

GLY 4310 LAB 11 Contact/Regional and Metasomatic Rocks

ROCK	FELSICS			MAFICS			NOTES
	Calcite	Dolomite	Magnesite	Pyrite	Antigorite	Biotite	
#43 Serpentinite			0-50%, anh, white to greenish, → 2 mm	Scattered xtals, Anh, 0.5 mm	Variable, fibrous, light to medium green		Slickensides visible on some specimens. Some specimens are schistose. Color varies from mottled dark green to black in some; in others light and dark green layers. Some exhibit magnetic pull due to magnetite and/or pyrrhotite.
#72 Pink Marble	80-95%, sbh - anh, pink, 2 → 8 mm.					1-5%, anh, 1 → 2 mm, black	Granular Many specimens show banding of dark layers and pink calcite. This is likely relict sedimentary layering.
#73 Dolomite Marble		99%+, ehd - sbh, white, 2 → 15 mm, rhombohedral cleavage visible					Granular Few crystals of goethite (brown) on large sample. Phlogopite present in some specimens.

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	Quartz	Kyanite	Magnetite	Biotite	Omphacite	
#76 Quartzite	100%, anh					Purple to pinkish aphanitic rock. Color due to small impurities.
#85 Staurolite Quartzite	75%, anh, limonite stained		0-5%, irregularly distributed, slight to definite pull on magnet, rock density is high for a quartzite			Scattered muscovite. Staurolite crystals to 10 mm, anh. Staurolite probably replacing chloritoid. 10-15%. Reddish, anhedral masses are hematite.
#86 Kyanite Quartzite	20 - 65%, anh, 1 - 2 mm, white	30 - 80%, bladed, sbh, - 10 mm, blue	0 - 2%, slight pull on magnet			Andalusite - tabular white crystals on some specimens. Rutile - anh - sbh reddish crystals on some specimens.

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