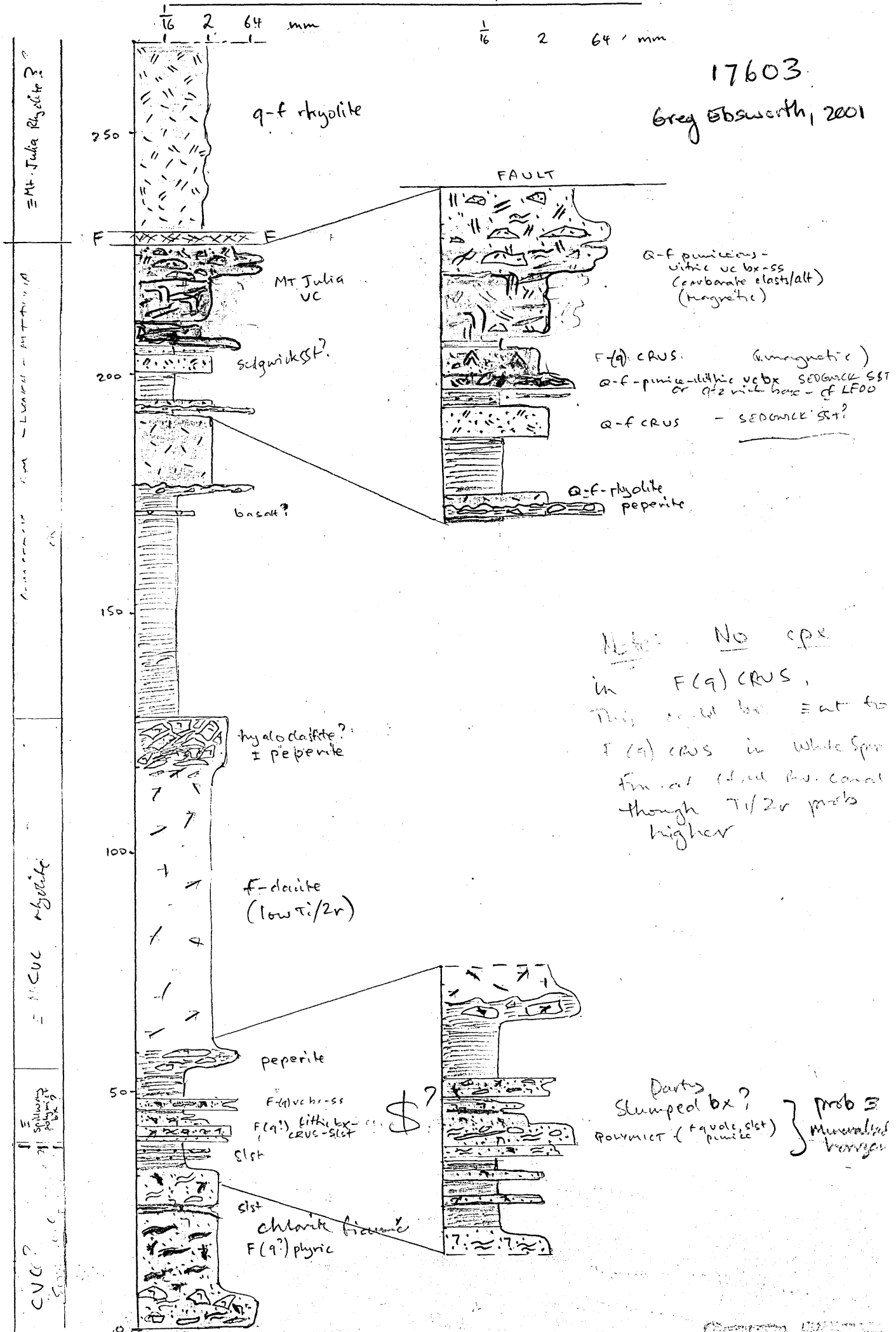


17603

Greg Ebsworth, 2001



SCALE 1:1000

SCALE 1:500

\*ESTIMATED TRUE THICKNESS

DIAMOND DRILL LOG				LOCATION: RFD HILLS			HOLE NO: RH18			
				AMG: 382403 E 5363402 N						
Mag. sus.	Structure	grainsize mm				ALT	RL:	DIP:	AZ:	Page 1 of 10
		1/16	1/8	2	8		64	Description	Logged by: GBE	Date: 15.08.01
0										
10										
20	low K0.1	Fol EB? Si? 40% CA				W-M ser- chlor	14.1m			
30						S haem in parts				
40	low K0.1	EB? Si? 50% 15% CA				W-M ser- chlor haem				
50						S ser- chlor				

TRICONE

14.1m

Weakly-mod. foliated, cream-grey to pink, q-f-phyric, coherent rhyolite lava or intrusion.

