HOLE No. SR 2

PASMINCO EXPLORATION
DIAMOND DRILL CORE RECORD

754093

Page 1 of

LOCATION	EL 24/91
PROJECT	STERLING RIVER
PROSPECT	STERLING VALLEY
DESIGNED BY	J.G. PURVIS
LOGGED BY	N. McGUNNIGLE
RELOGGED	
COMMENCED	3·4·95
COMPLETED	2·5·95
DRILLED BY	K. HOW
DRILL RIG	LONGYEAR 38

OBJECTIVE

TO TEST THE FARRELL SLATES/MURCHISON VOLCANICS CONTACT FOR MASSIVE SULPHIDES, 500m NORTH OF STRONG HYDROTHERMAL ALTERATION ZONE IN HOLE STP 105.

RESULT

NO MINERALIZATION ON FARRELL/MURCHISON CONTACT. ONLY PATCHY HYDROTHERMAL ALTERATION IN MURCHISON VOLCANICS BELOW THE CONTACT. ZONES OF SULPHIDE VEINING IN FARRELL SLATES, UP TO 2m @ 3.5% Pb+Zn.

LOCATION/SURVEY DATA (AMG)

Grid	AMG	RL Collar m	188.4
Northing m	5 373707.0	Bearing Collar	090.5°
Easting m	384425.4	Dip Collar	−70°
DH Survey Type	EASTMAN CAMERA	Length Hole m	367.6

Depth m	Bearing	Dip	Depth m	Bearing	Dip
30	096°	-67.5°			
63	099.5°	-61.75°			
90	099°	-59.4°			
120	097.5°	-54.75°			
150	098°	-54.25°			
180	097°	-53°			
210	095°	-53°			
240	098.5°	-52.25°			
270	100°	-51.4°			
300	101.75°	-50°			
330	099.25°	-47.75°			
360	100°	-45.25°			

SIGNIFICANT INTERSECTIONS

From m	To m	Interval m	Pb (%)	Zn (%)	Ag (g/t)	As (%)	Sn (%)	Comments
11.5	13.5	2	2.2	1.2	100			Sulphide veinlets in sandstone
17.7	19.6	1.9	1.0	1.0	39			" " " "
84.0	88.25	4.25		0.33		0.36	0.22	Veined & brecciated black shale
197.6	200.5	2.9					0.41	Qtz-sulphide veins.

SIGNIFICANT CORE LOSS

From m	To m	% Lost
7.1	10.0	59
61.9	64.0	43
121.1	122.6	47

POOR GROUND CONDITION ZONES

From m	To m	Condition
78	88	Moderately broken
119	123	Fractured and broken
175.5	178.5	Fractured and broken

HOLE SIZE

Size	Depth m
HQ	18
NQ	367.6

HOLE CONDITIONS AFTER COMPLETION

Collar	STEEL CAP ON HQ STEMPIPE
Steel Casing	3m HQ
PVC Casing	40mm ID PVC PLACED TO BOTTOM
Ground Water	
Wedge	
Drill Pad	REHABILITATED — TOPSOIL + BUTTONGRASS REPLACED

