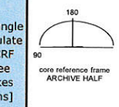
Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)				x-cutting	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp to	curved	x-cutting	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		relationship											
						gradational		relationship															composition											
						sharp	irregular	rock types	grain size &		irregular			linear	moderate	2	s	mineral name	melt	gradational	curved													
									modal										percolation															
																			vein															
						gradational					anastomosing			anastomosing	strong	3	d	mineral shape		discordant	irregular													
											weak						ns	mineral aspect ratio		concordant														
											strong						nd	vesicle distribution																
																	rs	vesicle flattening																
																	rd	vesicle alignment																

Structures

Sample	Top	Bottom	Top depth	Bottom depth	Piece number (comment)	Structural domain	Microstructure	Grain boundary	Magmatic fabric intensity	Degree of static recrystallization	Sub-magmatic fractures	Magmatic twinning	Spinel lineation intensity	Serpentine Foliation	CPF undulose extinction	CPF subgrain boundaries	CPF twinning	CPF dynamic recrystallization	CPF fabric intensity	CPF fabric sense of shear	Cataclasite clast/matrix ratio (%)	Cataclasite clast size (mm)	Cataclastic fabric intensity	Comments
						structural domain 1			moderate										porphyroclastic	n	15	35	mod fx, no gsr	
							microstructures	grain boundaries	magmatic intensity		abundance magmatic fractures	abundance twinning			cfp sub intensity	geometry grain boundary	abundance twinning	intensity recryst	intensity crystal plastic	displacement sense			intensity cataclastic	[text]
							magmatic	straight	isotropic	complete	absent	absent	isotropic		absent	straight	absent	absent	absent	n			undeformed	
							submagmatic	curved	weak	partial	rare	rare	weak	weak	weak	curved	rare	weak	weakly foliated/lineated	r			minor fracturing without GSR	
							crystal-plastic	serrate	moderate	strong	common	common	moderate	moderate	moderate	serrate	common	strong	strongly foliated/lineated	s			moderate fracturing without GSR	
							cataclastic	polygonal	strong	weak			strong	strong	strong	polygonal		complete	porphyroclastic-protomylonitic	d			dense fracturing with incipient GSR	
							metamorphic	complex		absent					complete				mylonitic				well developed GSR with clast rotation	
								varied							subgrains patchy				ultramylonitic				cataclastic	
1415J18R-		70	40	42	7		M		weak	absent	absent	rare	NA	NA	undulose		absent							
1415J13R-1		71	67	69	9		M		weak															
1415J18R-1		72	141	143	17b		M		mod.	absent	absent				undulose									
															subgrains & ol									
1415J19R-1		73	19	19	(3)		M																	
1415J19R-		74	64	67	(10)																			

Jan. 14, 2013

TS

(piece)

Structures

Sample	Top	Bottom	Top depth	Bottom depth	Piece number (comment)	Structural domain	Microstructure	Grain boundary	Magmatic fabric intensity	Degree of static recrystallization	Sub-magmatic fractures	Magmatic twinning	Spinel lineation intensity	Serpentine Foliation	CPF undulose extinction	CPF subgrain boundaries	CPF twinning	CPF dynamic recrystallization	CPF fabric intensity	CPF fabric sense of shear	Cataclasite clast/matrix ratio (%)	Cataclasite clast size (mm)	Cataclastic fabric intensity	Comments
						structural domain 1			moderate										porphyroclastic	n	15	35	mod fx, no gsr	
							microstructures	grain boundaries	magmatic intensity		abundance magmatic fractures	abundance twinning			cfp sub intensity	geometry grain boundary	abundance twinning	intensity recryst	intensity crystal plastic	displacement sense			intensity cataclastic	[text]
							magmatic	straight	isotropic	complete	absent	absent	isotropic		absent	straight	absent	absent	absent	n			undeformed	
							submagmatic	curved	weak	partial	rare	rare	weak	weak	weak	curved	rare	weak	weakly foliated/lineated	r			minor fracturing without GSR	
							crystal-plastic	serrate	moderate	strong	common	common	moderate	moderate	moderate	serrate	common	strong	strongly foliated/lineated	s			moderate fracturing without GSR	
							cataclastic	polygonal	strong	weak			strong	strong	strong	polygonal		complete	porphyroclastic-protomylonitic	d			dense fracturing with incipient GSR	
							metamorphic	complex		absent					complete				mylonitic				well developed GSR with clast rotation	
								varied							subgrains				ultramylonitic				cataclastic	
Jan. 9, 2013															patchy									
ts#~~5~~/7 U1415J8R1		73	76	13	piece 115		M	varied	isotropic	absent	absent	common	NA	NA										
Jan. 10, 2013																								
1415J8R-1		31	37	7	46		M	annealed ~~mod.~~	mod.	absent	absent	common	NA	NA										
							contact																	
1415J8R-3		35	38	6	54		~~M~~	curved	strong	absent	absent													
								less annealed							moderate - common - pig.									
1415J8R3		112	115	12	56		M	serrate	mod.	absent	absent	Cum	NA	NA	~~weak~~	serrate								
1415J8R3		129	132	14a	57		Cata		isotropic						mod		common						dun 4/ GSR	
1415J8R1		44	47	7	60		cataclastic													1/4			cataclastic	
1415J12R-1					#61		cataclastic																	
1415J12R-1		86	89		#62		cataclastic																	
1415J8R-1		26	29	4b	65		cataclastic						NA	NA	stray	curved	common	absent						
* 1415J12R-1		94	96	13	#63			patches of annealed																
1415J12-1		112	115	15	64		cataclastic																	
1415J8R-1		37	41		6		M	annealed	moderate	absent	absent	~~cm~~	NA	stray										
1415J8R1		53	56	#7	67		M	annealed	moderate	absent	absent	common	NA	NA										
* 1415J8R1		~~53~~	~~56~~	~~#7~~	~~67~~		~~cataclastic~~																	
1415J14G		0	4	1	68		~~A~~ chlorite																	
1415J15G		46	49		69		M	annealed	mod. ~~strong~~	absent	absent													
*		46	49		69		C																	

Structures

Sample	Top	Bottom	Top depth	Bottom depth	Piece number (comment)	Structural domain	Microstructure	Grain boundary	Magmatic fabric intensity	Degree of static recrystallization	Sub-magmatic fractures	Magmatic twinning	Spinel lineation intensity	Serpentine Foliation	CPF undulose extinction	CPF subgrain boundaries	CPF twinning	CPF dynamic recrystallization	CPF fabric intensity	CPF fabric sense of shear	Cataclasite clast/matrix ratio (%)	Cataclasite clast size (mm)	Cataclastic fabric intensity	Comments
						structural domain 1			moderate										porphyroclastic	n	15	35	mod fx, no gsr	
							microstructures	grain boundaries	magmatic intensity		abundance magmatic fractures	abundance twinning			cfp sub intensity	geometry grain boundary	abundance twinning	intensity recryst	intensity crystal plastic	displacement sense			intensity cataclastic	[text]
							magmatic submagmatic crystal-plastic cataclastic metamorphic	straight curved serrate polygonal complex varied	isotropic weak moderate strong	complete partial strong weak absent	absent rare common	absent rare common	isotropic weak moderate strong	weak moderate strong	absent weak moderate strong complete subgrains patchy	straight curved serrate polygonal	absent rare common	absent weak strong complete	absent weakly foliated/lineated strongly foliated/lineated porphyroclastic-protomylonitic mylonitic ultramylonitic	n r s d			undeformed minor fracturing without GSR moderate fracturing without GSR dense fracturing with incipient GSR well developed GSR with clast rotation cataclastic	
#1	K15E1R-1			21	23	3		M+S	curved	weak	absent	absent	rare	NA	NA	absent	—	—	—	Absent					
#2	1415E1R-1			30	33	4		—	—	—	—	—	—	—	weak	absent								serp w/ol aly
#3	1415E1R-1			41	43	5		M+S	irregular (serrate)	weak ~~moderate~~	absent	rare? (plg but ...	Common	NA	NA	weak	curved/kinked (plane of foliation)	rare	absent	absent				undefined.	
#4	1415E2R-1			0	3	1		—		isotropic	absent		?	NA	NA	weak	irregular	rare						minor fract w/o GSR	
#5	1415G1R1			21	26	5		(M)	curved	moderate (plg)	absent	absent	absent	NA	NA	v. weak (zoned plg)	absent	absent	absent	absent	0			(annealed plg grain bdys)	
#6	1415G1R1			10	16	3	(lay TS)	M	annealed	strong	absent	absent	absent	NA	NA	absent (zoned)	absent	absent	absent	absent	0			undefined. 0	
#7	1415H1R1			0	4	1		Cataclastic	annealed	—	—	—	—	—	—	—	—	—	—	—					
#8	1415H1R1			18	22	4		M	annealed	weak	absent	absent	rare	NA	NA	weak		rare	absent	absent	0			0	
#9	1415H1R-1			33	36	7		catac	curved	isotropic	absent	—	—	NA	NA	(patchy) near brittle	—	rare	absent	?~~subbrittle~~					
#10	1415H1R1-1			51	53	10		M	varied (irreg + curved)	weak	absent	absent	common (bent + deg. twins)	NA	NA	zoned plg	i ol (curved)	common i plg			0				
#11	1415I1R-1			1	4	1		M+C	annealed	mod.	absent	absent	rare	NA	NA	absent	straight subgrains in plg		absent	absent	0			minor fract w/ GSR ~90° to magfol.	
#12	1415I2R-1			2	4	1		M	annealed	weak	absent	absent	common (bent + deg. twins)	NA	NA	rare (cpx) + plg.	(curved)	absent	absent	absent				open fracture w/ no fill (network)	
#13	1415I2R-1			25	31	7		M/brittle	annealed	weak	absent	absent	rare	NA	NA	absent	absent	absent	absent	absent				moderate w/o GSR	
#14	1415I2R-1			51	53	11		M	annealed	weak	absent	absent	rare	NA	NA	absent	absent	absent	absent	absent				fractures at prehnite veins	
#18	1415I3R-4			16	19	2		NA	annealed	isotropic	absent	absent	rare	NA	NA	weak	opx	rare	absent	weak					
#19	1415I4R-2			9	13	2		M	annealed	moderate	absent	absent	common	NA	NA	weak	straight	rare	absent	absent					
#20	1415I4R2			15	17	3		M	annealed	moderate	absent		rare	NA	NA	(subgrains of ol) plg + body		semi-brittle	absent	absent				chrsp	

add MTS

add irregular

add

add (irregular)

ts #1

add MTS

cpx + plg
localized - moderate

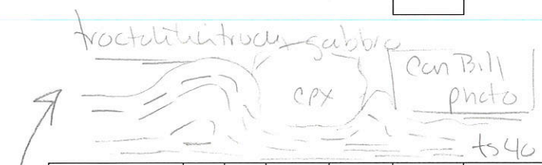
ol w/ exsolved by cpx

common i localized zones

Structures

Sample	Top	Bottom	Top depth	Bottom depth	Piece number (comment)	Structural domain	Microstructure	Grain boundary	Magmatic fabric intensity	Degree of static recrystallization	Sub-magmatic fractures	Magmatic twinning	Spinel lineation intensity	Serpentine Foliation	CPF undulose extinction	CPF subgrain boundaries	CPF twinning	CPF dynamic recrystallization	CPF fabric intensity	CPF fabric sense of shear	Cataclasite clast/matrix ratio (%)	Cataclasite clast size (mm)	Cataclastic fabric intensity	Comments
						structural domain 1			moderate										porphyroclastic	n	15	35	mod fx, no gsr	
							microstructures	grain boundaries	magmatic intensity		abundance magmatic fractures	abundance twinning			cfp sub intensity	geometry grain boundary	abundance twinning	intensity recryst	intensity crystal plastic	displacement sense			intensity cataclastic	[text]
							magmatic	straight	isotropic	complete	absent	absent	isotropic		absent	straight	absent	absent	absent	n			undeformed	
							submagmatic	curved	weak	partial	rare	rare	weak	weak	weak	curved	rare	weak	weakly foliated/lineated	r			minor fracturing without GSR	
							crystal-plastic	serrate	moderate	strong	common	common	moderate	moderate	moderate	serrate	common	strong	strongly foliated/lineated	s			moderate fracturing without GSR	
							cataclastic	polygonal	strong	weak			strong	strong	strong	polygonal		complete	porphyroclastic-protomylonitic	d			dense fracturing with incipient GSR	
							~~metamorphic~~	complex		absent					complete				mylonitic				well developed GSR with clast rotation	
								varied							subgrains				ultramylonitic				cataclastic	
															patchy									
14ISI4R-1			35	38	6	ts21	M	annealed	stray	absent	absent	common	NA	NA	weak	straight	absent	absent	absent				minor fract.	
14ISI4R-1			48	50	8a	ts22	M	annealed	mod	absent	absent		NA	NA	inplag		absent	absent	absent				w/ vein fill minor fract w/o GSR	
14ISI4R-1			136	139	12	ts23	M	annealed	isotropic	absent	absent	common	NA	NA	moderate	curved	absent	absent	absent				minor w/o GSR	
															in plag	in plag								
14ISI56-1 (2)			12	14	(3)	ts24	M	annealed	isotropic	absent	absent	rare	NA	NA	weak in ol									
															weak in plag	straight								
			12	14	3	ts24	C													0		4	cc + prehnite + clay	
																							prehnite alt pot cracking	
							~~M~~		~~isotropic~~														2 mm clay aureole at stable	
14ISJ26-1				0	13	ts25	M		isotropic	absent	absent				plag — weak undulose ext. (patchy)								diabase dike(?)/basalt	
															xenocryst set plag w/ defm. twins									
14ISJ26-1				0	13	ts26	M		isotropic	glomerocryst plag (radiating clusters)					undulose								composite dike	
																							of mt rich diabase into	
14ISJ3R-1				11	13	ts29	M	annealed	weak	absent	absent	rare	—	—	absent	curved					20		diabase	
																							irregular contact	
14ISJ3R-1				22	24	ts 30	M	annealed	stray	—	—	common	plag (cpx)		absent						(20)		< 1 mm zone of TB = cl defm.	
																							associated w/ veining	
14ISJ3R-1				45	48	ts 31	M	annealed	weak	absent	absent	rare	NA	NA	weak	NA							opx fractures fr ol	
14ISJ3R-1				73	75	ts 32	M	annealed	stray	absent	absent	common	—	—	weak	(*) plag — polysynthetic subgrains of plag in cpx								
14ISJ3R-1				79	82	ts 33	M	less annealed	moderate	absent	absent	common	NA	NA					Jan. 7 2013					
14ISJ4R-1								(transitional)																
				2	5	ts 34		annealed	moderate	absent	absent	common	NA	NA	weak									
14ISJ5R-1				62	64	ts 36	M	annealed	moderate	absent	absent	common	NA	NA	weak	curved	NA							
14ISJ5R-1				117	121	ts 37	M	annealed	stray	absent	absent	common	NA	NA										
14ISJ5R-1				138	141	ts 38	M	"	"	"	"	"			weak									
14ISJ5R-2				60	63	ts 39	M	annealed	mod.	absent	absent					curved in cpx								

Structures



Sample	Top	Bottom	Top depth	Bottom depth	Piece number (comment)	Structural domain	Microstructure	Grain boundary	Magmatic fabric intensity	Degree of static recrystallization	Sub-magmatic fractures	Magmatic twinning	Spinel lineation intensity	Serpentine Foliation	CPF undulose extinction	CPF subgrain boundaries	CPF twinning	CPF dynamic recrystallization	CPF fabric intensity	CPF fabric sense of shear	Cataclasite clast/matrix ratio (%)	Cataclasite clast size (mm)	Cataclastic fabric intensity	Comments
						structural domain 1			moderate										porphyroclastic	n	15	35	mod fx, no gsr	
							microstructures	grain boundaries	magmatic intensity		abundance magmatic fractures	abundance twinning			cfp sub intensity	geometry grain boundary	abundance twinning	intensity recryst	intensity crystal plastic	displacement sense			intensity cataclastic	[text]
							magmatic submagmatic crystal-plastic cataclastic metamorphic	straight curved serrate polygonal complex varied	isotropic weak moderate strong	complete partial strong weak absent	absent rare common	absent rare common	isotropic weak moderate strong	weak moderate strong	absent weak moderate strong complete subgrains patchy	straight curved serrate polygonal	absent rare common	absent weak strong complete	absent weakly foliated/lineated strongly foliated/lineated porphyroclastic-protomylonitic mylonitic ultramylonitic	n r s d			undeformed minor fracturing without GSR moderate fracturing without GSR dense fracturing with incipient GSR well developed GSR with clast rotation cataclastic	
U1415J76-1		28	31	(long)	5	40	M	annealed	strong	absent	absent	common	NA	NA										
U1415J76-1		35	38		ts41		M	"	mod	absent	absent	rare	NA	NA	weak									
U1415J76-1		91	94		ts42	14	M	annealed	strong	absent	absent	common	NA	NA	weak									
							contact	ol gabbro																
								gabbro	mod	absent	absent	com	NA	NA	mod									
U1415J76-1		84	87		TS43	13	M	annealed	isotropic	absent	absent	rare	NA	NA	weak plag									
							(hypidiomorphic granular) ol, hyp + large grains								" cpx									
U1415J46-1		112	114		TS44	10	M	annealed	strong to weak	absent	absent				weak plag weak hyp									
U1415J76-1		55	56		TS45	8	M	annealed	strong	absent	absent	common												
U1415J56-1		[illegible]	[illegible]		TS35	11b	M		weak	absent	absent													

Structures

Sample	Top	Bottom	Top depth	Bottom depth	Piece number (comment)	Structural domain	Microstructure	Grain boundary	Magmatic fabric intensity	Degree of static recrystallization	Sub-magmatic fractures	Magmatic twinning	Spinel lineation intensity	Serpentine Foliation	CPF undulose extinction	CPF subgrain boundaries	CPF twinning	CPF dynamic recrystallization	CPF fabric intensity	CPF fabric sense of shear	Cataclasite clast/matrix ratio (%)	Cataclasite clast size (mm)	Cataclastic fabric intensity	Comments
						structural domain 1			moderate										porphyroclastic	n	15	35	mod fx, no gsr	
							microstructures	grain boundaries	magmatic intensity		abundance magmatic fractures	abundance twinning			cfp sub intensity	geometry grain boundary	abundance twinning	intensity recryst	intensity crystal plastic	displacement sense			intensity cataclastic	[text]
							magmatic	straight	isotropic	complete	absent	absent	isotropic		absent	straight	absent	absent	absent	n			undeformed	
							submagmatic	curved	weak	partial	rare	rare	weak	weak	weak	curved	rare	weak	weakly foliated/lineated	r			minor fracturing without GSR	
							crystal-plastic	serrate	moderate	strong	common	common	moderate	moderate	moderate	serrate	common	strong	strongly foliated/lineated	s			moderate fracturing without GSR	
							cataclastic	polygonal	strong	weak			strong	strong	strong	polygonal		complete	porphyroclastic-protomylonitic	d			dense fracturing with incipient GSR	
							metamorphic	complex		absent					complete				mylonitic				well developed GSR with clast rotation	
								varied							subgrains				ultramylonitic				cataclastic	
															patchy									

Structures

Sample	Top	Bottom	Top depth	Bottom depth	Piece number (comment)	Structural domain	Microstructure	Grain boundary	Magmatic fabric intensity	Degree of static recrystallization	Sub-magmatic fractures	Magmatic twinning	Spinel lineation intensity	Serpentine Foliation	CPF undulose extinction	CPF subgrain boundaries	CPF twinning	CPF dynamic recrystallization	CPF fabric intensity	CPF fabric sense of shear	Cataclasite clast/matrix ratio (%)	Cataclasite clast size (mm)	Cataclastic fabric intensity	Comments
						structural domain 1			moderate										porphyroclastic	n	15	35	mod fx, no gsr	
							microstructures	grain boundaries	magmatic intensity		abundance magmatic fractures	abundance twinning			cfp sub intensity	geometry grain boundary	abundance twinning	intensity recryst	intensity crystal plastic	displacement sense			intensity cataclastic	[text]
							magmatic	straight	isotropic	complete	absent	absent	isotropic		absent	straight	absent	absent	absent	n			undeformed	
							submagmatic	curved	weak	partial	rare	rare	weak	weak	weak	curved	rare	weak	weakly foliated/lineated	r			minor fracturing without GSR	
							crystal-plastic	serrate	moderate	strong	common	common	moderate	moderate	moderate	serrate	common	strong	strongly foliated/lineated	s			moderate fracturing without GSR	
							cataclastic	polygonal	strong	weak			strong	strong	strong	polygonal		complete	porphyroclastic-protomylonitic	d			dense fracturing with incipient GSR	
							metamorphic	complex		absent					complete				mylonitic				well developed GSR with clast rotation	
								varied							subgrains				ultramylonitic				cataclastic	
															patchy									

Structures

Sample	Top	Bottom	Top depth	Bottom depth	Piece number (comment)	Structural domain	Microstructure	Grain boundary	Magmatic fabric intensity	Degree of static recrystallization	Sub-magmatic fractures	Magmatic twinning	Spinel lineation intensity	Serpentine Foliation	CPF undulose extinction	CPF subgrain boundaries	CPF twinning	CPF dynamic recrystallization	CPF fabric intensity	CPF fabric sense of shear	Cataclasite clast/matrix ratio (%)	Cataclasite clast size (mm)	Cataclastic fabric intensity	Comments
						structural domain 1			moderate										porphyroclastic	n	15	35	mod fx, no gsr	
							microstructures	grain boundaries	magmatic intensity		abundance magmatic fractures	abundance twinning			cfp sub intensity	geometry grain boundary	abundance twinning	intensity recryst	intensity crystal plastic	displacement sense			intensity cataclastic	[text]
							magmatic	straight	isotropic	complete	absent	absent	isotropic		absent	straight	absent	absent	absent	n			undeformed	
							submagmatic	curved	weak	partial	rare	rare	weak	weak	weak	curved	rare	weak	weakly foliated/lineated	r			minor fracturing without GSR	
							crystal-plastic	serrate	moderate	strong	common	common	moderate	moderate	moderate	serrate	common	strong	strongly foliated/lineated	s			moderate fracturing without GSR	
							cataclastic	polygonal	strong	weak			strong	strong	strong	polygonal		complete	porphyroclastic-protomylonitic	d			dense fracturing with incipient GSR	
							metamorphic	complex		absent					complete				mylonitic				well developed GSR with clast rotation	
								varied							subgrains				ultramylonitic				cataclastic	
															patchy									

Structures

Sample	Top	Bottom	Top depth	Bottom depth	Piece number (comment)	Structural domain	Microstructure	Grain boundary	Magmatic fabric intensity	Degree of static recrystallization	Sub-magmatic fractures	Magmatic twinning	Spinel lineation intensity	Serpentine Foliation	CPF undulose extinction	CPF subgrain boundaries	CPF twinning	CPF dynamic recrystallization	CPF fabric intensity	CPF fabric sense of shear	Cataclasite clast/matrix ratio (%)	Cataclasite clast size (mm)	Cataclastic fabric intensity	Comments
						structural domain 1			moderate										porphyroclastic	n	15	35	mod fx, no gsr	
							microstructures	grain boundaries	magmatic intensity		abundance magmatic fractures	abundance twinning			cfp sub intensity	geometry grain boundary	abundance twinning	intensity recryst	intensity crystal plastic	displacement sense			intensity cataclastic	[text]
							magmatic	straight	isotropic	complete	absent	absent	isotropic		absent	straight	absent	absent	absent	n			undeformed	
							submagmatic	curved	weak	partial	rare	rare	weak	weak	weak	curved	rare	weak	weakly foliated/lineated	r			minor fracturing without GSR	
							crystal-plastic	serrate	moderate	strong	common	common	moderate	moderate	moderate	serrate	common	strong	strongly foliated/lineated	s			moderate fracturing without GSR	
							cataclastic	polygonal	strong	weak			strong	strong	strong	polygonal		complete	porphyroclastic-protomylonitic	d			dense fracturing with incipient GSR	
							metamorphic	complex		absent					complete subgrains patchy				mylonitic				well developed GSR with clast rotation	
								varied											ultramylonitic				cataclastic	

Structures

Sample	Top	Bottom	Top depth	Bottom depth	Piece number (comment)	Structural domain	Microstructure	Grain boundary	Magmatic fabric intensity	Degree of static recrystallization	Sub-magmatic fractures	Magmatic twinning	Spinel lineation intensity	Serpentine Foliation	CPF undulose extinction	CPF subgrain boundaries	CPF twinning	CPF dynamic recrystallization	CPF fabric intensity	CPF fabric sense of shear	Cataclasite clast/matrix ratio (%)	Cataclasite clast size (mm)	Cataclastic fabric intensity	Comments
						structural domain 1			moderate										porphyroclastic	n	15	35	mod fx, no gsr	
							microstructures	grain boundaries	magmatic intensity		abundance magmatic fractures	abundance twinning			cfp sub intensity	geometry grain boundary	abundance twinning	intensity recryst	intensity crystal plastic	displacement sense			intensity cataclastic	(text)
							magmatic	straight	isotropic	complete	absent	absent	isotropic		absent	straight	absent	absent	absent	n			undeformed	
							submagmatic	curved	weak	partial	rare	rare	weak	weak	weak	curved	rare	weak	weakly foliated/lineated	r			minor fracturing without GSR	
							crystal-plastic	serrate	moderate	strong	common	common	moderate	moderate	moderate	serrate	common	strong	strongly foliated/lineated	s			moderate fracturing without GSR	
							cataclastic	polygonal	strong	weak			strong	strong	strong	polygonal		complete	porphyroclastic-protomylonitic	d			dense fracturing with incipient GSR	
							metamorphic	complex		absent					complete subgrains patchy				mylonitic				well developed GSR with clast rotation	
								varied											ultramylonitic				cataclastic	