Variably porphyritic with zones of abundant phenos which are also coarser grd. overall ("")

- q gen 1-2mm, 2-4mm in parts, total ~ 5-10%

- f - mostly 1-2mm, ~ 1-5%

- v. minor ferromag (bi?), < 1%

- v.f grd qtz-fels. groundmass, var. alt to ser/chlor ± haem, sphenitic in places?

- foliation looks like flow banding in places.

~ 45.0

zone of stronger, patchy ser-chlor alt. possibly v.c bx, probably a pseudobx



DIAMOND DRILL LOG			LOCATION: RED HILLS		HOLE No: RH 18	
			AMG: E N		Page 3 of 10	
Mag. sus.	Structure	grainsize mm 1/16 1/8 1/4 1/2 1 2 4 8 16 32 64	ALT	RL: DIP: AZ:	Logged by:	Date: 16.08.01
			Description			
75						
5-20			M-S chlor + carb	RH003 76.25m	pumiceous Abt carbonate clasts / banded laminae?	
20						
10						
80						
5-30	Fol 240°/CA		S chlor + carb	RH004 81.9m	only minor q-f. phyo clasts, v.s. chlor. alt. ~ 10-20% qtz in bands (est) only	
20	thick					
15			S ab/haem		Ragged pink, 0.5-1cm ab/haem alt? bands, poss. after clasts?, pseudo bx?	
85						
					minor clasts - mainly q-f rhyolite	
					Abt carbonate clasts or laminae	
90						
					Only minor clasts - mainly rhyolite, some carbonate + mudstone(?)	
				90.5m	parallel lam. vc slst-ss + gradational	
				91.5m	RH005 91.25m	
10-30			S chlor ab? haem	RH006 92.40m	ab/haem alt bands F-CALUS	
20					Ragged, pink irreg. patches - bands of ab/haem alt (?) some poss. after clasts, pseudo bx?	
15					F-rich (50-60%), 5-10% qtz (0.5-2mm) CF COMSTOCK (LYNCH) (plus?)	
95						
				95.40m	Q-phyic pumiceous, 9(F) xtal. vc bx with common carbonate clasts? + laminae. or alt(?)	
low 0.2-0.4	nwr. FAULT?				97.55m v. sharp with sticks on fault/silts	
low	SI? 45%				98.25 Parallel lam. vc silic. slst + mudstone	
			S chlor		98.40 q-f xtal-rich vc ss - 30-40% q xtds?	
	SI? 45%/CA		S ser-chlor		99.90m Parallel lam. siliceous vc? slst + mudstone sharp, conf. contact.	
100						

~10% qtz in bands

minor qtz only

est 15-20% mudst qtz in bands

DIAMOND DRILL LOG				LOCATION: RED HILLS			HOLE NO: RH 18		
Mag. sus.	Structure	grainsize mm				ALT	RL: DIP: AZ:	Page 4 of 10	
		1/16	1/8	2	8	64	Description	Logged by:	Date: 16.08.01
100	low Weak fol ~45% CA						S sil ab? + ser- chlor	Strongly altered (silic-ab?) pink unit. Less alt. parts are q-f xtal rich v. ss or strongly porphyritic lava (20-40% xtals/phenos - mainly q?) RH010 - 104.30m Q-f = xtal v. ss ~106-107, contact obscured by alteration	~20% q 10%
105	low W-M Si? 50% CA						M ser	Parallel-laminated, siliceous v. sst-mudstone Strong ser alt cross-cuts + destroys lamination in places strong qtz veining	
110							S ser	112.10m sharp, sheared in rhyolite q-f - porphyry - see below. Pepinitic ~ 113.5m black, pyritic? mudstone 114.5m	
115	low S shearing 45-50% CA							strong quartz veining obscures LIC Strongly sheared q (f) coarsely porphyritic rhyolite porphyry q - euh, most 0.5-2mm, av. 1-2mm, minor 2-3mm phenos, total ~5% f - v. minor, euh, 0.5mm groundmass: v.f. grd, sheared phyllosilicate rich / qtz felds? v. strong quartz veining RH 008 117.90m typical rhyol. porph.	
120									
125									

