HOLE No. SR3

PASMINCO EXPLORATION
DIAMOND DRILL CORE RECORD

Page 1 of

LOCATION	STERLING RIVER
PROJECT	EL 24/91
PROSPECT	STERLING VALLEY MINE
DESIGNED BY	J.G. PURVIS
LOGGED BY	J.G. PURVIS
RELOGGED	
COMMENCED	5.5.95
COMPLETED	19.6.95
DRILLED BY	K. HOU
DRILL RIG	LONGYEAR 38

OBJECTIVE

TO TEST THE MASSIVE SULPHIDE POTENTIAL OF THE INTENSE ALTERATION IN THE MURCHISON VOLCANICS IN HOLE STP 96

RESULT

INTENSELY-ALTERED MURCHISON VOLCANICS INTERSECTED. WIDESPREAD SUB-ECONOMIC Pb-Zn-As-Au MINERALIZATION IN LODES IN FARRELL SLATES.

LOCATION/SURVEY DATA (AMG)

Grid	AMG		RL Collar m	261.5
Northing m	S 371940.9		Bearing Collar	090.15°
Easting m	383688.0		Dip Collar	-70.25°
DH Survey Type	THEODOLITE - G. WATTS		Length Hole m	512.0

Depth m	Bearing	Dip	Depth m	Bearing	Dip
EASTMAN CAMERA :					
30	090.7°	-70.25°			
61	091.25°	-70.7°			
91	090.75°	-70.5°			
121	091°	-70°			
151	092°	-69.8°			
181	091°	-69°			
211	092.5°	-68.5°			
241	093.5°	-66.4°			
271	094.25°	-64°			
304	095°	-62.6°			
331	095°	-62°			
361	095°	-61.5°			
391	095.5°	-61°			
421	095°	-60.25°			
451	097°	-58.4°			
481	097.25°	-55°			
511	098°	-50.25°			

SIGNIFICANT INTERSECTIONS

From m	To m	Interval m	Pb	Zn	Ag	Au	As	Sn	Comments
182.2	184.3	2.1	2.65%	2.9%	41 g/t	0.23 g/t	1.11%		Lode in Farrell Slates
278	279	1.0				0.63 g/t	5.0%	0.07%	" " " "
301	302	1.0	0.86%	0.37%	10 g/t				" " " "
307	307.75	0.75		0.12%				0.28%	" " " "
470	471	1.0	0.15%	0.97%	5 g/t				Murchison Volcanics

SIGNIFICANT CORE LOSS

From m	To m	% Lost
20	37.9m	20

POOR GROUND CONDITION ZONES

From m	To m	Condition
19.5	65	Clayey, faulted + broken
65	74	Badly sheared + broken (Henty Fault)
128	134.5	Broken + sheared black shale

HOLE SIZE

Size	Depth m
HQ	41.9
NQ	431.9
BQ	512.0

HOLE CONDITIONS AFTER COMPLETION

Collar	STEEL CAP ON HQ CASING
Steel Casing	42m HQ, 0-42m. 115m NQ 317-432m, incl NQ BARREL
PVC Casing	NONE
Terminal Water	
Wedge	
Drill Pad	ON TRACK - SUMP FILLED IN

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Project : STERLING RIVER
Logged by: J.G. PURVIS
Date : 23·5·95

