Hornblende granite at Suffern is here correlated with the Storm King Granite that has been dated at SHRIMP zircon ages of about 1185 Ma (Volkert et al., 2010). Other hornblende granite that crops gneiss, and hypersthene-quartz-plagioclase gneiss that have the geochemical composition of dacite, area, but locally is somewhat variable due to deformation by regional folds. Foliation strikes mainly Highlands. They include various granites and gneisses metamorphosed under conditions of granulite previously unrecognized diabase body that intrudes the Towaco Formation, here named the Deerhaven Stratigraphically, it intrudes the Passaic Formation directly beneath the contact with Orange Mountain.

Small brittle faults of Mesozoic age deform the Passaic Formation through the Preakness Basalt in the basin, a northeast-trending half-graben in northern and central New Jersey that contains approximately -2,000

Faults - Active rock quarry
- Bedrock outcrop or float

Joints in the Mesozoic igneous rocks consist of two predominant types, columnar (cooling) and tectonic. Typically are on the order of tens of feet but locally they may be as much as several hundred feet wide. Epidote-coated fractures or slickensides, and close-spaced fracture cleavage. Widths of the fault zones water-well records and drill-hole data. Levels of natural radioactivity range from 12 to 21

Some of the wider fault zones are possibly due to the interaction of several smaller parallel or cross-laminated, and interbedded with reddish-brown, planar-laminated shale. The Jd - Overturned Synform

- Normal fault - U, upthrown side; D, downthrown side.

Metasedimentary Rocks

<table>
<thead>
<tr>
<th>Type</th>
<th>General Description</th>
<th>Age Range</th>
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</tr>
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<td>Hornblende granite</td>
<td>Tan to buff-weathering, dark-gray phyllonitic shale</td>
<td>SHRIMP</td>
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