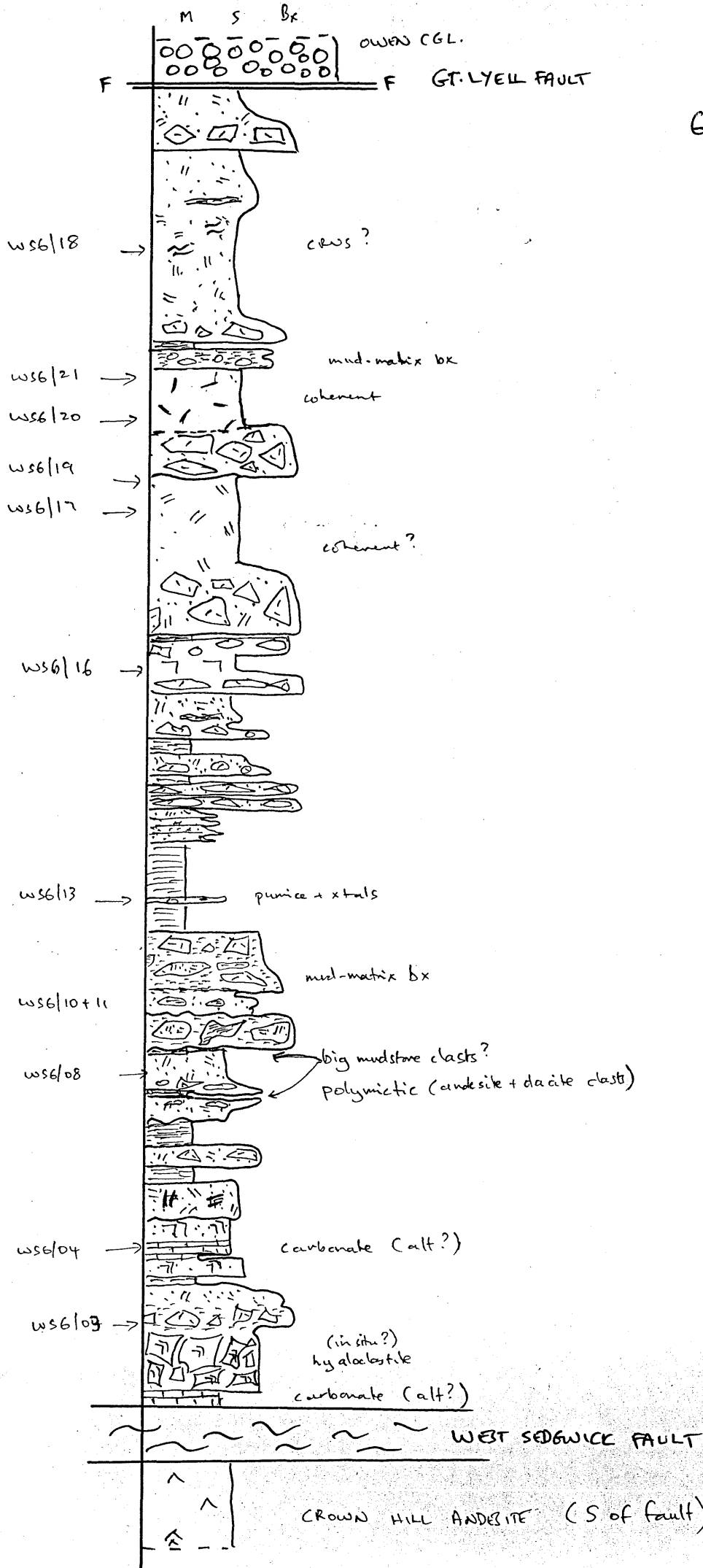


16146

Greg Ebsworth, 2002



\* TS

DIAMOND DRILL LOG				LOCATION: WEST SEDGWICK		HOLE No: WS006		
				AMG: 381396 E 5346900 N				
Mag. sus.	Structure	grainsize mm				ALT	RL: DIP: AZ:	Page 1 of 9
		1/16	1/8	2	8		64	Description
							Glacial Till (aren cgl)	
							9.00	
							12.00	No core
							16.70	clay. Sharp
							26.30	Orange brown Sandy clay, part. after weathered andesite
							37-80	Grey brown strongly weathered ferromag-phynic ash - bx? andesite
							46.20	Green grey plagioclase-hornblende-phynic andesite 1-2% anh hbl? phen, 2-3mm, up to 10mm, 2-3% 0.5-1mm anh. plag phenos.
							45.20	Limonite joints to 43.50m then fresh 45.20m sharp
							46.20	FAULT - broken core & pug near contacts
							46.20	Green grey plagioclase-hornblende-phynic andesite More strongly porphyritic (plag >> hbl?) as shown - with 5-10% plag.

