896709

Nicola

Pyramid Group (June & Saw)

1963 - 1964

Rock Name Fract & alt andesite

Locality Pyramid Grp. (Tancowny) Aspen Grove

Occurrence

Megascopic

Serial No. 2731

Field No. MK 64-151

Microscopic Phenocrysts wholly alt to secondary minerals including talc. Plagioclase phenos in fine matrix of felty feldspathic groundmass. Fracture zone full of chlorite. Calcite veinlets. Some felsitic rock fragments. Some crushing evident but some flow structure in the matrix.

MINERALS	Approx. per Cent.	Cut on Dotted Line to Make Clip for Section	Analyst	Date
plagioclase chlorite talc calcite apatite			WDM.	11/2/65



Rock Name andesite flow breccia — Serial No. 2735

Locality Pyramid Grp. (Tancowny) Aspen Grove — Field No. M4K64-90

Occurrence

Megascopic

Microscopic fract[d] phenos ? plagioclase in fgd. felsitophitic matrix? showing flow structures. Carbonate (no effervesc. with cold HCl) minor very throughout matrix. Talc in discrete anhedral grains.

MINERALS	Approx. per Cent.	Cut on Dotted Line to Make Clip for Section	Analyst	Date
apatite			MDM.	11/2/65
talc.				
hematite				
plagioclase				
carbonate				

Rock Name alt'd. enderite

Locality Pyramid Grp. (Tancowny) Aspen Grove

Occurrence

Megascopic

Microscopic feldspar-rich band? Plag. phenos in dusty feldspathic matrix; feldspars little alt'd. pyroxene-rich band with feldspar phenos & appreciable talc.

Serial No. 2736

Field No. M-64-87

MINERALS	Approx. per Cent.	Cut on Dotted Line to Make Clip for Section
apatite		
plagioclase		
pyroxene (clino)		
talc.		
sericite		
black opague		

Analyst AWM.

Date 11/2/65



Rock Name tuff ?