Project : STERLING RIVER
Logged by: J.G. PURVIS
Date : 4TH MAY 1995

PASMINCO EXPLORATION DIAMOND DRILL LOG

HOLE No. SR2

m	VEINING and ALTERATION (1 = weak, 4 = intense)	STRUCTURE b = bedding c = cleavage f = fault Angles to LCA	GRAPHIC LOG	LITHOLOGY	MINERALISATION
0	ox(2) Poor recovery	Mod fractured + broken at intervals throughout f:55	silt/sst, shale, fracts	**FARRELL SLATES** SILTSTONE – SANDSTONE Lesser interbedded grey-black shale.	2-6% gn-sp-py > aspy in veinlets (some dissem py)
2	ser (1) ↑ Trace chl	↓ Mod foliation (gen bedding //) B 48° C 25°		Grey. Fine-med gr. Varies from massive sst beds up to 1m, to finely bedded siltstone/sst. sst: qtzo-feldspathic ± mica. Generally calcareous + slightly carbonaceous. siltst: Sericitic (vitric) +carbonaceous shale: carbonaceous.	2-5% py > gn-sp Dissem + veinlets
4	Common irreg carb ± qtz veins + veinlets av < 10mm (rarely with sulphides)				1-2% py, dissem. Minor veinlets sp-gn
6					
8					Minor to 1% py, mostly dissem.
10					V minor sp-gn-aspy-py veinlets 10
12			ssl/silt sulphide veinlets (py-sp-gn)		1-2% py, dissem Minor sp-gn veinlets
14	Patchy co(2) Predom in sst	kinks	py		3-5% py-sp-gn > cp in qtz veinlets to 8mm.
16					1% py, dissem
18		f kinks // LCA py-sp-gn veinlets B: 52°	Marbly fine sst/siltst HQ NQ		2-3% py-sp-gn in veinlets ± qtz
20		Kink/LCA	shale laminae		20 Minor to 1% py > sp, dissem.
22		Kink 65° Kink // LCA			Minor sp-gn-py veinlets.
24					Minor dissem py
26	chl (1-2) ser (1)				
28					
30		B: 49° (Dips 64° to 270° AMG) f: 55° (// B)			30
32					
34					
36					
38					
40		Fracts			40
42		B: 40°			1-2% py > sp-gn. Trace cp. Dissem veinlets + 5mm py-carb veins
44					Minor py-sp in veinlets + dissem py.
46					
48					
50		Kink // LCA Fracts			

75494

Project : STERLING RIVER
Logged by: NKM
Date : 9-5-95

PASMINCO EXPLORATION DIAMOND DRILL LOG

HOLE No. SR2

m	VEINING and ALTERATION (1 = weak, 4 = intense)	STRUCTURE (b = bedding, c = cleavage, f = fault, Angles to LCA)	GRAPHIC LOG (0.06 mud, 0.5, 2, 8, 32 max mm)	LITHOLOGY	MINERALISATION
50	minor graphite on foliation planes minor chl. (1-2)	B: 38°	v.f. zst & shale lam.		minor py > sp in veinlets & diss py. Patchy sp. in CO.
52		small f: 50° // fol			
54		fract. & broken	v.f. sst	5mm dismembered lime green mafic (?) dyke, 25° (// fol) epi-fuc alt^{d}	
56					
58	qtz-chl veinlets & veins	kink // LCA	sh / zst		
60	CO (2-3)		qtz-py vein sh. lam		CO-25 irregular minor qtz-py vein 5-50 mm
62		kink // LCA	v.f. zst/sh lam		
64		B: 55° (dips 62° to 290° AMG)	v.f. zst/sh lam		
66			silt/shale silt/shale		1-2% diss & veinlet py > sp
68		contact (B) 60°		67.9m	
70	CO (2-3) in patches esp. siltstone beds	moderate fol. B: 60°		BLACK SHALE · minor thin siltstone beds esp. in top 5m · Carbonaceous shale with minor graphite on fol. planes	2-3% py; minor sp diss. & in CO-qtz veinlets & stringers along fol. inc with depth
72		small fold			
74	common irregular carb > qtz veinlets in fol	strong // fol inc. with depth			
76		small folds			
78		C: 60°			
80		mod. broken			2-3% py & sp diss & in veinlets
82		contact gradational		82.4m	
84	Abundant chl-suph net-veinlets CO (1) in patches → patchy sil (2)	partly brecciated & chl-sulph net veining post dates fol. & qtz-chl veining in shales C: 65° P.T.O.	py veins py-sp veinlets	DEFORMED & MINERALISED ZONE IN BLACK SHALE (84) · very strongly foliated & incipiently brecciated · minor graphite on fol. planes (86.4)	3-5% py; min sp diss. & in CO veinlets & stringers 3-5% py-sp-po diss. & veinlets minor aspy-cp 5-10% py-sp-aspy-cp-po (vein-veinlets) (87.5)
86					
88		contact gradational		88.05-88.25 annealed cataclasite	20-25% py > sp-aspy-cp-po
90	chl-qtz veins & veinlets CO (1) in veins & patches	fol 25°		BLACK SHALE, minor deformation, + minor thin siltst beds 90.6 ↓ incr fol. away from def^{d} zone	3-4% py > sp diss & in veinlets
92	CO (2-3) in veinlets & patches esp. in fol. in siltst. beds	91.6m (dips 78° C: 36° to 292° AMG)	v.f. sst shale zst	INTERCALATED SILTSTONE-SHALE · beds of dark-med grey shale & siltst · finer beds strongly fol^{d} · minor graphite on fol planes (shale) (95.5) · some v.f. bedding between zst/shale (96.7)	1% py: diss + veinlets + minor po-aspy-cp min^{n} in thin stringers along 1-3% fol planes 3-5% py-sp-po-cp in veinlets, fol, diss 2-3% py-po-sp-cp diss + in CO veinlets & thin stringers // fol
94			py-sp veinlets		
96					
98		C: 50°			
100					

