

DIAMOND DRILL LOG

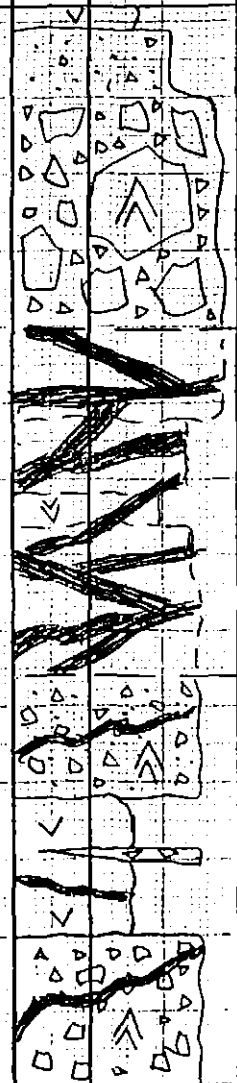
project Mount Reaa Volcanics
 Location Sterling Valley
 coords

hole no. STP 221
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754323

m	structure	log	grainsize in no of grains max mm	Samples TS results	RL	AZ	INCL	Scale 1:200
					description			
0								
10								
20								
21.7m								No core down to 21.7m
24m								↑ weak to moderate pervasive chl-epid- CO ₃ ↓ brown to cream q-oxidized CO ₃ (?ankerite) -chl + moderate q- white CO ₃ - brown CO ₃ veining
30m								
39.2m								Intense q-arspy- pyh-py veining overprints andesitic clastics and the intrusives. Q veins brecciated in places, with white matrix.
40m								↓ green q-chl chl-epid-CO ₃ altered rock with 1-5% scattered thin (≤10cm) q-pyh-arspy-py + q-fluorite pyh- arspy-py veins & some white CO ₃ veins
50								

probable
 facing
 from
 sandy
 top



5 cm

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m	structure	log	grainsize in mm	max mm	Samples TS results	RL	AZ	INCL	Scale 1:200
						description			
50									
60	mod to strong cleav. 53°								
70									
80	moderate to strong cl. 36°								
90	gb ↑								
100									

754354

2mm plagg
 leucocr. of
 mag./ilm
 ? clinite
 lithic

alternating massive to normal graded
 poly lithred andesitic mass flow
 breccia, and fg to 25% 1-2mm feld
 phyrre andesite/basalt sills/dykes

↑
 Appears to be one originally continuous
 sequence of andesitic subaqueous mass
 flows split up by numerous intrusions.

moderate dk
 green chl-epid
 alteration in
 dykes/sills;
 chl-epid-g
 in clastres.
 Scattered q-co₃;
 q-fluar-chl-py-pph-
 or spy veining

Mass flows have poorly sorted
 lower parts, matrix to clast-sup,
 with cg sandy feld-xtal-rich
 matrix; Local well sorted
 sandy granular tops with few
 scattered lithic clasts.

Most common lithics are
 15-25% 1-2mm feld-andesite
 ; 2-5% 1-2mm feld-phyrc
 amygdaloidal andesite ±
 basalt.

←
 dark green,
 15% 1-2mm
 feld-andesite/
 basalt sill/dyke

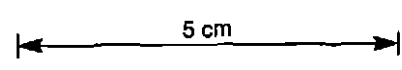
←
 dk green
 fg, microlitic
 basalt dyke/sill

←
 green, massive, 15-20% 2mm
 feld-phyric andesite ? sill

Several definite 1-2mm feld xtal-
 rich and andesite-lithic bearing
 intervals toward base of unit suggests
 mixed intrusive contact. Either that
 or the andesite is a series of very
 large blocks (>1m) within the
 andesitic volcaniclastics.

250
 pale gray
 plagg opx
 andesite

200
 pale green
 fg andesite
 with 5-10%
 1-10mm
 amygdals



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m	structure	log	grainsize	Samples TS results	RL	AZ	INCL	Scale 1:200
					description			
100	? gb ↑ class brd 72 ? gb ↑							mixed contact ↑ green, moderate chlorite alteration ↓ Thick bedded, 20-40% feld crystal, andesitic tuffaceous sandst >> siltst. Comprises feld xtals in green chl > ser-CO3g matrix. Local wavy foliated. ? pumiceous textures.
110	very broken rubble core Rock strongly foliated				107m			
120					123-5			Henty Fault: rapid change in rock type within wider zone of sheared, q-veined, broken core.
130	gb ↑							weak to moderate patchy silicification ↓ f q-chlorite alteration, & widely spaced q-py-pyh >> cpy, arspy veins up to 10cm wide.
140	gb ↓							abundant q feld ≥ q grains
150								

754055

5 cm

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m	structure	log	grainsize			Samples TTS results	RL	AZ	INCL	Scale 1:200
			min	no	max mm					
150									Logged by Rod Allen	
160	mod to strong cleav 71								date 14.11.94	
170										
180	gb ↑									
190	no distinct gb									
200	bed cleav 72									

754320

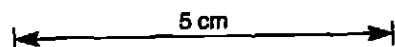
← 10% 1-3mm
 volc q xtal

grey, thick bedded, mg q-feld-
 musc sandst > dark grey siltst

local graded bedding, but
 typically grading not distinct, in
 part due to small folds, alteration &
 weathering of core.

Minor coarser bed bases with
 10% 1-3mm volc q xtal grains.

Interpretation: sandst turbidites
 deposited in deep water; Pre-
 basement ± reworked felsic volc
 source terrain.



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m	structure	log	grainsize mm	Samples TS results	RL	AZ	description	INCL	Scale 1:200
								Logged by Rod Allen date 14.11.94	
200	?	A I							
							EOH 203-25m		
210									

754327