ATC 105  
106 m  
5-8% silicified  
qtz  
+ felds study

DIAMOND DRILL LOG				LOCATION: RED HILLS			HOLE NO: R# 18				
				AMG: E N			Page 5 of 10				
Mag. sus.	Structure	grainsize mm				ALT	RL:	DIP:	AZ:	Logged by:	Date: 16.08.01
		1/16	1/2	2	8		64	Description			
125											
	low 45-50% CA	[Hand-drawn grain size distribution diagram with vertical lines and '+' markers]								qtz veins	As above
130											
										134.2 m sharp, possibly peperitic.	
135										qtz veined gulf, poss. with some q-f rhyo. clasts.	
	low 50% CA	[Hand-drawn grain size distribution diagram with vertical lines and '+' markers]								qtz veins	Black, parallel laminated, pyritic mudstone
140										140.7 m broken	
										Basaltic lava / intrusion? Now v. broken + oxidised.	
										140.9 m broken	
145	low 50% CA	[Hand-drawn grain size distribution diagram with vertical lines and '+' markers]								Black	As above
										148.8 m sharp, conformable	
150										Grey, parallel laminated vc? mudstone - s/sst?	

DIAMOND DRILL LOG				LOCATION: RED HILLS			HOLE NO: RH 18	
				AMG: E N			Page 6 of 10	
Mag. sus.	Structure	grainsize mm			ALT	RL:	DIP:	AZ:
		1/16	1/2	2 8 64		Description		Logged by:
150	Sd/CA					Grey, parallel lam, vc? mudstone - slet		
160						158.00 Sharp, conformable		
170						Black, parallel laminated pyritic mudstone		
180	~Sd/CA H/out							
190								
200	low Fol ~Sd/CA				M-S Ser	197.90 m Sharp. Altered, vc bx or pseudobx of F-pyritic clasts + ser-alt grey v.f clasts/ pat. nos. (mudstone?)		

DIAMOND DRILL LOG				LOCATION: RED HILLS			HOLE NO: RH 18				
				AMG: E N							
Mag. sus.	Structure	grainsize mm				ALT	RL:	DIP:	AZ:	Page 7 of 10	
		1/16	1/8	2	8		64	Description		Logged by:	Date: 16.08.01
200	W-M fz ~50% CA					M-S ser	As above - possibly peperite or hyaloclastite? ~ 204 m - definite dacite (mudstone peperite)				
210	low						~ 211.50m gradational minor clasts of alt. mudstone(?)				
220	W-M ~50% CA					M-S ser	Mainly coherent f-phyric dacite intrusion f- 1-2 mm ~ 5-10% indistinct groundmass: v.f. qtz & felds M-S ser. celt.				
	low						<div style="border: 1px solid black; display: inline-block; padding: 2px;">RH009 265.4m</div> dacite				
							DACITE				
280	W-M ~40-50% A						f - dacite				
	low						~ 286.9 gradational				
290	W-M ~40-50% CA						291.2m gradational				
	low						Black mudstone with minor grey vc slst interbeds				
300							299.5m sharp, conformable? see below				

DIAMOND DRILL LOG				LOCATION: RED HILLS			HOLE NO: R118			
				AMG: E N						
Mag. sus.	Structure	grainsize mm				ALT	RL:	DIP:	AZ:	Page 8 of 10
		1/16	1/8	2	8		64	Description		Logged by:
300	fol ~40%CA					S Ser	Strongly foliated DACITIC f(q) xtal VC BX-SS. Pseudobx: F-euh, 1-2mm, ~1-5% q, 0.5-1mm minor. Poss. minor s-round chert/mudstone? clasts, 1-2cm sharp conformable			
305	So/Si? ~60%CA					s- vs partly ser	Interbedded parallel laminated, siliceous VC SLST, AND f(q) - CRYSTAL-RICH DACITIC VCSS VCSS has ~20% 0.5-1mm euh fields, minor q? 0.5-1mm. Alt patchy, x-cuts lam. ~305m grad.			
						s- vs ser	[RH011 306.70m] Intratuff bx in part? POLYMICT DACITIC VC BX. Cherty clasts? Minor 0.5-1mm, some 2cm, carbonate clasts; alt f(q) vdc?, slst? pumice? in a vitric gradmass with 10-15% f(q) 1-2mm ~307.8m grad.			
	A?					S Ser	DACITIC f(q) xtal VC SS-BX? Possible graded laminae [RH012 -308.9m] 309.10m irregular, prob. conformable.			
310	So/Si? 60%CA					S Ser.	Parallel laminated, silic, VC SLST with minor beds/laminae of f(q) xtal-rich VCSS. The finer lithology could be ser-alt. VCSS giving finer-grad appear.			
315						M-S ser	Prob. fine grained top of DH-coarsening single depositional VC unit. 317.6 grad.			
320	fol. ~45% CA					M-S ser	POLYMICT VITRIC RHYOLITIC-DACITIC? VC SS-BX Abt., alt, 2-4mm pumice clasts, & 1-3mm shards; crystals - F-1-2mm ~5-10%, and Q - 0.5-1mm, max ~5% Minor carbonate clasts } 2-5mm / mudstone clasts } some 1-2mm			
325										