Structures

Sample	Top	Bottom	Top depth	Bottom depth	Piece number (comment)	Structural domain	Microstructure	Grain boundary	Magmatic fabric intensity	Degree of static recrystallization	Sub-magmatic fractures	Magmatic twinning	Spinel lineation intensity	Serpentine Foliation	CPF undulose extinction	CPF subgrain boundaries	CPF twinning	CPF dynamic recrystallization	CPF fabric intensity	CPF fabric sense of shear	Cataclasite clast/matrix ratio (%)	Cataclasite clast size (mm)	Cataclastic fabric intensity	Comments
						structural domain 1			moderate										porphyroclastic	n	15	35	mod fx, no gsr	
							microstructures	grain boundaries	magmatic intensity		abundance magmatic fractures	abundance twinning			cfp sub intensity	geometry grain boundary	abundance twinning	intensity recryst	intensity crystal plastic	displacement sense			intensity cataclastic	[text]
							magmatic	straight	isotropic	complete	absent	absent	isotropic		absent	straight	absent	absent	absent	n			undeformed	
							submagmatic	curved	weak	partial	rare	rare	weak	weak	weak	curved	rare	weak	weakly foliated/lineated	r			minor fracturing without GSR	
							crystal-plastic	serrate	moderate	strong	common	common	moderate	moderate	moderate	serrate	common	strong	strongly foliated/lineated	s			moderate fracturing without GSR	
							cataclastic	polygonal	strong	weak			strong	strong	strong	polygonal		complete	porphyroclastic-protomylonitic	d			dense fracturing with incipient GSR	
							metamorphic	complex		absent					complete				mylonitic				well developed GSR with clast rotation	
								varied							subgrains				ultramylonitic				cataclastic	
															patchy									

Structures

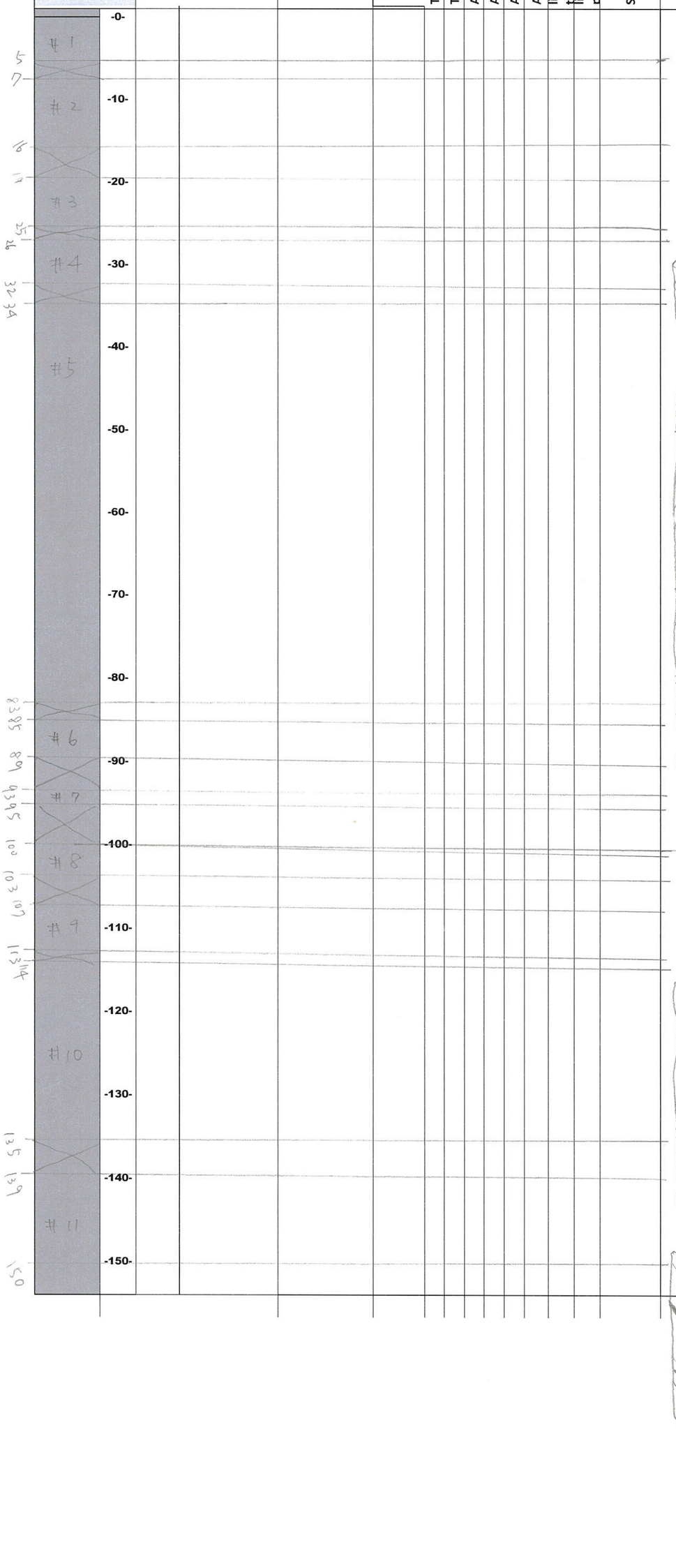
Sample	Top	Bottom	Top depth	Bottom depth	Piece number (comment)	Structural domain	Microstructure	Grain boundary	Magmatic fabric intensity	Degree of static recrystallization	Sub-magmatic fractures	Magmatic twinning	Spinel lineation intensity	Serpentine Foliation	CPF undulose extinction	CPF subgrain boundaries	CPF twinning	CPF dynamic recrystallization	CPF fabric intensity	CPF fabric sense of shear	Cataclasite clast/matrix ratio (%)	Cataclasite clast size (mm)	Cataclastic fabric intensity	Comments
						structural domain 1			moderate										porphyroclastic	n	15	35	mod fx, no gsr	
							microstructures	grain boundaries	magmatic intensity		abundance magmatic fractures	abundance twinning			cfp sub intensity	geometry grain boundary	abundance twinning	intensity recryst	intensity crystal plastic	displacement sense			intensity cataclastic	[text]
							magmatic	straight	isotropic	complete	absent	absent	isotropic		absent	straight	absent	absent	absent	n			undeformed	
							submagmatic	curved	weak	partial	rare	rare	weak	weak	weak	curved	rare	weak	weakly foliated/lineated	r			minor fracturing without GSR	
							crystal-plastic	serrate	moderate	strong	common	common	moderate	moderate	moderate	serrate	common	strong	strongly foliated/lineated	s			moderate fracturing without GSR	
							cataclastic	polygonal	strong	weak			strong	strong	strong	polygonal		complete	porphyroclastic-protomylonitic	d			dense fracturing with incipient GSR	
							metamorphic	complex		absent					complete subgrains patchy				mylonitic				well developed GSR with clast rotation	
								varied											ultramylonitic				cataclastic	

Structures

Sample	Top	Bottom	Top depth	Bottom depth	Piece number (comment)	Structural domain	Microstructure	Grain boundary	Magmatic fabric intensity	Degree of static recrystallization	Sub-magmatic fractures	Magmatic twinning	Spinel lineation intensity	Serpentine Foliation	CPF undulose extinction	CPF subgrain boundaries	CPF twinning	CPF dynamic recrystallization	CPF fabric intensity	CPF fabric sense of shear	Cataclasite clast/matrix ratio (%)	Cataclasite clast size (mm)	Cataclastic fabric intensity	Comments
						structural domain 1			moderate										porphyroclastic	n	15	35	mod fx, no gsr	
							microstructures	grain boundaries	magmatic intensity		abundance magmatic fractures	abundance twinning			cfp sub intensity	geometry grain boundary	abundance twinning	intensity recryst	intensity crystal plastic	displacement sense			intensity cataclastic	[text]
							magmatic	straight	isotropic	complete	absent	absent	isotropic		absent	straight	absent	absent	absent	n			undeformed	
							submagmatic	curved	weak	partial	rare	rare	weak	weak	weak	curved	rare	weak	weakly foliated/lineated	r			minor fracturing without GSR	
							crystal-plastic	serrate	moderate	strong	common	common	moderate	moderate	moderate	serrate	common	strong	strongly foliated/lineated	s			moderate fracturing without GSR	
							cataclastic	polygonal	strong	weak			strong	strong	strong	polygonal		complete	porphyroclastic-protomylonitic	d			dense fracturing with incipient GSR	
							metamorphic	complex		absent					complete subgrains				mylonitic				well developed GSR with clast rotation	
								varied							patchy				ultramylonitic				cataclastic	

For example

Struc	Feature	Geometry	Thickness (mm)	True Dip dir	True Plun dir	Ap. Dip dir 1	Ap. Plun dir 1	Ap. Dip dir 2	Ap. Plun dir 2	lineation trend	lineation plunge	Samples	Comments	Logged By: Yumiko H	Date: 21/12/2012



☆
① cross-cut relationship
② annotation simple word

Georges 12/12/25

Alteration veins

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Vein mineralogy or vein type according to the nomenclature of metamorphic petrologists	Label of the vein in the paper or according to metamorphic petrologists (eg V1, V2, ...)	Relationships with the wall rock (i.e. characterization of the vein margins)	Structure of the vein filling (e.g. undeformed, sheared, crack-seal)	Cross-cutting relationships with other veins (eg V1>V2) chronology of vein intrusion	magnitude of the offset (mm)	Sense of the offset	Cross-cutting relationships with other structural elements (eg shear zones, breccias...)	vein density	apparent vein density (per 10 cm) rank	Mean Length (mm)	Mean Width (mm)	vein fracture morphology	vein fracture morphology /network	planar structure dip direction measured in CRF	planar structure dip angle measured in CRF	lineation trend	lineation plunge	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]	Comment
						[text]	[text]	[text]		[number]	n- normal r-reverse d-dextral s-sinistral	[text]							225	70	135	40	225	70	135	40	270	45	180	60	225	70	[free text]
													no veins <1 /10 cm 1-5 /10 cm 5-10 /10 c 10-20 /10 >20 /10 cr	0 1 2 3 4 5					[number] 0-360	[number] 0-90	[number] 90-270	[number] 0-90	[number] 0-360	[number] 0-90	[number] 90-270	[number] 0-90	[number] 90, 270	[number] 0-90	[number] 0, 180	[number] 0-90	[number] 0-360	[number] 0-90	
U1415 E																																	
1R-1 #1A								CC					2		40	0.2																	
1R-1 #2A								CC					1		20	0.5																	
1R-1 #3A								CC					2																				
1R-1 #4A								CC					1		65	0.2																	
1R-1 #5A								CC					1		60	0.2																	
1R-1 #6A								CC					1		60	1																	
1R-1 #7A													0																				
2R-1 #1A													1		35	0.5																	
2R-1 #2A													1																				
5A								CC					2		25	0.5																	

Alteration veins

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Vein mineralogy or vein type according to the nomenclature of metamorphic petrologists	Label of the vein in the nomenclature of metamorphic petrologists (eg V1, V2...)	Relationships with the wall rock (i.e. characterization of the vein margins)	Structure of the vein filling (e.g. undeformed, sheared, crack-seal)	Cross-cutting relationships with other veins (eg chronology of vein intrusion	magnitude of the offset (mm)	Sense of the offset	Cross-cutting relationships with other structural elements (eg shear zones, breccias...)	vein density	apparent vein density (per 10 cm) rank	Mean Length (mm)	Mean Width (mm)	vein fracture morphology	vein fracture morphology network	planar structure dip direction measured in CRF	planar structure dip angle measured in CRF	lineation trend	lineation plunge	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]	Comment
						[text]	[text]	[text]	[number]	[number]	n- normal r-reverse d-dextral s-sinistral	[text]	no veins 0 <1 /10 cm 1 1-5 /10 cm 2 5-10 /10 c 3 10-20 /10 4 >20 /10 cr 5						225	70	135	40	225	70	135	40	270	45	180	60	225	70	[free text]
																			[number] 0-360	[number] 0-90	[number] 90-270	[number] 0-90	[number] 0-360	[number] 0-90	[number] 90-270	[number] 0-90	[number] 90, 270	[number] 0-90	[number] 0, 180	[number] 0-90	[number] 0-360	[number] 0-90	
U8946-6H1A																																	
A Pièce 12	136	136.1			Massive		Halo	Massive					1		66	3											270	54	0	7			←
Pièce 1													0																				
Pièce 2				Composite Vein			Halo	Fibers					1		30	1	2																
Pièce 3				//			//	//					1																				
Pièce 4	Composite Vein Smectite Carbonate						Halo	Fibers					3					1															
Pièce -4	16.5	16.6				V_1									50	2	1										270	37	0	25			
	21.5	21.6				V_2									50	2	2										90	41	0	55			
						V_3									50	2	1										90	37	0	27			
Pièce -4	Slip fibers Veins						Halo	Fibers					2					4															
	33	33.1	//	//		V_1		//							120	1	2										270	70	0	30			
	37	37.1				V_2		//	$V_1 > V_2$	10	N				30	1	3										90	80	0	50			
Pièce -5	Slip fibers Veins												3					4															
	47	47.1				V_1		Fibers							65	1-5	1										270	52	180	8			
	49	49.1				V_2		Fibers							70	1	1										270	42	180	15			
	53	53.1				V_3		Fibers							45	0.5	4										90	47	0	43			
Pièce -5	Composite Vein					> slip fibers							1																				
						V_4		Massive	$V_4 > V_1, 3$						50	4	1										270	52	0	0			
Pièce -6													1		30	2																	
Pièce -7	Slip fibers vein																	4															
	72.5	72.6				V_1		Fibers	$V_2 > V_1$						33	1	2										270	10	180	7			
	74.5	74.6				V_2		Fibers							34	1	2										90	73	0	65			
	76.5	76.6				V_3		Fibers	$V_3 > V_2$						60	1	2										270	17	180	30			
Pièce -8	Slip fibers veins						CC	Fibers					2		70	1	2	5															
//	90.1	90.1					//	//							60	2	2										270	38	0	20			
Pièce -9																																	
Pièce -10	Slip fibers veins												3					4															
	112	112.1				V_1									50	1	2																
	114	114.1				V_2			$V_2 > V_1$	4	D				60	2	2																
	117	117.1				V_3									70	1	2																

Comp Veins Smectite Carbonate
Slip fibers Veins + massive vein sur dernière pièce avec ep d.b cll + carbonate

Pièce 11 Nodule
Pièce 12 Vein perpendicular

12/23 Drilling fracture density, rank → おかしい

cataclastic density → rank おかしい

すべてのピースをチェックすること

We describe Whatever piece has deformation or not

select

Deformation intensity

fault/cataclasite fracture (cm) ならば?3

...s and ...ractures) Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	lithology from igneous group)	Type of fault rocks	Fault Offset (mm)	sense of shear	Open fractures density	Open Fractures rank	vein fracture morphology	vein fracture morphology /network	Drill Ind. Fracs. density	Thickness (mm)	Cataclastic fabric intensity	Cataclastic Fabrics rank	Clast/Matrix ratio in fault rocks (%)	Average size of clast in falut rock (mm)	fault gouge or breccia cohesivity	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF	dip angle calculated CRF	Slickenside trend	Slickenside plunge	Comments
																				Orientation												
																				225	70	135	40	270	45	180	60	225	70			
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690		fault gouge	[text]			[Select number]			[Select number]	[number]		[Select number]	[number]	[number]		[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[free text]
						fault breccia		normal revers	No open fractures	0			0		see email	0			cohesive incohesive	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	90-270	0-90	
						cataclasite			<1 per 10 cm	1			1			1																
						hydrothermal breccia		dextral	1-5 per 10 cm	2			2			2																
						magmatic breccia		sinistral combos d/s etc	>5 per 10 cm	3			3			3																
						psedutachyllite										4																
																5																

Yumiko-San

Yumiko Harigane

2012/12/23-24

clast % / matrix %

short!

894G2R-3A #1	0	4							1			0	0.5		0																	
#2	7	10.5		#1.#2		cata						0	2		5	20/80	1	co														
#4	20	29				cata			<1 per						1			co														
#5	30	46				cata			<2 per						2			co													sketch	
#5	40	46				cata			>5				7		5	20/80	0.5	co	180	90											sketch ←	2つ目の2raw情報もかく
#6	48	56				cata			2-5 per						2			co														
#7	58.5	62				cata			No						1			co														
#8	63	67				cata									1.5			co.														
#9	68	72				cata									1.5			co														
#6	48	56				cata									5	10/90	0.5	co	180	90												
#8	63	65				cata									1			co														
✓ #8	65	67				cata								20	5	10/90		co														
#9	68	69.5				cata								3.5	5	20/80	0.5	co														
#10	73	76.5				cata									1.5			co														
#10	75	76.5				cata								6	5	10/90		co													Sketch	
#11	77.5	86.5				cata									2			co														
#11	77.5	86.5				cata								20	5	30/70	<0.5	co	180	90											Sketch	
#12	87	99.5				cata									2			co														
#12	87	99.5				cata								10	5	30/70	<0.5	co	180	90												
#14	109	114.5											1																			
13R-2A#1	0	10											1																			
#5	28	41.5											2																			
#7	50	84											2																			
#9	108.5	112.5											2																			
#10	114	146											2																			
#10	114	116				cata									4	40/60	0.5	co													zeolite vein included caraclastic clasts	
12R-2A#4	17	65											2											270	37	180	2					
#4	56.0	56.2				Cata									5	10/90		co														
#9	96	102											1																			
#10	116.5	120											2																			

OK

OK

OK

OK ←	894G 9R-4 #2	7	30											1																			
	6R-2 #4	38	39.3				cata										3	50/50	1	co					270	7	180	40					
	#5	47.5	67											2																			
	#6	70.5	71				cata								5		2			co					90	15	180	50					
	#8	97	103.8											1																			
	#9	104	111.5											1																			
OK ←	6R-1 #3	11.5	13.5				cata										5	80/70	1	co													several clast shape is rounded
	#4	15	41											1																			
	#5	54	63											2																			
	#5	44	54				cata										1			co													
	#6	67.5	67.6				cata								1		3	50/50		co													
	#7	70	80.5				cata										0.5			co													
	#8	81.5	89				cata										1			co													
	#8	98	100				cata										1			co													
	#10	106.5	123.5				cata										1			co													
OK ←	#12	136.7	136.9											1																			
	8R-1 #4	26	32.5											1																			
	#5	33.5	82				cata										3			co													
	#5	33.5	41				cata								2		5	20/80		co	180	73											branched cataclasized area
	#5	54	63				cata								5		5	30/70		co													
	#5	65	65.5				cata								4		5	80/70		co					90	38	180	0					sketch
	#5	77.5	79				cata								3		5	30/70		co					90	46	0	60					
	#5	74	77.5				cata								2		5	30/70		co	169	67											branched cataclasized area
	#6	85.5	86.8				cata								7		5	20/80	<0.5	co													
	#10	114.5	115				cata								6		5	20/80		co	198	55											270°side has 6mm wide cataclasite zone.
	#10	118	118.3				cata								1		5	20/80		co					270	78	180	11					
	#10	135	135.2				cata								1		4	40/60		co					270	55	180	42					90°side has cataclasite zone.
	#11	140	149				cata										2.5			co													Sketch (Sketch)
	#11	144.7	145				cata								9		5	20/80	<0.5	co					270	57	180	31					
	#11	149.4	149.5				cata								5		5	20/80	<0.5	co					270	59	180	5					
OK ←	12R-3 #1	0	44											1																			
	#2	54.5	59.2											1																			270°side has fracture related drilling
	#3	60.5	73				cata										0.5																
	#4	75	94											1																			
	#5	95.5	107											1																			
	#7	113	133.5											1																			
	#8	136	150											0.5																			
OK →	895E 1R-3 #1	0	10											2																			
	#2	20	37											3																			
	#4	40	92											1																			
OK →	895D 4R3 #3	22	27.5											1																			
OK →	7R1 #18	105	110.5											1																			
OK ←																																	

intensity rank → No Undeformed 0

全体のBrittle feature と specific で分ける.

piece #　　top/Bottom

もし、piece #にBrittle 複数あったら

全体の方のintensityはかけないで specificの方にかく

Alteration veins

U894G2R3A

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Vein mineralogy or vein type according to the nomenclature of metamorphic petrologists	Label of the vein in the same nomenclature with metamorphic petrologists (eg V1, V2...)	Relationships with the wall rock (i.e. characterization of the vein margins)	Structure of the vein filling (e.g. undeformed, sheared, crack-seal)	Cross-cutting relationships with other veins (eg V1>V2) chronology of vein intrusion	magnitude of the offset (mm)	Sense of the offset	Cross-cutting relationships with other structural elements (eg shear zones, breccias...)	vein density	apparent vein density (per 10 cm) rank	Mean Length (mm)	Mean Width (mm)	vein fracture morphology	vein fracture morphology network	planar structure dip direction measured in CRF	planar structure dip angle measured in CRF	lineation trend	lineation plunge	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]	Comment
						[text]	[text]	[text]		[number]	n- normal r-reverse d-dextral s-sinistral	[text]	no veins 0 <1 /10 cm 1 1-5 /10 cm 2 5-10 /10 c 3 10-20 /10 4 >20 /10 cr 5						225	70	135	40	225	70	135	40	270	45	180	60	225	70	[free text]
																			[number] 0-360	[number] 0-90	[number] 90-270	[number] 0-90	[number] 0-360	[number] 0-90	[number] 90-270	[number] 0-90	[number] 90, 270	[number] 0-90	[number] 0, 180	[number] 0-90	[number] 0-360	[number] 0-90	
Piece 1													0																				
Piece 2													1																				
Piece 3					Filran								1																				
	13.8	14.0			"	V_1	CC	Filran							48	2	2										270	20	0	25			
					massive								2																				
	17.0	17.1			"	V_2	CC	massive							40	1	1	3									270	41	0	20			
Piece 4	25.9	26.5			Filran		CC	Filran					2		45	6	1	5									90	05	0	05			
Piece 5			Intrafault Vein		Carbonate								3		100	2	2	5									90	70	0	10			
Piece 6			Intrafault Vein		Carbonate								3		5	4	2	5									170	70	180	30			
Piece 7													0																				
Piece 8			Intrafault Vein										1																				
Piece 9			Intrafault		Vein								1																				
Piece 10			Intrafault		Vein								1																				
Piece 11			Intrafault		Vein								3		5	0,2	2	2									90	90	0	30			
Piece 12			Intrafault		Vein								2		6	1	2	5	270	70													
Piece 13													0																				
Piece 14													0																				
1																																	

Alteration veins

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Vein mineralogy or vein type according to the nomenclature of metamorphic petrologists	Label of the vein in the piece in cooperation with petrologists (eg V1, V2...)	Relationships with the wall rock (i.e. characterization of the vein margins)	Structure of the vein filling (e.g. undeformed, sheared, crack-seal)	Cross-cutting relationships with other veins (eg V1>V2)	magnitude of the offset (mm)	Sense of the offset	Cross-cutting relationships with other structural elements (eg shear zones, breccias...)	vein density	apparent vein density (per 10 cm) rank	Mean Length (mm)	Mean Width (mm)	vein fracture morphology	vein fracture morphology network	planar structure dip direction measured in CRF	planar structure dip angle measured in CRF	lineation trend	lineation plunge	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]	Comment
						[text]	[text]	[text]	chronology of vein intrusion	[number]	n- normal r-reverse d-dextral s-sinistral	[text]							225	70	135	40	225	70	135	40	270	45	180	60	225	70	[free text]
													no veins 0 <1 /10 cm 1 1-5 /10 cm 2 5-10 /10 c 3 10-20 /10 4 >20 /10 cr 5						[number] 0-360	[number] 0-90	[number] 90-270	[number] 0-90	[number] 0-360	[number] 0-90	[number] 90-270	[number] 0-90	[number] 90, 270	[number] 0-90	[number] 0, 180	[number] 0-90	[number] 0-360	[number] 0-90	
U8946 8R1A																																	
Piece 1	1.5	1.6	Smectite Vein				CC						1		25	1	2										050	38	0	0			
Piece 2		Composite Smectite + Carb											2					5															
	10.5	10.6	"			V1		CC							60	1	2										270	48	0	12			
	12.9	13.0				V2									30	1	2										050	12	0	30			
Piece 3		Silty fuller vein					Halo						1		45	2	2			Non oriented piece													
Piece 4													0																				
Piece 5	Composite veins smectite + carbonate						Halo						4					5															
	39.5	39.7				V1	"								60	3	1										270	60	0	10			
	46.5	46.6				V2	"								30	2	2										050	35	0	30			
	50.1	50.2				V3	V3>V2	Halo							70	1	2										270	53	180	10			
	59.0	59.2				V4		"							60	2	1										90	37	0	12			
	65.5	65.6				V5		"							60	2	2										050	35	180	24			
	67.6	67.7				V6		CC							30	1	2										90	45	180	55			
	70.0	70.1				V7	V7>V6	Halo							62	2	1										270	82	0	24			
Piece 6													0																				
Piece 7													0																				
Piece 8													0																				
Piece 9		Smectite Vein											4		60	2	1	1		Non oriented piece													
Piece 10		Silty fuller vein											2		230	1	2		300	75													
	121	121.1				V1																											
	Composite Vein						Halo						1					1									270	55	180	24			
	121	121.1				V1									280	2	2										↓	↓	↓	↓			
	133.5	133.6				V2																					270	43	0	28			
Piece 11																																	