Serial No. 2737

Locality Pyramid Gp. (Tancowny) Aspen Grove

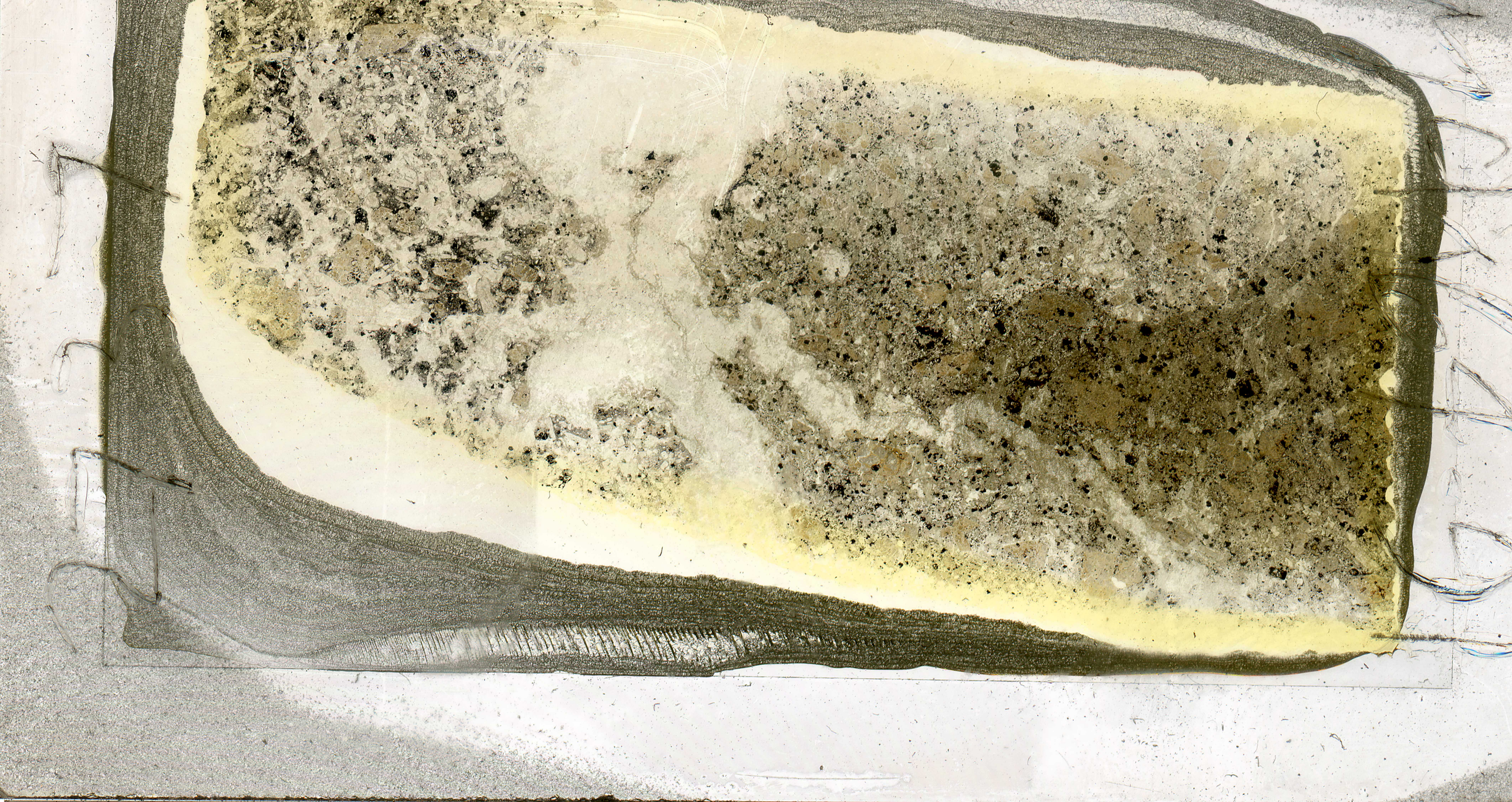
Field No. 114K64-91

Occurrence

Megascopic

Microscopic Shards & microlites ? feldspar in cloudy felsophic matrix ~~stretched~~ ~~with~~ ~~tufa~~. Hematite grains partially rolled with inclusions along cleavages. Scattered anhedral blebs ? cordierite (?)

MINERALS	Approx. per Cent.	Cut on Dotted Line to Make Clip for Section	Analyst	Date
talc				
feldspar				
hematite				
apatite				
calcite				
cordierite (?)				



Rock Name alt^d andesite

Serial No. 7-73B

Locality Pyramid Grp. (Tancowny) Aspen Grove

Field No. 17K64-89

Occurrence

Megascopic

Microscopic euhedral phenos of albite rim many of serpentine; albite also veins the rock; anhedral & subhedral plagioclase (-), with many twins and curved. Sericite is chief mineral. It has a few small needles that may be tourmaline. Calcite & limonite in anhedral & also pyrrhotite - shaped masses.

MINERALS	Approx. per Cent.	Cut on Dotted Line to Make Clip for Section	Analyst	Date
plagioclase			WDM.	11/2/65
chlorite				
calcite				
tourmaline ?				
hematite				