0  
10  
20  
30  
40  
50

Mod-high  
500-2000  
low  
Mod-high

Mod-strong fol  
30-40 CA  
Mod-strong fol  
20-40 CA  
Mod fol  
30-40 CA

↑  
↑  
↑  
↑  
↑  
↑  
↑  
↑

X  
X  
X  
X  
X  
X  
X  
X

Mod chlor mod ser  
42-30  
Patched type ab/h

patchy ab/h

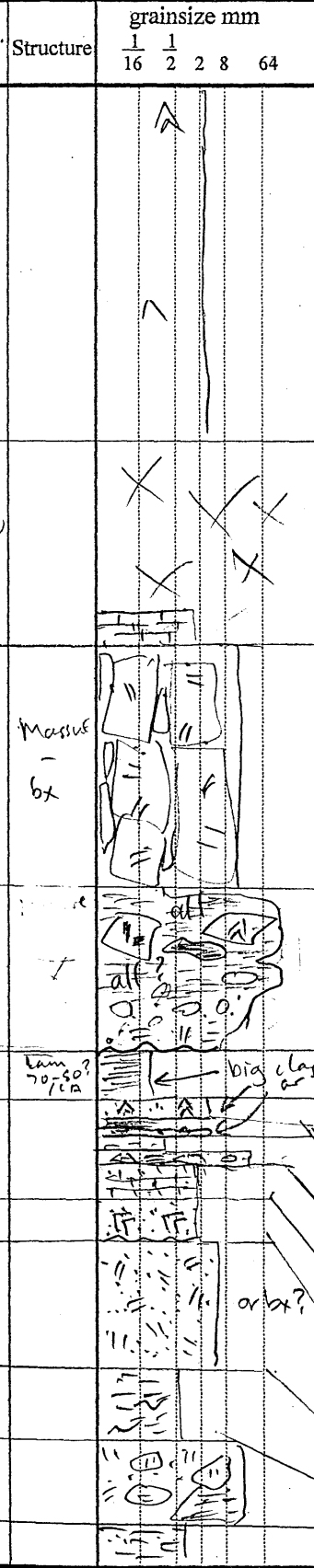
DIAMOND DRILL LOG				LOCATION: WEST SEDGWICK			HOLE NO: WS006	
				AMG: E N				
Mag. sus.	Structure	grainsize mm				ALT	RL: DIP: AZ:	Page 2 of 4
		1/16	1/8	2	8		64	Description
50						52.5	52	Green pleg-hbl? phytic andesite as prev.
						56	52.5-56.1 m - strong qtz-carb-chlor veins - low CA.	
						59	much of the unit has only minor, small hbl? phenos - some ablh alt parts have obvious hbl.	
60	Mod-st flt but ~30/ct					61	*More pleg-phyic parts assoc. = ablh → chlor alt has destroyed phenos → aphyic appearance	
						66.6	66.6-70.40 - broken core. Patchy ablh alt → pseudobx appearance.	
	All high - v. high					67.8		
						68.2		
	most 1000-2000					74		
						76.25	76.25-76.30 - puggy fault	
						76.30	Core broken 80.2-82.80 m.	
80							~83.0 grad.	
							Andesite volcaniclastic bx? - S sel-ablh alt of p-hbl-phyic clasts? in a chlor alt p-hbl xtal? rich matrix. Not entirely convincing	
							WS6/01 87.5m typical bx. clasts up to 100um, most 20-30um.	
							This could be an in situ hyalobasite with the xtal rich comp just strongly p-porphritic glassy andesite	
							Mainly matrix supported.	
90	high - v. high	Mod flt. 30-50 /CA					At ~93-93.5m wispy silic. slst? elasts? ⇒ partly intrusive hyalo?	
							Core very broken 94-96.30m - fault?	
100								



