



ROCK DESCRIPTIONS

Breccia – Linear-trending cataclastic fault breccias form resistant outcrops and concentrations of characteristic quartz. Breccia is typically white to very light gray; massive to weakly foliated; fine- to medium-grained; quartz crystal growth locally present in void spaces; consists of 99% quartz, trace biotite and opaque minerals.

Granitoid gneiss (OCgg) – A felsic intrusive body consisting mainly of quartz, feldspar, and biotite. It is tentatively correlated with biotite granitoid gneiss of Garbar, 2009. Granitoid gneiss may be neotectonic migmatite derived from local melting of the surrounding Tallulah Falls Formation during regional high-grade metamorphism. Granitoid gneiss is typically white to pinkish gray to light gray; weakly foliated to mylonitic; medium- to very coarse-grained; inequigranular; locally gradational with pegmatite; consists of plagioclase feldspar, potassium feldspar, quartz, biotite, and minor garnet and muscovite.

Poor Mountain Formation

Undivided (Opm) – Heterogeneous unit of metagraywacke, schist, amphibole, calc-silicate, quartzite, and metaarkose. Metagraywacke: medium light gray to medium dark gray; foliated; locally mylonitic; medium to coarse-grained; equigranular; granoblastic; consists of 55-60% quartz, 25% potassium feldspar, 20-44% plagioclase, 6-40% biotite, trace-20% muscovite, trace-1% garnet. Schist consists of muscovite, biotite, garnet, quartz, feldspar, and trace epidote, chlorite, and opaque minerals. Amphibole consists of hornblende, plagioclase feldspar, epidote, biotite and trace amounts of opaque minerals. Calc-silicate consists of 65% quartz, 15% biotite, 5% epidote, and trace chlorite.

Quartzite/meta-arkose (Opmq) – Very pale orange to grayish orange, dusky yellow brown on weathered surfaces; foliated; medium-grained; equigranular; granoblastic; consists of 55-60% quartz, 25% potassium feldspar, trace-2% garnet, trace-15% biotite, trace-10% plagioclase feldspar, trace-10% muscovite, trace-5% epidote, and trace-3% opaque minerals.

Meta-igneous rocks

Hornblende and hornblende quartz-feldspathic gneisses with minor mappable bodies of amphibole and altered ultramafic rocks are interpreted to be intrusive into and stratigraphically lower than the Tallulah Falls Formation.

Hornblende quartz-feldspathic gneiss (CZhq) – Very light gray to grayish black, commonly weathers dark yellowish orange; fine- to medium-grained; equigranular; foliated; well layered; consists of 5-50% quartz, 25-45% plagioclase, 10-20% potassium feldspar, 1-25% biotite, trace-25% muscovite, 3-21% hornblende, trace-8% chlorite, trace-5% garnet, and trace apatite and opaque minerals; interlayered with amphibole and hornblende gneiss.

Hornblende gneiss (CZhg) – Mottled white to greenish black on fresh surfaces; weathered surfaces are mottled white to dark reddish brown; medium- to coarse-grained; equigranular; foliated; massive to well layered; migmatitic; consists of 20-45% hornblende, trace-8% chlorite, 30% plagioclase, 5-25% quartz, trace-20% biotite, trace-4% titanite, and minor opaque minerals.

Amphibole (CZa) – Occurs as a minor rock type throughout other map units and as small mappable bodies within the hornblende quartz-feldspathic gneiss; mottled white to dark green to black; fine- to coarse-grained; equigranular to nematoblastic; foliated; consists of 45-60% hornblende, trace-55% epidote group minerals, 25-37% plagioclase, trace-8% biotite, trace-8% quartz, trace-5% muscovite, and minor garnet, chlorite, pyroxene, titanite, and opaque minerals.

Altered ultramafic (CZau) – Interpreted to be an altered pyroxenite; medium green; foliated; granoblastic to nematoblastic; equigranular; medium- to coarse-grained. Coarse-grained, bronze, poikilitic hypersthene with green amphibole inclusions locally preserve a relict porphyritic texture. Consists of 70-75% green amphibole, 15-20% hypersthene, 10-15% enstatite, 2-5% chlorite, and trace opaque minerals including magnetite. A banded quartz-magnetite rock occurs on the margins of the body and consists of 70% quartz and 30% opaque minerals including magnetite and hematite.