PASMINCO EXPLORATION DIAMOND DRILL LOG

HOLE No. SR 3

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
0					
2		Approx 3m of core recovered		GLACIAL BOULDERS Largely Owen Conglomerate. Also: chloritised qtz-feld porphyritic volcanics ± granite?	
4					
6					
8					
10					
12					
14					
16					
18				19.5m (approx)	
20	chl (3) ox (2) Leached, with vugs after co.	Mod-strong foliation C:12° Soft clayey faulted + broken f by faults // fol, as shown		MAFIC VOLCANICLASTIC Pyroclastic? Bleached frags 5-40mm (often stretched) in chloritic matrix with feldspars. MAFIC VOLCANICS Green or khaki	
22					
24				DOLERITE OR ANDESITE Common felds 1-2mm. Weak sub-ophitic texture in places.	Minor dissem + veinlet py
26		f			
28		f		MAFIC VOLCANICLASTIC Epiclastic? Ble, stretched, sub-angular clasts av 5-20mm of unident volcs, in feld-rich matrix. ANDESITE? Feld-phyric volc.	Minor dissem py
30	ser-chl (2) ble (1)	f: 20°		ANDESITIC VOLCANICLASTIC Pyroclastic? Ble, angular, stretched frags + patches av 5-40mm, to 250mm. Weak sub-ophitic texture in matrix in places.	
32		f: 30°			
34	chl (3) ser (1) fuc-co (1)	Strong foliation C: 27° f		FOLIATED ANDESITE Felds to 2mm. Clastic texture in places.	Trace dissem py
36	co (3) chl-ser (2-3) Abund irreg co veinlets + blebs // fol. Lesser qtz-co veins commonly dismembered by deformation.	f	No felds		
38			Frags to 10mm		
40		V strong foliation with kinks + crenulations C: 35°		MAFIC SCHIST After andesite. fi-med gr. Soft + greasy.	
42		Broken C: 35° along fol			
44		Fault plane 45° (// fol)		44.7m	
46	ser > ble > sil-co (3) Common qtz-co ± chl veins to 250mm, irreg + brecciated, gen at high angle to foliation.	strongly foliated & broken C: 40° f (// fol)		DEFORMED MAFIC VOLCANIC Bleached sericitic schist ← ptz-veined black shale ← altered feld-phyric volc (prob andesite). MIXED FAULTED ZONE	1% py (dissem) + aspy-gn-sp or cp in veinlets + qtz-carb (most at // to Ls to foliation). Sulphides bett in zones of "cherty" silica.
48		f 20°	qtz veins		
50			qtz vein		

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Project : STERLING RIVER
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Date : 24·5·95

PASMINCO EXPLORATION DIAMOND DRILL LOG

HOLE No. SR 3

m	VEINING and ALTERATION (1 = weak, 4 = intense)	STRUCTURE (b = bedding, c = cleavage, f = fault, Angles to LCA)	GRAPHIC LOG	LITHOLOGY	MINERALISATION
50	Qtz veins	Fault cataclasite →		Piggy black shale	1% py-sp>gn dissem.
52	chl-ser-co (2-3) Abund qtz-co veinlets	V Strongly foliated + broken f 35° (//fol) f 20° contorted + brx fol		CHLORITE-SERICITE SCHIST AFTER MAFIC VOLC. MIXED FAULTED ZONE	sp veinlets cutting fol
54	ser-ble ± co-chl (3)	f 40° c:45° brx		QTZOSE SST + BLACK SHALE FOLIATED + BRECCIATED CHLORITE-SERICITE SCHIST AFTER MAFIC VOLC	Minor dissem py, trace sp-gn in veinlets.
56	chl > ser > co (3) Brecciated qtz-co veins 400m qtz-tourm? vein →	Contact 40° (fol)		57.1m	
58	co > chl (+ talc?) (3) Irreg co veinlets throughout.	Broken. V strong fol c:28° with common shears		Pale green, soft + greasy. Deformed + altered volc with common felds 1-2mm. FOLIATED ANDESITE	Minor dissem py, rare sp-gn
60					
62		c:38°			
64	Fractured (2-3)	Fault plane 20° (// fol)		65.1m	Minor dissem sp-gn-aspy-py
66	sil > ser-chl (sst) (2-3) Brecciated qtz-co veins	f:35° Strongly sheared with zones of puggy cataclasite		← Mafic volc cataclasite ← shale / sst cataclasite Strongly sheared + brecciated GRAPHITIC BLACK SHALE + FINE QUARTZOSE SANDSTONE MAJOR BRITTLE FAULT ZONE (HENTY FAULT)	2% dissem py
68					2% dissem py, minor dissem + veinlet sp. Py best in shale, sp in sst + qtz-co veins.
70		Badly broken f:25°			
72		f:30°			
74	ser-sil-co (2) Minor chl.	Contact 38° (f) V strong foliation, folded in places, sst boudinaged + brecciated.	sericitic schist	73.85m FARRELL SLATES Grey. Sst: Qtz grains <0.5mm, in matrix of silica-carbonate + carbonaceous material. Strong tectonic deformation. DEFORMED FINE QUARTZOSE SANDSTONE Lesser siltstone + black (graphitic) shale	Minor py + sp
76					Minor py, dissem
78					
80	sil-co (2) in sst sil patchy. Abund irreg qtz-co (± chl) veinlets + veins in sst (much less in shale + siltstone).		Brx shale		
82		Strong foliation. c:10° sst boudinaged (sub // fol) + brecciated f:45°	pug		1% dissem py (+2% in shale) Trace sp.
84					← 1mm sp veinlet // fol
86		Broken along foliation.			
88		Less ↓ deformed B/c:40°			Minor dissem py. Rare sp.
90		Moderate foliation. c:15° (Dips 89° to 240° AMG)			
92		Broken along foliation (to 98m) c:22°	f 43° (sub // fol)		
94					
96					
98					
100					

