7 - 174.1 & \quad \text{Big Falls}
\end{align*}
\]
<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Core Length (inch)</th>
<th>Texture</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0-2.5</td>
<td>0</td>
<td>Dense</td>
<td>No core.</td>
</tr>
<tr>
<td>1.5-3.5</td>
<td>8</td>
<td>Dense</td>
<td>No core.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Sparingly vesicular, medium gray, with a few scattered phenocrysts of felspar.</td>
</tr>
<tr>
<td>2-13.2</td>
<td>38</td>
<td>Do</td>
<td>No core.</td>
</tr>
<tr>
<td>2-15.9</td>
<td>35</td>
<td>Do</td>
<td>No core.</td>
</tr>
<tr>
<td>12-31.4</td>
<td>58</td>
<td>Do</td>
<td>Locally clinker.</td>
</tr>
<tr>
<td>1-49.2</td>
<td>13</td>
<td>Do</td>
<td>No core.</td>
</tr>
<tr>
<td>2-50.3</td>
<td>0</td>
<td>Do</td>
<td>No core.</td>
</tr>
<tr>
<td>3-67.2</td>
<td>38</td>
<td>Vesicular</td>
<td>Moderately to highly vesicular, dark grey felspathic, close to an orthostructure, with abundant phenocrysts of augite and olivine.</td>
</tr>
<tr>
<td>2-81.3</td>
<td>67</td>
<td>Do</td>
<td>Like above, locally bluish to aam.</td>
</tr>
<tr>
<td>3-91.1</td>
<td>75</td>
<td>Do</td>
<td>Like above, but moderately to sparsely vesicular, becoming aam in lower half.</td>
</tr>
<tr>
<td>1-99.9</td>
<td>67</td>
<td>Do</td>
<td>Like above, moderately to sparsely vesicular on.</td>
</tr>
<tr>
<td>9-111.1</td>
<td>32</td>
<td>Do</td>
<td>Like above, moderately to sparsely vesicular on.</td>
</tr>
<tr>
<td>Depth</td>
<td>Description</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>-------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>111 - 115.1</td>
<td>Upper 3' like above; lower 2&quot; like below.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>151 - 117.0</td>
<td>Dense, loosely vesicular to almost non-vesicular, non-porphyrptic, medium gray aa.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 - 128.2</td>
<td>Dense, like above, with a few scattered phenocrysts of feldspar.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19.5 - 152.3</td>
<td>Dense; chloritic.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20 - 155.6</td>
<td>Dense.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>51.6 - 156.3</td>
<td>Dense, red, baked soil, passing downward into highly decomposed lava, probably chlorite.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>56.3 - 162.6</td>
<td>Micaceous, Ig, say &quot;mica&quot;.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20 - 165.6</td>
<td>Dense, loosely vesicular, medium gray aa, with scattered small phenocrysts of olivine.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 - 171.7</td>
<td>Highly decomposed chlorite.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>77.7 - 172.2</td>
<td>Dense, highly decomposed chlorite.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>92.2 - 174.1</td>
<td>Sparse, vesicular, dark gray aa, with abundant phenocrysts of olivine and less abundant augite.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Weekly Report on Diamond Drill Operations
Week of March 2 - 7 - 1936

HOLE 52:

Surface to 110 previously reported.

110 114.5 Tame Turkey
114.5 155.6 Hard gray broken basalt with many frothy spots
155.6 162.6 Red and brown clay
162.6 171.7 Hard gray basalt with a few small olives.
171.7 172.2 Brown clay
172.2 174.1 Wild Turkey, breaking into clay at 174.1

Cased to 50.3

With hole at 156.3, water stands in morning at 153.7.

Unable to get water sounding below this depth on account of caving hole.

HOLE 53: - Elev. 1472.4

0 14 Clinkers

(s) J.M. Heizer

Report for Week of March 9 - 14 - 1936

HOLE 53: 0 - 14' Previously reported

14 35.3 Broken red caving basalt.
35.3 57 Tame Turkey
57 57.5 Cinders and sand
57.5 91.5 Hard to very hard basalt lumps in sharp caving clinker.
91.5 94.5 Partly rotted cinder
94.5 102.1 Hard blue basalt with a few small olives.
102.1 109 Probably same as above but more frothy and broken.
109 109.6 Cinder with a trace of red clay - caves badly.
109.6 110 Clinker with occasional moderately hard lumps; caves rather badly.

Heavy leak and cavity at 62'. Also 100% leaks at 79' and 101, and 110.

Has been necessary to case this hole all the way so far.

(s) J.M. Heizer
Weekly Report on Diamond Drill Operations
Week of Feb. 24 - 29 - 1936

HOLE 51: Surface to 100.9 - Previously reported

100.9 122  Hard blue basalt with frothy areas
122 124  Cinder
124 132.6  Red and brown clay.
132.6 135  Wild Turkey. At 135 had cut thru the Turkey
         and encountered clay.

In A.M. with hole at 100.9 water stands at 96.5
In A.M. with hole at 135, water stands at 123.

Cased to 76.7

HOLE 52:

0 1.5  Soil
1.5 9.1  Clinker
9.1 50.3  Clinker with occasional hard lumps.
50.3 110  Tame Turkey, with many frothy spots. These
         frothy spots cave rather badly.

Especial leaks at 25.5 - 32 and at 50.

No water stands in hole with hole at 100.

(s) J.N. Heizer
1521 0 T-52

- Leaks
- Leaks Bot. + Ceiling
- No Water at depth 100'

1347

Below 153
Shale above
No water level

Kahimaka Image
Mossman
Waiakesi
Makipipi
Big Falls