Tallulah Falls Formation

The Tallulah Falls Formation is a thick, heterogeneous sequence of metamorphosed sedimentary and volcanic rocks. Individual rock types within the Tallulah Falls Formation are interlayered with each other at all scales.

Biotite gneiss (CZtb) – Heterogeneous unit consisting of interlayered porphyroclastic biotite gneiss, metagraywacke, and schist with lesser amounts of hornblende quartz-feldspathic gneiss. Tallulah Falls biotite gneiss locally separates metagraywackes and schists of the Tallulah Falls Formation from hornblende gneiss and hornblende quartz-feldspathic gneiss. Biotite gneiss is typically white to grayish black; well foliated; compositionally layered; locally protomylonitic; medium- to coarse-grained; inequigranular; porphyroclastic to lepidoblastic; migmatitic; consists of 25-40% quartz, 20-38% plagioclase, 10-20% biotite, 5-20% potassium feldspar, 3-15% muscovite, 2% garnet and 2% epidote.

Undivided (CZt) – Interlayered sequence of metagraywacke, schistose metagraywacke, schist, and amphibole. **Metagraywacke:** medium light gray to medium dark gray; foliated (ranges from massive to gneissic); medium- to coarse-grained; equigranular to inequigranular; granoblastic to lepidoblastic; migmatitic; consists of quartz, plagioclase, biotite, muscovite, potassium feldspar, sillimanite, and minor opaques, epidote and apatite; thickness of layering ranges from decimeters to meters. Interlayered at all scales with garnet-mica schist, schistose metagraywacke, amphibole, and minor calc-silicate. **Schistose metagraywacke:** medium-gray to dark-gray; foliated; fine- to medium-grained; equigranular to inequigranular; lepidoblastic to weakly granoblastic to porphyroclastic; migmatitic; consists of quartz, plagioclase, muscovite, biotite, potassium feldspar, sillimanite, epidote, chlorite, and trace opaque minerals; thickness of layering ranges from several millimeters to meters; commonly interlayered with metagraywacke, garnet-mica schist, amphibole, and minor calc-silicate. **Garnet mica schist:** silvery gray to medium dark gray; fine- to medium-grained; inequigranular; lepidoblastic and porphyroclastic; migmatitic; consists of muscovite, biotite, garnet, quartz, feldspar, and trace epidote, chlorite, and opaque minerals; interlayered with metagraywacke, schistose metagraywacke, amphibole, and rare calc-silicate granules.

Mineral abundances are listed in decreasing order. Percentages, where given, are based upon visual estimates of sample thin-sections. Ranges of percentages are given where more than one sample of a particular rock type was analyzed.

Reference cited:
Garbar, J.M., 2009. Geologic map of the Landrum quadrangle, Greenville and Spartanburg Counties, South Carolina, and Polk County, North Carolina. South Carolina Department of Natural Resources, Geological Survey, Geologic Quadrangle Map 44.

Imagery: NAIP, April 2009
Roads: 2008-2010 Topo
Bathymetry: National Hydrography Dataset, 2009
Contourlines: National Elevation Dataset, 2011
Coordinates: UTM, North Carolina State Plane
Datum: NAD 83
Projection: UTM, North Carolina State Plane
Scale: 1:24,000
Spheroid: Clarke, 1866
Datum: NAD 83
Units: U.S. Survey Feet
Geoid: 1988
Datum: NAD 83
Units: U.S. Survey Feet

Topographic base produced by the United States Geological Survey, Altered by the North Carolina Geological Survey for use with this map.
North American Vertical Datum of 1988
North American Datum of 1983
North Carolina State Plane
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A metadata file associated with this product is draft version 0.5.16

