

Drill core log

Well No: RK27 core #2  
 Location: Rotokawa  
 Depth: 2147-2153 mRL

Date: 26/05/2010  
 Logged by: L. Andersen  
 Scale: 1:20

m	mm					Sample No.	Structure	Lithological description	Alteration description
	0.06	0.5	2	8	32				
2147						LA.53	Epidote veins ~ 5° to core length	Hydrothermal andesite breccia. Common green to grey chlorite and epidote-rich andesite clasts in a pink matrix.	Strong pervasive alterations. Plagioclase altered to albite, calcite and epidote. Pyroxene altered to chlorite, epidote, anhydrite and leucoxene. These minerals have also replaced the groundmass, plus hematite. Vugs lined with epidote and filled with chlorite, calcite or anhydrite. Epidote veins.
						LA.54	Cavity with layered infill of epidote and quartz		
2148						LA.55	Epidote veins ~ 10° to core length	Hydrothermal andesite breccia. Common purple to grey andesite clasts in a light green matrix.	Moderate pervasive alterations. Plagioclase altered to albite with patches of epidote and calcite. Pyroxene altered to chlorite, calcite, biotite and anhydrite. These minerals have also replaced the groundmass, plus leucoxene and limonite. Vugs are filled with chlorite. Veins of epidote, chlorite and calcite. Breccia clasts are less altered than matrix.
							Cavity with layered infill of epidote and quartz		
2149								Light grey andesite lava.	Weak to subtle selective alterations. Plagioclase with patches of calcite and epidote. Pyroxene partially to fully altered to biotite and chlorite. These minerals have also altered the groundmass, plus leucoxene and limonite. Veins of calcite and quartz.
							Quartz/calcite veins along and across core length		
2150								Medium grey andesite lava.	Weak to subtle selective alterations. Plagioclase with patches of calcite and epidote. Pyroxene partially to fully altered to biotite and chlorite. These minerals have also altered the groundmass. Large veins of hematite with included primary phenocrysts and thinner chlorite veins (smileys).
							Hematite veins ~40° to core length (smileys), number increases with depth		
2151						LA.57		Dark grey andesite lava.	Subtle selective alterations. Plagioclase with patches of calcite and epidote. Augite is unaltered, hypersthene is partially altered to biotite and chlorite. These minerals have also altered the groundmass. Large veins of hematite with included primary phenocrysts and thinner chlorite veins (smileys). Quartz veins are also present.
						LA.58	Hematite veins ~40° to core length (smileys)		
2152								Dark grey andesite lava.	Subtle selective alterations. Plagioclase with patches of calcite and epidote. Augite is unaltered, hypersthene is partially altered to biotite and chlorite. These minerals have also altered the groundmass. Large veins of hematite with included primary phenocrysts and thinner chlorite veins (smileys). Quartz veins are also present.
2153									

Drill core log		Well no: RK27 core #2		Depth: 2147-2153 mRF		Location: Rotokawa		Scale: 1:20		Quartz/Cristobalite	Feldspar	Epidote	Calcite	Hematite	Anhydrite	Secondary biotite	Chlorite	Smectite	Kaolinite	Alteration zone	
m	0.06 0.5 2 8 32 mm	Structure	Lithological description																		
2147		Epidote veins ~ 5° to core length  Cavity with layered infill of epidote and quartz	Hydrothermal andesite breccia. Common green to grey chlorite and epidote-rich andesite clasts in a pink matrix.																		
		Gradational contact																			
2148		Epidote veins ~ 10° to core length  Cavity with layered infill of epidote and quartz	Hydrothermal andesite breccia. Common purple to grey andesite clasts in a light green matrix.																		
		Gradational contact																			
2149			Light grey andesite lava.																		
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2150		Quartz/calcite veins along and across core length																			
		Gradational contact																			
2151		Hematite veins ~40° to core length (smileys), number increases with depth	Medium grey andesite lava.																		
		Gradational contact																			
2152		Hematite veins ~40° to core length (smileys)	Dark grey andesite lava.																		
2153																					

Propylitic alteration zone, intensity decreases with depth

Mixed clay layer: chlorite-smectite

Mixed clay layer: chlorite-kaolinite