Georges

morphology 1 Planar 2 curved 3 concave 4 Irregular 5 Vein tip

network 1 Pinch off 2 Edge 3 Checkerboard 4 Crosscut 5 Anastomosis

Alteration veins

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Vein mineralogy or vein type according to the nomenclature of metamorphic petrologists	Label of the vein in the piece in cooperation with metamorphic petrologists (eg V1, V2...)	Relationships with the wall rock (i.e. characterization of the vein margins)	Structure of the vein filling (e.g. undeformed, sheared, crack-seal)	Cross-cutting relationships with other veins (eg V1>V2) chronology of vein intrusion	magnitude of the offset (mm)	Sense of the offset	Cross-cutting relationships with other structural elements (eg shear zones, breccias, ...)	vein density	apparent vein density (per 10 cm) rank	Mean Length (mm)	Mean Width (mm)	vein fracture morphology	vein fracture morphology /network	planar structure dip direction measured in CRF	planar structure dip angle measured in CRF	lineation trend	lineation plunge	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]	Comment
						[text]	[text]	[text]	chronology of vein intrusion	[number]	n- normal r-reverse d-dextral s-sinistral	[text]	vein density	apparent vein density (per 10 cm) rank					225	70	135	40	225	70	135	40	270	45	180	60	225	70	[free text]
													no veins 0 <1 /10 cm 1 1-5 /10 cm 2 5-10 /10 c 3 10-20 /10 4 >20 /10 cr 5					[number] 0-360	[number] 0-90	[number] 90-270	[number] 0-90	[number] 0-360	[number] 0-90	[number] 90-270	[number] 0-90	[number] 90, 270	[number] 0-90	[number] 0, 180	[number] 0-90	[number] 0-360	[number] 0-90	
U895D4R3A-1					Black Serp		clear cut	Fibrous						2			2	4															
"	3	3.05			"	V1		"							4	0.5											270	1	0	11			
"	3	9			"	V2		"	V2>V1						7	2											90	70	0	27			
"	4.2	6.2			"	V3			V2>V3						34	2											270	52	0	40			
U895D4R3A-2					Green Serp		clear cut	Massive						2			5	1															
"	13.4	13.5													42	0.5			275	52													
	17.4	17.8													70	3			273	54													
	20.5	20.6													45	0.5			271	51													
U895D4R3A3					Green serp		clear cut	Fibrous						3	60	1.5	2	1															
U895D4R3A4					Green serp		clear cut	Fibrous						1	40	1	2																
U895D4R3A5														0																			
U895D4R3A-6					Green serp		clear cut	Massive						1	7	3	1										270	34	0	69			
A-7														0																			
A-8														0																			
A-9														0																			
A-10														0																			
A-11														0																			
A-12														0																			
A-13	112	112.5			Green serp		Diffuse	Fibrous						1	23	0.5											270	10	0	8			
A-14				Green serp	White Sal		Diffuse	Fibrous						4	6	3	4	5															
A15				Black serp	White V1		clear cut	Fibrous						4			3										90	20	0	47		4 mean orientation of the network	
A-15	131.9	132.1		"	"	V2	"	"						1	5	2		2									270	7	0	37			
A-15	135	135.5		"	"	V3									5	0.5	3	1									90	38	180	35			
A-16														0																			
A-17														0																			
U895E1R3A-1					Black Serp									1																			
"	8	14			"	V1	clear cut				A	Sulfide contact			6	0,2	1										90	85	0	90			
3A-2					orange carbonate									1																			
"	26.4	26.5			"	V1	clear cut							1	55	1	1	2									90	25	0	28			
3A-3														0																			
3A-4					Serp-Fe			massive						1																			
"	60	63			"	V1		"	V4>V1			(*)			30	0,2	2		234	80													
"	77.5	81.5			"	V2		"	V4>V1						40	0,5	1	2	270	65													
"	84	87.5			"	V3		"	V4>V1						35	0,2	1	3	180	85													
"	65	89			Actinolite	V4	Diffuse	Fibrous				(**)		1	240	10	2		0	90		90											
"					calcite			massive				(***)		4													90	30	180	10			
3A-5	95	104			serpentine		clear cut	massive						2	90	0,5	2		110	90													
3A-6														0																			
3A-7														0																			
3A-8														0																			
3A-9														0																			

(*) crosscut the serpentine network
(**) V4 crosscut the serpentine network but is crosscut by the carbonate veins // to the serpentine network
(***) Σm observation on serpentine network
part of the

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
313	345-U1415P-22R-2-A	75.5	85.5	#6											planar	weak	1		questionable olivine and plagioclase foliation				
314	345-U1415P-22R-2-A	85.5	98.5	#7											planar	weak	1		questionable olivine and plagioclase foliation				
315	345-U1415P-22R-2-A	98.5	114	#8			sharp	planar	contact between troctolite above and olivine g					troctolite	planar	weak	1		olivine and plagioclase foliation				
316	345-U1415P-22R-2-A	114	116	#8										olivine gabbro	planar	moderate	2		olivine and plagioclase foliation				
317	345-U1415P-22R-2-A	116	125.5	#9											planar	weak	1		olivine and plagioclase foliation				
318	345-U1415P-22R-2-A	125.5	129	#10															can't tell too small				
319	345-U1415P-22R-2-A	129	133	#11											planar	weak	1		questionable olivine and plagioclase foliation				
320	345-U1415P-22R-3-A	0	15	#1											planar	weak	1		olivine and plagioclase foliation				
321	345-U1415P-22R-3-A	15	30	#2											planar	weak	1		olivine and plagioclase foliation				
322	345-U1415P-22R-3-A	30	43	#3												isotropic	0						
323	345-U1415P-22R-3-A	43	49.5	#4										plagioclase rich area corresponds to anothositic vein in :	planar	weak	1		olivine and plagioclase foliation				
324	345-U1415P-22R-3-A	49.5	55	#5											planar	weak	1		olivine and plagioclase foliation				
325	345-U1415P-23R-1-A	0	8	#1											planar	weak	1		questionable olivine and plagioclase foliation				
326	345-U1415P-23R-1-A	8	22	#2						grain siz	diffuse	planar	0.5	Vertical anothositic vein- dip 86/080	planar	moderate	2		olivine and plagioclase foliation				
327	345-U1415P-23R-1-A	22	29.5	#3											planar	weak	1		steep olivine and plagioclase foliation- but roller				
328	345-U1415P-23R-1-A	29.5	36	#10, #11, #12, #13, #14, #15, #16, #17, #18, #4, #5, #6, #7, #8, #9											planar	moderate	2		steep olivine and plagioclase foliation- but roller				
329	345-U1415P-23R-1-A	36	43	#10, #11, #12, #13, #14, #15, #16, #17, #18, #5, #6, #7, #8, #9											planar	moderate	2		olivine and plagioclase foliation				
330	345-U1415P-23R-1-A	43	47	#10, #11, #12, #13, #14, #15, #16, #17, #18, #6, #7, #8, #9											planar	weak	1		olivine and plagioclase foliation				
331	345-U1415P-23R-1-A	47	51	#10, #11, #12, #13, #14, #15, #16, #17, #18, #7, #8, #9											planar	weak	1		olivine and plagioclase foliation				
332	345-U1415P-23R-1-A	51	58	#10, #11, #12, #13, #14, #15, #16, #17, #18, #8, #9											planar	weak	1		olivine and plagioclase foliation				
333	345-U1415P-23R-1-A	58	66	#10, #11, #12, #13, #14, #15, #16, #17, #18, #9											planar	weak	1		olivine and plagioclase foliation				
334	345-U1415P-23R-1-A	66	77.5	#10											planar	weak	1		olivine and plagioclase foliation				
335	345-U1415P-23R-1-A	77.5	84.5	#11											planar	weak	1		olivine and plagioclase foliation				
336	345-U1415P-23R-1-A	84.5	91.5	#12											planar	weak	1		olivine and plagioclase foliation				
337	345-U1415P-23R-1-A	91.5	99.5	#13											planar	weak	1		olivine and plagioclase foliation				
338	345-U1415P-23R-1-A	99.5	105	#14												isotropic	0						
339	345-U1415P-23R-1-A	105	117	#15											planar	weak	1		olivine and plagioclase foliation				
340	345-U1415P-23R-1-A	117	131	#16											planar	weak	1		olivine and plagioclase foliation				
341	345-U1415P-23R-1-A	131	134	#17															can't tell- chips				
342	345-U1415P-23R-1-A	134	141	#18											planar	moderate	2						
343	345-U1415P-23R-2-A	0	12	#1											planar	weak	1		olivine and plagioclase foliation				
344	345-U1415P-23R-2-A	12	18	#2											planar	moderate	2		olivine and plagioclase foliation				
345	345-U1415P-23R-2-A	18	34	#3											planar	moderate	2		olivine and plagioclase foliation				
346	345-U1415P-23R-2-A	34	47.5	#4											planar	moderate	2		olivine and plagioclase foliation				
347	345-U1415P-23R-2-A	47.5	54	#5											planar	moderate	2		olivine and plagioclase foliation				
348	345-U1415P-23R-2-A	54	72	#6											planar	moderate	2		olivine and plagioclase foliation				
349	345-U1415P-23R-2-A	72	75	#7															pebbles can't tell				
350	345-U1415P-25G-1-A	0	11	#1															gravel- can't tell				
351	345-U1415P-25G-1-A	11	20	#2										plagioclase rich area in sample	planar	moderate	2		olivine and plagioclase foliation				

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)															
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition											
						gradational					anastomosing weak strong			anastomosing	strong	3	d	mineral shape		discordant	irregular													
																	ns	mineral aspect ratio		concordant														
																	nd	vesicle distribution																
																	rs	vesicle flattening																
																	rd	vesicle alignment																

1415P

2G 2A

1	0	31.5	SAND
2	31.5	36.5	gravel
3	36.5	52	pressed
4	52	58	pressed
5	58	60.5	
6	61	61	

N / R
W 1 — ol
M 2 — olivine almost tab — ol 55 — small oikos
+ more common ol xenos OL
basalt with spots — plag

3R 1A

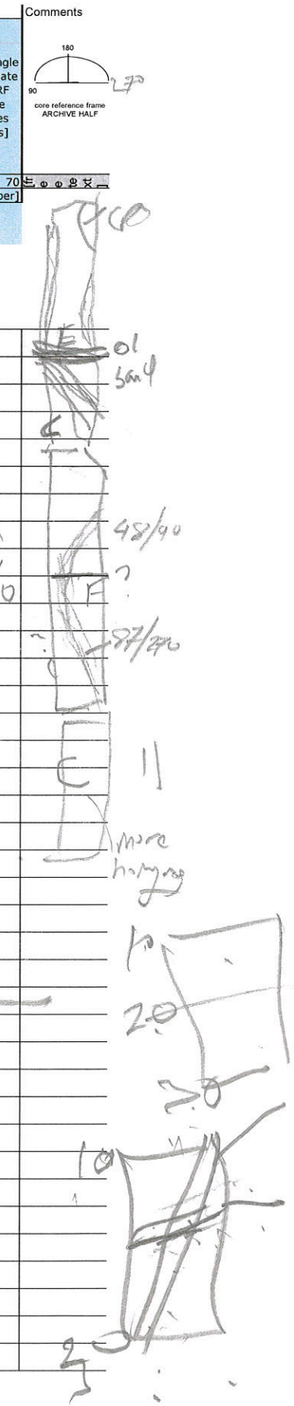
1	0	3	
2	3.5	9.5	
3	11	16	
4	17.5	21	
5	21.5	24	
6	24.5	30	
7	30	34	
8	34.5	40.5	
9	41.5	44	
10	44.5	47.5	
11	48	50	
12	51	53.5	
13	54	59	
14	59	75.5	
15	76.5	78	
16	79.8	88.5	
17	88.5	95.8	
18	95.5	98.5	
19	99	115	
20	115	129.5	
21	124.5	127.5	
22	127.5	133.5	

Gabbro

W 1 — possible weak ol + plag
I 0 — radiating plag — slightly altered
I 0 — altered
M 2 — mag staining ol + plag — has ol
Cattell small possible
I 0
P 3 — ol + plag phirich — small cpx oikos — slightly altered
I 0 → 0
I 0
I 0
I 0
I 0
I 0
I 0 — Small gabbro
I 0
I 0
I 0
I 0
I 0
I 0
I 0
I 0
I 0

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margin	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)	sharp	planar		x-cutting relationship composition	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)															
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved													
						gradational					anastomosing weak strong			anastomosing	strong	3	d	mineral shape		discordant	irregular													
																	ns	mineral aspect ratio		concordant														
																	nd	vesicle distribution																
																	rs	vesicle flattening																
																	rd	vesicle alignment																
U1415P 46A																																		
#1	0	2.5														I	O																	
2	3.5	8													P	W	I	ol + plg																
3	8.5	17														P W	I		ol + plg															
4	18	29														I	O																	
5	29.5	37														I	O																	
6	37	49.5														I	O																	
7	50.5	61.5														I	O																	
8	62	93														W	I	ol + plg																
9	93.5	109.5														I	O																	
10	110	125.5														W	I	plg ol																
11	126.5	140.5														SW	I	pos plg + ol																
4624	1	0	20													I	O																	
	2	21	24													I	O																	
	3	24	33													I	O																	
		0	10																															
		10	20																															
5R1	1	0	9.5													O	I																	
	2	11	13													O	I																	
	3	14	21													O	I																	
	4	22	24													O	I																	
	5	25	42													O	I																	
	6	43	66													O	I																	
	7	67	85													O	I																	
	8	86	98.5													O	I																	
	9	99.5	102.5													O	I																	
	10	102.5	109													O	I																	
	11	109.5	120.5													W	I																	
	12	122	129													I	O																	
	13	130	137													I	O																	
	14	138	142																															



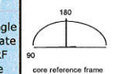
Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690									
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved		
						sharp	irregular	rock types	grain size & modal		irregular		
						gradational					anastomosing		

Sample	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments
335-1256D-298R-1A										
	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)				
	planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship composition
	linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		
	anastomosing	strong	3	d	mineral shape		discordant	irregular		
				ns	mineral aspect ratio		concordant			
				nd	vesicle distribution					
				rs	vesicle flattening					
				rd	vesicle alignment					

Sample	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]
335-1256D-298R-1A	225	70	135	40	270	45	180	60	225	70
	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]
	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90

Comments



1415P

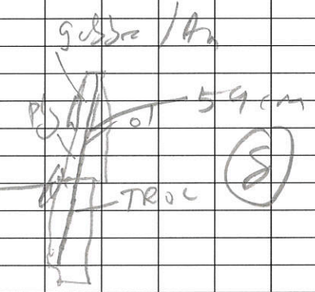
slightly heterogeneous

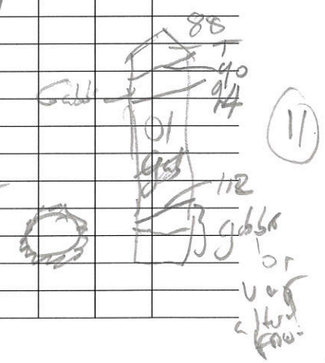
5R2A

| | | | | | | | | | |

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	180 / 90 core reference frame ARCHIVE HALF
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)															
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition											
						gradational					anastomosing			anastomosing	strong	3	d	mineral shape		discordant	irregular													
											weak						ns	mineral aspect ratio		concordant														
											strong						nd	vesicle distribution																
																	rs	vesicle flattening																
																	rd	vesicle alignment																
6R2 1	0	17			hopper grab		mostly	fr	grad						I	0																		
2	19	22													I	0																		
3	23	34			Contact	of gabbro			53/090		irregular				I	0																		
	31	34				gabbro									I	0																		
4	34.5	44					78/090								M	2																		
5	45	55						57/090			40/000				M	2																		
6	55.5	62		TR	transition	in	Brecc		0		gabbro		contact			0																		
7	62	67												0197		0		- probably																
8	69	76			contact		Sheet	in	gabbro		57/040			g 72																				
9	77	80					med	grained	basalt						W	1		ol + plag																
10	81	87						"	"						I	0																		
11	88	104						"	"						I	0																		
12	104	108						Sheet	olr						I	0																		
13	109	119													I	0		Rubble																
14	119	122.5				- banding		0.5 cm	modal	plag	+ opx				SB			- ol -			roller	- no ol												
15	123	131				gabbro		- altered	sig		amph					0	I																	
7R1																																		
1	0	5				tro			Shel	ol						0	I																	
2	7	14.5				~~troctolitic~~	~~gabbro~~	~~med~~								0	I	Pebbles																
3	14.5	21				troctolitic		gabbro	med	grain						0	I																	
4	22.5	28					troctolitic	gabbro	more	altered						0	I																	
5	29	35					"	"	"	"	cpx	- amp				0	I																	
6	36	39	34			Contact	with	gabbro	- irregular						W	1		ol																
		39	41			gabbro																												
7	41.5	54				ol	bearing	gabbro	- coarser	with	large cpx				W	2		ol + plag		63/090														
8	54.5	59			- Contact		Modal contact/angular plag - ol											ol + plag		84/090														
	59	60																																
9	81	84							tro	gabbro					I	0																		
10	84.5	88							ol	gabbro					I	0		- plag																
11	88	119							Altered	ol	bearing	gabbro	- skel ols		I	0		- heterogeneous		- ol rich		topz	rich patches											
																							- spkrs											
12	120	123				g	or altered		g						I	0																		
	123	130					ol	g							I	0																		
13	131	138						ol g		altered					I	0																		





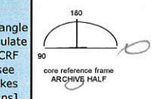
5

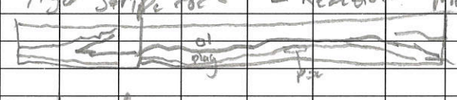
7

8

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)															
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition											
						gradational					anastomosing weak strong			anastomosing	strong	3	d	mineral shape		discordant	irregular													
																	ns	mineral aspect ratio		concordant														
																	nd	vesicle distribution																
																	rs	vesicle flattening																
																	rd	vesicle alignment																
U1415																																			
7R2																																			
1	0	8														F	0																		
2	9	34	01	9																															
	34	43																																	
3	43	54	01	5																															
4	56	64																																	
5	64	69																																	
6	70	76.5																																	
7	77.5	85																																	
8	85	89.5																																	
	90.5	96																																	
8R1A																																			
1	0	23.5																																	
2	24.5	55																																	
3	57	60																																	
4	60	65																																	
5	66	77																																	
6	78	89																																	
7	90.5	97																																	
8	98	130.5																																	
9	137	145																																	
8R2A	1	27																																	
	23.5	34	2																																
	34	44	3																																





Big Dif - Equant ol - not tabular.

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margin	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)															
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition											
1415P						gradational					anastomosing weak strong			anastomosing	strong	3	d	mineral shape		discordant	irregular													
																	ns	mineral aspect ratio		concordant														
																	nd	vesicle distribution																
																	rs	vesicle flattening																
																	rd	vesicle alignment																
9R1							CHANGE			- NO ZEBRA																								
1	0	17				- Med grained		- equant ol					flint of ~~varied~~					steep modal layers		- not				80/090										
2	8.5	28				Med	"	ol g.								OI																		
3	29	41				More heterogeneous		- possible shad ol or ulvite clot??								OI			- Reaction rims of plag surrounds ol															
4	42	53.5				fine grained		tree lin by interstitial cpx oikos								O I			Reaction rims				plag crust ol											
5	55	67														O I																		
6	68	86				Reaction		spots		coarser grained pebble						O I																		
																~~O I~~																		
7	88.5	92				finer		grained								O I																		
8	93	122				hints		of steeper		wech		M.dl				O L																		
					CM-3cm		layers						70/070					37/075																
9	125	128				altered		trac	-	less	cpx					O L																		
10	128.5	141				fine	grained	trac	gabbro																									
9R2 1	0	8				altered		trac	gabbro							O I																		
2	8.5	11				coble	-	with								O I			- possible															
3	12	33				fine grained		trac gabbro								I W			ol with ol fabric															
4	35	44.5				Sim to above		but	no	fabric						I O																		
5	46	51.5				more		heterogeneous		- possible						I O																		
6	52	66				less		heterogeneous		but still		gabbro				I O																		
7	67	70						small	mic.	f.	hydrotiz.					I O																		
8	71	79					very	cpx	rich.							I O			—		Possible		shear zone											
							possible																											

No Fab
CO2 ol mvr equ-t

Magmatic fabric

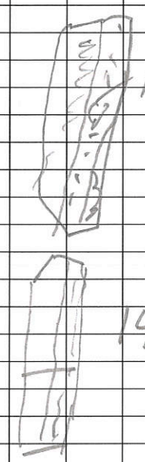
Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)					[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition											
14RP						gradational					anastomosing weak strong			anastomosing	strong	3	d	mineral shape		discordant	irregular													
																	ns	mineral aspect ratio		concordant														
																	nd	vesicle distribution																
																	rs	vesicle flattening																
10R1																	rd	vesicle alignment																
1	0	6				tot hol.		gabbro	Med grained						0	I																		
2	8	18				slightly	heterogeneous	troc gabbro							0	I			rarible		grain size													
3	19.5	31.5					troc	gabbro							0	I																		
4	32	40					troc	gabbro							0	I																		
5	41	47.5					"								0	I																		
6	48	55.5				sub vert	plag	bands		90/250		0.5cm			0	I														model -				
7	56.5	68				very	heterogeneous	gabbro	— reaction rims			large cpx		— ol	phyric																			
8	69	82				very	heterogeneous		— possible	steep	contact zone	between	troc	+ gabbro	— but diffuse																			
9	83	89					small	piece of	gabbro						0	I																		
10	90	102.5				finer	grained	troc	possible	subvert	cont	troc	to gabbro																					
11	103	112					heterogeneous								0	I																		
12	113	121							possible	weak	fabric				W	I		OL	50/270															
13	121.5	135					Fault	in	Pebbs						0	I																		
14	135	143				→	Coarser	grained.																										
10R2	1	0	12				heterogeneous		— maybe	weak	steep			plag + ol	bands									65/180										
	2	13	21					possible	weak	ol	fol				W	I																		
11R1R	1	0	7	sim to top of	10		med grain	troc	with	plag	swirls	and	oils		0	I																		
	2	7	17				heterogeneous		— possible	weak	foliation				W	I		22/190	olivine		in	thin	grained											
	3	18	20				fol								Possible			cut/fol																
	4	22.5	27					heterogeneous	coarse									I																
	5	29	37					heterogeneous	sig cpx	—								I	weak	fels	banding													
	6	38	47					fine grained										I																
	7	48	61					heterogeneous		— fels banding	— steep							I	54/090															
	8	62	73					heterogeneous		coarser grained								I	→ some	fels	banding													
	9	74	81					fine grained	— less	heterogeneous	no	banding						I																
	10	82.5	92					mixed	fine grained	+	heterogeneous							I																
	11	93	102								heterogeneous							I																
	12	102.5	106.5						small	pebble	heterogeneous							I																
	13	107.5	114							heterogeneous	— hint of	fels	— banding					I																
	14	115	121							fine grained	— hint of	fels	banding					I																
	15	122.5	126					— but	hint of	fels	banding							I																
	16	127	135					— but	banding		steep			60/090				I																
	17	136	140						— banding									I																
	18	146	-147					GABBRO	cross	margin								I																

Magmatic fabric

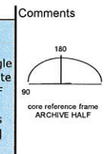
Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)															
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition											
						gradational					anastomosing weak strong			anastomosing	strong	3	d ns nd	mineral shape mineral aspect ratio vesicle distribution		discordant concordant	irregular													
																	rs	vesicle flattening																
																	rd	vesicle alignment																

1415 P

11R 2A 1	0	10				Some co 2 — fine grained										0	I																	
2	10	17				stained hat — some ply bands										0	I																	
3	14	23				hat - ~~of~~ troc gab - coarse										0	I																	
4	24	26													Pebbles																			
5	28.5	34				ol bearing gabbro - heterogeneous + coarse										0	I																	
12R 1A 1	0	10				weakly heterogeneous										0	I																	
2	11	18				w " "										0	I																	
3	14.5	24				fine grained ol gabbro										0	I																	
4	25	31				ol gabbro										0	I																	
5	32	35				fine grained heterogeneous										0	I																	
6	35.5	41				fine grained with a little ply banding										0	I																	
7	41.5	54				weak heterogeneous										0	I																	
8	55	60														0	I																	
9	62	67				finer grained										W	I		Possible ol + ply															
10	69	74				coarser grained										0	I																	
11	74.5	86				weak hat & vertical band 1cm										0	I																	
12	87	93				ply banding 0.5cm										0	I		rolls	OI														
13	94.5	109				— vertical ply band 2cm										0	I							84/96										
14	110	131				Irregular vertical ply banding 3cm										0	I							88/90										
15	133	144				coarse grained heterogeneous										0	I																	



Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
						sutured	planar	chilled margin	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)					[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship composition	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved													
						gradational					anastomosing			anastomosing	strong	3	d	mineral shape		discordant	irregular													
											weak						ns	mineral aspect ratio		concordant														
											strong						nd	vesicle distribution																
																	rs	vesicle flattening																
																	rd	vesicle alignment																

1415P

13R1

1 0 8 heterogeneous fine grained – maybe steep weak ol. foliation. W1 46/090
2 9.5 20.5 Size & above heterogeneous weak steep plag banding 52/090 + weak ol fo W1
3 21.5 30 Coarse gravel spotty ol gabbro/ altered 0 I
4 32 37 " 0 I
5 39.5 44 " " 0 I
6 46 58 " " 0 I
7 59.5 71 " " 0 I
8 72 77 " " 0 I
9 78 84 olive 0 I – possible weak layering sitch to 10
10 85.5 122 – Possible macro layering dipping 36/090 – weak scr sed 0 I
11 124 133 Heterogeneous weak plag banding – no orientation 0 I 44/270
12 134.5 139.5 – plag banding – cobble no orientation. 0 I

13R2

1 0 17 heterogeneous – ~~strong~~ weak plag banding ~~banding~~ mottling 0 I
2 18.5 29 " " 0 I
3 30 34 " "
4 35.5 40 " "
5 41 50 – some plag banding – steep 84/090 ? – possible weak ol fol parallel to plag (~~cobble~~ could be scrap
6 51 61 weak plag banding – steep? —
7 62 67 plag banding in a roller —
8 70 73 Rubble I 0
9 73 85 weak plag banding 62/090 I 0 – ? poss weak ol foliation
10 86.5 96 weak plag banding 49/090
11 96.5 104 Rubble
12 104 113 weak plag banding – subhorizontal 4/270

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	core reference frame ARCHIVE HALF (180, 90)
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)															
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship composition	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved													
141 5P						gradational					anastomosing weak strong			anastomosing	strong	3	d	mineral shape		discordant	irregular													
																	ns	mineral aspect ratio		concordant														
																	nd	vesicle distribution																
																	rs	vesicle flattening																
14R1																	rd	vesicle alignment																
1	0	8			Heterogeneous				weak	sub horizontal	ply banding						0 I																	
2	10	15				med grained		true gabbro			- possible weak vertical							of	Foli =															
3	16	25			Ply banding		- sharp contact							33/090			MI	parallel to layer																
4	26	32			weak plag		similar									0	I																	
5	32.5	62					OI gabbro	big oxy								0	I		- plg	concentr	boundary	with	cpx	at top										
6	64.5	71							"							0	I																	
7	72	81							"							0	I																	
8	82	93							"							0	I																	
9	93.5	97							Altered							0	I																	
10	98	107				Mon	Met	igan	- plag	wisps + banding						0	I																	
11	109	113							"							0	I																	
12	115	126							"							0	I		- steep	plg	banding			73	180									
14R2 1	0	16			altered gabbro		- plag banding at top									80/200																		
2	18	40					Met	gabbro	similar	to 13R1 piece						10																		
15R1 1	0	9		-	vertical		weak	plg	banding	for	differ					80/064		- possible		weak	vertical		of	fabric										
2	10	15				roller		- plg		banding	0.5cm																							
3	16.5	22				roller		plg		banding	1.5cm																							
4	22	26					roller		of	pl parallel	possible plag band							of top																
5	27	33			Med		grained	troc	gabbro							0	I																	
6	34.5	38						"	"					Pos	of	0	I	fabric	Pos	of	fabric													
7	39	42			TROCTOLITE		MED GRAINED		LIKE	UNIT 2						W	I	of + plg fabric																
8	43	46					TROC									F	0	- shear zone						of	grain									
9	47	50					+ROC									W	1								slightly	changing								

px → weak or alignment

change

10 32 — passive fol.
98/ — trace of rock core
← contacts more altered
very dip 80/090 → 32/090