15409.5

Project : STERLING RIVER
Logged by: NKM
Date : 12-5-95

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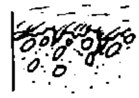
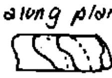
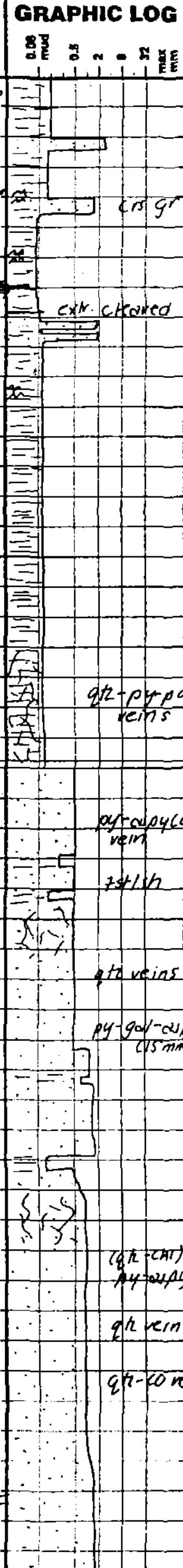
100		sm f: 10°		
102		102.1 – 102.35 ↑	cleaved coarser grained bedding with co clasts (≤20mm long) & intercalated with v.f silt & shale laminae	1(-2)% py > sp-cp po diss & in veinlets of co + stringers // fol
104	104.6: 30mm qtz vein with chl. & sulp. mm – 104.7: 80mm qtz vein	↑ Kink: 15°	cleaved coarse gr. bedding (smaller gr. than above) + qtz crystals	104.7 2.5-3% py-po-cy in qtz vein
106		Kink // LCA		1-3% py-sp-po-cp (as above)
107–108	107.05: qtz-CO vein 60 mm with sulph.	?F/fold fine fol" alongside qtz vein C: 60°; 107.05	107.6 coarse gr. sst, ↑, cleaved; 107.8 extensively cleaved, vuggy & graphitic; 108.5	107.05 10-15% py-sp-po-cp-aspy in qtz vein
108–110	108.6: 40mm qtz-CO; 109: 60mm qtz-CO vein (35° LCA)	micro-kink structures 10-15° LCA		→ py-sp-po-aspy in qtz-co vein
110–114		Kink: 35°	 Fine shale "interfingers" with coarser sst - gravel (1-2mm clasts in sst matrix) -has flame-like structures in defined boundary. -coarser sed. includes rd qtz & co clasts + rip up clasts (≤~10mm) of laminated shale.	
114		C: 46°		114.8 1% py-sp-po-cp diss & veinlets (// to fol)
118				118.6 1-3% po > py-sp-cp-aspy in veinlets (co), patches & diss, commonly // to fol
120–122	119.7 – 121.5 qtz-CO veining	fractured and broken; mod. broken C: 55°	estimated min as only qtz vein remains of broken core; 122.85	→ 5% py-po-sp-cp-aspy in qtz vein
124	chl-co in veinlets (+matrix) (2); ser (1-2)	C: 40° B: 46°	VOLCANICLASTIC MASS FLOW	1-2% py-aspy-po in veinlets + diss.
126–130	129–130: chl 3-4 in strong cleavage	127.4 – 129.3 cleavage "twisted" with 5° variation along plane	-moderate to strongly foliated, mid-grey coloured volcaniclastic mass flow deposit. -upahole fining, with finer matrix composed of sst sized clasts (1-5mm) qtz & feldspar, + rip-up clasts of shale	-veinlets include co & chl, commonly // fol; v. minor sp; v. minor cp
130–134		 strongly fol. + sm. folds in sed. beds 40-50° LCA	From 163.8m downhole, the matrix supported mass flow includes rip-up shale (≤80 x 20mm), sub-angular abraded clasts of qtz & CO (≤20mm), abraded qtz & feldspar crystals, and stretched sericitic pumice (≤40mm) which contain crystals of quartz & feldspar	
136	blotchy ser	C: 40-45°; b: 30° c: 50° fold		
138		broken		138.8 vein
142	qtz-CO veinlets			142.6 qtz vein: py-aspy-gal-sp cp
146		C: 43°	146.2 pumice clasts observed	
148	qtz-CO veinlets & net veinlets	slightly brecciated 146.2 – 146.85		
150				