DIAMOND DRILL LOG				LOCATION: WEST SEDGWICK			HOLE NO: W 5006			
				AMG: E N						
Mag. sus.	Structure	grainsize mm				ALT	RL:	DIP:	AZ:	Page 4 of 4
		1/16	1/2	2	8		64	Description		Logged by: GBE
150	VS fol. 50-60/ CA	↑				M-S chlor				broken core with lots of small puggy faults, in and site as far as - most not obviously prophyritic
160	174 fault 176	↑				165 Ser P <sub>2</sub>				174-176 - fault = pug
170	Mud 200- 500	↑				M-S Ser/ (chlor)				178.3 Grey green var plag (ferromag?) phyric andesite. Gen. quite alt and sheared, cut by numerous puggy faults. Core mostly broken. Parts are strongly plag-phyric (less altered?) reg. at ~ 201 m.
180		↑								Poss. more chloritic => Lower Contact
190		↑								
200		↑				M-S Ser chlor				

DIAMOND DRILL LOG			LOCATION: WEST SEDGWICK			HOLE NO: WS006				
			AMG: E N							
Mag. sus.	Structure	grainsize mm				ALT	RL:	DIP:	AZ:	Page 5 of 9
		1/16	1/8	2	8		64	Description	Logged by: GBE	Date: 5/2/02
200										
	low									and suite as form
210										212.0 sharp
	low									FAULT Mostly rubble carbonate veined felsic volc. block recorded in mig. log.
										218.30 - 219.60 - gray massive carbonate. wsf.
220										219.6 sharp
	massive - bx					mod silic. w. ser.				Sheared, fractured/aligned. Clast supported q(f)-phyric volcaniclastic bx. difficult to say if isitic or vesic. minor siderite veinlets
										WS6/02 226.74 clasts ~ 2-3cm. Less alt parts appear to be xtal rich. 226.7m Sharp. v. unreg.
230						ser/ carb line ↓				Pseudo-bx due to stray ser/carb alt. of of f-q felsic volc (VC bx?)
										*WS6/03 232.35 - bx
										Max clasts ~ 12cm, most 1-2cm. Parts of alt part more f-q rich than clasts
										- very broken at top + mainly mudstone
										- fines downhole base mainly f+q pheng
										232.50 sharp unreg.
										grey-black mudstone. waxy lam
240										234.2 - 235.30 - f-CRUS with very conch. contacts to mudstone + some mudstone in interval → coarse BR
										Grey silic. slst - ferris sed. bx & mudstone
										236.5m + f-CRUS in lowest 0.5m
										237.8 Carbonate - massive possibly after f-CRUS
										239.0 v.f. qrd f-CRUS (??) - presence of pro. or ucs slst + black flecks
										WS6/05 238.2
										Q-f-VC - Possibly a CRUS - alt to pseudo bx or complex bx - slst etc - maybe even coh f+q WS6/06 243.15 Q - 2.5m f+2
										245.85 Grey fine VC slst - prob vitric
250										Complex bx of VC clst and q-f-CRUS
										poss. with clasts of f-q-coh. volc.
										248.3 Very hard rock WS6/07 247.3
										See below

200  
210  
220  
230  
240  
250



RL: DIP: AZ: Page 5 of 9

Description

Logged by: GBE

Date: 5/2/02

and suite as form

212.0 sharp

FAULT Mostly rubble carbonate veined felsic volc. block recorded in mig. log.

218.30 - 219.60 - gray massive carbonate. wsf.

219.6 sharp

Sheared, fractured/aligned. Clast supported q(f)-phyric volcaniclastic bx. difficult to say if isitic or vesic. minor siderite veinlets

WS6/02 226.74 clasts ~ 2-3cm. Less alt parts appear to be xtal rich. 226.7m Sharp. v. unreg.

Pseudo-bx due to stray ser/carb alt. of of f-q felsic volc (VC bx?)