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

PASMINCO EXPLORATION DIAMOND DRILL LOG

HOLE No. SR3

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
100	co > sil (2) in sst Abund qtz-co ± chl veinlets	Moderately foliated		SANDSTONE AS BEFORE	1% dissem py
	co-sil (2) in sst ser-chl (1) assoc with veining	Faulted Zone Bk: 5° Badly broken along the strong foliation by numerous small faults 5-20°		numerous black shale bands + laminae	1% sp, veinlets + dissem
110	numerous qtz > co-chl veins // fol to 100mm				Minor to 1% dissem py
		Strong brittle fault 20°			
		Strongly deformed Zone: v strong foliation with brecciation + boudinaging of sst C: 23°		← black shale frags + qtz grains to 1-2mm	Minor to 1% py. Minor sp (mainly sp veinlets)
120	Broken qtz > co-chl veins Tourm ?	f: 35° contorted foliation → f: 10° C: 30°		← black shale with qtz veins	1-2% py, trace sp. 5-10% py > aspy-cp
	sil (2) chl-co (1) Numerous chl veinlets (assoc ± sulphs)	Broken by faults // fol			1-2% py (dissem) Minor sp-gn in qtz-co-chl veins, Trace dissem cp + aspy.
		Contact: broken		126.2m	
	sil-chl (2-3) Bx fill + veinlets	strongly foliated & brecciated 15°		FAULT ZONE Annealed, cataclasite + schist in sandstone + black shale 127.85m	3-5% py > sp, trace gn + cp. Dissem + veinlets. Best sulphides assoc with chl veinlets.
130	Abund qtz-co ± chl veinlets	Contact: broken Faulted Zone: Broken sheared, v strongly foliated 25-30° Zones to 200mm of veined cataclasite f: 30°		very graphitic STRONGLY FOLIATED BLACK SHALE V minor sandstone + siltstone	py = sp
	sil-chl (1) veining locally intense	Strongly foliated Warping + Kinking of fol. B/c 15°	sp	Deformed by bands with qtz grains 5 to 5mm + lithics to 15mm.	2-3% py > sp > gn Dissem + veinlets Much of sp-gn in qtz-co calc veinlets
140	ser (1) Patchy co (3)	Deformation decreasing ↓ Broken in places C: 20°			Rare dissem aspy
		Mod foliation			
150					

RC 4113

Project : STERLING RIVER
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Date : JUNE 1995

PASMINCO EXPLORATION DIAMOND DRILL LOG

HOLE No. SR3

RS4114

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	m
150	qtz-co veinlets // fol	f: 10° broken by cracks // fol; c: 7° Moderately foliated B: 20°		FOLIATED BLACK SHALE as before Very carbonaceous, with graphite on foliation planes.	2-3% disseminated veinlet py. √ minor sp in qtz-co ± chl veinlets. sulphides decreasing ↓	150
160	200mm qtz+co → py vein. Abund qtz-co ± chl veinlets // fol	Broken along fol				160
170		c: 17° Strongly foliated ↓			1-2% py as above. Trace sp+cp	170
180	Common co-chl-tourm veinlets ↓	Mod fract+ broken; c: 22°	strong f: 20° (pug + cataclasite)		← 20mm qtz-co bx ± py-cp.	180
		Contact: 30° (c)		181.2m	trace aspy	
	qtz-co-chl-tourm veinlets; sil(3) Intense spidery qtz-sulph veinlets ↑ dir^n	v strong fol → Contact: 28° (c)		MINERALIZED FAULT CATACLASITE Black shale bx annealed by qtz + sulphides 184.3m	10-15% py > aspy - sp > qtz-cp veinlets + bx fill	
190	Abund co > qtz ± chl veinlets ↓ co-tourm (1)	Mod-strongly foliated B: 26° f: 30° (// fol) chl Contact: 31° (B/k)	pug Badly broken	BLACK SHALE Carbonaceous + graphitic 190.3m	1% py Rare sp + asply. 3% py > asply - sp. Conc in qtz-co-tourm bx bands to 100mm + veins	190
	co-ser-chl (1) Minor qtz-co-chl veins	Mod-strongly foliated f: 5° c: 35° f: 10° Contact: 25° (B)	shale beds f: 20° ← shale	FINE SANDSTONE / SILTSTONE Grey. Qtz-sericitic. Wispy black shale frags. up-ups 197.2m	Minor to 1% py. Rare sp. Sulphs best in qtz-co-chl veinlets.	
200	Abund irreg co-qtz ± chl ± tourm veinlets, chl (1)	Mod-strongly foliated	sp	BLACK SHALE Carbonaceous. Some graphite on foliation.	2% py, disseminated + in qtz-co-chl veinlets. Minor sp.	200