GRAPHIC LOG



Project : STERLING RIVER

Logged by: NKM

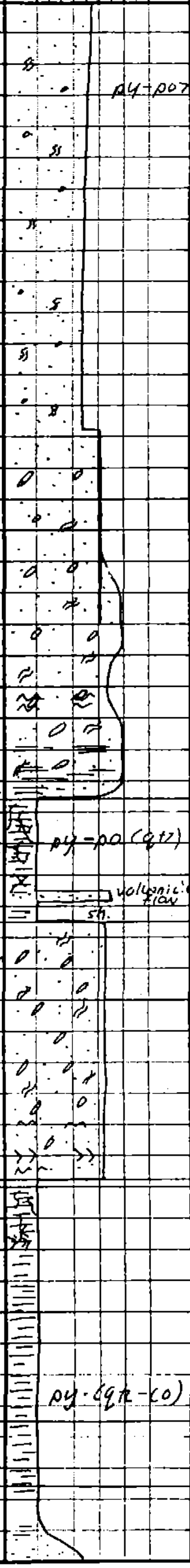
Date : 16-5-95

PASMINCO EXPLORATION
DIAMOND DRILL LOG

HOLE No. SR2

754097

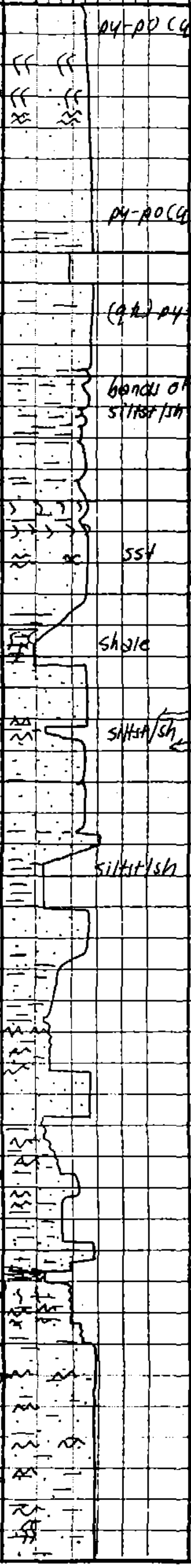
m	VEINING and ALTERATION (1 = weak, 4 = intense)	STRUCTURE b = bedding c = cleavage f = fault Angles to LCA	GRAPHIC LOG	LITHOLOGY	MINERALISATION
150–164	155.5 qtz 50mm 156.1 qtz 50mm 157.5 qtz 40mm 157.65 qtz 40mm qtz-chl vein with sulphides (162–163.4)	C: 45-50°	py-po7sp (qtz (cc7chl)		153.5 py-po-sp in qtz-cc vein 162.1–163.4 py-cp-po aspy in qtz-chl vein
164–175.55	co (2-3) esp in shale lam.	strongly foliated C: 35° Kink: 86° C: 50° at contact		163.8 increasing grainsize - clasts of carb. shale/siltst 7 common + clasts of co, altd feldspar 174.9 rip-up clasts of shale ≤60mm, intercalated with volc. 175.55	174.4 1-2% py-cp + minor aspy-sp diss & co veinlets
176–179.5	co (1-2) in lam's. ser (1) on fol. plane 60mm qtz vein weak chl (1) along some fol. planes	C: 45-50° Fract + broken mod. broken C: 35° at contact	py-po (qtz) volcanic flow sh.	SHALE - moderately foliated black shale with intercalated siltst. (increasing upshole). + lam. of coarser grained volcaniclastic beds. 179.5	1-2% py 7 po - aspy - cp diss. & in stringers parallel to fol. - minor sp.
180–187.7	ser (1) along fol. planes (& in pumice) minor (1) chl co (1-2) in lam. & replacement of feldspar.	contact "feathered" compaction bedding 18° 34° (dips 84° stretched & pebble to 254° AMG) Kink 5° Kink ⊥		HIGHLY CLEAVED PUMICEOUS VOLCANICLASTIC MASS FLOW - contains stretched ser. pumice av. 10-15 mm (≤30mm), which contain abraded qtz + feld xstals. - ser. along fol. planes. - clasts include rip-up shale (≤15 x 7 100mm), co, qtz, siltst. - appears ungraded. 187.7	1-2% py diss + v. minor aspy-sp
188–195.5	co-qtz in veinlets co-qtz net veinlets chl (1-2) in veinlets (// fol)	C: 45° Fract + broken Kink ⊥ mod. foliated	py-(qtz-co)	BLACK SHALE Finely bedded black shale with net veining. Graphite on foliation planes 195.5	2-3% py-cp diss & in veinlets & net veinlets (qtz-co-chl) (7 ab in veinlets) + diss sp & aspy (minor) - minor sp-po-aspy
196–197.6	qtz (4) with 2° co-chl (1) in veinlets	veinlets, some netted (exposed seds/shale) C 88°		QUARTZ VEIN - with network of veinlets infilled with co-chl-& sulph. some interbedded fold seds (shale & volcs, un altd) 197.6	2-4% py - diss + diss in veinlets 1-2% py 7 cp 7 sp - gal at vein + min po. near contact
198–200	net veinlets & qtz veins common			SILTSTONE SHALE	3-6% py-cp-po in veins/veinlets 77 diss. minor sp



Project : sterling River