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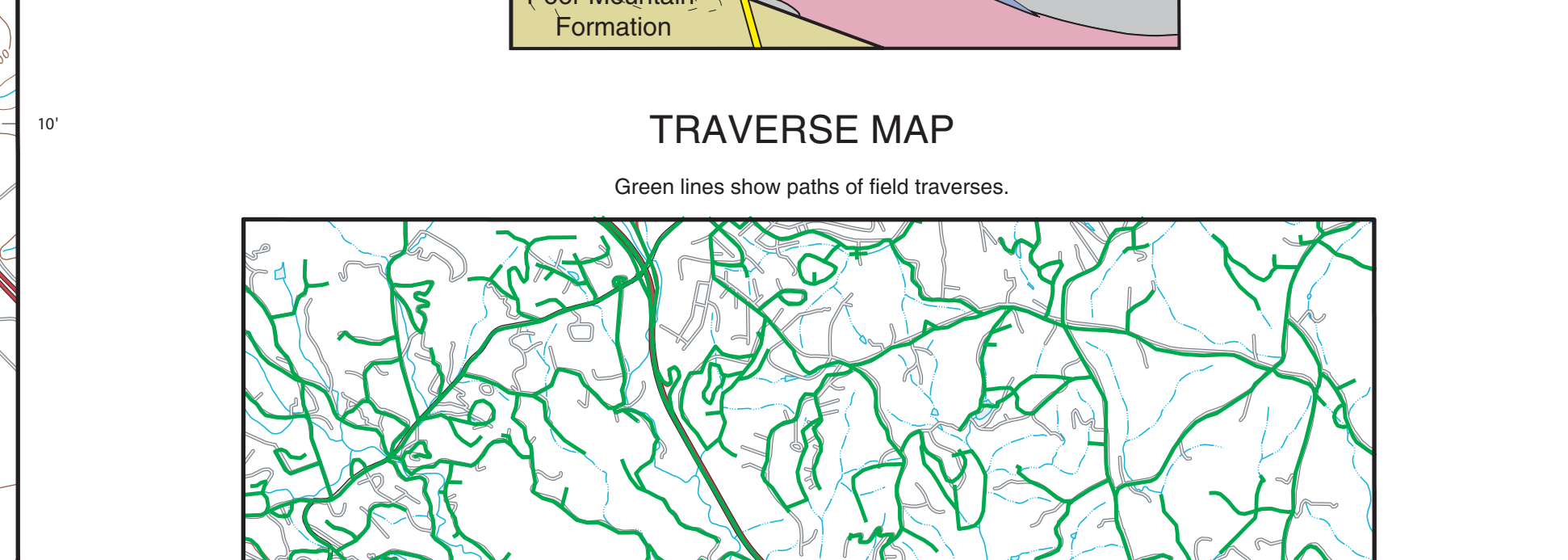
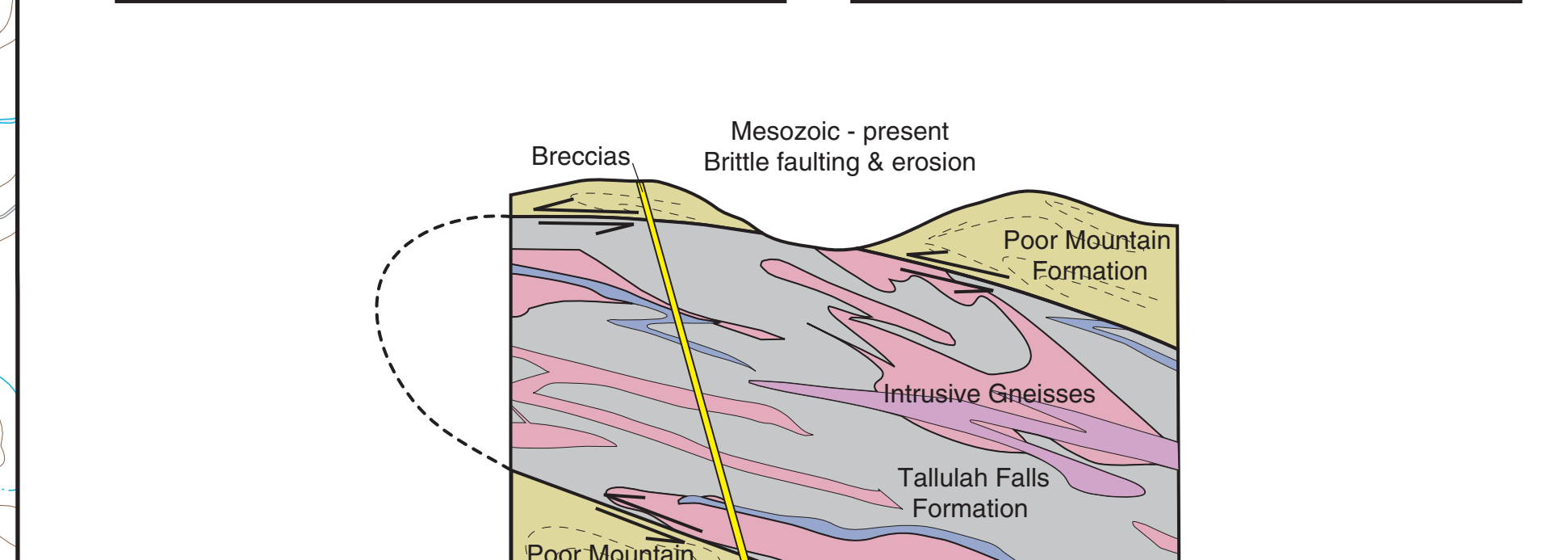
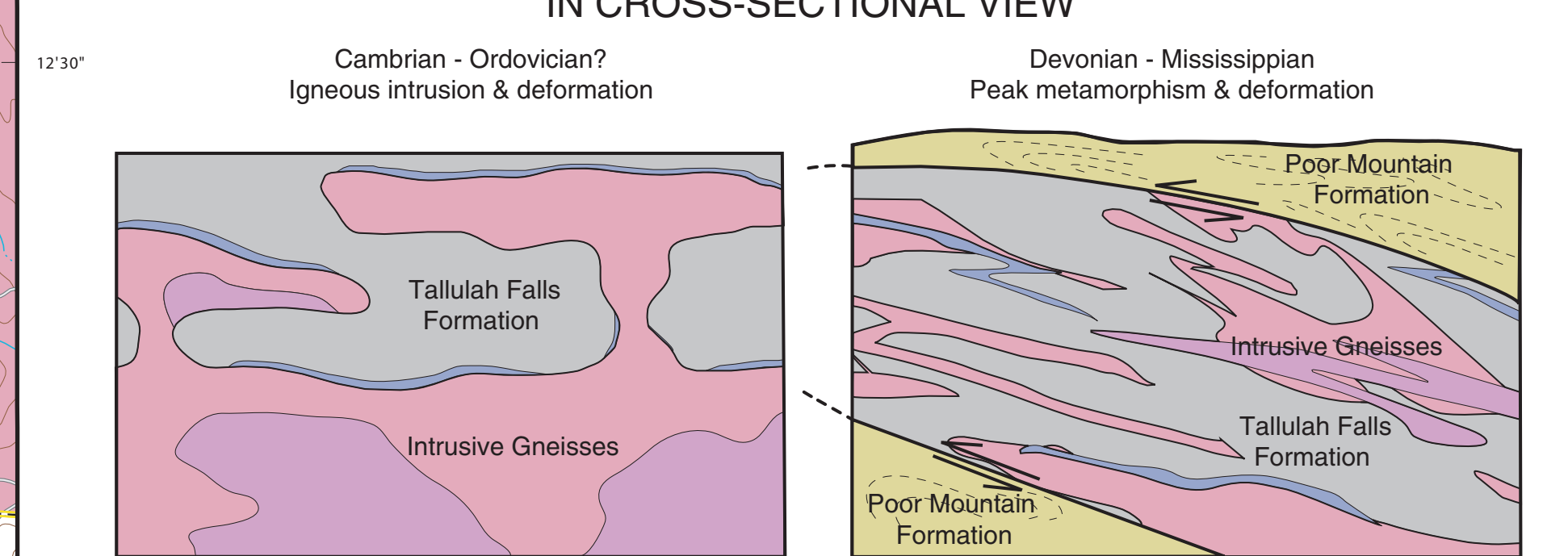
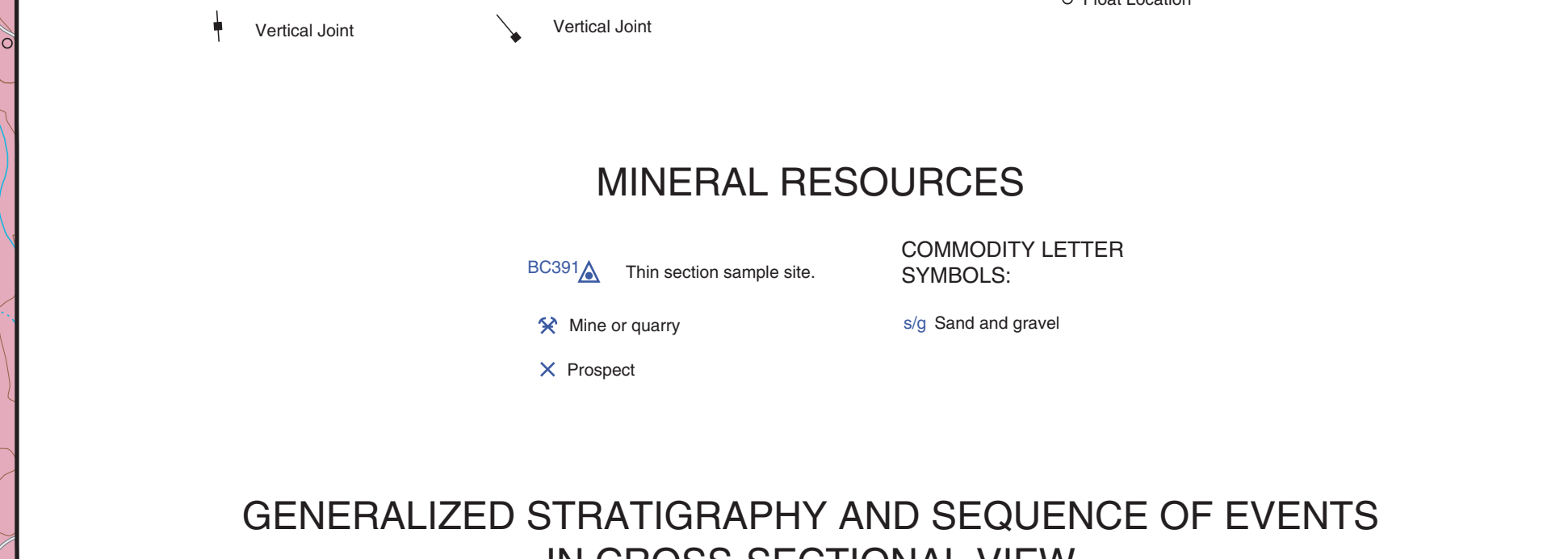
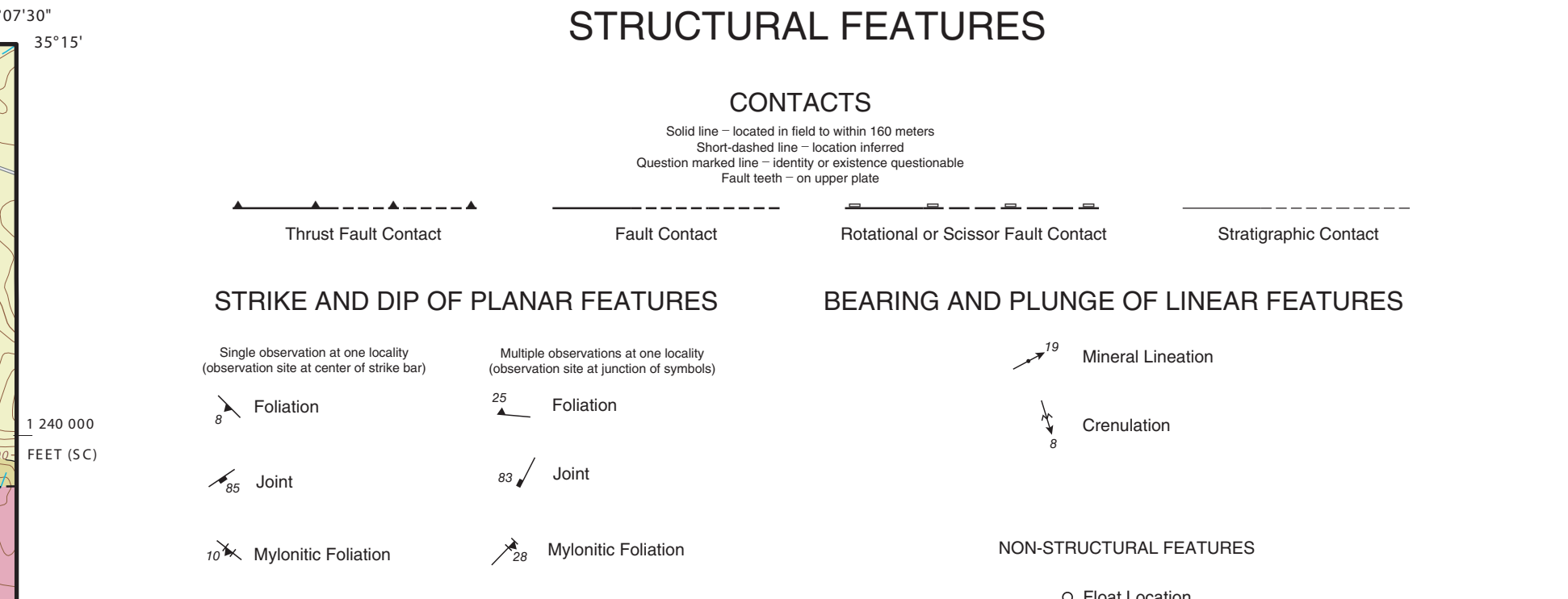
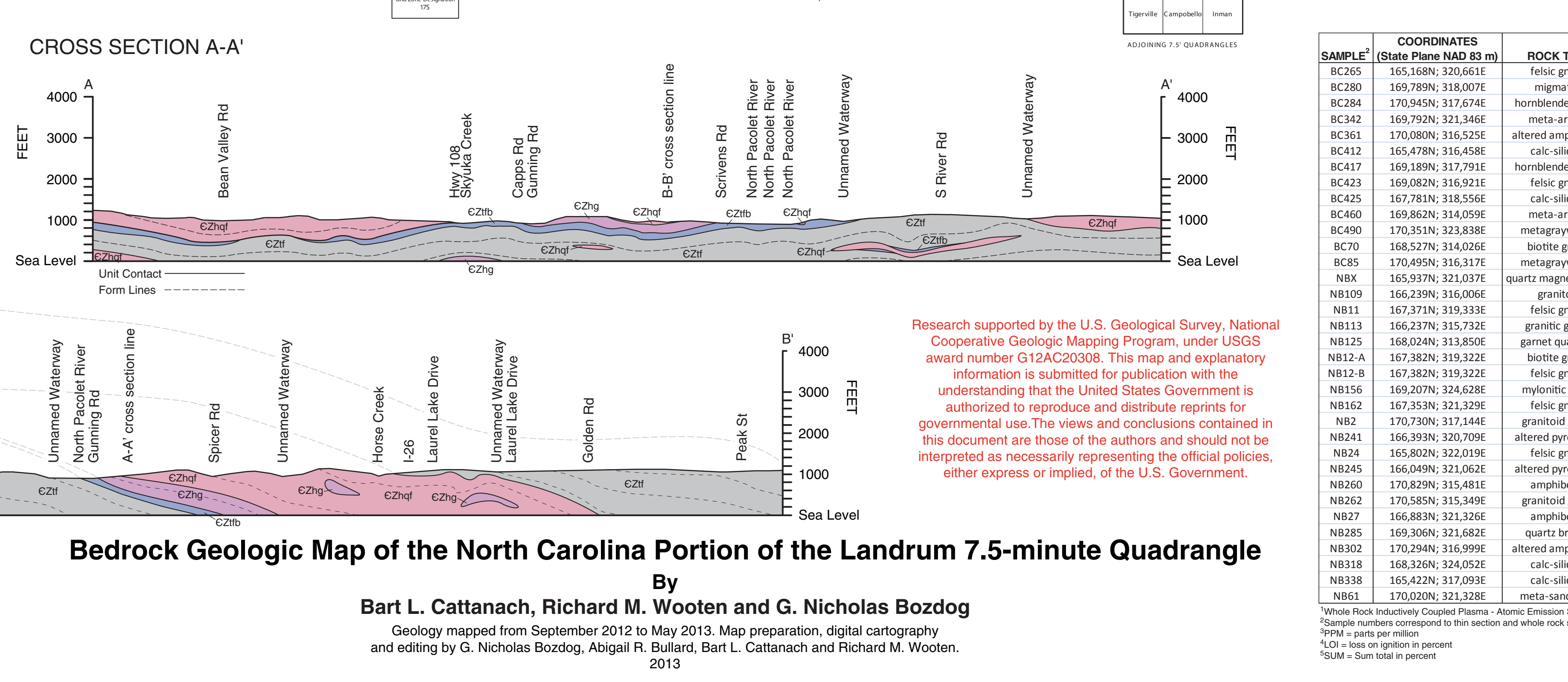