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200	co > qtz ± chl-tourm veinlets. Overall: chl > tourm (1)	B/C: 20°		BLACK SHALE As before.	2% py, minor sp-aspy >gn Best sp in zones with chl-tourm ↓
210		Contact: 23° (B/C)		silty bands with fine sst boudins 215.0m	
220	ser > sil-chl ± tourm (1-2) ↓ qtz-co ± chl ± tourm veinlets throughout ↓	Moderately - strongly foliated B/C: 40° C: 30°	Black shale vitric; ← carbonaceous matrix. ← numerous stretched black shale frags ↑ av <10mm (to 100×10mm)	VITRIC FINE TURBIDITIC SANDSTONES Possibly pumiceous. Qtzo-feldspathic. Lesser siltstone/shale. Series of upfining mass-flows. Grey.	1% py disseminated veinlet; V minor dissem py > sp; ← 25mm qtz-py-po veinlet & co-tourm.
230	ser-chl bands // fol →	C: 28°	vitric; qtzose; vitric	← pumice shards 1-3mm.	
240	co-tourm → veinlets. ↓ pervasive chl (1-2) + common qtz-co-chl (± tourm) veinlets ↓	C: 35° C: 33°			← 20mm sp > gn-aspy -py vein 32° (// fol) ← 5mm sp-aspy-py vein 34° (// fol) Trace dissem py; ← qtz-tourm-py veins 1% py > sp-aspy-gn in tourm-chl veinlets + dissem; Minor py
250					

GS41L13

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Date : JUNE 1995

PASMINCO EXPLORATION DIAMOND DRILL LOG

HOLE No. SR 3

RC 4116

m	VEINING and ALTERATION (1 = weak, 4 = intense)	STRUCTURE b = bedding c = cleavage f = fault Angles to LCA	GRAPHIC LOG	LITHOLOGY	MINERALISATION
250					250
252	Ser-sil >chl (± tourm) (2) Qtz veins	f: 35° (// fol) Mod-strong foliation	Black shale flecks along fol.	SANDSTONE/ SILTSTONE As before. Siliceous + vitric. Hard.	Minor py, Trace sp, aspy
254		C: 30°			← Qtz-py-sp veinlet ← Co-sp veinlets
256	15cm qtz-co ± tourm-py vein // fol		Black shale frags		
258	qtz veins	f: 30° (// fol)	silic + sericitic		
260		Broken by small faults			260
262				Increasingly carbonaceous	← 10mm py-gn > cp vein 30° (// fol)
264		C: 30°			1% py-sp > gn-aspy
266	co (1)				← py-sp-gn veins in small fault // fol ← sp veinlets
268					Rare py
270					270
272		C: 30°	siltstone/shale		
274		Broken along fol			
276	sil (2-3)	Contact: 60° (f)	grey siltstone + black shale	276.65m	
278	Qtz-sulph veining + bx fill	Puggy F: 65° Unbroken	Qtz-sulphide zone	MINERALIZED FAULT CATACLASITE IN BLACK SHALE	3% py > aspy > cp Mainly veinlets
	Tourm (3)	Contact: 65° (f) Irreg	279.8m	Frags av <10mm.	10-15% aspy > py
280	ser (1-2) chl (± tourm) (1)	V strongly foliated/sheared with abund kinks (10-45°) and warps. f: 70° C: 20°			7-10% py > aspy > sp-cp 150mm co-tourm-py > aspy > cp 280
282			puggy	QUARTZ—SERICITE (MUSCOVITE)—GRAPHITE SCHIST After strongly deformed carbonaceous fine siliceous and vitric sandstone, with black shale laminae. Grey. Common qtz xyl grains to 2mm, often rib augen-shaped. Abund dismembered lenses of black shale av 20-40mm x 5mm.	2% py, disseme veinlet
284	Ser (2)				1% py, dissem. Rare sp-gn.
286					
288	chl ± tourm (1)	Deformation increasing with depth ↓ Broken along fol			
290					290
292		C: 27°			
294		Kinks 5-10/m			← py, sp, aspy, gn in kink
296		Contact: f: 55° (sub // fol)		296.9m	
298	chl (± tourm?) (2-3) Abund qtz-co (retype) - chl veinlets	V strongly foliated with small folds. Broken	Graphitic, veined, foliated, partly brecciated.	DISTURBED + MINERALIZED BLACK SHALE	30mm vein py > cp in co-tourm, // fol 3-5% py, minor cp
300					300