Logged by: NKM
Date : 16-5-95

PASMINCO EXPLORATION
DIAMOND DRILL LOG

HOLE No. SR2



m	VEINING and ALTERATION (1 = weak, 4 = intense)	STRUCTURE b = bedding c = cleavage f = fault Angles to LCA	LITHOLOGY	MINERALISATION
200–208	- qtz vein 2° chl(1) CO(<1) 200.2 infill in veinlets; 205.8 70mm qtz vein	C: 50-55° fold (sm); ⊥ fold (sm); kink 65°	uphole fining intercalated sand-siltstone shale to very finely bedded black shale. -moderately deformed, fol. 50-65° LCA and small folds common in sediments, perpendicular (⊥) to LCA	200.0–200.5 5-8% py-cp-po; + minor aspy + minor sp.
208.0–209.0	qtz + minor chl(1) in remnant sed.		QUARTZ VEIN PTO.	15-20% py-cp-po aspy in qtz vein
209–220	CO (1-2) esp. in zst/shale beds + replacement CO in crystals (?F); minor chl (1) in patches & along some veins; - qtz veins & veinlets (with 2° CO)	small kinks assoc. with qtz veinlets perp. 25° (5-10mm); C: 39° (dips 88° to 298° AMG); sm. kinks 30° LCA; increasing deformation; 215.8 sm. folds ± ⊥ LCA 217.4; sm. kinks 50-60° LCA; sm. fold ⊥ LCA	SANDSTONE with lesser interbedded siltstone & shale. -medium-coarse grained qtz-feld. sst (ser-glass matrix) with fine beds of siltst/shale. -mod-strong foliation with stretched clasts (1-2mm) & slightly graphitic on foliation planes -increasing deformation downhole (esp. in finer sects). -abraded qtz (crystals) constitute 20-25%	2-3% py-cp-po in qtz (CO) veinlets & veins + diss; minor - 1% py; diss & "diss" along fol. planes + in fine stringers // fol. in shale beds. v. minor po-cp-aspy. -sp
220–230	227.0 CO (2°) clasts; 228.2 (1-2) 15mm qtz vein	Fract + broken; C: 50° LCA; small kink ⊥ LCA; small kinks and deformation ⊥ LCA	(qtz)-py-po; (qtz)-po-py-aspy; sericitic alteration clearly in coarser grained sst (1-2)	221: py-cp-po-sp-aspy; minor min^n (") along kinks; 228.3–229.2 1% py > po (in sh/siltst); minor aspy in CO veinlets
230–240	(approx) CO increasing (2-3) in bedding & fol^n; ser (2-3)	C: 50°; kink ⊥; sm. kinks 80-90°; increasingly common deformation with small kinks, folds and faults, commonly ⊥ ± 10° LCA; sm. k & folds ⊥ LCA; kink 80-90°	239.8–240.4 sericitic coarse grained volcaniclastics with minor interbedded fine siltst. 240.8–241.3 -abraded qtz gr. abundant graphitic & pyggy	
240–250		F: (fract + broken); sm f: 40°; sm. fold ⊥; kinks: 35-50°; kinks: 30-50; kink: 30°; kinks: 40-50; kinks ⊥ ± 20; strongly foliated C: 40-50°; kink //; kink ⊥	246.0 Farrel Fault zone -very finely bedded & foliated med-crs grained sst with siltst. sst contains abundant qtz (25%); ser.	248.4 1-3% po-py-cp diss + diss in veinlets (// fol)