\*WS6/03 232.35 - bx

Max clasts ~ 12cm, most 1-2cm. Parts of alt part more f-q rich than clasts

- very broken at top + mainly mudstone

- fines downhole base mainly f+q pheng

232.50 sharp unreg.

grey-black mudstone. waxy lam

234.2 - 235.30 - f-CRUS with very conch. contacts to mudstone + some mudstone in interval → coarse BR

Grey silic. slst - ferris sed. bx & mudstone

236.5m + f-CRUS in lowest 0.5m

237.8 Carbonate - massive possibly after f-CRUS

239.0 v.f. qrd f-CRUS (??) - presence of pro. or ucs slst + black flecks

WS6/05 238.2

Q-f-VC - Possibly a CRUS - alt to pseudo bx or complex bx - slst etc - maybe even coh f+q WS6/06 243.15 Q - 2.5m f+2

245.85 Grey fine VC slst - prob vitric

Complex bx of VC clst and q-f-CRUS

poss. with clasts of f-q-coh. volc.

248.3 Very hard rock WS6/07 247.3

See below

Sample

+

Pur.

Ken

Summer

v.f. ucs or slst

NB: CHANGE SCALE

DIAMOND DRILL LOG			LOCATION: WEST SEDGWICK			HOLE NO: WS006		
			AMG: E N			Page 6 of 9		
Mag. sus.	Structure	grainsize mm 1/16 1/8 2 8 64	ALT	RL:	DIP:	AZ:	Logged by: GBE	Date: 5/2/02
250								
	Massive							
	low							
	low							
255	low							
260								
265								
270								
275								

251.10 sharp, irregular, etched on stst  
 Pink-grey, f-q-CRVS. v. poorly sorted, blk alt  
 vlc. 60-70% 0.5-2.5mm subang. felds - some blk alt  
 30-40% 0.5-2.0mm subang. qtz xstls  
 minor ragged chert. blebs - after pumice?  
 253.00 v. irreg. bx. minor stst clasts to 5cm  
 Grey, vitric? vlc stst - irreg. contents etc. => could  
 253.80 v. irreg. bx. be large clast in vcss.  
 minor stst clasts to 5cm

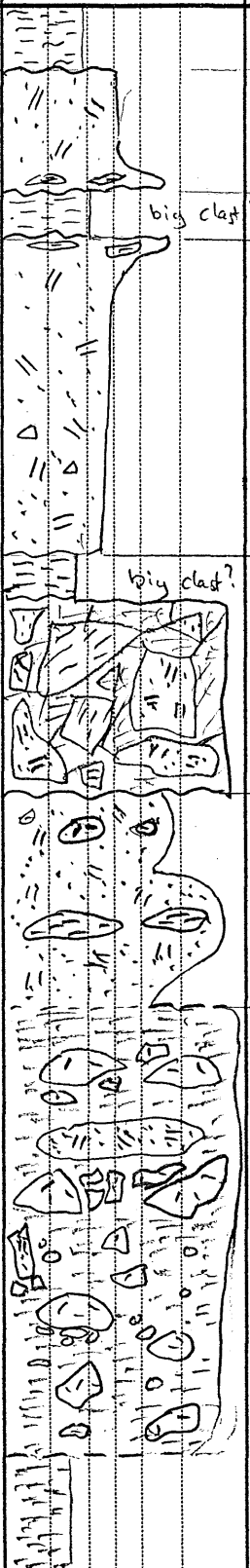
q-f CRVS as prev, fines downhole,  
 bare cherty lithics

# WS6108 251.70m q-f CRVS  
 v. poorly sorted, blk alt, q-f CRVS  
 same pumice + stst clasts, 10-20%  
 alt matrix

258.80 irreg. sharp  
 Black mudstone for 70cm, then  
 coarse bx of black massive + lam mudstone,  
 f-m grad f-q-CRVS. Lots of wispy  
 mudstone clast through CRVS =>  
 primary sedimentary interformational  
 bx. # WS6109 260.25m  
 262.85m grad. v. irreg. blk alt  
 grad. diff. contact to coarse grad,  
 f-q-CRVS. Fines downhole. Minor  
 f-q-felic. volc. lithics (0.5-2cm), several  
 large (10's cm) mudstone clasts (or  
 11B's) near base # WS6110 263.15m coarse  
 266.0m grad # WS6111 264.80m coarse  
 CRVS

Mud-matrix breccia with var.  
 alt. f-q-phyric volc clast with  
 near jigsaw fit textures. Part minor  
 f-q-CRVS clasts. Peperite of rhyolite in  
 mudstone / CRVS? # WS6112 267.85m  
 mud matrix bx.  
 peperite?  
 some CRVS?