Project : STERLING RIVER
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PASMINCO EXPLORATION DIAMOND DRILL LOG

HOLE No. SR3

m	VEINING and ALTERATION (1 = weak, 4 = intense)	STRUCTURE (b = bedding, c = cleavage, f = fault, Angles to LCA)	GRAPHIC LOG (0.06 mud … 32 max mm)	LITHOLOGY	MINERALISATION
300	Intense fine + irreg chl ± qtz ± co (Fe type) ± sulph veining. Both // + X-cutting fol + as bx-fill. Trace tourm in some veinlets.	V strongly foliated f: Some folding + warping of fol. Common post-fol bx zones annealed by qtz-sulphs. C: 33°	Bx 15° (// fol)	DISTURBED BLACK SHALE	3-5% py > sp-gn-cp mostly veins
			← C: 15° (Dips 80° to 135° AMG)	As above. Carbonaceous + graphitic	← 5mm qtz-py vein // fol.
					2-3% py > sp > gn. Sulphides best in zones of strongest chl + brecciation + veining.
			Bx (f, 30° // fol)		5-7% py > sp > gn. Bx fill.
310		V disturbed			2% py > sp > gn
			← TS 39963: Highly deformed carbonaceous shale		
			Bx		3-5% py > sp > gn. Trace aspy + cp.
			Bx (f, 35° // fol)		← py-aspy in bx
		f: 30° (// fol)			← sp veins
					← py veins
			Bx		
		strong f: 10° (// fol) Badly broken	Bx		1-2% py. Minor sp-gn. ↓ decreasing.
320		C: 30°	Bx		
		Contact: abrupt + bx.		322.65m	
	co (2) in sst/silt. ser (1)	Strongly foliated (some warping)		FINE SANDSTONE, SILTSTONE + SHALE Grey + black. Mostly calcareous silt + sst. Also: sericitic siltst (v thin) + Black shale laminae	V minor dissem py
					1-2% py. Veinlets + dissem
		Moderately foliated Fissile. B/C: 33°			Minor dissem py
330		Badly broken along fol B/C: 20° (Dips 82° to 093° AMG)	qtz-xyl sst		
		Strong disruption of shale laminae + boudinaging of calcareous siltstone			
		Contact: 33° (B/C)		338.75m	
340	sil-ser → (3) chl-co > ser (2-3) Thin qtz < co lenses, bands + "spots" in fol (poss deformed amygdales?)	qtz-ser-pyrite schist (shear zone 29°) V strongly foliated C: 30° f: 35° (// fol)	≈0 a/r pug	← qtz xyl grains to 1mm MURCHISON VOLCANICS CHLORITISED + FOLIATED BASALT Pale green chl-co schist Streaky + spotty appearance. ← TS 39964: Basalt	2-3% po-py. Dissem 1% py > po. Trace cp. Trace py
350					

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PASMINCO EXPLORATION DIAMOND DRILL LOG