Rock Name andesite + albitized

Serial No. 2739

Locality Pyramid Grp. (Tancowney) Aspen Grove

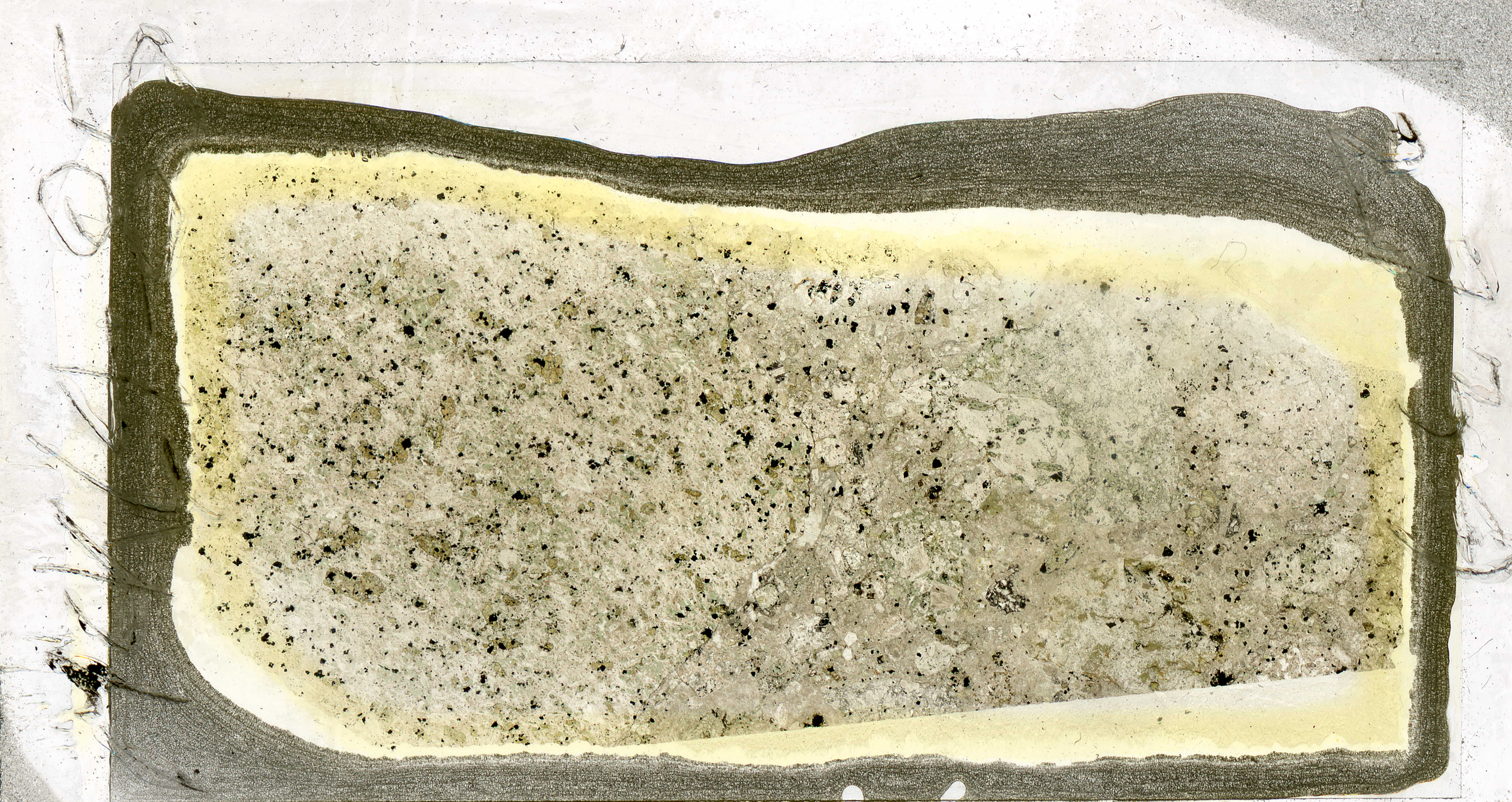
Field No. MK 64-85

Occurrence

Megascopic

Microscopic pyroxene in part + wholly altd + chlorite; plag. some relics sericitized; both embayed by later albite.

MINERALS	Approx. per Cent.	Cut on Dotted Line to Make Clip for Section	Analyst	Date
Calcite			Swan.	10/2/65
Chlorite				
clinopyroxene (pigeonite)				
plagioclase				
albite				
sericite				
black opaque				



Rock Name Andesite — Serial No. 1758

Locality June #8 McC, west of Kentucky Lake — Field No. McK 63-64

Occurrence

Megascopic

Microscopic pyroxene almost wholly alt⁰ to epidote, plagioclase mostly alt⁰ to epidote + quartz with rims of albite and many phenos rounded; ortho fract'd. Rock zoisite as phenos; epidote along feldspar cleavages as well as in center of phenos. One section of epidote shows bright pleoch. colors.

MINERALS	Approx. per Cent.	Cut on Dotted Line to Make Clip for Section	Analyst	Date
zoisite (pink) clinopyroxene epidote (pied montile?) plagioclase (alt) black opaque & hematite			Upham.	10/1/64



Rock Name Pyroxene diorite or gabbro. Serial No. 2372

Locality Pyramid Mining Co., Aspen Grove., 1964 NDM. Field No. Tacoushey-1

Occurrence Intrusive dyke(?) in Nicola fragmentals, on

Megascopic Fragmental-looking rock, weakly mineralized with pyrite & malachite

Microscopic parts of slide show ghosts of plagioclase in a dense matrix, but these are evidently crush zones. Plagioclase twinning oblique to section, so composition in doubt, but lack of marked zoning renders labradorite unlikely.

MINERALS	Approx. per Cent.	Cut on Dotted Line to Make Clip for Section	Analyst	Date
			GBPE.	Oct. 20'64.
pyroxene	15			
plagioclase – An35?	60			
Biotite	2			
Chlorite	15			
Black-opaque	3			
Carbonate veinlets & dissem. grains	5			

