

GOLD FIELDS EXPLORATION PTY. LIMITED  
DRILL CORE RECORD

HOLE NO.: GP 8  
STATE : TASMANIA

650420

Sample No.	Classification - Composition	Fabric	Accessories	CENTRAL MINERALOGICAL SERVICES Comments
2970 (T.S. 50903) 465-1m	Metasomatized Conglomerate. Quartz and dark green schorl in varying proportions with disseminated to locally semi-massive pyritised pyrrhotite. Patchy coarse poikilitic siderite, semi-pervasive fine hematite, patchy chlorite.	Relict sand-supported, conglomeratic. Vaguely brecciated/siderite-chlorite-quartz-healed.	Locally conspicuous chalcopyrite, traces sphalerite. Thinly disseminated cassiterite.	Schorl-quartz-pyrrhotite-veined/metasomatized conglomerate, vaguely brecciated and siderite-chlorite-altered. Cassiterite as 10-100 μ, mean 50 μ particles, loose clusters in quartz, schorl, siderite.
2971 465-7m	Metasomatized Grit. Tremolite-pseudomorphous chlorite with subordinate intergrown fine-grained dark green schorl, varying proportions of schorl-stained quartz. Pervasive fine hematite. Minor pyritised pyrrhotite.	Relict, weakly bedded, poorly-sorted (sandy to pebbly) gritty clastic.	Locally conspicuous cassiterite.	Tremolitized-tourmalinized-silicified grit with pervasive "retrograde" chlorite. Cassiterite is ultrafine (typically < 10 μ, max. 20 μ); included in quartz or intergrown with fine metasomatic schorl.
2974 465-466 Crushed (-4 jacks)	Metasomatized ?Grit. Chips of fine-grained schorl-, schorl-quartz-chlorite(+ siderite) rock, variably pyritised "massive" pyrrhotite, chloritised tremolite-schorl rock, minor schorl-stained vein-quartz.	Poorly defined due to modal chip sizing. Relict poorly sorted, coarse psammitic in part.	Semi-pervasive disseminations of hematite (sim. 2970, 2971). Disseminated cassiterite.	Close affinities with 2970, 2971, but less siliceous. Cassiterite as 10 to 150 μ, mean 75 μ loosely clustered grains in siderite, siderite-schorl aggregates.
2973 388-5 -389-5 Crushed (-4 jacks)	Altered ?Conglomerate. Chips of chloritic/weakly tourmalinized silty pelite, tremolitized chloritised-tourmaline-stained microgabbro, schorl-stained quartz/chloritised tremolite rock; minor chlorite pelite-matrixed gritty composites.	Poorly defined due to chip sizing, but consistent with a pelite-matrixed sand-supported conglomerate.	Thinly disseminated sphalerite, traces variably pyritised pyrrhotite. Rare to locally conspicuous cassiterite.	Reflects pervasive phlogopite-tremolite(-schorl-quartz) alteration and marked "retrograde" chloritisation. Cassiterite as single 10-200 μ, mean 50 μ grains, spongy millimetric-scale clusters in chloritised pelite.
2975 483-0 -489-0 Crushed (-4 jacks)	Metasomatized ?Conglomerate. Chips of schorl-veined tremolite-, tremolite-schorl, semi-massive schorl rock, talc-quartz rock with disseminated magnetite (in tremolitic zones) and pyritised pyrrhotite (concentrated in talc-quartz rock).	Obscured by chip sizing, but not inconsistent with a veined/metasomatized polymict conglomerate.	Patchy tremolite-replacive chlorite, minor late siderite. Disseminated cassiterite.	Composite of tremolitized/tourmalinized "basic" and talc-quartz-altered carbonate components. Cassiterite as single 100-350 μ grains in talc-quartz rock; 15-75 μ, mean 30 μ particles in schorl-tremolite rock.
2976 516-3	Uralitised Microgabbro. Saussuritized (illitised-sericitised) plagioclase and subordinate/variable proportions of actinolite-pseudomorphed pyroxene with disseminated variably leucoxenised opaques. Patchy metasomatic fine-grained phlogopite.	Relict medium-grained, "doleritic". Weakly feldspar-porphyrific. Compositionally banded.	Minor actinolite veinlets and discontinuous late phlogopite veinlets.	Thoroughly saussuritized/uralitised microgabbro, conceivably representing the core of a thick basic flow, alternately minor intrusive. Phlogopite veining/replacement overprint uralitisation.
2977 534-3	Tremolitic Serpentinite. Antigorite aggregates, variably impregnated with colourless tremolite and late films, tremolite-replacive aggregates of magnesian carbonate. Conspicuous disseminations or relict primary chromite.	Semi-banded. More or less pervasively mesh-textured (pyroxene-derived) antigorite.	Sporadic patches of ultrafine secondary ("exsolved") magnetite. Traces of extremely fine-grained (?Ni) sulphide.	Serpentinised pyroxenite ("websterite") with patchy antigorite-replacive tremolite aggregates and late tremolite-corrosive magnesite. Antigorite is weakly pleochroic.
2978 528-3	Uralitised Microgabbro. Sericitised plagioclase and extensively uralitised (actinolitised) diallagic diopside with minor chloritised biotite. Disseminated altered (chloritised/phlogopitised) primary opaques.	Analogous to 2976, but coarsely feldspar-porphyrific. Mildly sheared/partly recrystallized.	Sporadic spongy aggregates of opaque-replacive pyrrhotite.	Close affinities with 2976 and similarly altered, but with relatively marked post-uralite phyllosilicate alteration with accessory associated fine-grained pyrrhotite.
2979 (T.S. 50911) 526-4	Serpentinite. Antigorite with disseminated relict primary chromiferous (zoned) magnetite. Minor clots, films of cloudy magnesian carbonate.	Weakly sheared/partly recrystallized, but with more or less pervasive coarse pyroxene-derived mesh textures.	Traces ultrafine secondary magnetite. Minor traces ultrafine sulphide.	Serpentinised pyroxenite with affinities to 2977. In contrast, the tremolitic alteration is absent and late carbonation is incipient only.