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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	Sser (2)	Contact: ? 35° (// Fol)		350.3m	350
	Zones of sil-ser-ble (4) (gen felsics) interspersed with zones of chl-co>ser (2-3) (gen mafics)	V strongly foliated in silic altered zones C: 35°	Feldspar-phyric Volc. (Felsic volc not quite as altered as those below)	COMPLEX OF INTERCALATED FELSIC VOLCANICS + MAFIC VOLCANICS (Probable dykes)	1% disseminated stringers Rare cp + sp.
		Abrupt contact along fol.	Mafic? small amygdales.		3% py disseminated stringers along fol.
			Silic altered zone	TS 39965: felsic tuffaceous siltstone?	5% py as above rare sp clots
360		gradational change		Pale grey + grey-green. Comprises: Intensely-altered rhyolitic volcs, (lavas + tuffaceous siltstones ?), dacitic sills (?) + mafic dykes. Felsics : Mafics 50 : 50.	3% py (varies 1-5%) 360
		f: 45° (sub // fol) C: 33°	Silic Altered	Qtz-phyric rhyolitic volcs	
		Kinks 75° (opp sense to fol)	Silic Altered		
					5% py
370				Silic alteration zone	3% py (often assoc ? spots of chl) 370
		Contact: abrupt 30° (// Fol)		Mafic Volc (Dyke?) Dk green, fold-phyric volc (felds to 2mm) co amygdales to 10mm.	1% py
		Contact: abrupt (fol) 1° banding: 35°	some ind qtz-xyl sst	Banded section: mafic (amygdaloidal) + qtz-xyl sst (?)	3% py
		Contact: abrupt 30° (fol)		Altered zone in silic volc	5-7% py
380		Contact: abrupt ← → ragged (1°) 25° // fol		Mafic Volc? (Dyke?) Dk green. Amygdales (co)	2-3% py 380
		C: 28°		TS 39966: Felsic or andesitic volcanic?	
		Contact: abrupt 20° (// fol)		Altered zone in probable rhyolitic volc (silic, fi qr, granular)	
	V minor co>qtz veining in chl zones				
390	Alteration decreases sil-ser>chl (3)		Broken qtz grains to 1mm. Small amygdales		390
	qtz-co veinlets	C: 38° (Dips 84° to 297° AMG)	gradational change	Unidentified granular silic volc with qtz grains to 0.5mm.	
	large qtz>co-chl veins // LCA	Foliation Mod-strong	small amygdales	TS 39967: Dacitic intrusive?	1-2% py minor po-cp. cp veinlets.
	Alteration (4) increases	Abrupt increase in Foliation		Altered granular rock (main zone)	5% py.
400					400

RC 4118

Project : STERLING RIVER
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PASMINCO EXPLORATION DIAMOND DRILL LOG

HOLE No. SR3

FS4119

m	VEINING and ALTERATION (1 = weak, 4 = intense)	STRUCTURE (b = bedding, c = cleavage, f = fault; Angles to CA)	GRAPHIC LOG (0.06 mud … 0.5 … 2 … 8 … 32 max mm)	LITHOLOGY	MINERALISATION
400	sil-ser-ble (4)	V strong foliation C: 40°	60mm band (bed?) of qtz xyl/ss?	AS ABOVE: QUARTZ-SERICITE SCHIST AFTER RHYOLITIC VOLCANICS (Main alteration zone) "White rhyolite" Granular grey rock, pale grey rock with qtz grains to 1mm & small qtz augen.	5% py. Disseminated & stringers Trace sp
		B?: 35° (// fol)			
		C: 35°	TS 39968: Rhyolitic tuffaceous siltstone?		3-5% py. Trace sp.
410		Gradational		410.2m	
	ser (3) sil-co-ble (1) Pale pink qtz veins 15cm	Mod-strong foliation C: 28°	10mm silica band (B?: 25°)	UNIDENTIFIED VITRIC FELSIC VOLCANIC As above except less altered. Pale creamy-khaki V finely granular rock Uniform appearance & grainsize. Highly sericitic, less silic than before.	1-2% py, mainly in veinlets along fol
420		C: 32°			Minor py
	Zone of large qtz rich veins ± chl ± py	Mod foliation C: 23°	qtz vein	Darker khaki	1-2% py Disseminated & stringers
430	ser (2-3) chl (1) chl most marked around qtz veins	Weak foliation	qtz veins; 150mm semi-massive py, trace cp; qtz veins (+py); 10mm py; qtz vein (0.7m, barren) 55°; 70mm py; qtz veins		5-7% py Disseminated & veinlets (after E chl); 2% py. Dissem.; 10% py. Trace cp in qtz veins; Nil; 2% py; 10% py. Minor aspy, po > cp in qtz-chl veins
		Fissile			
	co (1-2) ser > chl (2)	C: 53°		TS 39971: Glassy felsic lava? 438.25m	1-2% py Trace aspy
		Contact: Small shear // fol 45°	augen zones		← aspy veinlets
440	ser (2) co-qtz veinlets	Strong foliation & augen. Contact: Abrupt 85°	C(B?) 40°	LAYERED ZONE Same rock as above ± textural & grainsize variations (VITRIC TUFF?) 440.3m	Minor py. ← sp-gn clots
			Peperitic bx.		
	ser-chl (2) Minor sil. co > qtz veins & patches	Badly broken f: 75° Mod foliated C: 65°	← qtz xyls to 1mm	FINE GRAINED UNIDENTIFIED FELSIC VOLCANIC Vitric	Trace py
		Contact: Abrupt 50° (// fol)		445.9m	
450	sil-ser > ble (2-3) Common qtz > co-chl veins (some pink qtz).	Mod Foliated C: 50°	Finely bx. Broken along fol.	RHYOLITIC VOLCANIC Pale khaki-grey sl corroded qtz phenos to 2mm. Poss feldspars to 2mm.	Trace py