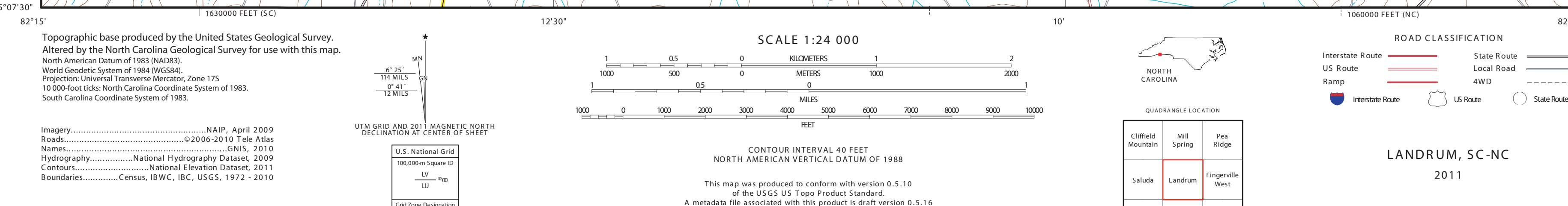
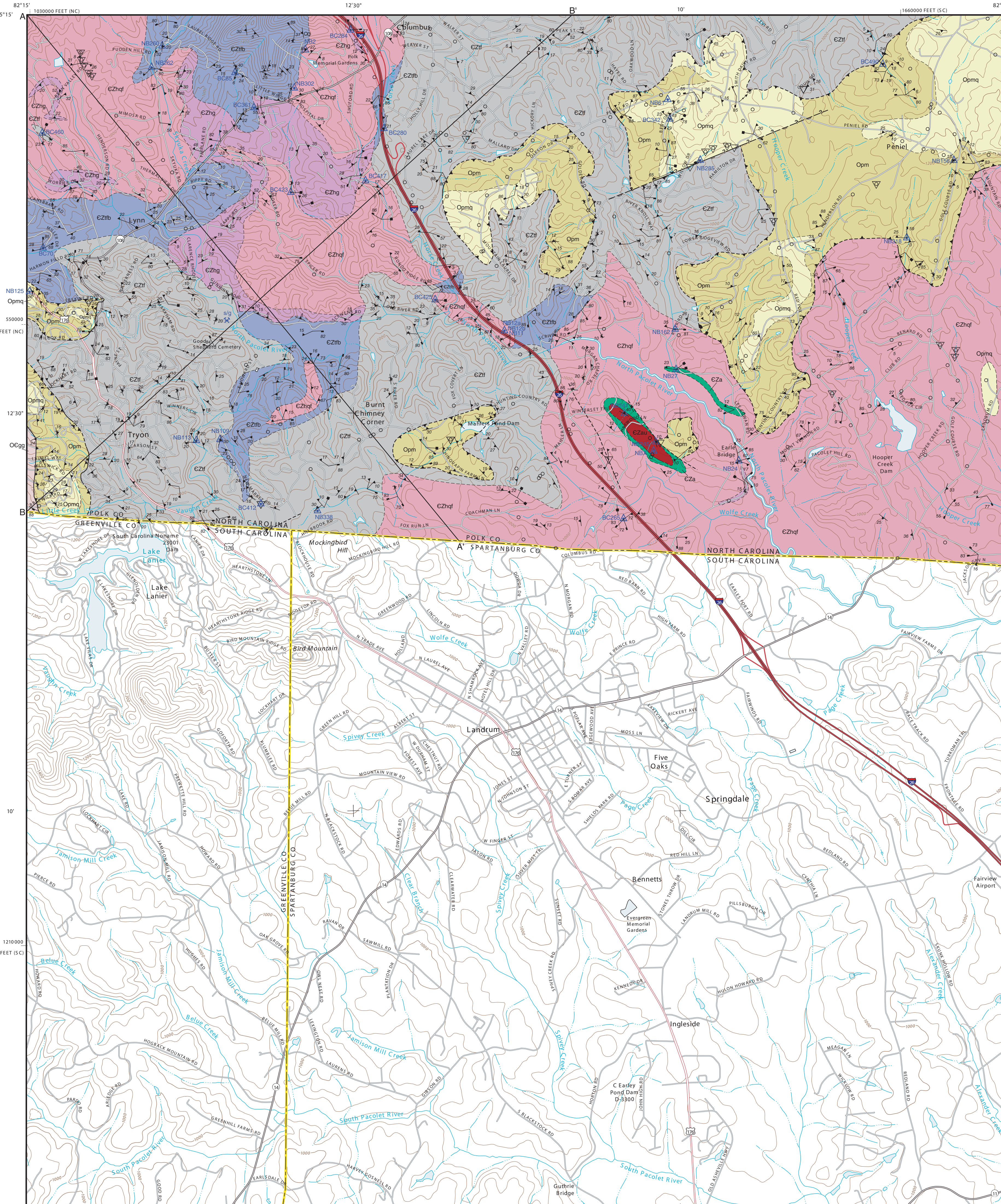
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SAMPLE#	COORDINATES (State Plane NAD 83 m)	ROCK TYPE	MAP UNIT	OXIDES IN PERCENT														ELEMENTS IN PPM ¹											SUM ²
				SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	MgO	CaO	Na ₂ O	K ₂ O	TiO ₂	P ₂ O ₅	MnO	Co ₂ O ₃	Cu	Ba	Zn	Ni	Co	Sr	Zr	Y	Nb	Sr	La	Yb	Sr	La	
BC255	165,155N; 316,661E	felsic gneiss	EZhf	71.86	14.59	3.42	0.64	1.96	3.06	2.55	0.01	0.09	0.05	<0.002	5	1874	24	<20	357	274	161	8	<5	3	2.3	99.92			
BC280	169,789N; 318,007E	migmatite	EZhf	66.68	16.08	4.58	1.54	2.57	2.17	2.68	0.51	0.31	0.07	<0.002	12	692	75	<20	228	326	137	35	17	12	2.6	99.94			
BC284	170,945N; 317,674E	hornblende gneiss	EZhb	64.11	13.75	5.67	4.35	5.94	2.19	0.59	0.17	0.03	0.14	0.066	<5	90	53	<60	161	40	<30	12	<5	28	2.9	99.94			
BC342	169,792N; 321,340E	meta-arkose	Opmq	76.38	12.91	1.73	0.18	0.97	2.38	0.36	0.29	0.06	0.01	<0.002	11	1296	14	<20	121	255	36	16	16	4	2.3	99.94			
BC361	170,909N; 315,525E	altered amphibolite	EZhf	48.92	15.15	11.54	4.77	15.05	1.74	0.12	0.44	0.27	0.024	<5	86	105	<50	147	24	<20	21	<5	4	1.8	99.93				
BC412	165,478N; 316,458E	calc-silicate	EZhf	45.39	19.34	6.29	0.56	11.36	0.01	0.91	0.51	0.1	1.195	<0.002	<5	199	44	<20	83	247	58	34	26	2.5	100				
BC417	169,189N; 317,791E	hornblende gneiss	EZhf	51.27	15.63	11.75	3.66	6.92	3.88	2.72	2.5	0.69	0.21	<0.002	15	799													