

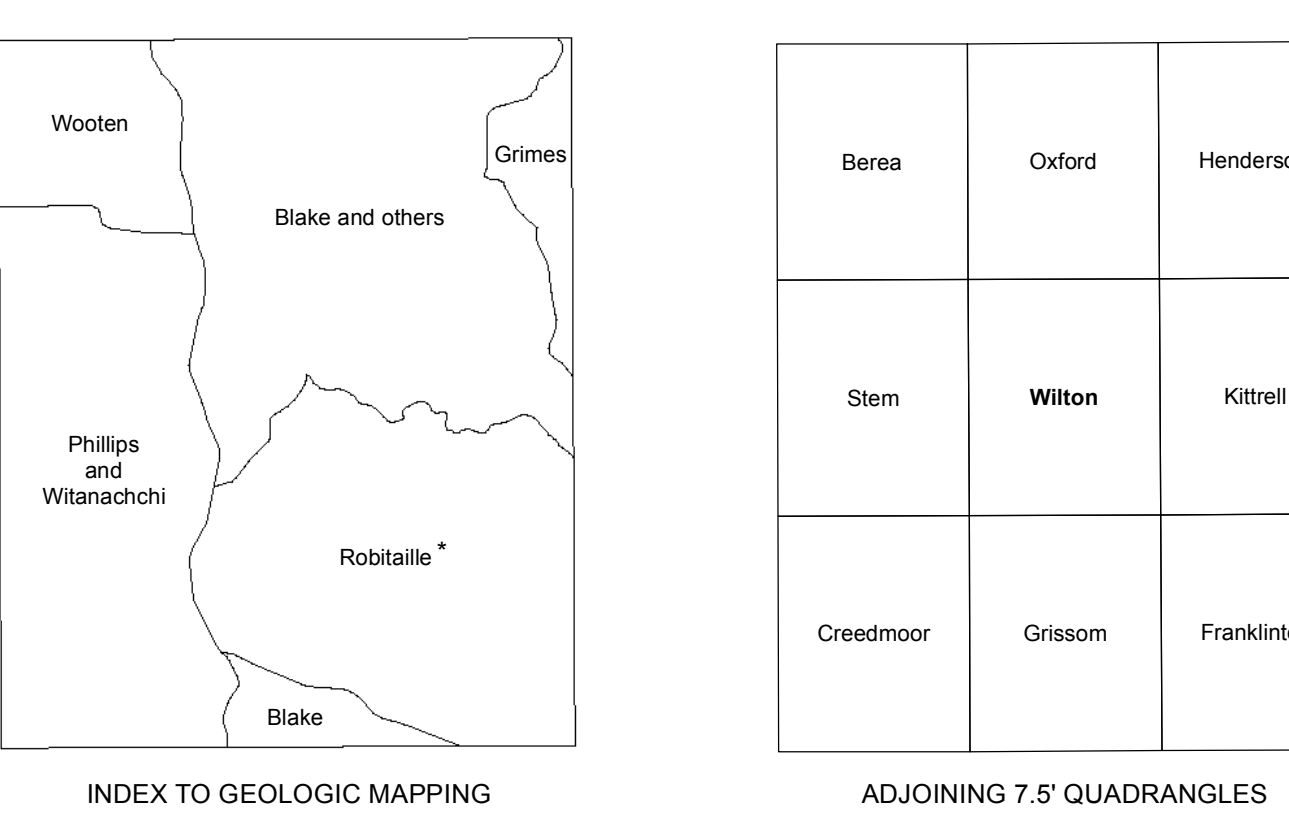
- SEDIMENTARY UNITS: Qal (Quaternary alluvium), Trca (sandstone with interbedded siltstone), Cg (conglomerate), Tcc (conglomerate and sandstone).
- FAULTY ROCKS: Trsb (sillified breccia).
- INTRUSIVE ROCKS: Jd (diorase dikes and sills), Pfwg (granite of the Wilton pluton), Qv (vein quartz and quartz breccia), Pzfp (felsic porphyry).
- METAMORPHIC ROCKS: Jbc (contact metamorphosed Triassic sedimentary rock), CZgp (metagranulite), CZg (unfoliated biotite metaterrite), CZho (hornblende-bearing biotite tonalite), CZmq (quartz meta- and metabasalt), CZmd (hornblende metadiorite), CZgd (hornblende metagabbro), CZan (quartz meta-andesite and metadiorite), CZphs (sericite quartz schist), CZgc (Gibbs Creek pluton), CZgr (foliated Gibbs Creek pluton), CZct (Carolina terrane metagranulite), CZdi (diorite), CZz (metadiorite), CZmg (metagabbro), CZzu (meta-ultramafic rocks), CZfp (felsic phyllonite), CZlc (Tabbs Creek meta-igneous suite), CZtr (foliated Tabbs Creek meta-igneous suite), CZfo (felsic meta-intrusive suite), CZch (chlorite schist, phyllite and phylonite), CZab (metagabbro), CZfs (felsic schist), CZun (ultramafic rocks), CZmc (Middle Creek gneiss), CZms (Middle Creek mafic facies), CZum (metaultramafic rocks).