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PASMINCO EXPLORATION DIAMOND DRILL LOG

HOLE No. SR3

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
450	Ser-sil-chl (2-3) ↓	Shear 40° Broken ↑ Shear 40° ↑ Mod-strong foliation ↓ C: 45°	qtz veins	← Abrupt textural change	As above: FOLIATED RHYOLITE V weak wispy-texture Pale greenish-grey Common purple qtz to 3mm, euhedral + rounded. Deformed felds av 2mm. Weak ser-chl wisps in foliation in places.	Trace py] gn veinlets in fol Nil py ← gn-sp-py veinlets
460	qtz-pink calcite-py vein // LCA.	Contact: gradational C: 45°		464.75m	← cp blebs. Minor py ← py-sp veinlet Rare py-sp-cp
	ser-chl (2)	Contact: Abrupt 45° (// fol)		MAFIC DYKE ?	Minor py
	chl > cb (2-3) ser > chl-sil ± ble (2) Early ser-chl overprinted by later ser-sil-ble	Mod-strong foliation f: Broken C: 40° f: 35° (// fol)		WISPY-TEXTURED RHYOLITE Pseudoclastic texture in same rock as above? Qtz + feld xyls av 1-2mm + lenticonexised biotite flakes 1-3mm. Conspicuous wisps of ser-chl after glass, gen < 30mm x < 5mm, av 5-10mm x 2mm. Wisps have same internal texture as rock itself.	Minor sp-gn > py veinlets & clots 2% sp > gn > py veinlets Trace sp-gn-py
470	ser > chl (2)	f // fol Broken f: 50° (// fol)	← TS 39969: Glassy felsic volcaniclastic	Contact: 43° (// fol) MAFIC DYKE ?	Rare py + cp.
	sil-ser > allo (2-3)	C: 45°	No wispy texture		] Minor diss cp
480	chl-ser > sil (2) cb veins	Contact: abrupt 45° (// fol)	bx	482.45m	
	sil > ser > allo-ble (2-3) chl > ser (2-3)	40° (// fol) Weak-mod foliated	feld/bio-rich margins ACID DYKES (DK green)	Creamy-grey SILICEOUS RHYOLITE V faint wispy-banded texture. V uniform volc compositionally same above: Porph qtz 1-3mm (euhedral + corroded + fractured) More-abund felds av 2mm	
	sil > ser-ble (2-3) sil overgrows qtz xyls	45° (// fol) Dyke: 40° (// fol)	← TS 39970: Dacitic Intrusive		↓ V rare as py also.
490		C: 42°			← 1mm gn > py veinlet] 1mm as py veinlets
500		C: 42°			← cp stringer (< 1mm)

CB41120

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500	↓ As above (1) patchy ↑ sil overgrths on qtz xyls	As above c: 40°		↓ qtz xyls getting more abundant RHYOLITE (as above)	Rare py
510				512.0m EOH	