



## DIAMOND DRILL RECORD

HOLE NUMBER : FED 19

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
0	24.5	22.8	92	<p>Coarse Grained Red Granite - coarse grained very competent core of plagioclase, K-feldspar and quartz with quartz and lesser biotite and very rare pyrite grains (&lt;1mm). Average grainsizes; quartz 0.8cm K-feldspar 1.2cm, plagioclase 0.8cm, biotite 0.2cm. K-feldspar is bleached white at surface and becoming flesh coloured with depth to pink at lower contact. Grains are often tabular and twinned - rarely with plagioclase alteration rim. Plagioclase is translucent green to pale greenish white opaque or altered to creamy yellow and not tabular.</p> <p>4.3cm, Aplite band (40° to core axis) with central feeder veinlet.</p> <p>Numerous fractures with oxidation and alteration associated.</p> <p>14.3-16.0m - fracture along core axis.</p> <p>18.7m; inclusion or cross-cutting dyke of medium grained potassic rich rock with quartz, biotite and plagioclase.</p> <p>20.6m; 1.5cm bank of pink K-feldspar cross-cutting at 45° 80% K-feldspar, 20% quartz and plag. with quartz, plagioclase at contacts.</p> <p>Occasional biotite tourmaline quartz filled fractures. 25° to 45° to core axis.</p> <p>23.8-24.5m (?) greissenised and sheared section of banded red and porphyritic granite. Biotite rich bands occur at 25° or 40° to core axis. Feldspars are very altered.</p> <p>Sharp contact at 60° to core axis.</p>												
24.5	25.4	0.9	100	<p>Aplite - cream coloured, sugary textured core of quartz-feldspar-biotite (slightly chloritised (?)); average grainsize ≤1mm. A number of joint planes (av. 60°). Rusting around fractures. Lower contact slightly diffuse.</p>												
25.4	29.3	3.9	100	<p>Medium Grained Porphyritic Granite - grey and creamy gray, fairly broken core of medium grained quartz, two feldspars, biotite and numerous rounded opaque speckled quartz porphyroblasts and tabular altered feldspar porphyroblasts. (feldspars mostly creamy altered plagioclase - some pink K-feldspars)</p> <p>The core is fairly altered with weathering concentrated along fractures which are oriented at 35°-50° to core axis. Gradational contact over 2cm.</p>												

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FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag
29.3	34.5	5.2	100	<p>Fine-Grained White Granite - pale creamy white fine grained slightly broken core of quartz, white and yellow feldspar and biotite - average grainsize of all minerals 2mm. Rare pyrite blebs up to 3mm Quartz phenocrysts occasional - av. 5mm. Occasional large diffuse quartz - (?) topaz - tourmaline porphyroclasts up to 10cm across. Quartz porphyries are grey and opaque (fluid inclusions (?)). Rare apple green siliceous alteration mineral.</p> <p>Contact approximately 25° to core axis.</p>												
34.5	35.9	1.4	100	<p>Medium Grained Porphyritic Granite (as described above). Joint plane at 10° to core axis.</p>												
35.9	63.2	27.3	1--	<p>Fine Grained Granite - white or pinkish fine grained or porphyritic fine grained competent core generally as described above (29.3 - 34.5m) fairly altered (chlorite and clay) and sheared between 37.5-41.5m.</p> <p>38.9-45.1m; Porphyritic horizon; pink feldspars and altered creamy-yellow plagioclase with tourmaline rich porphyroblastic nodules up to 8cm across. Some modules show pinkish alteration rim possible due to albitization.</p> <p>51.3-63.2m, zone of altered porphyritic fine to medium grained granite. Plagioclase porphyroblasts are stained yellow and up to 8mm across. Occasional (biotite) tourmaline nodules and some pink colouration of feldspars. This zone is frequently sheared and broken with oxidation staining associated with fracturing shearing planes average 20° to core axis with rare conjugate joints at 55° to core axis.</p> <p>Occasional tourmaline (?) biotite filled veinlets with alteration haloe which includes muscovite and biotite in a leached zone. NB Feldspar phenocryst has developed across the veinlets, hence possibly post-dates veinlet, at 56.6m. Veinlet at 28° to core axis.</p> <p>Core become less altered with pale green plagioclase at base.</p>												
63.2	110.1	46.9	100	<p>Fine-Medium Grained White Granite - pale grey to white and altered yellowish core of feldspar and quartz with less and finer grained biotite than porphyritic unit above. Unit contains abundant tourmaline ± quartz ± biotite ± (?) topaz nodules up to 5cm diameter.</p> <p>The upper contact has a 'chilled' appearance and is silicified and dark grey green in colour with pink feldspar bands and abundant fine dark green needles of tourmaline.</p>												