Need to sample for Qtz?

DIAMOND DRILL LOG			LOCATION: RED HILLS			HOLE NO: RH 18					
			AMG: E N								
Mag. sus.	Structure	grainsize mm					ALT	RL:	DIP:	AZ:	Page 9 of 10
		1/16	1/8	2	8	64		Description	Logged by:	Date: 17.08.01	
325											
330	low	W-M fol ~45° CA									
335	low										
340											
		W-M fol ~45° CA									
345	1-4 av 2										
350											

Parallel-laminated, finer grained  
laminated W-Mod.

PUMICEOUS, CRYSTAL VC BX-SS

Abt dark (chloritised?) fiamme-  
like (pumice?) clasts

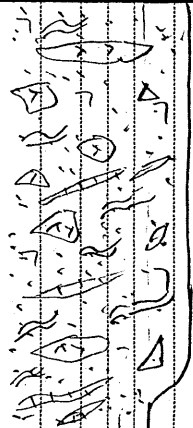
Need to look at  
this again  
esp for Qtz ob.

minor volc (fg) clasts (to 12um)

~ 343m - gradate-mud.

POLYMICT PUMICEOUS-LITHIC  
CRYSTAL VC BX.

- Abt - red, s. round - s. ang, f (q?) phynx  
to 4cm, some up to 20cm
- common - abt - s. round - round, carbonate, 0.5-4cm
- common - tagged, subang black mudstone, 1-2cm
- common, dk grey, alt volc? or pumice clasts? to 5cm
- minor, white - dark & phynx clasts - 2-4cm
- groundmass - pumice 2-m diam, ~ 10%
- xfoils, mainly f and lesser q, 1-2mm

DIAMOND DRILL LOG				LOCATION: RED HILLS			HOLE NO: RH 18				
				AMG: E N							
Mag. sus.	Structure	grainsize mm				RL:	DIP:	AZ:	Page 10 of 10		
		1/16	1/8	1/4	1/2	8	64	ALT	Description	Logged by:	Date:
350	2-10 qu 3								AS ABOVE		
355									<p>[RH 013 352.0m] typical polynict br. tr. qtz. xtls</p> <p>[RH 014 353.7] obt carbonate (alt?) laminae? magnetic or qtz xtls</p> <p>slightly finer grnd at base, with obt carbonate clasts/laminae, 0.5-1cm</p> <p>356.8m</p>		
									<p>E.O.H.</p> <p><u>SUMMARY</u></p> <p>0-61.5 q-f rhyolite (nt Julia?)</p> <p>61.5-65.2 major fault?</p> <p>65.2-97.53 Polynict vitric-xtal-lithic lithic vc. bx-ss (Lynchford?) or 2/25?</p> <p>97.53-99.90 Parallel lam slst-mudstone</p> <p>99.90-104.5 f-q-xtal-rich vc ss</p> <p>104.5-112.10 parallel lam silic vc slst- mud.</p> <p>112.10-134.2 q(f) rhyolite, perphyry intrusions (minor mudstone)</p> <p>134.2-140.7 Black py. mudstone</p> <p>140.7-140.9 basalt dyke (?)</p> <p>140.9-197.9 Black py. mudstone</p> <p>197.9-286.9 F-diacite intrusion</p> <p>286.9-299.5 Black mudstone</p> <p>299.5-309.5 Polynict clastic vc bx-xtal-rich ss</p> <p>309.5-356.8 Diatic-rhyolitic pumiceous graded vc breccia- ss mass flow deposit with silic. laminated, fg top carb. alt(?) clasts</p>		