

Sample No.	Classification - Composition	Fabric	Accessories	Comments
29955 STITT K-Positive	Porphyritic Trachyandesite. Epidotised/albitised plagioclase phenocrysts, clusters; disseminated quartz amygdales in coarsely perlitic felsitic alkali groundmass stained with chlorite.	Phenocrysts to 1.5 mm, clusters to 3.5 mm. Amygdales mean 250 μ. Weakly sheared.	Disseminated magnetite, leucoxenised ilmenite, rare apatite. Sparse, partly oxidised pyrite.	Very similar to 29954. Frequent phenocrystal clusters may be cognate xenocrystal in part. Relatively marked biotitic alteration of groundmass.
29962 STITT K-Positive	Porphyritic Trachyandesite. Epidotised/albitised plagioclase phenocrysts, sparse xenoliths in chlorite- and sericite-stained microcrystalline felsic groundmass. Frequent quartz-epidote amygdales.	Phenocrysts mean 350μ, amygdales to 2 mm. Strongly sheared.	Disseminated (to 400μ) magnetite and leucoxenised semi-opaques, rare apatite.	Xenoliths sheared into lenses, but of cognate character (sim. 29955, 54). Fragmental appearance reflects shearing. No tangible pyroclastic features.
29968 STITT K-Negative.	Dacitic Tuff. Angular to subround, weakly sericitised, silt- to fine sand-sized plagioclase, rare lava clasts in chlorite-sericite matrix. Occasional disrupted labile perlitic	Vague relict ?abraded shard textures in sand fraction. Slumped, moderately sheared.	Rare clastic quartz and leucoxenised opaques. Minor relict biotite (chloritised).	Fabric suggests a weakly turbiditic, subaqueous facies (tuffwacke/reworked tuff), but fine detail obliterated by alteration and slaty cleavage.
29969 STITT K-Positive	Rhyolitic Xenotuff. Fine sand- to grit-sized angular quartz, perlitic rock fragments, subordinate alkali (K) feldspar and lava (rhyolite) clasts. Sheared quartz-sericite matrix.	Poorly sorted, incipiently bedded, strongly sheared. Relict embayed margins in quartz.	Clastic magnetite and rare clastic mica flakes (muscovite, degraded biotite).	Finer detail obliterated by shearing, but clearly proximal lithic-crystal tuff with subordinate non-pyroclastic component. Probably subaqueous.
29652 Shittck Mit. Murchison K-Negative	Tuffaceous Pelite. Sericitic quartzose silty shale with silty interbeds of angular to subround quartz, minor sericitised ?abraded shards sparse muscovite in sericite matrix.	Slumped, incipiently sheared. Scattered quartz with relict embayed margins.	Minor clastic biotite (sericitised), leucoxenised semi-opaques. Traces carbonaceous matter.	Essentially a weakly carbonaceous, quartzose silty shale with a minor reworked acid tuffaceous component. Weakly Fe-stained, but devoid of sulphides.
29654 Mt. Murchison K-Positive	Hornblende-Biotite-Adamellite. Orthoclase-microperthite and heavily sericitised oligoclase in near-equant proportions. Subordinate dark green hornblende, extensively chloritised dark brown	Prismatic plagioclase, amphibole, biotite in granitic quartz, orthoclase. Mean grainsize	Primary magnetite and traces apatite, sphene. Minor secondary epidote and traces oxidised	Abundant ferromags. suggest differentiation from diorite-monzonite facies. Sericite is pale green hydromuscovite and orthoclase pink. Incipiently stressed
29658 NPP213 71.30m K-Negative	Rhyolitic Ignimbrite. Sericitised/weakly carbonated feldspar and slightly subordinate quartz crystals/fragments; sericitised/chloritised lithic clasts in sericitised shaly matrix.	Poorly sorted with contorted flow-fabric. Mildly sheared. Late calcite veins.	Disseminated leucoxenised opaques and very rare apatite.	Lithic clasts include lava and pyroclastic types (vitric, vitric-crystal tuff, pumice). Gross fabric typical of flow-brecciated ignimbrite.
29659 NPP213 121.50m K-Negative	Arkosic Sandstone. Framework angular to subround oligoclase-albite and slightly subordinate quartz. Rare sericitised ?rhyolite clasts. Quartz-feldspar-sericite cement.	Poorly to moderately sorted, weakly bedded, incipiently stressed. Irregular aggregates, veins, quartz, calcite, chlorite.	Leucoxenised clastic opaques.	Medium- to coarse-grained. Clastic feldspar mildly sericitised/carbonated. Authigenic overgrowth cement with intergranular sericite. "Granitic" source.

653117