Magmatic fabric

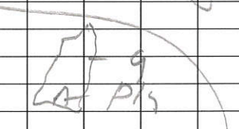
Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured sharp to gradational sharp gradational	planar curved irregular	chilled margin x-cutting relationship rock types	grain size modal grain size & modal	sharp gradational	planar curved irregular anastomosing weak strong		x-cutting with cpx oil	planar planar-linear linear anastomosing	isotropic weak moderate strong	0 1 2 3	n r s d ns nd	x-cutting relationship spacing 1 mm mineral name mineral shape mineral aspect ratio vesicle distribution	vein (<1cm) dike (>1cm) melt percolation vein	sharp gradational discordant concordant	planar curved irregular		x-cutting relationship composition	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	

U1415P
16R1

				trace							wavy margin						rs	vesicle flattening		cross cutting				85/090										
																	rd	vesicle alignment																
1	0	9.5		sub vertical			coarse grained											Middle	85/090				ol + plag fabric				N				- parallel to band		
2	10	17					med grained	trace							W	1			possible															
3	17.5	28		med to fine			grained	rock				fol 40/090			M	2			ol + plag				- elongate ol											
4	28	31					TROC				trace cpx					0		possible - coarse grained stuff																
5	31	35					TROC								W	1																		
6	35	51					"								W	1			40/090	- ol	+ plag		- ol more rounded + hopper											
7	52	71					"								W	1			possible	38/090		ol												
8	72	86		- hard to see											W	1			possible	34/090		ol	— ???											
9	86	105		Contact																														
10	107	121		- vertical				plag rich veins (1cm)								—		possible	vertical				& 80/090 - ol											
11	122	127		Contact with felsic sand seen in 10 vertical dip											W	1			ol +	-	roller		- co												

17R1	1	1	11		trace		- ~~[illegible]~~ large skel ol								W	1			75/090	-	~~[illegible]~~	ol - big												
	2	12	17			coarse									O	I																		
	3	18	26			med grain		not clear fabrics							W	1			79/90	-	very dubious													
	4	28	30.5												Possible				- cat tail															
	5	31	38				vertical -								W	1			90/090															

14R1	1	0	4			coarse grained		- no fabric							Possible				W1 - parallel to cut surface															
	2	5	14				- finer grained								W1				44/090		clear ol fabric													
	3	15	21				med grained								W1				low clear		ol - steep - effectively unorientated													
	4	23	30				finer grained								M	2			- not oriented		ol													
	5	31	35.5	CHANGE				sure cpx	above						M	2			- not oriented															
	6	37	76		Much more		plag rich		- [illegible]										- no fabric															
←	7	79	83	Contact		with fine grained gabbro			- Intrusive wavy										- un oriented				OI											
	8	84	94					0 + 7	Coarse grained contact two						OI																			
	9	95	103			fine grained		trace						M2					75/090	-	plag not cut													
	10	104	111				Med	coarse	trace						OI																			



fol hard to see

coarse grained

fault

coarse grained trace + fine grained gabbro

18 — 1/3 med grain tex — Less ol rich 678 → more gabbroic — 9/10 med grain rock

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margin	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)															
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition											
						gradational					anastomosing weak strong			anastomosing	strong	3	d	mineral shape		discordant	irregular													
																	ns	mineral aspect ratio		concordant														
																	nd	vesicle distribution																
																	rs	vesicle flattening																
																	rd	vesicle alignment																

1415P

196 1A 1	0	7.5													I	0																		
2	8.5	12													I	0																		
3	12.5	23													I	0																		
4	23	32													I	0																		
5	32	37													I	0																		
6	37.5	42													I	0																		
7	42	49													NI																			
8	49.5	58													O	+																		
9	58	65													M	2																		
10	65	65													W	1																		
20R 1	0	6													O	+																		
2	9	22													W	1																		
3	22.5	28.5													?	?																		
4	29	41													W	1	?																	
5	41.5	70													W	1	?																	
6	71	77													W	1																		
7	77	84.5													W	1																		
8	84.5	97.5													W	1																		
9	99	107													W	1																		
10	107.5	114.5													W	1																		
11	115	120													W	1																		
12	12.-	128													W	1																		
13	129.5	134													W	1																		
14	134.5	138.5													W	1																		

gabbroic from higher

ol gs cpx lit pm clast

— feroccratic plg banding in roller

ol cpx gabbro — ar 0(1)

— cp or prominent slen zone

Dissol leucocratic band — anastomosing in roller

pebbles

coarse grain tex

Possible weak ol-plg

— chilled

— top of weak zone of cataclasis

Rillers of tremolite

Rillers of tremolite

ol + plg

ol + plg

cataclasis

ol + plg

68/90

poss weak ol + plg

possible ol + plg

40/90 — ol + plg

ol + plg

ol + plg — slick

ol + plg 68/90

ol + plg 68/90

ol + plg

"

"

"

possible

soft

little dikes

Bottom of 9R1 J + top of 10R1 J = 2 – 14 P

Bottom 10R1 → 19R1 = 15 P →

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	core reference frame ARCHIVE HALF
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margin	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)															
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition											
						gradational					anastomosing weak strong			anastomosing	strong	3	d ns nd	mineral shape mineral aspect ratio vesicle distribution		discordant concordant	irregular													
																	rs	vesicle flattening																
																	rd	vesicle alignment																

14 P

2J R 2A

1	0	22	Coarse gr. Troc													W	1	Mafic				40/090												Weak
2	23	35					"									O	I																	
3	35	36					—									O	I	passive																
4	36.5	47.5														W	1	Ol rich				64/290												
5	48	69							Ol rich							W	1	Ol + px										86/90						
6	69.5	79														W	1											84/270						
7	79	87																84/90																
8	87	91.5														CRUMBS																		
9	91.5	103.5														~~W~~	3			Mafic		v.		steep				68/090						Mafic
10	104.5	111.5														Russe																		
11	111.5	121															O																	

2J G 1A

	0	2														W	1	Ol to																
1	3.5	12														W	1	Ol – to																
2	13	14																Russe																
3	19	20														M2		Ol to																
4	24	31.5														M2		Ol – to				40/090												
5																																		

2J R 1A

1	0	3.5														W	1	– small																
2	3.5	10.5														W	1					86/300												
3	11.5	17														I	0																	
4	17.5	30														I	0																	
5	30.5	35														W	±	—				?												
6	36	49														W	1	84/120																
7	50	59.5														W	1	maybe																
8	60	64.5														O	I																	
9	65.5	73.5														W	1					52/090												
10	74.5	99														I	0																	
11	100.5	114														W	1					50 – 090												
12	115.5	123.5														W	1					77/090												
13	124.5	131														W	1	Maybe																
14	132	137.5														W	1	maybe				steep						50/270						

Change to less Ol.

Ol gabbro

Maybe very felsic

Troc

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	core reference frame ARCHIVE HALF
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margin	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)															
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition											
						gradational					anastomosing			anastomosing	strong	3	d	mineral shape		discordant	irregular													
											weak						ns	mineral aspect ratio		concordant														
											strong						nd	vesicle distribution																
																	rs	vesicle flattening																
																	rd	vesicle alignment																
22R 2A																																		
1	1	13																																
2	14	22																																
3	23	34																																
4	35	56																																
5	57	74																																
6	75.5	84.5																																
7	85.5	98																																
8	98.5	115																																
9	116	124.5																																
10	125	128.5																																
11	129	133																																
23R 3A																																		
1	0	13																																
2	15	28																																
3	30	41																																
4	43	44																																
5	50	54																																
23R 1A	0	7																																
2	8	21.5																																
3	22	28																																
4	29.5	35																																
5	36	43																																
6	43	47																																
7	47	50																																
8	51	57																																
9	58	66																																
10	66	77																																
11	77	84																																
12	84	90.5																																
13	92	99																																
14	100	104.5																																
15	105	117																																
16	117	130.5																																
17	131	134																																
18	134	139																																

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured sharp to gradational sharp gradational	planar curved irregular	chilled margi x-cutting relationship rock types	grain size modal grain size & modal	sharp gradational	planar curved irregular anastomosing weak strong		x-cutting	planar planar-linear linear anastomosing	isotropic weak moderate strong	0 1 2 3	n r s d ns nd	x-cutting relationship spacing 1 mm mineral name mineral shape mineral aspect ratio vesicle distribution	vein (<1cm) dike (>1cm) melt percolation vein	sharp gradational discordant concordant	planar curved irregular		x-cutting relationship composition	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
14R																																		
																	rs	vesicle flattening																
23R																	rd	vesicle alignment																
29 1	0	12			plg rich																													
2	12	18																																
3	18	33																																
4	34	42																																
5	47.5	53																																
6	53	71																																
7	72	75																																
25G (1)	0	11																																
	11	18																																

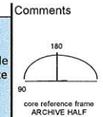
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	Sample	Top [cm]	Bottom	List of pieces	List of pieces	Intrusive	Intrusive	Intrusive Contact	Intrusive	Magmatic	Nature of	Geometry of	Thickness of	Comments (layering/banding)	MF Fabric geometry	MF intensity	MF intensity	MF sens	MF comments	Magmatic vein	Contact (magm	Geometry (magmatic	Thickness
2	345-U1415P-2G-2-A	0	31	#1															sand				
3	345-U1415P-2G-2-A	31	36	#2															gravel				
4	345-U1415P-2G-2-A	36	51.5	#3															pebbles				
5	345-U1415P-2G-2-A	51.5	57	#4											planar	weak	1		one pebble with a weak olivine foliation				
6	345-U1415P-2G-2-A	57	60.5	#5											planar	moderate	2		olivine foliation with almost tabular olivines				
7	345-U1415P-2G-2-A	60.5	68	#6												isotropic	0		basalt				
8	345-U1415P-3R-1-A	0	3.5	#1											planar	weak	1		possible weak olivine and plagioclase foliation				
9	345-U1415P-3R-1-A	3.5	11	#2												isotropic	0		radiating plagioclase?				
10	345-U1415P-3R-1-A	11	17.5	#3												isotropic	0						
11	345-U1415P-3R-1-A	17.5	21.5	#4											planar	moderate	2		olivine and plagioclase foliation with tabular olivines				
12	345-U1415P-3R-1-A	21.5	24.5	#5															can't tell, small pebbles				
13	345-U1415P-3R-1-A	24.5	30.5	#6												isotropic	0						
14	345-U1415P-3R-1-A	30.5	34.5	#7											planar	moderate	2		olivine and plagioclase foliation- small elongate clinopyroxene oikocrysts				
15	345-U1415P-3R-1-A	34.5	54	#10, #11, #12, #8, #9												isotropic	0						
16	345-U1415P-3R-1-A	54	59	#13												isotropic	0		gravel				
17	345-U1415P-3R-1-A	59	99	#14, #15, #16, #17, #18												isotropic	0						
18	345-U1415P-3R-1-A	99	114.5	#19												isotropic	0		gravel				
19	345-U1415P-3R-1-A	114.5	133.5	#20, #21, #22												isotropic	0						
20	345-U1415P-4G-1-A	0	3.5	#1												isotropic	0						
21	345-U1415P-4G-1-A	3.5	8.5	#2											planar	weak	1		olivine and plagioclase foliation				
22	345-U1415P-4G-1-A	8.5	18	#3						modal	sharp	planar	1.5	gabbronorite band within olivine gabbro	planar	weak	1		olivine plus plagioclase- foliation parallel to banding/layering				
23	345-U1415P-4G-1-A	18	29.5	#4									1	possible weak modal (olivine) banding/heterogeneous layering		isotropic	0						
24	345-U1415P-4G-1-A	29.5	37	#5										Heterogeneous modal variations		isotropic	0						
25	345-U1415P-4G-1-A	37	50.5	#6										Heterogeneous modal variations		isotropic	0						
26	345-U1415P-4G-1-A	50.5	62	#7										Heterogeneous modal variations		isotropic	0						
27	345-U1415P-4G-1-A	62	78	#8						grain siz	diffuse	curved	1	weak, steep, diffuse, leucocratic band and associated olivine rich band. meanc		weak	1						
28	345-U1415P-4G-1-A	62	78	#8												weak	1		olivine and plagioclase foliation (dip given in this line).. Banding dip given above				
29	345-U1415P-4G-1-A	78	82	#8						modal	diffuse	planar	1.5	possible shallowly dipping olivine rich layer	planar	weak	1		olivine and plagioclase foliation				
30	345-U1415P-4G-1-A	82	93.5	#8										more coarse grained modal banding	planar	weak	1		olivine and plagioclase foliation				
31	345-U1415P-4G-1-A	93.5	110	#9						grain siz	diffuse	curved	1	weak, steep, diffuse, leucocratic band and associated olivine rich band. meanc		isotropic	0						
32	345-U1415P-4G-1-A	110	126	#10						grain siz	diffuse	curved	1	weak, steep, diffuse, leucocratic band and associated ol	planar	weak	1						
33	345-U1415P-4G-1-A	110	126	#10															possible, weak, planar olivine foliation at bottom of sample- continues to piece 11				
34	345-U1415P-4G-1-A	126	141	#11										more homogeneous, but leucocratic band extends into t	planar	weak	1		possible olivine and plagioclas foliation				
35	345-U1415P-4G-2-A	0	21	#1						modal	diffuse	planar	18	weak modal layering; olivine gabbro above and gabbro below		isotropic	0						
36	345-U1415P-4G-2-A	21	24	#2															can't tell- chips				
37	345-U1415P-4G-2-A	24	35	#3												isotropic	0						
38	345-U1415P-5R-1-A	0	109	#1, #10, #2, #3, #4, #5, #6, #7, #8, #9												isotropic	0						
39	345-U1415P-5R-1-A	109	121.5	#11												weak	1		possible olivine and plagioclase foliation				
40	345-U1415P-5R-1-A	121.5	142	#12, #13, #14												isotropic	0						
41	345-U1415P-5R-2-A	0	14	#1												isotropic	0						
42	345-U1415P-5R-2-A	14	24	#2										change to finer grained hopper olivine crystals; hint of heterogeneity in small few	weak patches		1		hint of olivine foliation				
43	345-U1415P-5R-2-A	24	70.5	#3, #4, #5, #6, #7												isotropic	0						
44	345-U1415P-6R-1-A	0	31	#1, #2, #3, #4												isotropic	0						
45	345-U1415P-6R-1-A	31	43.5	#5						modal	diffuse	irregular	2	hint of irregular modal layering-leucocratic layer		isotropic	0						
46	345-U1415P-6R-1-A	43.5	63	#6										very weak hint of diffuse, near vertical leucocratic layer		isotropic	0		possible sub-vertical plagioclase foliation recorded by plagioclase in the pyroxene oikocrysts				
47	345-U1415P-6R-1-A	63	70.5	#7										olivine gabbro		isotropic	0						
48	345-U1415P-6R-1-A	70.5	72.5	#7						modal	diffuse	planar	2	troctolitic layer		isotropic	0						
49	345-U1415P-6R-1-A	72.5	85	#7										olivine gabbro		isotropic	0						
50	345-U1415P-6R-1-A	85	107	#7										sub- vertical, curving, irregular leucocratic and olivine banding (plagioclase ar		isotropic	0						
51	345-U1415P-6R-1-A	107	119.5	#8										curving (more shallow dip towards bottom of sample- 45/090), sub- vertical, irr		weak	1		possible olivine and plagioclase foliation parallel to the layering				
52	345-U1415P-6R-1-A	119.5	125.5	#9										sub- vertical, irregular leucocratic banding (plagioclase and pyroxene)- starts i		weak	1		plagioclase and olivine foliation in finer grained olivine gabbro				
53	345-U1415P-6R-1-A	125.5	140.5	#10						modal	diffuse	irregular	1	sub- vertical, irregular leucocratic banding (plagioclase and pyroxene)- starts i		isotropic	0						
54	345-U1415P-6R-1-A	125.5	140.5	#10																clinopyroxene vein		irregular	0.5
55	345-U1415P-6R-2-A	0	19	#1												isotropic	0						
56	345-U1415P-6R-2-A	19	23	#2												isotropic	0						
57	345-U1415P-6R-2-A	23	31	#3						modal	diffuse	irregular		boundary between olivine gabbro above and gabbro below- could be intrusive-		isotropic	0						
58	345-U1415P-6R-2-A	31	34.5	#3										gabbro		isotropic	0						
59	345-U1415P-6R-2-A	34.5	44.5	#4						grain size and modal				leucocratic sample with very fine grained plagioclase and larger, elongate (but		isotropic	0						
60	345-U1415P-6R-2-A	44.5	55	#5						grain size and modal				leucocratic sample with very fine grained plagioclase and larger, elongate (but		isotropic	0						
61	345-U1415P-6R-2-A	55	57	#6										continuation of leucocratic sample above		isotropic	0						
62	345-U1415P-6R-2-A	57	63	#6										olivine gabbro		isotropic	0						
63	345-U1415P-6R-2-A	63	69	#7												isotropic	0		pebbles				
64	345-U1415P-6R-2-A	69	76.5	#8										contact back with gabbro/leucocratic layer - ol gabbro above- gabbro/leucocra		isotropic	0						
65	345-U1415P-6R-2-A	76.5	80.5	#9										trace of leucocratic banding	planar	weak	1		olivine foliation				
66	345-U1415P-6R-2-A	80.5	87.5	#10												isotropic	0						
67	345-U1415P-6R-2-A	87.5	104	#11												isotropic	0						
68	345-U1415P-6R-2-A	104	108.5	#12												isotropic	0						
69	345-U1415P-6R-2-A	108.5	118	#13										leucocratic banding in one piece		isotropic	0		rubble				
70	345-U1415P-6R-2-A	118	122.5	#14						grain siz	diffuse	planar	0.5	leucocratic banding with large orthopyroxene in the midc	planar	strong	3		plagioclase foliation				
71	345-U1415P-6R-2-A	122.5	131.5	#15										leucocratic sample- part of the banding?		isotropic	0						
72	345-U1415P-7R-1-A	0	7	#1										hint of heterogeneous leucocratic banding		isotropic	0						
73	345-U1415P-7R-1-A	7	14.5	#2										hint of heterogeneous leucocratic banding		isotropic	0		pebbles				
74	345-U1415P-7R-1-A	14.5	22.5	#3												isotropic	0						
75	345-U1415P-7R-1-A	22.5	29	#4										hint of heterogeneous leucocratic banding		isotropic	0						
76	345-U1415P-7R-1-A	29	36	#5										hint of heterogeneous leucocratic banding		isotropic	0						
77	345-U1415P-7R-1-A	36	41	#6										start of leucocratic banding seen in pieces below	planar	weak	1		olivine foliation				
78	345-U1415P-7R-1-A	41	54	#7						grain siz	diffuse	planar	1	sub vertical cm scale leucocratic banding with opx in leu	planar	weak	1		olivine and plagioclase foliation				

