

## DIAMOND DRILL RECORD

HOLE NUMBER : FED 23

LOGGED BY : D. Kilpatrick

INTERVAL (m)		RECOVERY		DESCRIPTION	FORM	% Sn.										
FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g t Ag
				The porphyritic appearance of the granite is due to altered rimmed plagioclase hence the texture is less obvious in fresher zones. Minor pyrite occurs either disseminated or as sinuous aggregates along grain boundaries.												
187.1	187.8	0.7	100	APLITE Fine to fine-medium grained banded grey and pink aplite with small biotite nodules ( 2mm) and minor muscovite. Small subeuhedral feldspar phenocrysts ( 4mm) occur at contact and with some bands. Contact 45° to core axis. Unit is probably chilled margin of unit below. Gradational contact over 20cm to												
187.8				GREY FINE-GRAINED PORPHYRITIC GRANITE Fine grained, grey quartz-feldspar biotite matrix (average grainsize 2-3mm) with abundant medium to coarse grained plagioclase and K-feldspar phenocrysts. These range widely in size and shape from 0.5cm to 1.5cm sometimes tabular mostly nebulous shapes. Grains are white or greenish white and pale pink. The plagioclase are often rimmed. Some greisenised horizons have chloritised yellow-green altered plagioclase. Pyrite and small tourmaline nodules occur occasionally. 196.8-198.5m; Alteration zone - slightly broken and with yellowed feldspar. 198.5-210.9m; Core almost identical with material above alteration zone but with pink K-feldspar. Plagioclase is green or yellow and has a more prominent pale yellow alteration rim. Occasional grey nebulous blebs of (?) quartz-tourmaline-topaz and some ragged tourmaline nodules with reaction rim. Small greisen veins occur at 205.7m (40° to core axis) and 206.6m. 210.9-232.8m; Grey fine/medium grained porphyritic granite. Core is similar to above but with a coarser ground mass and widely varying grainsize with a result that the core appears less porphyritic. A greisenous aplite with pyrite of the joint surfaces occurs at 314.8-215.3m. Greisenised joints occasionally carry minor pyrite. Some zones associated with greisenisation appear slightly silicified. Grey blebs of quartz-tourmaline-topaz are occasional to common. Pyrite is rare to minor in the porphyritic granite.  Hole Terminated at 232.8m												

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