



DIAMOND DRILL LOG

Hole No QR 43 Page No 1.

Feature : Bedding Shearing
 Foliation Fault - F
 Fragment - size & shape Vein
 c carbonate
 q quartz

Mineralization : Trace 1-5%
 Common 5-15%
 Abundant 15-60%
 Massive \geq 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	5	No Core.							
	6.0								
	2.3	DTL Deeply weathered, partly kaolinised carbonated and silicified <u>tuff-lava</u> . White to rusty orange in colour due to weathering and kaolinisation.	BRCKEN CORE						Essentially barren. Pyrite rare.
	7.95	PyP Grey sheared lithic tuff.							Py 10% as disseminations.
	8.2	DTL Kaolinised dacitic <u>tuff-lava</u> . White to rusty orange, possible fault.	CLAY						Essentially barren. Pyrite rare.
	9.3								
	10	No Core. Rig moved 60 cm to south (sideways) and re-collard.							
	14.15								
	0.5	DTL Light grey to buff coloured carbonated coarse <u>feldspar crystal lithic tuff-lava</u> .	BRCKEN CORE						Essentially barren. Pyrite rare as discrete fine euhedral crystals.
	1.5	Fragments (lighter in colour than the matrix) have irregular outlines and are commonly up to 3 - 5 cm. They appear to consist of porphyritic dacitic lava with phenocrysts of feldspar (altered to carbonate and sericite) and fine corroded quartz grains in a siliceous matrix. Often the larger fragments show flow banding.							15.7 m A small aggregate (2 cm) of euhedral arsenopyrite situated in a fracture plane.
	0.8								
	1.6								
	2.4	20 The matrix appears to be of similar composition and contains numerous altered feldspar phenocrysts.							
	1.3	20.7 - 22.5 m rusty orange stain along fractures parallel to core axis.							
	0.7	There is a weak banding at 40° to core axis.							
	3.0								
	25								

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CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		Fragmental lithic tuff as above.							Pyrite 1% - 3% as above.
	1.4								
	76.8	DTL							76.8 Pyrite rare.
	1.6	Grey-buff fine grained carbonated <u>feldspar crystal tuff-lava</u> . As 30.9 - 41.55 m above. Buff to grey lieegang colour zoning due to alteration is common.							
	1.4								
	80	MP (Logged in QR 12 as MP type). Pale green to buff carbonated and sericitised <u>lithic feldspar crystal tuff</u> . As 41.5 - 76.8 m above. Pyrite is far less common. Feldspar is more commonly pseudomorphed by sericite not carbonate.							
	1.6								
	1.4								
	85	Below 85 m towards the bottom of this unit chlorite/illite-hydromuscovite becomes significant to give the rock a green speckled appearance. Crude flow banding at 45° to core axis.							
	1.6								
	1.4								
	88.1	DTL							88.1 Pyrite <1% as disseminations, irregular vein and aggregates.
	1.6	Grey-buff fine grained carbonated <u>feldspar crystal tuff-lava</u> . As 30.9 - 41.55 and 76.8 - 80.0 m above. Flow banding 30° - 60° to core axis. Colour zoning buff to grey due to alteration as above. Fractures parallel to and up to 50° to core axis.							
	1.4								
	1.5								
	95								
	1.5								
	1.5								
	1.5								
	1.5								
	1.5								
	100	98.9 - 99.5 m Recemented fault breccia.							

BROKEN CORE

V.D. A. F.

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 q quartz

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CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	1.5	DTL as above.							Pyrite <1% as above.
	1.5	102.2						102.2	Pyrite 1%-2% as fragments and irregular veins and aggregates.
	1.5	MP Pale green-buff sericitised lithic feldspar quartz crystal tuff agglomerate. Similar to 41.55 - 76.8 and 80.0 - 88.1m as above.							
	1.5	Irregular shaped fragments appear to be lava with sericite pseudomorphing feldspar. Less common are fragments of fine grained tuff.							
	1.5	105 Sericite aggregates after feldspar, corroded grey coloured quartz grains to 2 mm and fine lithic debris comprise the matrix.							
	1.5								
	1.5	110							
	1.5	Below 110.8 m the rock is partly chrome green in colour, large vesicular lava fragments (to 10 cm) with sericite/illite-hydromuscovite filled vesicles are common.							
	1.5	112.55 PyP Sharp contact 45° to core axis.						112.55	Py 40% as disseminated bands and aggregates of fine subhedral to euhedral crystals. Rounded fragmental textures have been noted. Brown Sph 15% as bands to 10 cm and aggregates to 3 cm and Gn 8% bands and aggregates associated with the Sph and as small recrystallized veinlets. Rare Cpy.
	1.5	Massive sulphides in a grey sericitic matrix.							
	1.5	Bedding or foliation (deformation?) at 50° to core axis.							
	1.5	115							
	1.5	Below 117.2 m the matrix to fragmental and disseminated sulphides is a grey sericitised lithic tuff. Shearing and alteration has obscured the nature of the fragments.						117.2	Py 20% as above, brown Sph 3%-5% and Gn 2%-3% minor bands and disseminations but more common as aggregates up to 3 cm
	1.5	Foliation 40° to core axis.							
	1.5	120							
	1.5	121.5 - 123.5 m White quartz veins up to 10 cm wide with secondary aggregates up to 2 cm of sphalerite, galena and chalcopyrite.						121.5	Py 10% trace secondary Sph, Gn and Cpy associated with quartz veins.
	1.5								
	1.5	123.5						123.5	Py 10%, 50% where indicated as disseminated irregular veins and aggregates.
	1.5	Grey silicified and sericitised, partly sheared and disrupted lithic tuff agglomerate.							
	1.5	125							



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CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	MINERALIZATION			DEPTH m
				TRACE	COMMON	ABUNDANT	
	1.5	Lithic fragments, angular to sub-angular in shape up to 6 cm appear to be dacitic lava containing sericite aggregates representing altered feldspar crystals.					Pyrite as above.
	1.5	The matrix is grey fine grained and siliceous.					
	1.5	At 125 m 30 cm of fine grained siliceous material may represent silicified fine tuff or a sedimentary band layered at 40° to core axis.					
	1.5	130					
	1.5						
	1.5						
	134	E.O.H.				134	
	135						