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
79	345-U1415P-7R-1-A	54	59	#8						grain siz	diffuse	planar	1.5	steeply dipping leucocratic band on side of sample; with	planar	weak	1		olivine and plagioclase foliation				
80	345-U1415P-7R-1-A	59	80.5	#8												isotropic	0						
81	345-U1415P-7R-1-A	80.5	84.5	#9												isotropic	0						
82	345-U1415P-7R-1-A	84.5	87.5	#10												isotropic	0						
83	345-U1415P-7R-1-A	87.5	120	#11										heterogeneous- possible gently dipping banding		isotropic	0						
84	345-U1415P-7R-1-A	120	131	#12										heterogeneous		isotropic	0						
85	345-U1415P-7R-1-A	131	139	#13										heterogeneous		isotropic	0						
86	345-U1415P-7R-2-A	0	9.5	#1												isotropic	0		possible weak olivine alignment				
87	345-U1415P-7R-2-A	9.5	56	#2										fine grained enclave or irregular layer at 34 to 43 cm in sample- possible steep		isotropic	0						
88	345-U1415P-7R-2-A	56	64.5	#3												isotropic	0						
89	345-U1415P-7R-2-A	64.5	70	#4												isotropic	0						
90	345-U1415P-7R-2-A	70	77	#5										possible weak leucocratic banding		isotropic	0						
91	345-U1415P-7R-2-A	77	86	#6										heterogeneous olivine gabbro		isotropic	0						
92	345-U1415P-7R-2-A	86	90.5	#7										possible weak leucocratic banding		isotropic	0						
93	345-U1415P-7R-2-A	90.5	96.5	#8										possible weak leucocratic banding	planar	weak	1		olivine foliation				
94	345-U1415P-8R-1-A	0	24.5	#1										heterogeneous olivine gabbro		isotropic	0						
95	345-U1415P-8R-1-A	24.5	57	#2										heterogeneous olivine gabbro		isotropic	0						
96	345-U1415P-8R-1-A	57	60	#3										heterogeneous olivine gabbro		isotropic	0						
97	345-U1415P-8R-1-A	60	66	#4										heterogeneous olivine gabbro		isotropic	0						
98	345-U1415P-8R-1-A	66	78	#5										start of near vertical, but wavy, dipping leucocratic band	planar	weak	1		possibly plagioclase foliation in fine grained material				
99	345-U1415P-8R-1-A	78	90.5	#6						grain siz	diffuse	planar	2.5	Moderately dipping, planar leuocoratic band with opx in the centre		isotropic	0						
100	345-U1415P-8R-1-A	90.5	98	#7						grain siz	diffuse	curved	2	Near vertical leucocratic band on margin of sample		isotropic	0						
101	345-U1415P-8R-1-A	98	132.5	#8						grain siz	diffuse	curved	2	Near vertical, but wavy, dipping leucocratic band running through sample; with		isotropic	0						
102	345-U1415P-8R-1-A	132.5	146	#9						grain siz	diffuse	curved	3	Near vertical, but wavy, dipping leucocratic bands (doublet) running through sa		isotropic	0						
103	345-U1415P-8R-2-A	0	28	#1						grain siz	sharp to	planar	4	Continuation of leucocratic banding seen at bottom of 8-R1.planar, but gently c		isotropic	0		random orientation of plagioclase in pyroxene oikocryst				
104	345-U1415P-8R-2-A	28	33.5	#2												isotropic	0		pebbles				
105	345-U1415P-8R-2-A	33.5	44.5	#3						grain siz	sharp to	planar	4	Continuation of leucocratic banding seen in piece 1, but one plagioclase band		isotropic	0						
106	345-U1415P-9R-1-A	0	18.5	#1												isotropic	0						
107	345-U1415P-9R-1-A	18.5	29	#2												isotropic	0						
108	345-U1415P-9R-1-A	29	42	#3										hint of leucocratic banding - plag rich patches in heterogeneous olivine gabbro		isotropic	0						
109	345-U1415P-9R-1-A	42	55	#4										hint of leucocratic banding - plag rich patches in heterogeneous olivine gabbro		isotropic	0						
110	345-U1415P-9R-1-A	55	68	#5										hint of leucocratic banding - plag rich patches in heterogeneous olivine gabbro		isotropic	0						
111	345-U1415P-9R-1-A	68	88.5	#6										hint of leucocratic banding - plag rich patches in heterogeneous olivine gabbro		isotropic	0						
112	345-U1415P-9R-1-A	88.5	93	#7												isotropic	0						
113	345-U1415P-9R-1-A	93	123.5	#8						grain siz	diffuse	planar	3	moderately dipping diffuse leucocratic banding		isotropic	0						
114	345-U1415P-9R-1-A	123.5	128.5	#9												isotropic	0						
115	345-U1415P-9R-1-A	128.5	141.5	#10												isotropic	0						
116	345-U1415P-9R-2-A	0	8.5	#1												isotropic	0						
117	345-U1415P-9R-2-A	8.5	12	#2										plagioclase reaction halo? around olivine		isotropic	0		coble				
118	345-U1415P-9R-2-A	12	24.5	#3											planar	weak	1		possible weak olivine foliation				
119	345-U1415P-9R-2-A	25	46	#4, #5												isotropic	0						
120	345-U1415P-9R-2-A	45.5	52	#4, #5										heterogeneous- possible very weak leucocratic modal banding		isotropic	0						
121	345-U1415P-9R-2-A	52	66.5	#6										heterogeneous- possible very weak leucocratic modal banding		isotropic	0						
122	345-U1415P-9R-2-A	66.5	70.5	#7												isotropic	0						
123	345-U1415P-9R-2-A	70.5	80	#8										heterogeneous- possible very weak leucocratic modal banding		isotropic	0						
124	345-U1415P-10R-1-A	0	7.5	#1												isotropic	0						
125	345-U1415P-10R-1-A	7.5	19	#2										patch of plagioclase surrounding olivine		isotropic	0						
126	345-U1415P-10R-1-A	19	31.5	#3										patch of heterogeneous material		isotropic	0						
127	345-U1415P-10R-1-A	31.5	40.5	#4												isotropic	0						
128	345-U1415P-10R-1-A	40.5	47.5	#5												isotropic	0						
129	345-U1415P-10R-1-A	47.5	55.5	#6						grain siz	sharp to	planar	0.5	sub vertical plagioclase rich banding		isotropic	0						
130	345-U1415P-10R-1-A	55.5	68	#7										heterogenous olivine gabbro		isotropic	0						
131	345-U1415P-10R-1-A	68	82	#8										heterogenous olivine gabbro		isotropic	0						
132	345-U1415P-10R-1-A	82	89.5	#9										heterogenous olivine gabbro		isotropic	0						
133	345-U1415P-10R-1-A	89.5	102	#10												isotropic	0						
134	345-U1415P-10R-1-A	102	112	#11										patch of heterogeneous material		isotropic	0						
135	345-U1415P-10R-1-A	112	121	#12											planar	weak	1		olivine foliation				
136	345-U1415P-10R-1-A	121	134	#13												isotropic	0						
137	345-U1415P-10R-1-A	134	143	#14												isotropic	0						
138	345-U1415P-10R-2-A	0	12.5	#1										Heterogeneous- maybe weak, steep, leucocratic banding		isotropic	0						
139	345-U1415P-10R-2-A	12.5	21	#2											planar	weak	1		possible weak olivine foliation in one piece				
140	345-U1415P-11R-1-A	0	7.5	#1										Heterogeneous, patchy modal variation-lecocratic patches		isotropic	0						
141	345-U1415P-11R-1-A	7.5	17.5	#2										Heterogeneous, patchy modal variation-lecocratic patch	planar	weak	1		olivine foliation in finer grained olivine gabbro				
142	345-U1415P-11R-1-A	17.5	22.5	#3															pebbles can't tell				
143	345-U1415P-11R-1-A	22.5	29.5	#4										Heterogeneous, patchy modal variation-lecocratic patches		isotropic	0						
144	345-U1415P-11R-1-A	29.5	38	#5										Heterogeneous, patchy modal variation-lecocratic patches		isotropic	0						
145	345-U1415P-11R-1-A	38	48	#6										Heterogeneous, patchy modal variation-lecocratic patches		isotropic	0						
146	345-U1415P-11R-1-A	48	62	#7										More distinct plagioclase banding; still irregular		isotropic	0						
147	345-U1415P-11R-1-A	62	73.5	#8										Heterogeneous, patchy modal variation-lecocratic patches		isotropic	0						
148	345-U1415P-11R-1-A	73.5	82	#9										Heterogeneous, patchy modal variation-lecocratic patches		isotropic	0						
149	345-U1415P-11R-1-A	82	93	#10										Heterogeneous, patchy modal variation-lecocratic patches		isotropic	0						
150	345-U1415P-11R-1-A	93	102	#11										Heterogeneous, patchy modal variation-lecocratic patches		isotropic	0						
151	345-U1415P-11R-1-A	102	107	#12										Heterogeneous, patchy modal variation-lecocratic patches		isotropic	0						
152	345-U1415P-11R-1-A	107	114.5	#13										Heterogeneous, patchy modal variation-lecocratic patches		isotropic	0						
153	345-U1415P-11R-1-A	114.5	122	#14										heterogeneous leucocratic banding with opx		isotropic	0						
154	345-U1415P-11R-1-A	122	127	#15										Heterogeneous, patchy modal variation-lecocratic patches		isotropic	0						
155	345-U1415P-11R-1-A	127	135.5	#16										moderately steep leucocratic banding		isotropic	0						
156	345-U1415P-11R-1-A	135.5	139.5	#17										leucocratic modal banding		isotropic	0						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
157	345-U1415P-11R-1-A	139.5	149	#18										Heterogeneous, patchy modal variation-leucocratic banding		isotropic	0						
158	345-U1415P-11R-2-A	0	10	#1										Heterogeneous, patchy modal variation-leucocratic banding		isotropic	0						
159	345-U1415P-11R-2-A	10	19	#2										Heterogeneous, patchy modal variation-leucocratic banding		isotropic	0						
160	345-U1415P-11R-2-A	19	24	#3										Heterogeneous, patchy modal variation-leucocratic banding		isotropic	0						
161	345-U1415P-11R-2-A	24	27	#4															pebbles				
162	345-U1415P-11R-2-A	27	36.5	#5										Heterogeneous, patchy modal variation-leucocratic banding		isotropic	0						
163	345-U1415P-12R-1-A	0	11	#1										Heterogeneous, patchy modal variation-leucocratic banding		isotropic	0						
164	345-U1415P-12R-1-A	11	19.5	#2										Heterogeneous, patchy modal variation-leucocratic banding		isotropic	0						
165	345-U1415P-12R-1-A	19.5	25	#3												isotropic	0						
166	345-U1415P-12R-1-A	25	31.5	#4										Heterogeneous, patchy modal variation-leucocratic banding		isotropic	0						
167	345-U1415P-12R-1-A	31.5	36.5	#5										Heterogeneous, patchy modal variation-leucocratic banding		isotropic	0						
168	345-U1415P-12R-1-A	36.5	41.5	#6										Heterogeneous, patchy modal variation-leucocratic banding		isotropic	0						
169	345-U1415P-12R-1-A	41.5	55	#7										weak modal sub-vertical leucocratic banding		isotropic	0						
170	345-U1415P-12R-1-A	55	62	#8										Heterogeneous, patchy modal variation-leucocratic banding		isotropic	0						
171	345-U1415P-12R-1-A	62	67.5	#9										Heterogeneous, patchy modal variation-leucocratic ban	planar	weak	1		possible olivine and plagioclase foliation				
172	345-U1415P-12R-1-A	67.5	74.5	#10										Heterogeneous, patchy modal variation-leucocratic banding		isotropic	0						
173	345-U1415P-12R-1-A	74.5	87	#11									1	weak, heterogeneous ~ vertical modal banding		isotropic	0						
174	345-U1415P-12R-1-A	87	94.5	#12									0.5	weak, heterogeneous ~ vertical plagioclase modal banding		isotropic	0						
175	345-U1415P-12R-1-A	94.5	110	#13						grain siz	diffuse	planar	2	heterogeneous ~ vertical plagioclase and olivine modal banding		isotropic	0						
176	345-U1415P-12R-1-A	110	133	#14						grain siz	diffuse	planar	3	Vertical leucocratic olivine and plagioclase modal banding		isotropic	0						
177	345-U1415P-12R-1-A	133	145.5	#15										Heterogeneous, patchy modal variation-leucocratic banding		isotropic	0						
178	345-U1415P-13R-1-A	0	9.5	#1										Heterogeneous- small patches	planar	weak	1		olivine foliation				
179	345-U1415P-13R-1-A	9.5	21.5	#2										Heterogeneous- small patches	planar	weak	1		olivine foliation				
180	345-U1415P-13R-1-A	21.5	32	#3										Heterogeneous		isotropic	0						
181	345-U1415P-13R-1-A	32	39	#4										Heterogeneous		isotropic	0						
182	345-U1415P-13R-1-A	39	45.5	#5										Heterogeneous		isotropic	0						
183	345-U1415P-13R-1-A	45.5	59.5	#6										Heterogeneous		isotropic	0						
184	345-U1415P-13R-1-A	59.5	71.5	#7										Heterogeneous		isotropic	0						
185	345-U1415P-13R-1-A	71.5	78	#8										Heterogeneous		isotropic	0						
186	345-U1415P-13R-1-A	78	85.5	#9										Heterogeneous		isotropic	0						
187	345-U1415P-13R-1-A	85.5	124	#10									8	Heterogeneous; possible weak olivine/plagioclase banding		isotropic	0						
188	345-U1415P-13R-1-A	124	134.5	#11									4	Heterogeneous; weak plagioclase and olivine banding		isotropic	0						
189	345-U1415P-13R-1-A	134.5	140.5	#12										Heterogeneous; possibly similar to 10 and 11		isotropic	0						
190	345-U1415P-13R-2-A	0	18	#1										Heterogeneous		isotropic	0						
191	345-U1415P-13R-2-A	18	29.5	#2										Heterogeneous		isotropic	0						
192	345-U1415P-13R-2-A	29.5	36	#3										Heterogeneous		isotropic	0						
193	345-U1415P-13R-2-A	36	40	#4										Heterogeneous		isotropic	0						
194	345-U1415P-13R-2-A	40	50	#5						grain siz	diffuse	planar	0.5	Steep leucocratic modal banding		isotropic	0		possible weak olivine foliation parallel to plagioclase banding; could be serpentine foliation				
195	345-U1415P-13R-2-A	50	61.5	#6										Hint of irregular, leucocratic modal banding		isotropic	0						
196	345-U1415P-13R-2-A	61.5	69	#7										Hint of irregular, leucocratic modal banding		isotropic	0						
197	345-U1415P-13R-2-A	69	72	#8												isotropic	0		pebbles				
198	345-U1415P-13R-2-A	72	85.5	#9										Hint of irregular, leucocratic modal banding		isotropic	0		possible weak olivine foliation				
199	345-U1415P-13R-2-A	85.5	95.5	#10										Irregular, leucocratic modal banding		isotropic	0						
200	345-U1415P-13R-2-A	95.5	103	#11												isotropic	0		rubble				
201	345-U1415P-13R-2-A	103	113	#12										heterogeneous- possibly sub horizontal banding		isotropic	0						
202	345-U1415P-14R-1-A	0	10	#1										heterogeneous, weak, sub-horizontal leucocratic banding		isotropic	0						
203	345-U1415P-14R-1-A	10	16	#2												weak	1		possible weak, vertical, olivine foliation				
204	345-U1415P-14R-1-A	16	26	#3						grain siz	sharp	planar	5	fine grained troctolitic layer, between leucocratic bands		moderate	2		olivine foliation parallel to modal layeyering				
205	345-U1415P-14R-1-A	26	33.5	#4										weak leucocratic banding		isotropic	0						
206	345-U1415P-14R-1-A	33.5	64	#5												isotropic	0						
207	345-U1415P-14R-1-A	64	71.5	#6												isotropic	0						
208	345-U1415P-14R-1-A	71.5	81.5	#7												isotropic	0						
209	345-U1415P-14R-1-A	81.5	93.5	#8												isotropic	0						
210	345-U1415P-14R-1-A	93.5	97.5	#9												isotropic	0						
211	345-U1415P-14R-1-A	97.5	108	#10										more heterogeneous again, diffuse leucocratic banding		isotropic	0						
212	345-U1415P-14R-1-A	108	115	#11										diffuse leucocratic banding		isotropic	0						
213	345-U1415P-14R-1-A	115	129	#12										steep diffuse leucocratic banding		isotropic	0						
214	345-U1415P-14R-2-A	0	18	#1										steep diffuse leucocratic banding		isotropic	0						
215	345-U1415P-14R-2-A	18	47	#2										Sub-horizontal, irregular, leucocratic modal banding		isotropic	0						
216	345-U1415P-15R-1-A	0	10	#1						grain siz	diffuse	planar	1	weak, vertical, leucocratic banding		isotropic	0		possible vertical weak olivine fabric				
217	345-U1415P-15R-1-A	10	16.5	#2									0.5	weak leucocratic banding		isotropic	0						
218	345-U1415P-15R-1-A	16.5	22	#3									1.5	weak leucocratic banding		isotropic	0						
219	345-U1415P-15R-1-A	22	28	#4											planar	weak	1		olivine foliation				
220	345-U1415P-15R-1-A	28	34	#5												isotropic	0						
221	345-U1415P-15R-1-A	34	39	#6												isotropic	0						
222	345-U1415P-15R-1-A	39	43	#7										change to troctolites like unit 3 in hole J	planar	weak	1		olivine and plagioclase foliation; olivine crystals slightly elongate				
223	345-U1415P-15R-1-A	43	46.5	#8												isotropic	0						
224	345-U1415P-15R-1-A	46.5	50	#9											planar	weak	1						
225	345-U1415P-16R-1-A	0	10	#1						grain siz	diffuse	irregular	2.5	sub vertical, coarse grained leucocratic enclave with lar	planar	weak	1						
226	345-U1415P-16R-1-A	0	10	#1												weak	1		olivine and plagioclase foliation parallel to the banding, foliation- slightly oblique to the enclave/banding				
227	345-U1415P-16R-1-A	10	17	#2											planar	weak	1		possible olivine foliation				
228	345-U1415P-16R-1-A	17	28	#3												moderate	2		olivine and plagioclase foliation- elongate olivine, finer grained				
229	345-U1415P-16R-1-A	28	31	#4															pebble				
230	345-U1415P-16R-1-A	31	35	#5											planar	weak	1		olivine foliation				
231	345-U1415P-16R-1-A	35	51.5	#6											planar	weak	1		olivine and plagioclase foliation-olivine more rounded-but hopper like				
232	345-U1415P-16R-1-A	51.5	72	#7											planar	weak	1		possible olivine foliation				
233	345-U1415P-16R-1-A	72	86	#8											planar	weak	1		possible olivine foliation				
234	345-U1415P-16R-1-A	86	98	#9						modal	sharp to	curved		contact between troctolite above and anorthositic materi	planar	weak	1						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
235	345-U1415P-16R-1-A	98	106.5	#9										anothositic		isotropic	0						
236	345-U1415P-16R-1-A	106.5	121.5	#10						grain siz	diffuse	planar	1	vertical anothositic band/vein	planar	weak	1		possible vertical olivine foliation				
237	345-U1415P-16R-1-A	121.5	126.5	#11						grain siz	diffuse	planar	1	vertical anothositic band/vein- continuation of piece 10	planar	weak	1		olivine foliation				
238	345-U1415P-17R-1-A	0	11.5	#1											planar	weak	1		olivine and plagioclase foliation				
239	345-U1415P-17R-1-A	11.5	17.5	#2												isotropic	0						
240	345-U1415P-17R-1-A	17.5	27.5	#3											planar	weak	1		questionable olivine foliation				
241	345-U1415P-17R-1-A	27.5	30.5	#4															pebble, can't tell				
242	345-U1415P-17R-1-A	30.5	38.5	#5											planar	weak	1		olivine and plagioclase foliation				
243	345-U1415P-18R-1-A	0	5.5	#1												isotropic	0		possible weak olivine foliation				
244	345-U1415P-18R-1-A	5.5	15	#2											planar	weak	1		clear olivine foliation				
245	345-U1415P-18R-1-A	15	23	#3											planar	weak	1		less clear olivine foliqation				
246	345-U1415P-18R-1-A	23	31	#4											planar	moderate	2		olivine foliation				
247	345-U1415P-18R-1-A	31	37	#5											planar	moderate	2		olivine foliation				
248	345-U1415P-18R-1-A	37	77.5	#6										much more plagioclase rich- near cotectic proportions		isotropic	0						
249	345-U1415P-18R-1-A	77.5	78.5	#7			sharp	planar	contact of fine grained olivine gabbro (top) an					olivine gabbro	planar	moderate	2		plagioclase and olivine foliation				
250	345-U1415P-18R-1-A	78.5	84	#7										cotectic troctolite		isotropic	0						
251	345-U1415P-18R-1-A	84	95	#8												isotropic	0						
252	345-U1415P-18R-1-A	95	104	#9										back to finer grained, more olivine rich troctolite- tip of a	planar	moderate	2		olivine foliation				
253	345-U1415P-18R-1-A	104	112	#10												isotropic	0						
254	345-U1415P-19G-1-A	0	8	#1										olivine gabbro from higher in the section		isotropic	0						
255	345-U1415P-19G-1-A	8	12.5	#2										olivine gabbro from higher in the section		isotropic	0						
256	345-U1415P-19G-1-A	12.5	23	#3										olivine gabbro from higher in the section		isotropic	0						
257	345-U1415P-19G-1-A	23	32	#4										olivine gabbro from higher in the section		isotropic	0						
258	345-U1415P-19G-1-A	32	37.5	#5										olivine gabbro from higher in the section; possible leucocratic banding		isotropic	0						
259	345-U1415P-19G-1-A	37.5	41.5	#6												isotropic	0		pebbles				
260	345-U1415P-19G-1-A	41.5	49	#7										cotectic troctolite	planar	weak	1		possible weak olivine and plagioclase foliation				
261	345-U1415P-19G-1-A	49	58	#8												isotropic	0						
262	345-U1415P-19G-1-A	58	61	#9										olivine rich troctolite	planar	moderate	2		olivine and plagioclase foliation				
263	345-U1415P-19G-1-A	61	65	#10										olivine rich troctolite	planar	weak	1		olivine and plagioclase foliation				
264	345-U1415P-20R-1-A	0	9	#1												isotropic	0						
265	345-U1415P-20R-1-A	9	22.5	#2											planar	weak	1		questionable olivine and plagioclase foliation				
266	345-U1415P-20R-1-A	22.5	29	#3												isotropic	0						
267	345-U1415P-20R-1-A	29	41	#4											planar	weak	1		questionable olivine and plagioclase foliation				
268	345-U1415P-20R-1-A	41	70.5	#5											planar	weak	1		questionable olivine and plagioclase foliation				
269	345-U1415P-20R-1-A	70.5	76.5	#6											planar	weak	1		questionable olivine and plagioclase foliation				
270	345-U1415P-20R-1-A	76.5	85	#7											planar	weak	1		questionable olivine and plagioclase foliation				
271	345-U1415P-20R-1-A	85	98	#8											planar	weak	1		questionable olivine and plagioclase foliation				
272	345-U1415P-20R-1-A	98	107.5	#9											planar	weak	1		questionable olivine and plagioclase foliation				
273	345-U1415P-20R-1-A	107.5	114.5	#10											planar	weak	1		questionable olivine and plagioclase foliation				
274	345-U1415P-20R-1-A	114.5	121.5	#11											planar	weak	1		questionable olivine and plagioclase foliation				
275	345-U1415P-20R-1-A	121.5	128.5	#12											planar	weak	1		questionable olivine and plagioclase foliation				
276	345-U1415P-20R-1-A	128.5	134	#13											planar	weak	1		questionable olivine and plagioclase foliation				
277	345-U1415P-20R-1-A	134	138	#14											planar	weak	1		pebbles				
278	345-U1415P-20R-2-A	0	23	#1											planar	weak	1		possible olivine and plagioclase foliation				
279	345-U1415P-20R-2-A	23	35	#2												isotropic	0						
280	345-U1415P-20R-2-A	35	38	#3												isotropic	0						
281	345-U1415P-20R-2-A	38	47.5	#4											planar	weak	1		olivine and plagioclase foliation				
282	345-U1415P-20R-2-A	47.5	69	#5											planar	weak	1		olivine and plagioclase foliation				
283	345-U1415P-20R-2-A	69	79	#6											planar	weak	1		possible olivine and plagioclase foliation				
284	345-U1415P-20R-2-A	79	86.5	#7											planar	weak	1		possible olivine and plagioclase foliation				
285	345-U1415P-20R-2-A	86.5	91	#8															pebbles				
286	345-U1415P-20R-2-A	91	104.5	#9											planar	weak	1		possible olivine and plagioclase foliation				
287	345-U1415P-20R-2-A	104.5	111.5	#10															rubble				
288	345-U1415P-20R-2-A	111.5	120.5	#11												isotropic	0						
289	345-U1415P-21G-1-A	0	3.5	#1											planar	weak	1		olivine and plagioclase foliation				
290	345-U1415P-21G-1-A	3.5	13	#2											planar	weak	1		olivine and plagioclase foliation				
291	345-U1415P-21G-1-A	13	18.5	#3															rubble				
292	345-U1415P-21G-1-A	18.5	23.5	#4											planar	moderate	2		olivine and plagioclase foliation				
293	345-U1415P-21G-1-A	23.5	32	#5											planar	weak	1		olivine and plagioclase foliation				
294	345-U1415P-22R-1-A	0	4	#1											planar	weak	1		olivine and plagioclase foliation				
295	345-U1415P-22R-1-A	4	12	#2											planar	weak	1		olivine and plagioclase foliation				
296	345-U1415P-22R-1-A	12	17.5	#3												isotropic	0						
297	345-U1415P-22R-1-A	17.5	30.5	#4												isotropic	0						
298	345-U1415P-22R-1-A	30.5	36	#5											planar	weak	1		questionable olivine and plagioclase foliation				
299	345-U1415P-22R-1-A	36	50	#6											planar	weak	1		olivine and plagioclase foliation				
300	345-U1415P-22R-1-A	50	60	#7											planar	weak	1		questionable olivine and plagioclase foliation				
301	345-U1415P-22R-1-A	60	65.5	#8												isotropic	0		roller				
302	345-U1415P-22R-1-A	65.5	74.5	#9											planar	weak	1		olivine and plagioclase foliation				
303	345-U1415P-22R-1-A	74.5	100.5	#10												isotropic	0						
304	345-U1415P-22R-1-A	100.5	115.5	#11											planar	weak	1		olivine and plagioclase foliation				
305	345-U1415P-22R-1-A	115.5	124.5	#12											planar	weak	1		olivine and plagioclase foliation				
306	345-U1415P-22R-1-A	124.5	132	#13											planar	weak	1		questionable olivine and plagioclase foliation				
307	345-U1415P-22R-1-A	132	140	#14											planar	weak	1		questionable olivine and plagioclase foliation				
308	345-U1415P-22R-2-A	0	14.5	#1											planar	weak	1		questionable olivine and plagioclase foliation				
309	345-U1415P-22R-2-A	14.5	23.5	#2											planar	weak	1		olivine and plagioclase foliation				
310	345-U1415P-22R-2-A	24	35.5	#3, #4											planar	weak	1		olivine and plagioclase foliation				
311	345-U1415P-22R-2-A	35	57.5	#3, #4											planar	weak	1		olivine and plagioclase foliation				
312	345-U1415P-22R-2-A	57.5	75.5	#5											planar	weak	1		questionable olivine and plagioclase foliation				

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)															
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship composition	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved													
						gradational					anastomosing weak strong			anastomosing	strong	3	d ns nd	mineral shape mineral aspect ratio vesicle distribution		discordant concordant	irregular													
																	rs	vesicle flattening																
																	rd	vesicle alignment																
U1415N 1R1A																																		
1	0	5.5	B			Ol + cpx phyric basalt										0																		
2	6.5	-9	B			fine grained basalt										0																		
3	9.5	-12	B			" "										0																		
4	12.5	-17				plag phyric with rare ol										0																		
5	18.5	-23				cpx + ol phyric — diabase										0																		
6	25.5	-29				" "										0																		
7	29	-33				fine grained basalt										0																		
8	35	-44				diabase cpx plag ol										0		— hint of alignment of xstals																
9	45.5	-51.5				" "										0																		
89 — 10	52.5	-55				" " Basalt with										0		with trachea																
11	55.5	-60.5	B			Basalt with large plag xes										0																		
12	62	-66	D			Altered + veined version of 9										0																		
13	69	70	B			Like 4 — sparse ol phenos in B seat										0																		
90																																		
U1415N 2R1A																																		
91 — 1	0	6	D/B			Diabase with ol xenos — fresh interior										0																		
2	8	10	D			— small xen. basalt										0																		
3	11	17	D/B			Frags — phyric basalt										0																		
4	17.5	22	D			ALTERED ol basalt OD.										0																		
U1415N 3R1A																																		
1	0	3	B			— ol + cpx basalt										0																		
2	5	14	D			Same as 4 above D — altered ol basalt										0																		
3	16	18	D			" " " "										0																		
4	19	23	B			ol + cpx basalt										0		— hint of alignment of xstals																
5	24.5	27	B/D			" " " "										0																		
6	27.5	34	B			ol + cpx + plag										0																		
7	35	39	"			" " "										0																		
8	39	46	B			" " "										0																		

Checked 23/1/13

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margin	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)															
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship composition	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved													
						gradational					anastomosing weak strong			anastomosing	strong	3	d	mineral shape		discordant	irregular													
																	ns	mineral aspect ratio		concordant														
																	nd	vesicle distribution																
																	rs	vesicle flattening																
																	rd	vesicle alignment																

K = G

1415K
1-4 MUD + GRAVEL
2G 5A

87 1 0 12.5 — Small pebbles of basalt + fine grained gabbro I 0 — ol least ol phenos — fresh
2 12.5 16.5 → Skeletal ol + oxides = Myrmekite — altered.
3 18.5 - 25 Heavily altered + varied gabbro I 0
88 4 25 25.5 Basalt color

U1415N

4R 1A 1 0 4 D — Dk Sp — vesic I 0
2 6.5 9.5 B ol crystals Basalt I 0
92 3 11.5 16 B Basalt few phenos I 0 ← Flow — microlites — E.
4 16.5 18 B Basalt I 0
5 19.5 23 M micro gabbro I 0
6 26 29 M " 0
7 31 - 35 M " 0
8 35 - 38 " 0
9 38 - 41.5 B Basalt 0
10 41.5 - 44.5 B micro gabbro 0
11 45.5 - 49 B Basalt I 0
12 49 - 57 M micro gabbro 0 → Weak — Anorthosite
93

56 1A 0 8 D Some fine grained ophitic of K MBS ol phenos → DIT + OTHER
8 15 D
15.5 20.5 B — ol + plg + Cpx
94 21 24 micro gabbro like 12

Microlites
90 Altered ol
TS 91 OL subgroup

Cp Flow Sediment

93 Bar Pd

92 93

J

Chalk

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	core reference frame ARCHIVE HALF
						sutured	planar	chilled margin	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)					[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship composition	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
V14155						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved													
						gradational					anastomosing weak strong			anastomosing	strong	3	d ns nd	mineral shape mineral aspect ratio vesicle distribution		discordant concordant	irregular													
																	rs	vesicle flattening																
																	rd	vesicle alignment																
256 1A-1	0	6			Gabbro with coarse oito - olbearing gabbro										W	1		plg		? - mafic														
2	7	16			Pegmatitic ol rich gabbro										I	0				posible plg - hard to tell														
3	17.5	25			- Segregation vein in Troc										W	1		ol +/- plg		vein is subvertical - trending 180														
4	27	29			small piece of troc gabbro										W	1		- ol																
5	30	32			ol gabbro - 0.5 cm px only									M	2			~~plg~~ - ol + plg		sub horizontal fault														
6	~~35.5-42.5~~				Cataclasite with clasts									N	1																			
7	43-44				- Cement												N/A																	
8	47.5-55.5				Cataclasite										Cont		Rel			-			sub vertical fault											
					Cat - chalk - ol gabbro ~~[illegible]~~ coarse grained troc																														
																							hint of subhorizontal layering											
26R 1A																																		
1	0	3			heavily altered basalt										M																			
2	8	17													M	2		ol + plg		- moderate 40° dip but Big error														
3	15.5	20			catachasite - epidote										cont			cont tell																
4	22.5	29			- lots of epidote veins										hint of relict texture weak																			
5	29.5	32			small pebble										cont			cont tell																
6	32.5	39			green cataclasite - alt										cont			cont tell																
7	40.5	43			small cataclastic pebbles - altered																													
8	43.5	46.5			Altered from grain of troc relic fabric										M	2		ol +/- plg																
9	47.5	49			green cataclasite										cont			tell																
10	50.5	53			v.v. altered ~~[illegible]~~ more grained troc with epidote veins										W	1																			
11	54	57.5			like 8 altered fine grained troc										M	2		ol +/- plg																
12	58	60			pebble of cataclasite										cont			tell																
13	61	64			Altered ol gabbro										cont			tell																
14	64.5	68.5			epidote veined & altered (green) part cataclasite										"			"																
15	68	74			coarser grained epidote veined altered										cont			tell																

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)															
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship composition	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-360	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved													
						gradational					anastomosing			anastomosing	strong	3	d	mineral shape		discordant	irregular													
											weak						ns	mineral aspect ratio		concordant														
											strong						nd	vesicle distribution																
																	rs	vesicle flattening																
																	rd	vesicle alignment																

141-5

23R 1A

Lithi Gabbro

1	0	4						TROC – with large Px oikos							I	0		– Small but to tell																
2	4.5	9						Zebra troc – no green – same as 14R1							M2			– ol +/– ply – Rutile.																
3	10	12						Small piece of fault rock										cut tell																
4	13	17						partially altered troc							W1			– ol +/– ply						Small – hard to tell										
5	18.5	33						GREEN ALTERED CATACLASITE										– cut tell																
6	34	36						Vein basalt with ol clots																										
7	37.5	44						green altered cataclasite										cut tell																
8	44.5	54						"		"			– with large oikocrysts					cut tell																