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Project : Sterling River
Logged by: N.K.M
Date : 17-5-95

PASMINCO EXPLORATION DIAMOND DRILL LOG

HOLE No. SR2

m	VEINING and ALTERATION (1 = weak, 4 = intense)	STRUCTURE (b = bedding, c = cleavage, f = fault, Angles to LCA)	GRAPHIC LOG	LITHOLOGY	MINERALISATION
0				250.5 Volcaniclastic sst & deformed zone - interbedded	
252		c: 50° contact		252.4 volc. sst with siltst.	
254	ser (2) anastomising parallel foliation planes chl (1-2) along cleavage planes minor chl (≤1)	cleavage:		MURCHISON VOLCANICS -cleaved and foliated, light grey volcanics. Anastomising cleavage has mineralisation (diss) along planes -stretched qtz (± feld) crystals // fol.	1-3% py-po-cp diss + diss in veinlets // fol
256		C: 50-65°	py-sp		256.4 py-sp veinlet
258	CO (2) in veinlets // fol				1-3% po-py-cp diss + diss in
260	CO (1-2) in veinlets & veins chl (2-3) sil (2-3) in patches			259.6 ALTERED FELSIC VOLCANIC undetermined, uniform & massive felsic volcanic. -moderate foliation decreased downhole	veinlets (// fol)
262					
264	chl (1-2) v'let & patche ser (1)	C: 45°-50° kink: 60°			
266		fractures: 50°; 55°		- light grey colour varies with alteration type, from dark green - bleached cream -chl-ser-sil alteration is common along anastomising cleavage planes	1% py-po-cp diss & diss in veinlets
268	CO (minor-1) in veinlets & micro-veinlets				1-3% py-po-cp
270					
272		271.6 58° (dips 76° to 256° AMG)		- qtz crystals common; some fractured and sub-anhedral -sil alteration mod-strong in blotchy patches which are stretched with cleavage (some contain qtz crystals ∴ D2 feature)	
274		C: 60-70°			274.1
276	qtz veins 274.85 common 5-70 mm (± chl-CO) 276.7		qtz-chl vein		1-3% po-py-cp ± dsply diss & diss in veinlets
278					qtz-ch veins with py-purp
280					
282					
284					
286					
288					
290	15 mm min° vein (+chl) chl stretches in patches (2-4 mm)		py-po-cp (15mm)	289.6 pebo.	289.0 py-po-cp vein
292	292.0 qtz veins with 2° CO + chl + min				289.0 1-2% py-po-sp -gal in patches in veinlets (// fol)
294	293.85 294.25 qtz vein: 30mm 294.5 -294.9 qtz veins: ≤15mm				2-3% py-dsply-sp-po-cp-gal 1-2% py-po-dsply-cp minor-1% py-po ± cp
296		C: 50-65°			
298					
300	299.5 (see p. 7)			299.5 increased bleaching	

