GEOLOGIC MAP
OF THE
PORTLAND AREA
OREGON

EXPLANATION

Qg1
Quaternary
Glacial Tills

Qfl
Quaternary
Fluvial Deposits

Rot
Portland Tuff

Cfl
Columbia River Basalts

Tfl
Tualatin Tuff

Uf
Unconformity

Ufl
Unconformity

Tfl
Tualatin Formation

Cfl
Columbia River Basalts

Speci
Special Locations

1. Paine Ledge Prospect
2. Stone Quarry
3. Multnomah County Quarry
4. Camp Collins Lode Locality
5. Rock Creek East Lode
6. Tualatin River Mine
7. Depoe Iron Mine

Scale 96,000

Issued by State Department of Geology and Mineral Resources, Earl L. Nixon, Director, Portland, Oregon
<table>
<thead>
<tr>
<th>CHARACTERISTIC</th>
<th>PORTLAND GRAVELS</th>
<th>CLACKAMAS GRAVELS</th>
<th>TUALATIN GRAVELS</th>
<th>WILLAMETTE TERRACE DEPOSITS</th>
<th>DALLES SAND BARS</th>
<th>MARINER</th>
<th>WASHINGTON TERRACE</th>
<th>COLUMBIA RIVER SEDiments</th>
<th>WILLOW CREEK SERIES</th>
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</thead>
<tbody>
<tr>
<td><strong>Thickness</strong></td>
<td>100° - 400°</td>
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<td>100° - 150°</td>
<td>100° - 30°</td>
<td>100° - 100°</td>
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<td><strong>Color</strong></td>
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**DIFFERENCES IN DISTRIBUTION BETWEEN THREE FORMATIONS**

1. Weathered and bleached Columbia River lava looks very much like weathered and bleached Boring lava (see comparison chart). In the smaller flows, weathered and bleached Columbia River lava is more difficult to distinguish.

2. Weathered during aggregate looks like weathered Boring lava, which contains Columbia River lava. In cores and outcrops, the rock is weathered and bleached.

3. Wall logs are practically useless as the data are recorded on the walls of the log. Use a "wet" log, and the nature of the gravel underlying weather all will be more determinate.

4. Chertaceous gravel consists largely of rounded and bleached Columbia River gravel. This is particularly by the lack of bedding or orientation.