24G 1A

1	0	3.5						Altered ol phyric basalt							I	0																		
2	5.5	8.5						Small piece of sheared troc – discrete							–	c	t	tell																
3	9	12.5						Similar to previous core plg ol+px							I	0							– epidot											
4	13	14.5						Altered TROC Same as 5 below							M2																			
5	16	21						" Altered troc –							R2			ol +/– ply																
6	21.5	27						Same as piece 1 21R							OT.			– Veined + faulted basalt with ol phenos + dark area																

Bit chase catalogi

C Kerdk 151

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from Igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from Igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)				x-cutting	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		relationship											
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition											
						gradational					anastomosing weak strong			anastomosing	strong	3	d	mineral shape		discordant concordant	irregular													
																	ns	mineral aspect ratio																
																	nd	vesicle distribution																
																	rs	vesicle flattening																
																	rd	vesicle alignment																

1415 J

21R 1A

1	0	3.5	Tracnstone – cataclastic – contact – with dolo material @ 0 I –
2	4.5	12	Magnetite + chlorite + amp – W 1 mg – – ? ?
3	13 – 17		(Similar to 2 but less Mt M 2 – – Plag crystal at bottom
4	16.5	23	– Cataclastic fault rock – cut tell
5	24 – 27		altered cataclastic Cant tell
6	28 – 33		– cataclastic – altered talc cut tell
7	34 – 37.5		" " chl phen "
8	36.5 – 43.7		" " "
9	44 – 64		Cataclastic – altered – cut tell – hint of relict foliation dipping @ 40°
10	65 – 85		Same " " " "
11	86 – 90		Uncut pebbles – Same as above " " –
12	91.2 97		– Same as " cut tell
13	98.7 – 102		" " " " "
14	102 – 108.5		as above – contact with dark grained grey material – pyroxene present cut tell
15	108.5 – 112.5		" " "
16	112.5 – 123.5		" " " " w/o dark grained material – cut tell
17	124 – 131		" " " " " "

21R 2A

1	0 – 12.5	altered green cataclasite → + chl, phen + talc
2	13.1 – 15.7	small pebble above
3	16.5 – 30	Same as (1)

22G-1A

	0 2	+ Small fragment – slides – – Same as 21R piece 2 – thick – magnetite in it
	4 10	green cataclasite cut tell

12h 5m

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690									
						sutured sharp to gradational sharp gradational	planar curved irregular	chilled margi x-cutting relationship rock types	grain size modal grain size & modal	sharp gradational	planar curved irregular anastomosing weak strong		x-cutting

Sample	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]
335-1256D-298R-1A											225	70	135	40	270	45	180	60	225	70
											[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]
	planar planar-linear linear anastomosing	isotropic weak moderate strong	0 1 2 3	n r s d ns nd	x-cutting relationship spacing 1 mm mineral name mineral shape mineral aspect ratio vesicle distribution	vein (<1cm) dike (>1cm) melt percolation vein	sharp gradational discordant concordant	planar curved irregular		x-cutting relationship composition	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90
				rs	vesicle flattening															
				rd	vesicle alignment															

Comments: 180 / 90 — core reference frame ARCHIVE HALF

V 1415J
17 6/4

1 0 7 — cataclasite of gabbro highly altered — Cut fell
2 0.5 1.5 — Veins of gransbar with ol xenos or phenos — MF = 0

18 R 1A

1	0	7			Altered Tractolite - shear but cataclasis									P	W	1		defined by altered ol					Shallow - rolling								
2	7.5	13.5			Altered tractolite									P	W	1		- steeply dipping					≈ 68			270/68		- But sig error			
3	15	24			altered tractolite (cataclasis veins)									P	M	2		ol +/- Plg								90/85					
4	25	29			olivine bearing basalt veins										O	I																
5	29.5	38.5			Altered Tractolite - fabric less clear (coarse grained)										M	2									- Sandy cut			000/78			
6	39.5	42			Altered troc									V	M	2		ol													
7	45.5	53			Altered tractolite									V	M	2				000/33		270/56	bally cut			250					
8	54.5	65.5		Very	Altered tractolite									P	W	1		min	- 090/64				- HIRE								
9	67	72			Very altered tractolite									P	W	1		ol					dense metallic mineral								
10	73	80			troctolite									P	M	2		ol +/- plg			TREE		090/80								
11	81	89.5			very alt troc									P	M	2		ol +/- plg													
12	85.5	90			altered troc - some cataclasis									P	W	2		plg +/- ol													
13	91	95			Fresher troc - 2 polished									P	M	2		ol +/- plg													
14	96	106.5			" " original									P	M	2		ol +/- plg					— vertical			270/88					
15	107.5	114			" " " hint of layering on margin									P	M	2		"													
16	115.5	127			" " "									P	W	2		ol +/- plg					290	010	200/80						
17	128	130			Fresher troc with altered veins									P	M	2		ol +/- plg							202/82						
18																							vertical - 88/270								

Segregation vein or [illegible] veined 88/270 15cm thick
locally diffuse margin

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	180 / 90 / core reference frame ARCHIVE HALF
						sutured	planar	chilled margin	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)	sharp	planar		x-cutting relationship	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	gradational	curved		composition	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	discordant	irregular													
						gradational					anastomosing weak strong			anastomosing	strong	3	d ns nd	mineral shape mineral aspect ratio vesicle distribution		concordant														
																	rs	vesicle flattening																
																	rd	vesicle alignment																

19R1

1	0	6				brecciated contact of piece 6 (3R) with piece P									M	2		ol ± plag ?																
2	6.5	13				scan in zoom								P	M	2		ol ± plag ?																
3	14	21.5					oriented							P	M	2		"						Vertical	foliation	-strike	180	—						
4	28.5	-28				Small piece								P	M	1		"																
5	30	-37				brec - wk piece								P	M	2		"																
6	38.5	- 44					"							"	"	"		"																
7	46	-51					"							"	"	"		"																
8	52.5	56												"	"	"		"																
contact 9	57	61				brecc contact with altered ol gabbro - c.55G									no			possible contact																
10	63	-70				basalt dike - altered ol gabbro - subvert margins												dike 3cm wide																
11	70.5	-78				altered brecciated								P	W	1		ol ± plag - looks orpit																
12	78.5	-82				altered brecciated												cut fall - maybe break above																
13	84.5	-89				highly altered ~~brec~~ bra												cut fall																
14	89.5	-93				highly altered brec								P	W	1		ol ± plag																

20R1

	0	3.5				brecciated same as 19								P	M	2		ol ± plag																
1	4.5	-8				altered brecciated								P	M	2		ol "																
2	9	-18				highly altered + cataclasized brecciated								P	W	1		flint of may alter at bottom of piece																
3																																		

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	180 / 90 / core reference frame ARCHIVE HALF
						sutured	planar	chilled margin	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)					[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship composition	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved													
						gradational					anastomosing			anastomosing	strong	3	d	mineral shape		discordant	irregular													
											weak						ns	mineral aspect ratio		concordant														
											strong						nd	vesicle distribution																
																	rs	vesicle flattening																
																	rd	vesicle alignment																
1415 J																																		
15G1A																																		
1	0	6.5			– trachyte with									A	M	2		Ol + plg	– tubo				around										
2	6.5	19			Similar	– Smaller								A	M	2		"	"	"	"		"				090						
3	19	27			coarse grained										I	0																		
4	28	37			"				"						I	0																		
5	37.5	41.5												P	W	1		– maybe		plag	+ ol													
6	48.5	51												A	M	2		Ol + plg		tub	ol						0223		– MIN	OUT			
7	52	58			Aphyric										I	3																		
8	58	64					Some	– coarse	gabbro						I	0																		
9	65	69			Like		(1)							A	M	2		Ol + plg	+ tub	ol														

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								(number)	(number)	(number)	(number)	(number)	(number)	(number)	(number)	(number)	(number)	
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)				x-cutting	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		relationship											
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition											
						gradational					anastomosing			anastomosing	strong	3	d	mineral shape		discordant	irregular													
											weak						ns	mineral aspect ratio		concordant														
											strong						nd	vesicle distribution																
																	rs	vesicle flattening																
13R1A																	rd	vesicle alignment																
~~8R1~~	1	0	6.5			troctolite with lots of opx									W	1		— ??? ol + plg								ol	euhedral	plg	laths			
—	2	7.5	12			fine grain troc									W	1		ol + plg																
	3	14	18			altered troc									M	2		ol + plg				— tab ol												
	4	18	31.5		—	silicified troc												— not plg troc																
	5	33	37.5			coarse troc		—							W	1		ol + plg																
	6	37.5	50.5			med troc									M	2		ol + plg				— nice layering		090/17		—	TRUE	PIL					
	7	52	56			med troc with shear									M	2		ol + plg																
	8	58	63			corona med troc									W	1		ol + kelyphite																
	9																																	
	10																																	
	11																																	
	12																																	
	13																																	
	14																																	
	15																																	
14R1																																		
~~8R1~~	1	0	7			cataclasite												cut fell tab																
	2	7	11			med troc with oikos								A	M	2		ol + plg				— swirls around oikos												
	3	13	17.5			altered gabbro												cut fell																
	4	19	25			med troc								P	M	2		ol + plg — tab																
	5																																	
	6																																	
	7																																	
	8																																	
	9																																	
	10													r		1		plg																
	11																																	
	12																																	

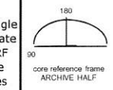
Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)															
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition											
						gradational					anastomosing weak strong			anastomosing	strong	3	d ns nd	mineral shape mineral aspect ratio vesicle distribution		discordant concordant	irregular													
12R1																	rs	vesicle flattening																
																	rd	vesicle alignment																
1	0	4			altered med grained troctolite										M	2		ol + plag + ol																
2	5.5	10.5				cataclasite												cut tell																
3	11	13.5				fault												cut tell																
4	15	22			cataclasite - can see remnants of troc										M	2		ol + plag + ol																
5	24	32			relatively fresh med grained troc										W	1		ol + plag																
6	33.5	38			altered troc with fault													cut tell																
7	38	43.5				cataclasite												cut tell																
8	44	50			fresh troctolite										W	2		plag + ol + px - small oxes lined up																
9	51	60.5			cataclasite of gabbro													cut tell																
10	61.5	72				cataclasite												cut tell																
11	73	81					"											"																
12	82	93				cataclasite												cut tell																
13	94	102.5			less altered ol rich gabbro										W	1		May be plag																
14	104	114				cataclasite												cut tell																
15	115	123				cataclasite												cut tell																
16	124.5	134					"											"																
17	135	143					"											"																
18	144	147			- 2 pebbles													"																
12R2A																																		
1	0	9				cataclasite												cut tell																

Fault zone

Fault zone had to see tables

Comments



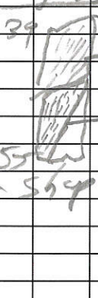
Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690									x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)					225	70	135	40	270	45	180	60	225	70	
						sutured	planar	chilled margin	grain size	sharp	planar								dike (>1cm)	sharp	planar		x-cutting	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm					relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition											
						gradational					anastomosing			anastomosing	strong	3	d	mineral shape		discordant	irregular													
											weak						ns	mineral aspect ratio		concordant														
											strong						nd	vesicle distribution																

14157

10R 1A

																	rs	vesicle flattening																
																	rd	vesicle alignment																
1	0	9.5				coarse grained troc with opx									I	0			—	pos			skel ol											
2	9.5	14				"		"		"					I	0				pos			skel ol											— too coarse grained
3	20	27				fine grained troc with opx									W	1		ol — Maybe					dubious										
4	28	33				fine grained troc with opx									M	2		ol + PAT AB ol					— sub vert fabric but possible rolls										
5	35	39				Much less ol + altered — (grain size layering)									M	2		ol + plg - TAB ol																
6	39	55				Fresher Foliated troc at top									S	3		ol + plg TAB ol																
7	56	62				Similar to 4 + troc with opx									M	2		ol + plg TAB ol																
						weak mod layering in 4 — opx rich layers 1-2cm scale																												
						→ Above lens of rich ~~coarse grained~~					ol gabbro				W	1		plg in gabbro?						Contact dir - step										
6																																		
11R1																																		
1	0	3				Pebble gabbro altered qtz vein?									O	I																				
2	5	16				TROC - with altered band									O	I		pos work ol + plg					— microcracked ol - sub subhedral											
3	17.5	21				Pebbles cataclasite on edge of troc									Cataclasite																				
4	22.5	27				~~troc~~ variation on pieces 1-3 in 10									I	0		— possible banding																
5	30	36				Fine grained troc									M	2		ol + plg																
6	37	43				altered troc									M	2		ol + plg - tab ol																
7	43	48				Cataclasite Fault									O	I																		



090/65

52 cm

~~60~~ 090

14155

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	Ur Lr φ φ tb xt
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)															
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition											
						gradational					anastomosing			anastomosing	strong	3	d	mineral shape		discordant	irregular													
											weak						ns	mineral aspect ratio		concordant														
											strong						nd	vesicle distribution																
qR1																	rs	vesicle flattening																
																	rd	vesicle alignment																
1	0	8			coarse grained	ol	gabbro							P	M	2		ol cpx + pla + ol				TAB ol		090	22									
2	9	16			TROCTOLITE	WITH	SMALL	DIKE						P	M	2		ol + plg				TAB ol		090	30									
3	17	28			gabbro	—	cr	other	Sorry	—	cataclastic				I	0		— Possible	plg				—		—		—	gabbro						
4	29	33			Pch	of	ofc	rice	trac	—	cu	still	seal	ol	M	2		ol + plg				tab	ol											
5	34	37			2	cataclastic	pebble	of	coarse	g.								Can't tell																
6	38.5	42				gabbro	cobble	of	4	—	tiny	gravel			I	0																		
7	42	64				Coarse	altered	ol	gabbro						I	0																		
8	65.5	81			Sim	chow	—	cataclastic	—		—	qt	vein		I	0																		
9	81.5	84			Small	piece	of	moderately coarse	trac						Can't tell																			
10	85	86				6 cm	pebble								Can't tell																			
11	88	91				altered	cataclastic	gabbro?	+	ol					Can't tell																			
12	91	93.5					coarse	gabbro	—	qt	—	olive	altered		"	"	}	BUT	PROBABLY	NOT														
13	94	96					"	"		"		"			"	"																		
14	97	100					BASALT				ROLLER																							
15	100.5	109				coarse	ol	gabbro							W	1		Possible ol + plag						090 - 34										

ol tab elongated

Steep v tab ≈ 40

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	core reference frame ARCHIVE HALF
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)	sharp	planar		x-cutting relationship composition	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	gradational	curved													
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	discordant	irregular													
						gradational					anastomosing			anastomosing	strong	3	d	mineral shape		concordant														
											weak						ns	mineral aspect ratio																
											strong						nd	vesicle distribution																
																	rs	vesicle flattening																
415 J																	rd	vesicle alignment																
8R3A																																		
1	0	3			altered pebble of med grained							True		P	S	3		ol + plg tabular ol																
2	6.5	9			"			"			"	"		P	M	2		"	"															
3	10	13			Altered	brec	big	opx	oikis					P	M	2		"			- but altered													
4	14	21			Altered	brec	with	oikis						A	M	2		"	"	"	"	"	- Angular (round oik)					270	10	18	8	- very swirly	- low angle	
5	22	29			fine grained		- oikis at margin							P	S	3		ol + plg tab ol						100	45				43					
							- hints of modal layering																											
6	30.5	42			cm wide ol rich layer in gabbro — MODAL									P	W	1		plag + px + ol - possibly						90	40			90	40		- dip of layers			
same			36-37cm and at bottom (modal + ol)									3cm		P	M	2		ol - in ol layer																
7	43	46			continuation of ol layer from above							3cm		P	W	1		plag + ol + px																
	46-52		- gabbro with ol											P	W	1		plag + px						90	44									
	52	61			Mirror ol rich - 5%									P	W	1		plag + px + ol																
8	61	65			fine gabbro		sinch + layer above							PM	Z	2		plag px										090	36	- TRUE DIP				
	65	71			coarser - but		with grain size modal layering							W		1		plag p																
9	76	91			swirls around		px's							P	S	3		ol + plg tabular				- very steep dip		090	57	- TRUE DIP								
					steep dip at top shallowed bottom									P	S	3		ol + plg				in single sample (010/24)		90	29	TRUE DIP								
10	93	101.5			med grained gabbro with										I	0		- many px + plag but ???																
					cataclasm zone																													
11	102	105.5			Pebble gabbro - M										I	0		"	"	"	"									bottom		TRUE DIP		
12	106.5	123			gabbro									P	W	1		- plag + px - clear						040	38						040/46 at top		
13	124	127			oikis crystal pebble									P	cont	fell																		
14	128	132			cataclasite zone - in ol g.									P	M	2		ol + plag																
15	134	142			coarse grained cataclasite									P	W	1		- maybe in px + plag																

Midl layers

Magnetic with P

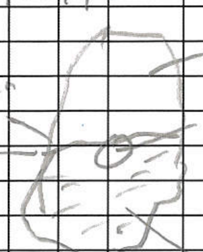
(as oiks get smaller – less gabbroing)

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	core reference frame ARCHIVE HALF (180, 90)
						sutured	planar	chilled margin	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)					[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved								dike (>1cm)	sharp	planar		x-cutting relationship											
														planar-linear	weak	1	r	spacing 1 mm						0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular								melt percolation vein	gradational	curved		composition											
														linear	moderate	2	s	mineral name																
						gradational					anastomosing			anastomosing	strong	3	d	mineral shape		discordant	irregular													
											weak						ns	mineral aspect ratio		concordant														
											strong						nd	vesicle distribution																
																	rs	vesicle flattening																
																	rd	vesicle alignment																

14153
8R2A

Sample	Top offset (cm)	Bottom offset (cm)	Description	Sm	MF intensity	MF intensity rank	MF comments	Comments	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	Comments
			with random oiks										
1	0	15	Similar previous section Med grained ol troc	P	M	2	ol + plg oi tab		090	26	000	14	
2	17.5	22	" " "	"	"		" "	"					
3	24	31	" " "	"			"	"	090	32	180	18	
4	33	37.5	" " "	"			"	more altered rolls		~~45~~			
5	39	52	" " "	P	"		" "	"	090	44	0	0	
			Possible contact at top with oik rich less ol large	I	0			— MODAL LAYERING — contact parallel to foliation 39-42					
6	53.5	57	Altered but similar ol troc	A	M	2	ol + plg oi tab						
7	57.5	75	Same as 1 with smaller more elongate oiks	P	M	2	" oi "		040	34			
8	76	102	Same as 1 with smaller oiks	P	M	2	ol + pc	76-91cm	090	44	0	Top of same	} grading
								91cm-102	090	30	0	Bottom of same	
9	105	122	same as above but smaller oiks + modal layering - 2cm thick ol poor layer in middle (113–115)	P	M	2	ol + plg		090	44	0	0	
10	123	128	Same as but bigger oiks so →	A	M	2	" " "						
11	130	134	" "	"			" " "						
12	136	138	3 small pebbles of same										
			140-143	OI									
13	140	147	143-147		M	2	ol + plg		90	31	– poor estimate		



– coarse gabbro – with ol

– Foliation appears to follow contact

= foliated ol troc

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70		
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)					[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]		
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90		
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition												
						gradational					anastomosing weak strong			anastomosing	strong	3	d ns nd	mineral shape mineral aspect ratio vesicle distribution		discordant concordant	irregular														
																	rs	vesicle flattening																	
																	rd	vesicle alignment																	
1	0	4.5			2 gabbro					-medium grained					W	1		Plag	?																
2	5	11			ol bearing coarse grained gabbro					- similar to other gabbro					I	0		~~[illegible]~~ - Difficult																	
3	13	16			ol rich troctolitic gabbro										M	2		ol + plag	tab ol																	
4	17	20			Medium grained gabbro like 1										W	1		Plag + Px ?																	
5	21.5	27			Similar to 3 except bigger ol									A	M	2		ol + plag	- tab ol																
6	27	31			altered cataclasized gabbro					- (contact with troc gabbro)				- on contact	W	1		Corners	- contact	- Tapering		- troc gabbro													
7	32	36			Similar to ~~3~~ 5										W	1		ol + plag	- tab																
8	38	41			Similar to 1 smaller ol									A P	M	2		ol + plag	tab																
9	43	46			Coarse grained gabbro like 4										I	0		- hard to tell	- small piece																
10	47	53			Similar to 3 but bigger ol									P	W	1		ol + plag																	
11	53	61			- Altered troc gabbro with biotite										W	1		ol + plag		- Sub horizontal															
12	62	71			Similar to 11 - altered									P	M	2		ol + plag										270	27	0	15				
13	72	87			Similar to 5 - Anastomosing crown with									A	M	2		ol + plag	tab ol									90	27.5	0	0				
14	88	107			"		"		"		"		"	"	"	"		"	"		"	"		Anastomosing					90	40	0	23				
15	~~[illegible]~~ 104	~~[illegible]~~ 111			"		"		"		"		"	"	"	"		"	"		"	"		Small piece as above												
16	112	122			As above but very altered - cataclastic zone										"			"	"		"	"		steep dip - Sub rolled												
17	122	132			As 15 — with fault zone									A	M	2		"	"		"	"						90	34	0	0				
18	134	146			As 17								Anastomosing																						

14155
8R1A

play actually medium grained

Contact

3

Need photo

coarse grained oliviscrystic gabbro ? WorI ?

med grained Trac - Mz ol + plg

May 5 check

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)					[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition											
						gradational					anastomosing			anastomosing	strong	3	d	mineral shape		discordant	irregular													
											weak						ns	mineral aspect ratio		concordant														
											strong						nd	vesicle distribution																
U 1415 J																	rs	vesicle flattening																
76 1A																	rd	vesicle alignment																
1	9	4.5			gabbro cobble									P	W	1		Plag + px																
2	4.5	2.5			ol gabbro cataclasite													can't tell																
3	9	15			gabbro weak cataclasite										W	1		- hard + tell																
4	17	23			gabbro ~~[illegible]~~ similar to 3									P	W	1		probably plag + px										90	65	0	0	- Poorly constrained		
5	25.5	32		- CONTACT - MODAL LAYERING between gabbro + troc										P	M	2		ol + plg - tab ol									VERY	steeply		dipping contact - 85°				
6	34.5	40.5		coarse grained gabbro - sharp - large px oikos											I	0		- spotted An like																
7	41.5	48		Med grained troctolitic gabbro with few oikos										P	M	2		ol + plag										270	26	180	22			
8	49	56		~~troctolite~~ ol rich gabbro small cpx oil										P	M	2		ol + plag tabular ol						284	70			270	64					
9	57	60		px oik rich ol rich gabbro - tabular px										A	M	2		ol + plg - approx. f						name around oikos				- oik rich				0.5 cm diam		
10	64.5	69		ol rich gabbro - small px oikos										P	M	2		ol + px tab ol																
11	70.5	74		cataclasite														can't tell																
12	76.5	79		ol bearing gabbro very ~~px~~ px rich											O	I																		
13	80.5	90		coarse grained gabbro very cpx rich - weak cataclasis										P	W	1		- maybe ?? ol + plag																
14	91	96		med grained troctolitic gabbro like 13 contact - modal layering											M	2		ol + plag in coarse layer not clear														- maybe split sample into 2 at 92 -		
15	98	106		ol rich gabbro with open oikos											W	1		ol + plg ~~steep~~ steep						77	348									
16	107	125		cpx ol rich troctolite gabbro										P	M	2		ol + plg - tabular ol										270	28	0	0			
17	125	136		same ol layer ??											S	3		ol + plg tab ol						037	75									
18	137	144		coarse gabbro same as piece 6 + part 14											F	0		- can't really tell																
76 2A																																		
1	0	8		troctolitic gabbro + cpx oikos											M	2		ol + plg steep tab ol						70	068									
2	9.5	16		similar but more ol rich 13 shearing around px?										A	M	2		ol + plg ol's tab ~~[illegible]~~ around oikos						80	090									
3	17	24		same as (2)										A	M	2		ol + plg " " " "						82	270									
4	25.5	~~30~~ 28		2 pebbles cataclasized, coarse grained gabbro														can't tell																
5	30.5	38		modal layering contact - between coarse grained ol gabbro + troctolitic gabbro as in 1, 2 + 3																				72	270									
~~[illegible]~~	~~[illegible]~~	~~[illegible]~~		troctolitic gabbro											M	2		ol + plg tab ol																
~~[illegible]~~	~~[illegible]~~	38		coarse grained gabbro											O	I																		
				contact at 82 cm																														
6	39	41		- like 2 + 3 cpx oil											M	2		ol + plg Tab ol					- change in dip in sample					270	38					
																												270	48					
7	51	58		like 6 - slightly dip - oikos											S	3		ol + plg tab ol										270	26					
				change in gb with sample																														
				- ~~[illegible]~~ grain size layers - coarser at top -																				56 cm										

x stitch block

GHOST CORE PLACE LIKELY OUT OF VERTICAL DIP

Bottom

Top

photo

CO2 content ≈ parallel to layers - likely part of modal layering

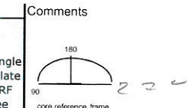
4/5cm MSC

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690									x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)	sharp	planar			225	70	135	40	270	45	180	60	225	70	
						sutured	planar	chilled margi	grain size	sharp	planar			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	gradational	curved		x-cutting relationship	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved												composition	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein															
						gradational					anastomosing			anastomosing	strong	3	d	mineral shape		discordant	irregular													
											weak						ns	mineral aspect ratio		concordant														
											strong						nd	vesicle distribution																
14/5J 4R1A																	rs	vesicle flattening																
1	0	9	10												W	1	ro	vesicle alignment	Px+Plag	Possibly		Cataclasite	gbro			270	15	0	0			– otz veins
2	10	13																Cat tell				Possibly	ol gbro										
3	13	16	20												M	2		ol+plag	Tabular olivine			ol gbro	– cobble			– no orientation							
4	20	23																Cat tell					Cataclasite										
																																		17
5R1A 1	0	5		Cataclasite	-cpx oikos													Cat tell		+/- px														
2	5	8		ol gabbro	-pebble									P	W	1		ol+plag		Possibly	m.l.													90-121
3	8	11			Pebble	ol gabbro									M	2		ol+plag		– cpx oikos														
4	12	20	21		gabbro	– medium	grained								W	1			Px+Plag	Possible	– Med grain	Same as	4R1A											121-125
																										90	27	18	≈0	0	???			
5	21	24	25		EOD oik	some cataclasis	ol gabbro											Cat tell	Small	cobble														125-132
6	25	27	27.5											P	M	2		Px+Plag	Small	pebble	Elongate	Px+plag	4:1 aspect ratio											
7	27.5	31			ol	gabbro		micro pieces						P	M	2		ol+plag			layer of	opx oikos												
8	32	43	44						start of layering – 25% ol 6cm					P	M	2		ol+plag	opx oikos	elongate ol							90	30	0	0				
					At 34cm contact between ol poor 10% + ol rich layer above – contact parallel to layering																														
9	44	47			gabbro pebble									– ?	W	1	??	? maybe plag poin																
10	47	50			cataclasite	gabbro	pebble – Put out											Can't tell																
11	5	58			Cataclasite		oik																											
12	59.5	69			ol	gabbro	10%	ol	modal	layering					M	2		Plag + ol	+ Flattened	larger 0.5cm	to 1.5cm	opx oikos				90	27	180						
													Sm																					
13	69.5	77.5			ol	gabbro	10%	ol	modal	layering					M	2		plag + ol		Same as	12	[BUT LESS FLATTENED OIKOS]				90	42	180	22				
14	85-84.5				tremolite cobble		with small	opx oikos							M	2		ol + plag																
15	85.5	90			coarse	grained									W	1		? ?																
16	92	97			ol	gabbro	– big ol + often cpx oikos								W																			
17	97	128						Modal layering							M	2		ol + plag								180	34	90	0					
	99-102				ol poor 10%															Contacts // to layering						"	"	"	"					
	102-121				ol Rich with			– 20% ol																		"	"	"	"					
						layers rich in	px oikos																			"	"	"	"					
	121-131				– ol poor and small		px oikos	– 10%																										
18	129-143			131-end	rich	ol rich – 15%									M			ol+plag + opx								90	30	0	12				
						opx + cpx																												
	140-143				ol rich	layer	Matches	Piece	1	in	5R2																							

