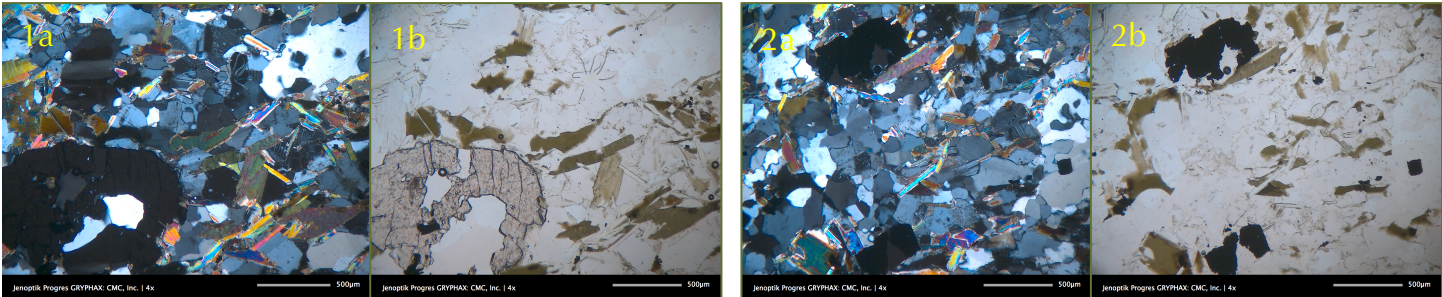


Sample Report Page Showing what is included in Petrographic Examination

Sample ID: "Your Sample ID Here" Rock: Mica-Quartz Schist

Appearance: Dense, hard, dark gray, coarse-grained metamorphic rock
 Examined By: Hand specimen
 Thin Section (< 30 μm thick, 27 mm X 46 mm) for Microscopy;
 Pulverized Powder (<45 μm size) for XRD and XRF
 Mineralogy: Major Minerals - Quartz
 Subordinate Minerals – Plagioclase Feldspar (Albite), Mica (Muscovite, Biotite)
 Minor Accessory Minerals – Zircon, Apatite
 Minerals from Alteration – Sericite (from plagioclase feldspar), Chlorite (from biotite)
 Texture: Schistose texture defined by parallel arrangements of quartz-feldspar grains and mica flakes
 Alterations: Sericitic alteration of plagioclase feldspar and chloritic alteration of biotite mica
 Photomicrographs: 1a, 1b – Crossed and plane polarized light views of garnet porphyroblast at bottom left corner, rest quartz, feldspar, muscovite and biotite mica, green chlorite alteration of pleochroic biotite flakes
 2a, 2b - Crossed and plane polarized light views of dark opaque grains in mica-quartz schist



Chemical Composition from X-Ray Fluorescence Spectroscopy (XRF)

SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	Fe ₂ O ₃	TiO ₂	P ₂ O ₅	SO ₃	Balance
64.0	13.7	1.34	2.03	1.4	3.56	5.69	0.722	0.164	ND	7.86

Mineralogical Composition from X-Ray Diffraction (XRD) & Microscopy

Quartz	Albite	Muscovite	Biotite	Chlorite	Garnet	Opaque	Accessories (Zircon, Apatite)
48.9	17.8	12.2	21.0	<1	<1	<1	<1