273.1m grad.  
 Black, parallel-lam mudstone



DIAMOND DRILL LOG				LOCATION: WEST SEDGWICK			HOLE NO:		
				AMG: E N					
Mag. sus.	Structure	grainsize mm				RL:	DIP:	AZ:	Page 7 of 9
		1/16	1/2	2	8	64	ALT	Description	Logged by: GBE
275									black mudstone 276.09-276.24, interbed of q-xtal-lithic-vitric? vc slst, & pumices, <u>WS613 276.15m</u> oc slst.
	low								black mudstone
									282.90m sharp
	low	50/49/CA ↓ 50/48/CA							v.f. grad slst for 1cm then normally graded, v.f. grad q(f)-lithic CRUS → grey v.f. vc vitric slst for 0.5m → at lam. slst. + dk grey-blk mudstone <u>WS614 283.01</u>
285	low	normally graded units ↓							284.40 Blue-grey q(f) xtal-vitric vc ss. Two massive units with thin mudstone tops 285.66 sharp 30cm normally graded q(f)-mf gtd CRUS then 50cm mudstone, the 25cm med. q(f) CRUS → sharp base of grad → grading to f. grad q(f) CRUS then 20cm mudstone 287.22 sharp, eroded
	low								Coarse bx of 0.5-1.5cm poorly sorted, round-angled q-f rhyolite and q(f) CRUS clasts, in a q(f)-vitric CRUS - mud matrix. Much larger (10's cm) mudstone clasts (or 10's?) rhyolite clasts partly look like hyaloclastite → peperite? in part. 289.30 <u>WS615 287.70m</u>
290	low								massive black mudstone 290.26
	low								Normally graded unit of q(f) rhyolite, clast-supported bx (0.2-5cm) in q(f) CRUS matrix - grades downhole to q(f) CRUS 292.5
	low								Black mudstone 293.7
295	low								q(f) v.f. xtal-vitric vc slst 2-3cm q-f-rhyolite clasts at top then just vc slst with minor 1-3cm mudstone clasts at
	low	q(mst) 1/3-2mm ft							299.0 gradational. Near jig-saw fit bx of 0.5-5cm q(f) cobble clasts in f(q) CRUS matrix?
300									

Small mass flows of ss in h.f.

NOTE: CHANGE OF SCALE

DIAMOND DRILL LOG			LOCATION: WEST SEDGWICK			HOLE NO: WS 006	
			AMG: E N			Page 8 of 9	
Mag. sus.	Structure	grainsize mm 1/16 1/8 1/4 1/2 1 2 4 8 16 32 64	ALT	RL: DIP: AZ:	Description	Logged by: GBE	Date: 6/2/02
300	low Coh? Feldspar 1.5-2mm Kfs				clasts strongly rel. to dacite F(q) strongly br as prev at 304-305.5 - xtal with matrix 306.0m black mudstone		Hyalo clastite
310	low massive		vs abth chlor		Strongly altered f-q crws with coarse (2-15cm) polyinctic, subang basal bx of q-f rhyolite + mudstone clasts totalling 10-20% to 313m, then massive F-Q-CRWS which fines downhole & inc. vitric (now chloritic) component esp in lower 10.5m		vesed hyalo
320	low massive		crws?		WSG/17 313.40 F-Q-VECS 70-20% at 2 ~ 324.00 - poss base of next unit obsured by alteration		
330	low massive		crws? Coh lobes an hyalo		Coarse bx of q-f rhyolite clasts - autobx? crws WSG/19 324.85 looks like mt. q. crws - hard multiphase & wsg/17 + 20 + 1 to 30-40 qz + 30-40 feld x		
335	low massive		335 vs silic		WSG/20 328.10 - peritic, com q-f volc on glassy WSG/21 339.95 - spherulitic peritic com, strongly felds - qz 30-40% 10 202 more vitric?		
340	low brstm fol lola				339.70m Mud-matrix VC bx - 340.15m then fq crws with minor lithics -> base 342.0m		pepink:
350	low		vs sem chlor + abth chlor		342.90 black pyritic mudstone F-Q crws - possibly originally high vitric component. Minor lithics as shown. WSG/18 349.70m typical F-Q crws (20-40% Q) 30-50% alt felds poppy cut 5-10% chlor matrix		