Matches 4R

Comments



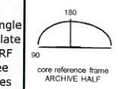
Cut incorrectly

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)															
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition											
						gradational					anastomosing weak strong			anastomosing	strong	3	d ns nd	mineral shape mineral aspect ratio vesicle distribution		discordant concordant	irregular													
																	rs	vesicle flattening																
																	rd	vesicle alignment																
14/5J 5R2A						1cm	ol rich layer		7-8cm		-35%			Between less				ol -20%																
	0	32																																
	0-3		-ol rich layer continuous												M	2		ol + ply + opx + cpx										90	54	0	0			
Modal layering							Modal layering 70% ol																											
	2	24	40		- less ol -20%													ol + ply + opx + cpx										90	30	0	0			
							Piece																											
					Sense																													
	3	41.5	63															ol + ply + opx + cpx										90	34	0	0			
											more + less ol rich																							
6G1A														2cm																				
1	0	4.5		Cobble		-ol gabbro		- oikocryst						P	M	L		ol + ply filled → aligned to ols																
2	4.5	6				- Small pebble		cent tell																										
3	7.3	11			ol rich gabbro + px troctolite									VP	W	1		ol + ply																
4	11	14.5		Same as	3 Troctolite gabbro + px									P	W	1		ol + px																
5	14.5	21			ol gabbro + px - Modal layering										W	1		ol + ply + px																
6	22	24			Pebble. - cataclasite rounded									pebble																				
7	25	29.5			Cataclasite - gabbro - coarse grad										W	1		ply + px troctolite ?? clubbing																
8	30.4	34			ol gabbro med grained										I	0		? ply massive																
9	34.5	38			ol rich gabbro med grained + oikocryst										W	I		ol + ply - large ol - med-fine g/r																
10	38	41.5		Coarse grained	ol heavy gabbro										W	1		ol + ply ?? - mafic																
11	42 - 44				ol troc + oikocryst										W	1		ol + ply																
														possible	modal	layering																		

26 3R1 (16) 3R2 4R1 Check the 4th Jan

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690									x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)					225	70	135	40	270	45	180	60	225	70	
						sutured	planar	chilled margin	grain size	sharp	planar			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			anastomosing	strong	3	d	mineral shape		discordant	irregular													
						gradational					anastomosing						ns	mineral aspect ratio		concordant														
																	nd	vesicle distribution																
																	rs	vesicle flattening																
345 U1455																	rd	vesicle alignment																
261A P1	0	13																						Poisk		Boat								→ thickness
3R1-A																																		
1	0	2.5		ol bearing		gabbro		pebble.						P	W	1		ol-plag		— margin	but oriented ol.													
2	3	6		ol bearing				pebb						P	W	1		ol-plag		— Marginal.														
3	6.5	10.5		3 pebbles		of diabasal basalt								P	W	1		Plag		+ possible	may													
4	10.5	16		coarse grained		ol gabbro		— big pieces												— possible														
5	17.5	21.5		gabbro				slightly altered						P	2	M		elongate		5:1 aspect ratio														
6	21.5	28		gabbro										P	2	M->												270	47	0	8			
7	28.5	31.5		ol gabbro		— cpx		oil	fine grn					P	1	W		ol + plag																
8	31.5	40		ol gabbro		+ oikocrysts								P	2	M		ol + plag					— moderate to steep					Dip	40°	270		— poorly constrained		
9	40	43		pebbles		+ ol gabbro								P	1	W		ol + plag		margin														
10	43	48		coarse grained		ol gabbro									1	? W		maybe alignment of plag ?																
11	49	55		"		"		"		(Possible	weak	mixing			1	W		Maybe ol + plag						90	22	180	10							
12	55.5	62		ol gabbro		— oikocrysts									1	W		ol + plag																
13	64	70		ol rich gabbro											2	M		ol + plag																
14	70.5	75		ol gabbro		cpx		oikocrysts							1	W		ol + plag																
15	75.5	78.5		microgabbro																														
16	78.5	83		ol bearing gabbro				(fresh)							2	M		plag + px																

30/12/12 MJR.

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)															
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition											
						gradational					anastomosing weak strong			anastomosing	strong	3	d	mineral shape		discordant	irregular													
																	ns	mineral aspect ratio		concordant														
																	nd	vesicle distribution																
																	rs	vesicle flattening																
																	rd	vesicle alignment																
U1415I 56 1A																																		
1	0	7	8.5												W	1		- Play		Sitting orig														
2	8.5	11.5	12.5												I	0				Coarse Grained gabbro														
3	12.5	17	18												I	0				Silicified gabbro														
4	18		24												I	0				Ol gabbronorite cobble														
																				Pegmatitic gabbro - Coarse														
																		?? Maybe play?																

30/2/12 mgt

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margin	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)															
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship composition	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved													
						gradational					anastomosing weak strong			anastomosing	strong	3	d	mineral shape		discordant	irregular													
																	ns	mineral aspect ratio		concordant														
																	nd	vesicle distribution																
																	rs	vesicle flattening																
																	rd	vesicle alignment																
3R1W	0	-	150																	Sand				—		not possible								
2W	0	-	150																	Sand				—		not possible								
3W	0	-	150																	Sand				—		not possible								
4W 1	0		14																	gravel						not possible								
2	14	22	22.5											?	W	1		plg-clast		gravel						big cpx oikos - overall plg in oikos?								
3	22.5	28.5																																
4	28.5	37												P	M	2		→ plag → cpx		gravel				←				90	50	0	0			
																										Gabbro - no oikos - but large cpx								
4R1415 I 4R1W	0	4	5											P	W	1		plag - fabric									cpx oikos		- slight					
2	6	13.5	14					← M	g	P				ol-plag	ocrograined	M	2																	
								oik → layer -	oik 1cm wide	→ plag				≈	Per	ok	layering											90	20	180	10			
3	14	19	19.5						oikos - but no layer		weak zone			of ol-plg	igneous layering													— some cpx 2 - but c-bble + more oik so layering hard to see						
															M2																			
4	19.5	24													W	1		plag — mosaic - small grains							big	px → oikos								
5	24	32	33						m	g	p	1cm	2mm	ol, plg	layers M	1										ol	psc	plg						
33-36					ol rich layer 36-38cm																							90	38	0	0			
36-38 - mod ol rich																																		
6	33	41.5	43		layer 36-38cm			ol rich	m	g	p	1cm	2cm	ol+plag	M	2												90	38	0	0			
38→41.5 7	43	45	47						m	g	p	1cm	2mm	ol+plag	M	2								—		roller	cont	mass						
8	47	62							M	g	p	1cm	cm.	ol+plag	M	2		— min layering in rock					—	10% ol										
9	72	76			ol rich ≈ 40% 15cm				M	g	P	2.5cm	ol rich banding		S	3												90	29	0	0		4 inch - 115°	
	72	76																																
	62	72			— more ol				M	g	p				M	2		plag orient						25%	ol			"	"	"	"			
	76	88							m	g	r				M	2		plag orient						5%	ol			"	"	"	"			
	88	95								g					M	2		plag orient						25%	ol			"	"	"	"			
Estimate 9	98	109																plag orient						~25%	ol			90	38	0	0			
10	110	126			weak min layering lost →							W	1	P	W	1	-	plag						— coarser grained				— no layer						
11	129	133	135												I	0								— coarse		— Big		cm oik						
12	134	142													W	1		plag						1cm oik										
1415I4R20																																		
1	0	7	9												I	0								Coarse grained										
2	9	13			ol+plg				m	g		0.1		P	M	2		- ol						— big 1.5cm										
3	13	17													VE	P		plag		—				cataclast				plag rich layer						

0-15
15-25
25-29
29-41
41-48

Checked 28th Dec

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	Intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margin	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)	sharp	planar		x-cutting relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	gradational	curved		composition											
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	discordant	irregular													
						gradational					anastomosing			anastomosing	strong	3	d	mineral shape		concordant														
											weak						ns	mineral aspect ratio																
											strong						nd	vesicle distribution																
1R1A																	rs	vesicle flattening																
																	rd	vesicle alignment																
1	0	6	8											150.	0								— cp shear 3											
2	6	[illegible]	11												[illegible]								small pebble — can't tell — brittle fault											
3	11	14	16.5											150	0								olive gabbro											
4	16.5	21	24.5											180	0																			
5	24.5	27.5																					— 3 pieces of gravel not pushed											
6	27.5	29	31	[illegible]										180	0																			
7	31	37	39											180	0								— Redrawing sketch pad — with alterations											
8	38	40.5	42				— possible weak layering of mix layers — planar grad																											
9	42	48	48.5															2.2.2 — HARD TO SIZE					} SAMPLES Piece 1 from 6R1											
10	48.5	53.5	54				possible weak layering of mix layers of often planar-grad																											
																							— no orientation of plag in veins											
Checked 24th Dec																																		
U1415I 1R1	0	4	4.5							— possible weak modal layering				weak	plaid								— worm half — less obvious — 0 [illegible]											
2	4.5	8	9											15	0			— Random tiny (mm-cm) plag in		Coarse	Big	olivocrystals cpx												
3	9	10												15	0						grained	gabbro	— no fabric fossils — olivocrystals cpx											
4	12	15												weak planar	1			plag tiny phenocrysts cpx		Very	fine	grained — basalt? or chilled margin												
4															2																			
2R2																																		
U1415I 2R1	1	0	5	6										150	0							olivine gabbro — altered (corona) — chlorite veins												
	2	6	9											150	0							same as above												
	3	9	11.5											150	0							same as above												
	4	11.5	13	14.5										150	0							small — same as above												
	5	15	21.5			planar	Possible mixed layering / cpx 0.2							weak	1							— cp deformed — of bearing veins												
	6	21.5	24.5											150	0							→ cp shear zone												
	7	24.5	31.5											150	0							→ cp shear zone												} same
	8	31.5	35											180	0							" " " — cataclasite												
	9	35	43				mix layering		0.2					weak	1							more cpx set similar to 10 ?												
	10	43	46.5				"		"		"			mod	2							plagioclase (unit grain)												} same
	11	46.5	52				Mix layering	cpx 0.2	plaid 0.2					M	2						— single grain					270	32	0	18				

Chadle 25° Dec
+ 2[illegible] Dec

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)															
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship composition	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved													
						gradational					anastomosing weak strong			anastomosing	strong	3	d ns nd	mineral shape mineral aspect ratio vesicle distribution		discordant concordant	irregular													
																	rs	vesicle flattening																
																	rd	vesicle alignment																
U1456 1R1-1														P	m	2		Play-elongate up to 5:1 aspect ratio — ≈ vertical.																
2									m		P	1mm	weak	P	weak	1		— weak / grey wide mineral layers					— Orientation not possible.										
3																0																		
4																0		— coarse grained — plag																
5														P	M	2		— plag elongate up to 5:1 aspect ratio + LARGE Px >45° foliation																
6															W	1			V	S	P	0.5m	plag veins -oik altered gabbro			Orientation not possible							
7															—	0																		
2R2- 1																0			V	S	I	15m	Cpx veins											
2																			Positive ~~back~~ mineral layering, plag-cpx → search for small to [illegible]															
3																			Rubble															
4																			Rubble															
5																			Rubble															
6																			Patchy troctolite in Gabbro.															
7																			— troctolite															
U1456 1R1 1	0	5	(6)							S	P	1mm	mineral layering - ol + plag	M	2						ol	gabbro		— rubble no orientation possible									-optic	
2	6	8	10	small pebble								2mm																						
3	10	14	16							S	F	plagioclase mineral layering			S3			play elongate — 4:1																
4	16.5	19	20	small pebble											W	1		plag																
5	20	21													M	2		— Plag																

Cont tell

— one of 2 rubble

— elongate 4:1 ≈ parallel

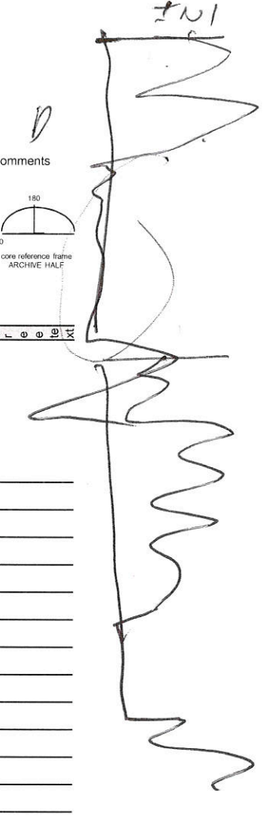
2R 2 Dec

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	Left edge of core reference frame ARCHIVE HALF
													x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)					[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margi	grain size	sharp	planar				weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear									composition											
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved													
						gradational					anastomosing weak strong			anastomosing	strong	3	d ns nd	mineral shape mineral aspect ratio vesicle distribution		discordant concordant	irregular													
																	rs	vesicle flattening																
																	rd	vesicle alignment																
E 1R 3A	1					grad			Dunite Half	at 8cm																		270	30					
	2					sharp			Dun Half	at 7cc																		270	0					
	3																																	
	4		45	56	DUN-HARZ				Dun Harz																		~270	0					
	5			98	DUN-HARZ																						5cm horiz							
	6																																	
	7																																	
	8																																	
	9													L	M	2		→										90	35	0	180			
Chl	10				— Possible contact → is horizontal																													
	11																																	
	12																																	
0 4R 3A	1																																	
	2																																	
	3																																	
	4																																	
	5																																	
	6																																	
	7																																	
	8																																	
	9																																	

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)					[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship composition	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved													
						gradational					anastomosing			anastomosing	strong	3	d	mineral shape		discordant	irregular													
											weak						ns	mineral aspect ratio		concordant														
											strong						nd	vesicle distribution																
																	rs	vesicle flattening																
																	rd	vesicle alignment																
Roller	1				✓											0																		
	2														~~weak~~	10											~~270~~	~~71~~						
	3															0																		
	4														Weak	1											270	71						
	5															0																		
	6															0																		
	7															0																		
	8															0																		
Roller	9														W	1																		
	10															0																		
	11															0																		
contact	12															0																		
	13				ol gabbro											0																		
	14				ol gabbro rubble											0																		
	1																																	
	2																																	
	3																																	
	4			26 Peridotite-gabbro contact - irregular																							270	0						
	5																																	
	6																																	
	7																																	
	8																																	
	9																																	
	10																																	
	11																																	
	12																																	
	13																																	
	14																																	
	15																																	
	16																																	
	17																																	
	18																																	
	19			Dun-troz contact - Roller																														
	20																																	
	21																																	



Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690									x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)					225	70	135	40	270	45	180	60	225	70	
						sutured	planar	chilled margin	grain size	sharp	planar								dike (>1cm)	sharp	planar			[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm					x-cutting relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition											
						gradational					anastomosing			anastomosing	strong	3	d	mineral shape		discordant	irregular													
											weak						ns	mineral aspect ratio		concordant														
											strong						nd	vesicle distribution																
																	rs	vesicle flattening																
																	rd	vesicle alignment																
9R 4A	1																																	
	2																																	
	3																																	
	4																																	
	5																																	
	6																																	
	7																																	
	8																																	
	9													P	W	1		Plg										270	44					
	10																																	
	11																																	
	12																																	
12R 2A	1																																	
	2																																	
	3																																	
	4													P	1													270	73					
	5																																	
	6																																	
	7																																	
	8																																	
	9		Vertical coarse grained vein 3cm div											P	1													270	85					
	10		— Sec. coarse — Orth. coarse											P	1													270	54					
	11													P	1																			
	12																																	
	13																																	
	14																																	

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)															
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition											
147 U8946 6R2 A						gradational					anastomosing			anastomosing	strong	3	d ns nd	mineral shape mineral aspect ratio vesicle distribution		discordant concordant	irregular													
																	rs	vesicle flattening																
																	rd	vesicle alignment																
1																0																		
2																																		
3																																		
4																																		
5																																		
6																																		
7																																		
8																																		
9																																		
10																																		
11																																		
12																																		
13																																		
14																																		
15																																		
6R1	1																																	
	2																																	
	3																																	
	4																																	
	5																																	
	6																																	
	7																																	
	8																																	
	9																																	
	10																																	
	11																																	
	12															0																		

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
~~335-1256D-298R-1A~~	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	
																								[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)															
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition											
147 U8946						gradational					anastomosing			anastomosing	strong	3	d	mineral shape		discordant	irregular													
											weak						ns	mineral aspect ratio		concordant														
											strong						nd	vesicle distribution																
																	rs	vesicle flattening																
																	rd	vesicle alignment																
2R 3A -1														P		1		Plug						22°	70			270	64					
														P		1												270	10					
2																												90	60					
6R 1A																																		
6R 2A																																		
8R 1A																																		
~~9R 4A~~																																		
9R 4A																																		
~~12R 2A~~																																		
12R 2A																																		
13R 3A 1														P		1		Plug						22°	~~70~~			270	64					
														P		1		Plug										270	10					
2														P		1		plug										90	60					
3																								90	37			90	37					
4																																		
13R 2A 5																																		
8																												90	70					

Magmatic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	intrusive contact lithology/number form igneous group	Intrusive Contact (Ic) nature	Intrusive Contact geometry	Intrusive Contact comments	Layering/banding (Sb) from igneous group	nature of margins	geometry	Thickness of layers (mm)	comments	Magmatic Fabric geometry (Sm)	MF intensity	MF intensity rank	MF sense of shear	MF comments	Magmatic vein type (Vm) from igneous group/number	contact	geometry	Thickness (mm)	comments	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [see Mike's eqns]	dip angle calculated CRF [see Mikes eqns]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690																				225	70	135	40	270	45	180	60	225	70	Up
						sutured	planar	chilled margi	grain size	sharp	planar		x-cutting	planar	isotropic	0	n	x-cutting relationship	vein (<1cm)					[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						sharp to gradational	curved	x-cutting relationship	modal	gradational	curved			planar-linear	weak	1	r	spacing 1 mm	dike (>1cm)	sharp	planar		x-cutting relationship	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						sharp	irregular	rock types	grain size & modal		irregular			linear	moderate	2	s	mineral name	melt percolation vein	gradational	curved		composition											
						gradational					anastomosing weak strong			anastomosing	strong	3	d ns nd	mineral shape mineral aspect ratio vesicle distribution		discordant concordant	irregular													
																	rs	vesicle flattening																
																	rd	vesicle alignment																
12R3A	1		Fine bcos			6	I	good - Patchy @ 27cm								0																		
	2															1												67	90					
	3															0																		
	4				coars - fine											0												4	90					
	5				Coarse + fine ~~[illegible]~~													contact - abrupt -		coarse later intrusive				2 - Cinlalo T + B				22	270	18	180			
	6															0																		
	7				Coarse + fine intermixed											0																		
	8				— Coarse patch				144cm							3												90	63					
13R2A	1		Fine + coarse			6	I	good								0								ORIENTATION UNDETERMINED										
	2															0																		
	3															0																		
	4															0																		
	5	—														0																		
	6															0																		
	7		Fine bcos			6	I	good								~~0~~												~~90~~	~~68~~					
	8													plan		2		plag										270	80					
	9															0												115	90?					
	10															0																		

core reference frame ARCHIVE HALF

B. John
12/21/2012

Crystal-plastic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	lithology from igneous group)	CP fabric type	CP fabric intensity	CP fabric intensity rank	CP fabric boundary geometry	CP fabric boundary sharpness	CP fabric sense of shear	CP fabric comments	serpentine network preferred orientation	serp intensity rank	planar structure dip direction measured in CRF	planar structure dip angle measured in CRF	lineation trend	lineation plunge	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]	Comments
335-1256D-298R-1A	45.0	47.0	1855.670	1855.690							n				225	70	135	40	225	70	135	40	270	45	180	60	225	70	core reference frame ARCHIVE HALF (180, 90)
						fabric	intensity cp fabric	[aut	geometry	structure	displ	[soft list]	intensity serp	[auto]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						planar (S)	undeformed	0	irregular	sharp	n	spacing	random	0	0-360	0-90	90-270	0-90	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						planar-linear (L-S)	weakly foliated/lineated	1	planar	diffuse	r	S-C fabric	weakly oriented	1															
						linear (L)	strongly foliated/lineated	2			s	recrystallized grains	moderately oriented	2															
						brittle-plastic (Bp) planar	porphyroclastic/(protomylonite)	3			d	2 mm spacing	strongly oriented	3															
							mylonite	4			ns	anastomosing																	
							ultramylonite	5			nd	spinel lineation																	
											rs																		
											rd																		
894A 2R-3A			0	45				0							172	65													
			45	47		BP (P)		2	IRR	Diff																			
			47	50				0																					
			50	54		BP (P)		1	IRR	Diff																			
			54	78				0																					
			78	87		BP (P)		1	IRR	diff					270	85													
			87	122				0																					
894 6R-1A			0	141	pieces 1-12			0																					
894 6R-2A			0	150	pieces 1-15			0																					
894 8R-1A			0	150	pieces 1-11			0																					
					[piece]																								
895E 1R-3A			0	9	1	S								3															
			9	19	1	S	porphyroclastic	2	PL.					2	270	40													
			20	34	2	S								3	270	10													
			34	37	2	S	porphyro.	2	PL					2	270	30													
			37	43	3/4	S								3															
			43	47	4	S	porphy	2	PL						90	18													
			47	60	4	S								3	90	18													
			60	97	4/5	S	porphy	2	PL						0	10													
			97	104	5	S								3	90	30													
			104	150	6/11									0															
895D 4R-3			0	10	1	S	porphy	1																					
			12	20	2	S	sacq	3						3	270	54													
			21	147	3/7	S	porphy	1	PL																				

Crystal-plastic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	lithology from igneous group)	CP fabric type	CP fabric intensity	CP fabric intensity rank	CP fabric boundary geometry	CP fabric boundary sharpness	CP fabric sense of shear	CP fabric comments	serpentine network preferred orientation	serp intensity rank	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]
											n				225	70	135	40	270	45	180	60	225	70
						fabric	intensity cp fabric	[auto	geometry	structure	displ	[soft list]	intensity serp fabric	[auto]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]
						planar (S)	undeformed	0	irregular	sharp	n	spacing	random	0	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90
						planar-linear (L-S)	weakly foliated/lineated	1	planar	diffuse	r	S-C fabric	weakly oriented	1										
						linear (L)	strongly foliated/lineated	2			s	recrystallized grains	moderately oriented	2										
						brittle-plastic (Bp) planar	porphyroclastic/(protomylonite)	3			d	2 mm spacing	strongly oriented	3										
							mylonite	4			ns	anastomosing												
							ultramylonite	5			nd	spinel lineation												
											rs													
											rd													
20R2A	0	120						0																
21G1A	0	32						0																
22R1A	0	140						0																
22R2A	0	133						0																
22R3A	0	55						0																
23R1A	0	86						0																
23R1A	86	86.5						3	3mm thick vein w/ prehnite+chl?															
23R1A	86.5	100						0																
	100	141						0																
23R2A	0	72						0																
23G	0	20						0																

Dec. 28, 2012

Crystal-plastic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	lithology from igneous group)	CP fabric type	CP fabric intensity	CP fabric intensity rank	CP fabric boundary geometry	CP fabric boundary sharpness	CP fabric sense of shear	CP fabric comments	serpentine network preferred orientation	serp intensity rank	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]
											n				225	70	135	40	270	45	180	60	225	70
						fabric	intensity cp fabric	[auto]	geometry	structure	displ	[soft list]	intensity serp fabric	[auto]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]
						planar (S)	undeformed	0	irregular	sharp	n	spacing	random	0	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90
						planar-linear (L-S)	weakly foliated/lineated	1	planar	diffuse	r	S-C fabric	weakly oriented	1										
						linear (L)	strongly foliated/lineated	2			s	recrystallized grains	moderately oriented	2										
						brittle-plastic (Bp) planar	porphyroclastic/(protomylonite)	3			d	2 mm spacing	strongly oriented	3										
							mylonite	4			ns	anastomosing												
							ultramylonite	5			nd	spinel lineation												
											rs													
											rd													
	piece																							
U1415H1R-1A	1	0	8			Bp P		3	planar	diff.	1	2mm thick CP zone w/ brittle overprint										(grp 0)	define qi to fish)	
	2	8	11					0						0										
	3	12	17					0						0										
	4	17	25					0						0										
	5	25	28			rubble		0						0										
	6	28	30			rubble		0						0										
	7	31	38			rubble		0				snowflake plg glass crypts (almost cookie w/alt)		0										
	8	38	42			rubble		0						0										
	9	42	49			rubble		0						0										
	10	49	54			rubble		0						0										
U1415I1R-1	1	0	4			rubble		0						0										
	2	4	9			rubble		0						0										
	3	9	12			rubble		0						0										
	4	12	15			rubble		0						0										
U1415I2R-1A	1	0	6			rubble		0						0										
	2	6	9			rubble		0						0										
	3	9	12			rubble		0						0										
	4	12	14			rubble		0				w/ pyrite		0										
	5	15	17			broken rubble		0						0										
	5	17	18			planar		3	planar	sharp		CP of qtz. veins <1mm thick		0										
	5	18	21			broken rubble		0						0										
	6	22	24																					
	7	24	31.5			planar		3	planar	sharp		CP of qtz vein alg 270's side (vertical) 5mm thick		0										