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INTERVAL (m)		RECOVERY		DESCRIPTION	FORM.	% Sn.										
FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL	% Cu	% Al	% S	% Pb	% Zn	% Bi	g/t Ag
				Abundant joint planes (av. 20°-30° to core axis), occasionally slickensided.												
				Common tourmaline ± biotite ± muscovite (?) greissen veinlets occur with dark grey alteration haloe containing quartz and muscovite (20°-30° to core axis). Veins are often sinuous.												
				Occasional porphyroblasts of quartz-feldspar nodules up to 5cm diameter - cavities within these nodules contain rare to minor crystalline sulphides.												
				67-77m. Sulphide content increases to minor amount with depth, occurring as small disseminated blebs usually associated with joint planes.												
				94.6-101.3m: Alteration zone yellow and oxidised core with abundant shearing and fracturing. Possible minor fault at 100.9m.												
				Pyrite (±?) sphalerite) not uncommon on joint planes.												
110.1	114.2	4.1	100	Altered Porphyritic Granite - Alteration zone in medium-grained porphyritic horizon. Sharp contacts at 40° to core axis.												
114.2	160.4	46.2	100	Fine-Medium Grained Granite - Very similar to unit above (63.2-110.1m) - slightly chilled upper contact. A number of fractures occur with distinctive greissenous appearance. The central veinlet is filled with sulphide (?) pyrite. A 2cm wide olive green greissenised tourmaline haloe surrounds the vein and contains disseminated sulphides and muscovite, with possible and minor carbonate component. A second layer 0.3cm to 0.5cm wide is dark grey with quartz and minor muscovite. The third is pale grey (0.5cm) with weathered feldspar and quartz. The successive layers are less altered with white and pink feldspars respectively, with distinct boundaries between bands.	159.4	160.4	0.01	0.01	0.01	0.1	0.1	0.01	0.01	0.004	1	0.01
						161.4	0.01	0.01	0.01	0.1	0.1	0.01	0.01	0.003	1	0.01
						162.4	0.01	0.01	0.01	0.1	0.2	0.01	0.02	0.005	2	0.01
						163.4	0.04	0.01	0.01	0.1	1.1	0.01	0.01	0.004	1	0.01
						164.4	0.02	0.01	0.01	0.1	0.3	0.01	0.01	0.003	1	0.01
						165.4	0.04	0.01	0.02	0.1	0.5	0.01	0.01	0.004	1	0.01
						166.4	0.01	0.01	0.02	0.1	0.2	0.01	0.02	0.003	1	0.01
						167.4	0.02	0.01	0.02	0.1	0.3	0.01	0.01	0.006	1	0.01
						168.4	0.03	0.01	0.02	0.1	1.1	0.01	0.01	0.001	1	0.01
						169.4	0.02	0.01	0.01	0.1	0.1	0.01	0.01	0.001	1	0.01
				127.5-129.7m, Argillised granite with abundant fractures (av. 40° to core axis). Quite broken core - RQD 25%. Oxidation dominant feature feldspars pink, yellow and quartz grey.	169.4	170.4	0.01	0.01	0.02	0.1	0.1	0.01	0.01	0.002	1	0.01
				Below argillised zone, low angle shearing, approximately 10° to core axis, is common. A few fine greissen veins occur, chlorite and sericite abundant in veins. Two zoned greissen veins similar to those above the argillised zone occur below it. (45°-38° to core axis)												
				151.4-152.3m, fine grained white aplite dyke; competent core. One joint plane has pyrite on surface - contacts 45° (upper) and 38° (Lower) to core axis.												

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HWPS

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FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL.	% Cu.	% Al.	% S.	% Pb.	% Zn.	% Bl.	g/t Ag
				Base of main unit grades from pink colour to pale greenish yellow colour over last four metres. Gradational contact to.												
160.4	169.5	9.1	100	Greisen Alteration Zone, dark greenish grey sericitised greissenous granite containing partly dissolved quartz grains and mostly completely chloritised material, with occasional alternating bands of slightly argillised granite. Contains only very minor sulphides and minor fine grained mica. Contacts between granite and sericite rock is usually very distinct and over only 0-1cm. Occasionally banded appearance, (due to solution Leisegang effects(?)). The contact is sub-parallel to the core axis.												
169.5	197.3	27.8	100	Medium Grained Granite - Very altered argillised yellowish mostly competent or slightly broken core of yellow and creamy white feldspar (plagioclase and K-feldspar respectively) and grey quartz. Occasional tourmaline (± quartz) filled greisenous veins (177.6m, 179.8m, 190.7m, 192.5m). Joint planes average 45° to 60°. 193.8-194.6m - very argillised granite, feldspars gone to clays. 194.6-195.9m - very broken zone 194.9-197.3m - competent slightly weathered medium grained grey granite.												
				HOLE TERMINATED IN GRANITE AT 197.3M												

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