Project : Sterling River
Logged by: NKM
Date : 23-5-95

PASMINCO EXPLORATION DIAMOND DRILL LOG

HOLE No. SR2

m	VEINING and ALTERATION (1 = weak, 4 = intense)	STRUCTURE b = bedding c = cleavage f = fault Angles to LCA	GRAPHIC LOG (0.06 mud, 0.5, 2, 8, 32, max mm)	LITHOLOGY	MINERALISATION
300	ser (2) esp. // fol				
302	co (1-2) in veinlets + crystal replacement	301.6 (dips 78° C: 56° to 257 AMG)			
304	303.4 co-chl veins (≤10mm)		qtz-py	-murky, ~20mm	diss py (1%)
306	qtz + S_2 min	sm. f C: 58-60° sm. kinks (⊥ LCA)	qtz-py-cp		qtz-py veins (+cp)
308				308.5 - sil (2°) blotches, 309.2 (≤15mm)	minor (<1%) sp in veinlets + diss
310					
312					
314	313.4 (not defined with boundary)			decreased bleaching: darker grey-green colour	
316					
318					317.6 1-2% sp-cp-py in veinlets + 319.4 diss in v'lets
320	co vein, 10mm			transgressive increase in bleaching	321.0
322	322.2 sil (1-2) 323.0	sm. kinks ⊥ to LCA			2-3% sp-gal-py-cp in veinlets (//fol) + diss py
324	chl assoc. with some veinlets				
326		C: 59-62°			325.2 325.4 2-3% sp-cp-py gal-po-py veinlets + gal veinlets
328	sil (1-2) in patches				
330					
332		331.6 (dips 68° to 267° AMG)			1% py-sp-po in patches in veinlets & in thin veinlets // fol. minor diss py
334					
336		C: 65°			
338					
340					
342					341 2-3% py-po-cp-sp diss + diss in veinlets //fol
344					342.4 minor - 1% py-sp, diss + diss along fol. 344.9 po veinlets 345.3 py-cupy-cp-sp veinlets (co+chl)
346		C: 55° 346.7 (10mm) f weaker cleavage (less defined) below fault	(co-chl) py-cupy-cp-sp veinlets; sp veinlets	min.^ assoc with fault movement - sp band on upper contact - py in veinlet & diss within the bleached, weakened fault zone	
348					348.9 (not defined boundary) 349 1% py (diss)
350		350			

Project : Sterling River
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Date : 1-6-95

PASMINCO EXPLORATION
DIAMOND DRILL LOG

HOLE No. SR2

754101

m	VEINING and ALTERATION (1 = weak, 4 = intense)	STRUCTURE (b = bedding, c = cleavage, f = fault; Angles to LCA)	GRAPHIC LOG (0.06 mud, 0.5, 2, 8, 32, max mm)	LITHOLOGY	MINERALISATION
350–359.8		C: 60°		359.8	1% py (diss) minor - diss + in micro-stingers // fol; 358.6 minor sp veinlet
360–361.6	CO (1-2) in veinlets; Chl (1-2) " "; sil (1-2) in patches	C: 60° (dips 72° to 278° AMG); 361.5		Tuffaceous siltstone interflow zone (see below*) 361.6	1-3% po-cp-aspy ?sp in veinlets + diss in patches // fol
362–367.6	Chl (2-3), pervasive & concentrated in whispy lenses // fol; ser (1) in blebs (inc ↓); CO (1) 2° + veinlets	C: 62°		MASSIVE VOLCANICS (? rhy) greenish-grey porphyritic volcanics, containing abundant qtz phenocrysts, 2-3mm (mostly anhedral, partly corroded/fractured) evenly distributed) - mod foliated, unbroken; 367.6 EOH	minor - 1% py-sp diss + diss along cleavage

* Mid-dark grey siltized tuffaceous zone
- chl-co banding along cleavage (masks possible visible bedding or grading)
- mid-light grey varies with alteration to chl- darker grey-green