CONTACTS
Lithologic contacts - Solid where location known, dashed where inferred, dotted where concealed.
Dashed contacts - Solid where location known, dashed where approximate, dotted where concealed.

FAULTS
Faults - Solid where location known, dashed where inferred, dotted where concealed. D indicates downthrown block, U indicates upthrown block. On cross section, X indicates movement away from the observer, D indicates movement towards the observer.

EXPLANATION OF MAP SYMBOLS
Observation sites are centered on the strike bar or are at the intersection point of multiple symbols.

OTHER FEATURES
WT-1026 - whole rock geochemical sample location



Base topographic map is digital raster graphic image of the Wilton 7.5-minute USGS quadrangle (1977).
UTM GRID AND 18 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET.
CONTOUR INTERVAL 10 FEET.
MAP LOCATION.cross sections - no vertical exaggeration - measurement in kilometers, reference mean sea level.

OXIDES IN PERCENT

	SiO2	TiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	P2O5	Cr2O3	LOI	TOTAL
WT02-3660	49.82	0.64	15.65	10.50	0.18	8.12	10.91	2.09	0.25	0.06	0.02	1.65	99.90
WT02-4492	64.38	0.79	16.3	6.52	0.11	2.17	1.67	1.62	3.32	0.13	0.01	2.75	99.89
WT02-3560	48.84	1.67	13.4	13.87	0.22	7.06	10.76	2.11	0.38	0.13	0.01	1.00	99.48

SELECTED ELEMENTS IN PPM

	Ag	As	Au	Ba	Ce	Co	Cu	Nd	Ni	Sr	Ta	Zn	Zr
WT02-3660	<1	NA	10	56.6	8.6	41.1	126	5.4	90	132	<0.5	70	45
WT02-4492	<1	NA	7	576	83.6	13.3	72	36.8	23	154	0.7	85	186
WT02-3560	<1	NA	6	26.9	11.4	41.3	141	11.3	51	90.2	<0.5	172	82

This Open-File report is preliminary and has not been reviewed for conformity with the North Carolina Geological Survey editorial standards or with the North American Stratigraphic Code. Further revisions or corrections to this preliminary map may occur prior to its release as a North Carolina Geological Survey map.

Powder material processing conducted at the Petrology Preparation Laboratory of the Department of Geography and Geology at the University of North Carolina Wilmington.
Geochemical analyses completed by SGS Minerals, Toronto, Canada for 11 major and 49 trace elements. Whole-rock analyses using method codes XRF67+75V, IMS95A, and FAI303, and individual element method code ICM512B for Ta.
NA = No sample analysis
PPM = parts per million
LOI = loss on ignition
The electronic files of the geochemical data are available upon request from the North Carolina Geological Survey.

COMPILED GEOLOGIC MAP OF THE WILTON 7.5-MINUTE QUADRANGLE, GRANVILLE, VANCE AND FRANKLIN COUNTIES, NORTH CAROLINA

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Digital representation by Michael A. Medina and Cindy M. Phillips.
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