Dec. 29, 2012

Dec. 25, 2012

Crystal-plastic fabric

Sample	Top offset (cm)	~~Bottom offset (cm)~~ (piece)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	lithology from igneous group)	CP fabric type	CP fabric intensity	CP fabric intensity rank	CP fabric boundary geometry	CP fabric boundary sharpness	CP fabric sense of shear	CP fabric comments	serpentine network preferred orientation	serp intensity rank	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]
											n				225	70	135	40	270	45	180	60	225	70
						fabric	intensity cp fabric	[auto	geometry	structure	displ	[soft list]	intensity serp fabric	[auto]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]
						planar (S)	undeformed	0	irregular	sharp	n	spacing	random	0	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90
						planar-linear (L-S)	weakly foliated/lineated	1	planar	diffuse	r	S-C fabric	weakly oriented	1										
						linear (L)	strongly foliated/lineated	2			s	recrystallized grains	moderately oriented	2										
						brittle-plastic (Bp) planar	porphyroclastic/(protomylonite)	3			d	2 mm spacing	strongly oriented	3										
							mylonite	4			ns	anastomosing												
							ultramylonite	5			nd	spinel lineation												
											rs													
											rd													
1415E1-R1		1	0	12				0						0										
		2	12	21				0						0										
		3	21	28				0						0										
		4	31	40				0						0										
		5	40	50				0						0										
		6	50	57				0				outlying vein		0										
		7	57.5	62				0				w/pale cpx oik		0										
*1415E2R-1		1	0	6				0				felsic w/pyrite		0										
		2	6	9		rubble		0						0										
		3	9	12		rubble		0						0										
		4	12	15		rubble		0						0										
		5	15	20.5				0						0										
		6	20.5	24		rubble		0						0										
		7	24	31				0						0										
1415E6R-1A		1	0	6		rubble		0				w/pyrite*		0										
		2	7	10		rubble		0						0										
		3	10	17		rubble/planar		1				oik core		0										
		4	17	20		rubble		0				2 pieces (c) subbro		0										
		5	20	26		rubble		0				layered w/patchy smectite alt.		0										

Dec. 27, 2012

Crystal-plastic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	lithology from igneous group)	CP fabric type	CP fabric intensity	CP fabric intensity rank	CP fabric boundary geometry	CP fabric boundary sharpness	CP fabric sense of shear	CP fabric comments	serpentine network preferred orientation	serp intensity rank	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]
											n				225	70	135	40	270	45	180	60	225	70
						fabric	intensity cp fabric	[auto]	geometry	structure	displ	[soft list]	intensity serp fabric	[auto]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]
						planar (S)	undeformed	0	irregular	sharp	n	spacing	random	0	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90
						planar-linear (L-S)	weakly foliated/lineated	1	planar	diffuse	r	S-C fabric	weakly oriented	1										
						linear (L)	strongly foliated/lineated	2			s	recrystallized grains	moderately oriented	2										
						brittle-plastic (Bp) planar	porphyroclastic/(protomylonite)	3			d	2 mm spacing	strongly oriented	3										
							mylonite	4			ns	anastomosing												
							ultramylonite	5			nd	spinel lineation												
											rs													
											rd													
(Dec. 29, 2012)																								
U1415I2R-1A	8	32	35			planar	prcto/mylonite	3	planar	sharp		alg vein/bxly		0										
	9	35	39			planar	prcto	3	planar	sharp				0										
	9	39	39.5											0	90	25								
	9	39.5	43					0						0										
	10	43	47					0						0										
	11	47	57					0						0										
U1415I3R-1W	0	150				sand/cutting		0						0										
U1415I3R-2W	0	150				"		0																
U1415I3R-3W	0	150				"		0																
U1415I3R-4W	0	14	piece 1			rubble																	Dec. 30, 2012	
	14	22	piece 2				mafic	0																
	22	28	3			rubble																		
	28	37	4				mafic	0						0										
			piece																					w/(pyrite)
1415 4R 2A	0	9	1			cobble		0						0										
	9	13	2			Cobble		0						0										
	13	17	3			Cobble		0						0										
1415 4R 1-A	0	5	1					0						0										
	5	13	2					0						0										
	14	20	3					0						0										
	20	24	4					0						0										
	24	33	5					0						0										
	33	42	6					0						0										

Dec. 30, 2012

Crystal-plastic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	lithology from igneous group)	CP fabric type	CP fabric intensity	CP fabric intensity rank	CP fabric boundary geometry	CP fabric boundary sharpness	CP fabric sense of shear	CP fabric comments	serpentine network preferred orientation	serp intensity rank	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]	
											n				225	70	135	40	270	45	180	60	225	70	
						fabric	intensity cp fabric	[auto	geometry	structure	displ	[soft list]	intensity serp fabric	[auto]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	
						planar (S)	undeformed	0	irregular	sharp	n	spacing	random	0	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90	
						planar-linear (L-S)	weakly foliated/lineated	1	planar	diffuse	r	S-C fabric	weakly oriented	1											
						linear (L)	strongly foliated/lineated	2			s	recrystallized grains	moderately oriented	2											
						brittle-plastic (Bp) planar	porphyroclastic/(protomylonite)	3			d	2 mm spacing	strongly oriented	3											
							mylonite	4			ns	anastomosing													
							ultramylonite	5			nd	spinel lineation													
											rs														
											rd														
			piece																						
1415-13R-4A	42	<17	7					0						0											
	47	98	8					0						0											
	98	110	9					0						0											
	110	128	10					0						0											
	128	134	11					0						0											
	134	143	12					0						0											
1415156-1A	0	8	1					0						0											pyrite
	8	12	2					0						0	alt. sinter? w/ relict px clasts										
	12	18	3					0						0											
	18	25	4					0						0											
Jan. 3, 2013																									
U1415J2G-1A	1	3	rubble		(diabase)			0						0											
U1415J3R-1A	0	3	rubble					0						0											
	4	6	rubble																						
	6	10	rubble		diabase			0																	
	11	17	rubble					0																	
	17	21	rubble					0																	
	21	28	?					0						0											
	29	32	rubble					0						0											
	32	40						0																	
	40	43	rubble					0																	

Crystal-plastic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	lithology from igneous group)	CP fabric type	CP fabric intensity	CP fabric intensity rank	CP fabric boundary geometry	CP fabric boundary sharpness	CP fabric sense of shear	CP fabric comments	serpentine network preferred orientation	serp intensity rank	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]
											n				225	70	135	40	270	45	180	60	225	70
						fabric	intensity cp fabric	[auto	geometry	structure	displ	[soft list]	intensity serp fabric	[auto]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]
						planar (S)	undeformed	0	irregular	sharp	n	spacing	random	0	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90
						planar-linear (L-S)	weakly foliated/lineated	1	planar	diffuse	r	S-C fabric	weakly oriented	1										
						linear (L)	strongly foliated/lineated	2			s	recrystallized grains	moderately oriented	2										
						brittle-plastic (Bp) planar	porphyroclastic/(protomylonite)	3			d	2 mm spacing	strongly oriented	3										
							mylonite	4			ns	anastomosing												
							ultramylonite	5			nd	spinel lineation												
											rs													
											rd													
Jan. 03, 2013																								
U1415J3R-1A	43	49	rubble					0						0										
	49	56	rubble					0																
	56	64	"					0																
	64	70	"					0																
	70	75	"																					
	75	78	"																					
	78	85	"																					
U1415J4R1-W	0	10						0														Jan. 5, 2013		
	10	13						0																
	13	20						0																
	20	23		piece				0																
*U1415J5R1	1	5		1				0				(felsic ultrafg?) possible zircon sample??												
	5	8		2				0																
	8	12		3				0																
	12	20		4				0																
	20	24		5				0																
	24	28		6				0																
	28	32		7				0																
	32	44		8				0																
	44	47		9				0																
	47	50		10				0																
	50	59		11				0																
	59	69		12				0																
	69	80		13				0																

Crystal-plastic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	lithology from igneous group)	CP fabric type	CP fabric intensity	CP fabric intensity rank	CP fabric boundary geometry	CP fabric boundary sharpness	CP fabric sense of shear	CP fabric comments	serpentine network preferred orientation	serp intensity rank	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]
											n				225	70	135	40	270	45	180	60	225	70
						fabric	intensity cp fabric	[auto	geometry	structure	displ	[soft list]	intensity serp fabric	[auto]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]
						planar (S)	undeformed	0	irregular	sharp	n	spacing	random	0	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90
						planar-linear (L-S)	weakly foliated/lineated	1	planar	diffuse	r	S-C fabric	weakly oriented	1										
						linear (L)	strongly foliated/lineated	2			s	recrystallized grains	moderately oriented	2										
						brittle-plastic (Bp) planar	porphyroclastic/(protomylonite)	3			d	2 mm spacing	strongly oriented	3										
							mylonite	4			ns	anastomosing												
							ultramylonite	5			nd	spinel lineation												
											rs													
											rd													
Jan. 5, 2013				piece																				
U1415J 5R-1A	80	85		14				0																
	85	91		15				0																
	91	98		16				0																
	98	128		17a,b				0																
	128	144		18				0																
U1415J 5R-2	0	23		1				0																
	23	41		2				0																
	41	65		3				0																
U1415J 6G-1A	0	4		1				0																
	4	7		2				0																
	7	11		3				0																
	11	15		4				0																
	15	22		5				0																
	22	25		6				0	(cataclasite)															
	25	31		7				0																
	31	35		8				0																
	35	38		9				0																
	38	42		10				0																
	42	45		11				0																
U1415J 7G-1	0	4		1				0																
	4	9		2				0	qtz. vein w/ vugs															
	9	17		3				0																
	17	26		4				0																

Crystal-plastic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	lithology from igneous group)	CP fabric type	CP fabric intensity	CP fabric intensity rank	CP fabric boundary geometry	CP fabric boundary sharpness	CP fabric sense of shear	CP fabric comments	serpentine network preferred orientation	serp intensity rank	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]
											n				225	70	135	40	270	45	180	60	225	70
						fabric	intensity cp fabric	[auto	geometry	structure	displ	[soft list]	intensity serp fabric	[auto]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]
						planar (S)	undeformed	0	irregular	sharp	n	spacing	random	0	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90
						planar-linear (L-S)	weakly foliated/lineated	1	planar	diffuse	r	S-C fabric	weakly oriented	1										
						linear (L)	strongly foliated/lineated	2			s	recrystallized grains	moderately oriented	2										
						brittle-plastic (Bp) planar	porphyroclastic/(protomylonite)	3			d	2 mm spacing	strongly oriented	3										
							mylonite	4			ns	anastomosing												
							ultramylonite	5			nd	spinel lineation												
											rs													
											rd													
Jan. 5, 2013																								
UHISJ7G-1A	26	35		5				0																
	35	42		6		planar	weaky	1				coarsegrained w/ thin tails	across entire piece											
	42	49		7				0																
	49	57		8				0																
	57	64		9				0																
	64	71		10				0																
	71	77		11				0																
	77	80		12				0																
	80	91		13				0																
	91	98		14				0																
	98	107		15				0																
	107	125		16				0																
	125	137		17				0																
	137	146		18				0																
U1415J7G-2	0	9		1				0																
	9	17		2				0																
	17	26		3				0																
	26	31		4				0																
	31	38		5				0																
	38	50		6				0																
	50	59		7				0																
U1415J8R-1	0																							

Crystal-plastic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	lithology from igneous group)	CP fabric type	CP fabric intensity	CP fabric intensity rank	CP fabric boundary geometry	CP fabric boundary sharpness	CP fabric sense of shear	CP fabric comments	serpentine network preferred orientation	serp intensity rank	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]
											n				225	70	135	40	270	45	180	60	225	70
						fabric	intensity cp fabric	[auto	geometry	structure	displ	[soft list]	intensity serp fabric	[auto]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]
						planar (S)	undeformed	0	irregular	sharp	n	spacing	random	0	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90
						planar-linear (L-S)	weakly foliated/lineated	1	planar	diffuse	r	S-C fabric	weakly oriented	1										
						linear (L)	strongly foliated/lineated	2			s	recrystallized grains	moderately oriented	2										
						brittle-plastic (Bp) planar	porphyroclastic/(protomylonite)	3			d	2 mm spacing	strongly oriented	3										
							mylonite	4			ns	anastomosing												
							ultramylonite	5			nd	spinel lineation												
											rs													
											rd													
Jan 6, 2013				piece																				
U1415J8R-2A	0	17		1				0					mod.	2	ol									
	17	24		2				0																
	24	33		3				0																
	33	38		4				0																
	38	53		5				0																
	53	57		6				0																
	57	76		7				0																
	76	105		8				0																
	105	123		9				0																
	123	130		10				0																
	130	136		11				0																
	136	140		12				0																
	140	149		13				0																
U1415BR-3A	0	7		1				0																
	7	10		2				0																
	10	14		3				0																
	14	22		4				0																
	22	30		5				0																
	30	43		6				0																
	43	61		7				0																
	61	74		8				0																
	76	93		9				0					beautiful plg wrapped around ol.											
	93	103		10				0																
	103	104		11				0																
	104	124		12				0																
	124	128		13				0																
	128	134		14				0																
	134	142		15				0																

see Bob Lowinsky notes + photos (*) (over)

*check ts

Crystal-plastic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	lithology from igneous group)	CP fabric type	CP fabric intensity	CP fabric intensity rank	CP fabric boundary geometry	CP fabric boundary sharpness	CP fabric sense of shear	CP fabric comments	serpentine network preferred orientation	serp intensity rank	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]
											n				225	70	135	40	270	45	180	60	225	70
						fabric	intensity cp fabric	[auto	geometry	structure	displ	[soft list]	intensity serp fabric	[auto]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]
						planar (S)	undeformed	0	irregular	sharp	n	spacing	random	0	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90
						planar-linear (L-S)	weakly foliated/lineated	1	planar	diffuse	r	S-C fabric	weakly oriented	1										
						linear (L)	strongly foliated/lineated	2			s	recrystallized grains	moderately oriented	2										
						brittle-plastic (Bp) planar	porphyroclastic/(protomylonite)	3			d	2 mm spacing	strongly oriented	3										
							mylonite	4			ns	anastomosing												
							ultramylonite	5			nd	spinel lineation												
											rs													
											rd													
				piece																				
U14BJ10R-1A	0	9		1				0					weak	1	d only									
	9	20		2				0																
	20	28		3				0																
	28	35		4				0					weak	1	d only									
	35	39		5				0																
	39	56		6				0																
	56	63		7				0																
U14BJ8R-1	0	5		1				0																
	5	12		2				0																
	12	17		3				0																
	17	21		4				0																
	21	27		5				0																
	27	32		6				0																
	32	38		7				0																
	38	43		8				0																
	43	48		9				0																
	48	54		10				0																
	54	62		11				0																
	62	72		12				0																
	72	89		13				0																
	89	108		14				0																
	108	113		15				0																
	113	122		16				0																
	122	134		17																				
	134	147		18																				

Conjugate

Crystal-plastic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	lithology from igneous group)	CP fabric type	CP fabric intensity	CP fabric intensity rank	CP fabric boundary geometry	CP fabric boundary sharpness	CP fabric sense of shear	CP fabric comments	serpentine network preferred orientation	serp intensity rank	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]
											n				225	70	135	40	270	45	180	60	225	70
						fabric	intensity cp fabric	[auto	geometry	structure	displ	[soft list]	intensity serp fabric	[auto]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]
						planar (S)	undeformed	0	irregular	sharp	n	spacing	random	0	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90
						planar-linear (L-S)	weakly foliated/lineated	1	planar	diffuse	r	S-C fabric	weakly oriented	1										
						linear (L)	strongly foliated/lineated	2			s	recrystallized grains	moderately oriented	2										
						brittle-plastic (Bp) planar	porphyroclastic/(protomylonite)	3			d	2 mm spacing	strongly oriented	3										
							mylonite	4			ns	anastomosing												
							ultramylonite	5			nd	spinel lineation												
											rs													
											rd													

Jan. 6, 2013

				DIRCE																				
U14B19R-1A	0	9		1				0																
	9	17		2				0																
	17	29		3				0																
	29	34		4				0																
	34	39		5				0																
	39	42		6				0																
	42	66		7				0																
	66	82		9				0																
	82	85		10				0																
	85	88		11				0																
	88	91		12				0																
	91	94		13				0																
	94	97		14				0																
	97	101		15				0																
	101	110		16				0																
U14I5J11R-1	0	5		1				0																
	5	17		2				0																
	17	22		3				0																
	22	29		4				0																
	29	37		5				0																
	37	44		6				0																
	44	49		7				0				beautiful qtz clasts in qtz.												

Crystal-plastic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	lithology from igneous group)	CP fabric type	CP fabric intensity	CP fabric intensity rank	CP fabric boundary geometry	CP fabric boundary sharpness	CP fabric sense of shear	CP fabric comments	serpentine network preferred orientation	serp intensity rank	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]
											n				225	70	135	40	270	45	180	60	225	70
						fabric	intensity cp fabric	[auto	geometry	structure	displ	[soft list]	intensity serp fabric	[auto]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]
						planar (S)	undeformed	0	irregular	sharp	n	spacing	random	0	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90
						planar-linear (L-S)	weakly foliated/lineated	1	planar	diffuse	r	S-C fabric	weakly oriented	1										
						linear (L)	strongly foliated/lineated	2			s	recrystallized grains	moderately oriented	2										
						brittle-plastic (Bp) planar	porphyroclastic/(protomylonite)	3			d	2 mm spacing	strongly oriented	3										
							mylonite	4			ns	anastomosing												
							ultramylonite	5			nd	spinel lineation												
											rs													
											rd													

Jan. 7, 2013

DON'T USE (piece 1)

U1415J12R-2A	0	9						0						0										
U1415J13R-1A	0	44		38 –	52			0						2	270	45								
U1415J14R-1A	0	25						0				(*) note piece 7 52-58cm xe 5-8mm thick zone lot lot T "dolerite" dip, CP 4 of serp + smectite												
check may corr. piece #3 ? at 14sp. NO																								
U1415J15G-1A	0	69						0																
U1415J12L-1	0	10						0																
	10	14						4	a weakened unevenly foliated chl															
	14	44						0																
	44	50						2 ? u-serp (2 ½cm thick zone of CP2)																
	50	146						0	? replacive epidote															
U1415J12R-2	0	9						0																

Crystal-plastic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	lithology from igneous group)	CP fabric type	CP fabric intensity	CP fabric intensity rank	CP fabric boundary geometry	CP fabric boundary sharpness	CP fabric sense of shear	CP fabric comments	serpentine network preferred orientation	serp intensity rank	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]
											n				225	70	135	40	270	45	180	60	225	70
						fabric	intensity cp fabric	[auto	geometry	structure	displ	[soft list]	intensity serp fabric	[auto]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]
						planar (S)	undeformed	0	irregular	sharp	n	spacing	random	0	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90
						planar-linear (L-S)	weakly foliated/lineated	1	planar	diffuse	r	S-C fabric	weakly oriented	1										
						linear (L)	strongly foliated/lineated	2			s	recrystallized grains	moderately oriented	2										
						brittle-plastic (Bp) planar	porphyroclastic/(protomylonite)	3			d	2 mm spacing	strongly oriented	3										
							mylonite	4			ns	anastomosing												
							ultramylonite	5			nd	spinel lineation												
											rs													
											rd													
Jan. 12, 2013					piece 1			0																
U14153 17G1			0	8	1		fine cracks	4	CWT	Chl+prehnite		cataclasite												
			8	12	2		premature cut by		minor	v.thin,		sparse prehnite	jean											
							Contact w/	?	altered	/ replaced		fractures												
								0																
U14153 BK1A			0	8	1			0																
			8	15	2			0																
			15	25	3			0																
			25	30	4			0	basalt w/ ol xenocryst (? pyroxene) altered + serp. cut by fine veins															
			30	39	5			0																
			39	45	6			0																
			45	55	7			0	? basalt as aggregate altered fractures															
			55	67	8			0																
			67	73	9			0																
			73	81	10			0	fractures															
			81	85	11			0																
			85	91	12			0																
			91	96	13			0																
			96	107	14			0																
			107	115	15																			
			115	128	16																			
			128		17																			

Crystal-plastic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	lithology from igneous group)	CP fabric type	CP fabric intensity	CP fabric intensity rank	CP fabric boundary geometry	CP fabric boundary sharpness	CP fabric sense of shear	CP fabric comments	serpentine network preferred orientation	serp intensity rank	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]
											n				225	70	135	40	270	45	180	60	225	70
						fabric	intensity cp fabric	[auto	geometry	structure	displ	[soft list]	intensity serp fabric	[auto]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]
						planar (S)	undeformed	0	irregular	sharp	n	spacing	random	0	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90
						planar-linear (L-S)	weakly foliated/lineated	1	planar	diffuse	r	S-C fabric	weakly oriented	1										
						linear (L)	strongly foliated/lineated	2			s	recrystallized grains	moderately oriented	2										
						brittle-plastic (Bp) planar	porphyroclastic/(protomylonite)	3			d	2 mm spacing	strongly oriented	3										
							mylonite	4			ns	anastomosing												
							ultramylonite	5			nd	spinel lineation												
											rs													
											rd													

Jan. 13, 2013

1415J19R-1A		0	57					0																
		57	94					0																
U1415J20R1A		0	19					0																
U1415J21R1A		0	17					0																
to ⊛		17	24					4-5?	In strain localized in reactivated weakened minerals															
		24	28																					
								0				fractured prehnite veinlets (w/ chl)		subvertically oriented										
		44	64					0																
								0																
		113	125					0				subvertical prehnite veins												
		125	132					0																
U1415J21R2-A		0	31					0			vertically fractured prehnite + chl ? cataclasite													
U1415J22R-1A	0	0	12					0				w/ epidote veins cut chl + prehnite (?)												
U1415J23R-1A		0	55					0																
		18	34					—				w/ subvertical zone of prehnite + cataclasis												
U1415J24R-1A		0	67					0																
		6	9					2				thin zone ? a tuck of sub-brittle def. of chl + prehnite ± epidote												
		9	27					0																

Crystal-plastic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	lithology from igneous group)	CP fabric type	CP fabric intensity	CP fabric intensity rank	CP fabric boundary geometry	CP fabric boundary sharpness	CP fabric sense of shear	CP fabric comments	serpentine network preferred orientation	serp intensity rank	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]
											n				225	70	135	40	270	45	180	60	225	70
						fabric	intensity cp fabric	[auto	geometry	structure	displ	[soft list]	intensity serp fabric	[auto]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]
						planar (S)	undeformed	0	irregular	sharp	n	spacing	random	0	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90
						planar-linear (L-S)	weakly foliated/lineated	1	planar	diffuse	r	S-C fabric	weakly oriented	1										
						linear (L)	strongly foliated/lineated	2			s	recrystallized grains	moderately oriented	2										
						brittle-plastic (Bp) planar	porphyroclastic/(protomylonite)	3			d	2 mm spacing	strongly oriented	3										
							mylonite	4			ns	anastomosing												
							ultramylonite	5			nd	spinel lineation												
											rs													
											rd													
Jan 15, 2013		piece																						
U1415J 26R-1			0	15				0																
		3	15	23													prehnite cataclasite (? replacive)							
		4	23	29													prehnite + epidote veins (network) cata							
		29	33																					
		33	40														prehnite top cataclasite							
				piece																				
		69	75	(15)													epidote vein network through prehnite cataclasite							
U1415J 25G-1			0	40				0																

Crystal-plastic fabric

Sample	Top offset (cm)	Bottom offset (cm)	Top depth [CSF-A] (m)	Bottom depth [CSF-A] (m)	lithology from igneous group)	CP fabric type	CP fabric intensity	CP fabric intensity rank	CP fabric boundary geometry	CP fabric boundary sharpness	CP fabric sense of shear	CP fabric comments	serpentine network preferred orientation	serp intensity rank	dip direction measured	dip angle measured	lineation trend	lineation plunge	apparent dip direction 1	apparent dip plunge 1	apparent dip direction 2	apparent dip plunge 2	dip direction calculated CRF [from Mike calcs]	dip angle calculated CRF [from Mikes calcs]
											n				225	70	135	40	270	45	180	60	225	70
						fabric	intensity cp fabric	[auto	geometry	structure	displ	[soft list]	intensity serp fabric	[auto]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]	[number]
						planar (S)	undeformed	0	irregular	sharp	n	spacing	random	0	0-360	0-90	90-270	0-90	90, 270	0-90	0, 180	0-90	0-360	0-90
						planar-linear (L-S)	weakly foliated/lineated	1	planar	diffuse	r	S-C fabric	weakly oriented	1										
						linear (L)	strongly foliated/lineated	2			s	recrystallized grains	moderately oriented	2										
						brittle-plastic (Bp) planar	porphyroclastic/(protomylonite)	3			d	2 mm spacing	strongly oriented	3										
							mylonite	4			ns	anastomosing												
							ultramylonite	5			nd	spinel lineation												
											rs													
											rd													
feb. 1, 2013																								
7R2	0	94						0																
8R1	0	145						0																
8R2	0	44						0																
~~9R1~~																								
9R1	0	127						0																
	127	128						4/5 prehnite L Archie 1/2 1mm thick																
9R2	0	80						0																
10R1	0	171																						
	121	134						B 5 2 small pebbles of ultracataclasite of cp prehnite																
10R2	0	21						0																
11R1	0	150						0																
11R2	0	36						0																
12R1	0	145						0																
13R1	0	140						0																
13R2	0	113						0																
14R1	0	129						0																
14R2	0	47						0																
15R1	0	44						4/5 1a tuck zone of cp prehnite + smectite alt maly porphyroclasts of prehnite																
15R1	44	47						0																
15R1	47	51						0																
16R1	0	10						0																
16R1	10	17						0																
	17	86						0																
17R1	0	39						0																
18R1	0	112						0																