**GEOLOGIC MAP OF THE CREEDMOOR 7.5-MINUTE QUADRANGLE, GRANVILLE, WAKE AND DURHAM COUNTIES, NORTH CAROLINA**

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**DESCRIPTION OF MAP UNITS**

- **SURFICIAL UNIT**
  - Loess - light tan, low-relief, shallow, generally unconsolidated deposits of fine-grained material.

- **Bedrock Lithologic Units**
  - **Granite** - medium- to coarse-grained, light-colored rock.
  - **Sandstone** - fine- to coarse-grained sedimentary rock.
  - **Shale** - fine-grained, layered rock.
  - **Basalt** - dark-colored, fine-grained igneous rock.

**CONTACTS**

- **Conformable Contact**
  - Where rock units are in sequence and one unit is deposited on top of another.

- **Disconformable Contact**
  - Where a gap in the geologic record exists.

**TEXTILES**

- **Lineation**
  - Orientation of elongated minerals or intrusions.

- **Jointing**
  - Planar fractures that define rock structure.

**Observation Station Location**

- **Weathering**
  - Degree of rock weathering.

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**Geologic Setting**

- **Late Proterozoic - Cambrian**
  - Depositional and tectonic settings.

**Lithology**

- **White to gray talc-tremolite schist, talc-chlorite schist, and soapstone.**
- **Grayish-white to greenish-white, coarse-grained, unfoliated to foliated dolomite.**
- **Dipping sills of gray to bluish-black, fine- to coarse-grained, locally porphyritic plagioclase.**

**Mineralization**

- **Hypermelanocratic (CI greater than 90) metapyroxenite with minor amounts of talc, magnetite.**
- **Conspicuous crystals of blue quartz.**

**Structure**

- **Inclined joint surface**
  - Plane where rock units are in sequence and one unit is deposited on top of another.

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**Acknowledgments**

This Open-File report is preliminary and has been reviewed for accuracy by the North Carolina Geological Survey.

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**References**

- **Richard M. Wooten, NCGS; Edward F. Stoddard, N.C. State University; and David E. Blake, UNC-Wilmington.**

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**Base Topographic Map**

- **Base topographic map is digital raster graphic image of the North Carolina map.”**

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**Geologic Map of the Creedmoor 7.5-Minute Quadrangle, NCGS Open File Report 2016-18**