Drill Log Summary

Hole ID : MS001
Location : High Point
Azimuth : 315°
Dip : 85°
Easting : 388,222
Northing : 5,392,744
Elevation : 623
Collared : 27 April, 2007
Completed : 05 July, 2007

Stratigraphic Unit	From	To	Description
Southwell Sub Group	0	287.1	Alternating beds of crystal lithic, polymict, **VOLCANICLASTIC MASSFLOW/BRECCIA; BLACK SHALE and VOLCANICLASTIC SANDSTONE.** Partially sericite altered. Trace to minor fine grained pyrite (0.1-2%) as sporadic disseminations, blebs and veinfill. Trace red brown sphalerite. Sharp conformable lower contact.
Que River Shale	287.1	632	**BLACK SHALE**, massive and locally thinly bedded siltstone. Minor diagenetic pyrite/pyrrhotite. Trace hydrothermal pyrite. Peperitic breccia lower contact.
Que Hellyer Hanging Wall	632	727.8	Alternating **HYALOCLASTITE and MASSIVE BASALT**. Common peperite breccia. Medium to abundant vesicles. Minor to common quartz-carbonate veins. Weak chlorite alteration throughout the unit with carbonate altered matrix within Hyaloclastite breccia. 0.2 – 3% pyrite as blebs and wisps. Trace dark brown sphalerite associated with veins in the upper part of this unit.
	727.8	730	Pyritic **BLACK SHALE**. Diffuse fine grained pyrite, up to 5%.
	730	746.6	**VESICULAR BASALT**. Common quartz-carbonate veins. Trace fine grained pyrite +/- pyrrhotite-sphalerite associated with carbonate veins.
	746.6	777.7	Alternating **BLACK SHALE, EPICLASTIC and SANDY BLACK SHALE**. Minor wispy and disseminated fine grained pyrite (1-3%). Trace red brown sphalerite as blebs and stringers (0.1-0.5%). Fine grained Basalt at 768.8-775.2m.
	777.7	845.5	Fine grained **VESICULAR BASALT**. Weak chlorite-carbonate alteration. Locally fuchsitic. Minor quartz-carbonate veins and veinlets. Trace fine grained pyrite and pyrrhotite as blebs and associated with veins.
	845.5	848.4	**BLACK SHALE**. Common irregular quartz-carbonate veins. Minor fine grained pyrite-pyrrhotite as stringers, wisps, and associated with veins (1-2%).

	848.4	1226.7	Alternating **HYALOCLASTITE and MASSIVE BASALT**. Locally peperite breccia. Medium to abundant vesicles. Minor to common quartz-carbonate veins. Weak chlorite +/- epidote alteration throughout the unit with carbonate altered matrix within Hyaloclastite breccia. 0.1-2% pyrite +/- pyrrhotite as blebs and wisps. Locally minor fuchsite.
	1226.7	1258.4	Alternating **FELDSPAR PHYRIC ANDESITE and VESICULAR BASALT**. Weak to medium chlorite +/- epidote alteration. Trace to minor pyrite +/- pyrrhotite as wisps and blebs (0.1-2%).
Mixed Sequence	1258.4	1271.7	Pinkish green to green, siliceous, weak to moderately chlorite altered, locally remnant silica albite altered, **DACITE? BRECCIA**. Locally feldspar phyric. Comprises scattered dacite clasts, typically angular to sub angular, 2mm-5cm, in a moderately chlorite altered matrix. Disseminated and wispy fine grained pyrite. Minor quartz-chlorite veins with large vein (15 cm) at 1267.1m. Strongly fractured to broken with shearing in places from 1264.5-1266.8m.
	1271.7	1293.6	Green minor pinkish green, fine grained, massive, locally narrow self brecciated, **BASALT**. Weak to moderately chlorite alteration with minor epidote spotting alteration. Local remnant silica-albite alteration. Trace fine grained pyrite as sporadic dissemination and wisps. Minor hematite stringers at 1292.7-1293.2m interval. Broken core at 1278.7 - 1281.7m interval.
	1293.6	1334.1	Pinkish green to green, siliceous, massive, medium to poorly sorted, **DACITE LAVA BRECCIA**. Locally feldspar phyric with feldspar generally 1mm, anhedral to subhedral. Silica-albite alteration overprinted by chlorite alteration. Trace fine grained pyrite as blebs and clustered blebs aggregate. Minor quartz-carbonate +/- chlorite veins and veinlets.
	1334.1	1350.7	Pinkish-green to green, massive, **APHYRIC DACITE**. Feldspar phyric at upper part of this unit, but predominantly aphyric. Weak to medium silica-albite alteration overprinted by weak to moderately chlorite alteration. Locally self brecciated. Trace fine grained pyrite as stringers and blebs. Brecciated lower contact.
	1350.7	1354.3	Green, massive (local narrow breccia) fine grained, **BASALT**. Moderately chlorite alteration. Minor carbonate alteration in breccia matrix. Trace fine grained pyrite as blebs. Trace carbonate veinlets. Sharp lower contact.
	1354.3	1355.3	Pinkish green, poorly sorted, monomict, **DACITE LAVA BRECCIA**. Comprises weak silica-albite alteration overprint by moderately chlorite alteration. Trace irregular carbonate veinlets. Trace fine grained pyrite as blebs and clustered blebs aggregates. Sharp irregular lower contact.

	1355.3	1357	Green, massive, local narrow breccia, fine grained, **BASALT**. Moderately chlorite alteration. Minor carbonate alteration in breccia matrix. Trace fine grained pyrite associated with carbonate veinlets. Trace carbonate veinlets. Dacite clast (15 cm) at 1356.3m. Sharp lower contact.
	1357	1367.5	Pinkish green, poorly sorted, monomict, **DACITE LAVA BRECCIA**. Comprises silica-albite and chlorite altered dacite clasts, typically 3mm-5cm, in a weakly chlorite altered matrix. Later tectonic breccia at 1362.7-1364m and 1365.5-1367.5m intervals with disseminated fine grained pyrite up to 5%. Trace carbonate veinlets. Lower contact at fault.
	1367.5	1392.8	Creamy, pinkish, light green, massive, **BASALT**. Local peperite breccia. Minor vesicles, typically 1mm. Locally self brecciated. Weak silica-albite alteration overprint by weak chlorite alteration. Trace blebs fine grained pyrite. Minor regular and irregular quartz-carbonate +/- tremolite veins and veinlets. Sheared (1.5 cm) with clay gouge at 1374m. Broken core at 1386.3-1387m and 1390.5-1390.6m intervals. Sharp lower contact.
	1392.8	1409.7	Pinkish to creamy light green, massive, Moderately to strong fractured and local broken, **FELDSPAR PHYRIC DACITE?**. Weakly chlorite alteration with local weak silica-albite alteration. Minor wispy and disseminated fine grained pyrite particularly at 1395.8-1398.6m interval. Minor regular quartz-carbonate veins and veinlets with large 10 cm vein at 1392.5m interval. Faulted lower contact.
Que Hellyer Footwall	1409.7	1438.1	Creamy light green to green, massive, weakly chlorite altered, fine grained **BASALT**. Common regular and irregular quartz-carbonate veins and veinlets. Trace to minor vesicles. Trace fine grained pyrite associated with veins and blebs. Moderately fractured at 1422-1422.8m, Strong fractured at 1430.4 - 1431.4m interval. Sharp lower contact.
Animal Creek	1438.1	1467.1	Grey, fine to coarse grained, minor bedded, mafic **VOLCANICLASTIC SANDSTONE**. Locally minor lithic clasts, generally quartz and mafic rocks up to 2cm. Trace to minor fine grained pyrite as blebs, wispy and sporadic dissemination. Narrow Basalt dyke at 1440.3-1440.5m interval. Faulted lower contact.
	1467.1	1565	**Alternating micaceous Greywacke, black shale and fine grained Basalt.**
	1565	1603.6	Grey to dark grey, minor bedded, fine grained, **alternating Greywacke, shally greywacke and narrow black shale**. Narrow mafic breccia at 1601.5-1601.9m interval. Minor regular, planar, quartz carbonate veins. Trace fine grained pyrite as blebs. **EOH**.