PASMINCO EXPLORATION
DIAMOND DRILL CORE RECORD

HOLE No. SV 4

341027

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LOCATION	Sterling River E.C
PROJECT	Sterling Valley
PROSPECT	
DESIGNED BY	A.N.L.
LOGGED BY	A.N.L.
RELOGGED	
COMMENCED	19/1/96
COMPLETED	20/2/96
DRILLED BY	Diamond Drilling Tasmania
DRILL RIG	LY 38

OBJECTIVE

To test the Murchison Volcanics / Farrell Slate contact for Base Metal mineralisation

RESULT

The Murchison Volcanics are altered to seriate/silica/pyrite schist adjacent to the contact. No base metal min. is present. Veins of Pb/Zn/Au/As min. were intersected in the Farrell Slates.

LOCATION/SURVEY DATA (AMG)

Grid	AMG		RL Collar m	283.40
Northing m	5371705.2		Bearing Collar	111.0
Easting m	383516.7		Dip Collar	-65
DH Survey Type	Ausmine Camera		Length Hole m	550

Depth m	Bearing	Dip	Depth m	Bearing	Dip
0.0	111.0	-65			
50.0	112.0	-64.00			
100.0	111.0	-63.50			
151.0	111.0	-62.00			
200.0	111.0	-61.00			
251.0	109.0	-60.00			
301.0	108.0	-58.50			
352.0	109.0	-58.00			
403.0	110.0	-57.25			
451.0	111.0	-56.75			
501.0	111.0	-56.00			
550.0	110.0	-54.00			

SIGNIFICANT INTERSECTIONS

From m	To m	Interval m						Comments

SIGNIFICANT CORE LOSS

From m	To m	% Lost

POOR GROUND CONDITION ZONES

From m	To m	Condition

HOLE SIZE

Size	Depth m
H.Q.	101.4
N.Q.	551.0

HOLE CONDITIONS AFTER COMPLETION

Collar	
Steel Casing	
PVC Casing	
Ground Water	
Wedge	
Drill Pad	

Project: Sterling River
Logged by: A.N.L.
Date: March 1996.

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	LITHOLOGY	MINERALISATION
				Boulders, glacially deposited overburden.	
18				18.0	
20	Cavernous veins after Carbonate.	18-84m Very broken ground >100 breaks/m		Dk. green, magnetic, fd-phyric, Cb-altered, chloritic mafic-intermediate volcanic.	
38.4		Chlorite-rich mylonite bands 30°		38.4 As above, with strong mylonitic fabric. 41.7	
40					
	carbonate veins, parallel to foliation (280)	28° S1		Siliceous, mostly pink "clasts" in a dark gy-gn chloritic/carbonate matrix. Some clast have diffuse boundaries, appears to be alteration of Mafic Volcanic.	Tr. hm @ 46.7.
55.6				55.6	
59.4	Cb-qtz vng. Hk Alt'n.	25° S1		Dk. gy-gn, strongly fol. Mafic volcanic intense chlor. alt.	Tr hm
60				59.6 Henty Fault Zone qtz/chl Fault bx. sil. clasts in ser. Cb schist matrix.	
61.5				Fault pug. with bands qtz/chl/cb. some of these are folded.	
62.2	qtz/cb vns X-cut Alt'n.	35° 40° S1 S2 qtz vn.		Fault bx. distorted sil. bands in ser/chlor/graph. matrix.	
69.8				Fault pug. ser/graph. mud.	
72.2				73.6	Tr py.
73.6		60 45 80 F1 F2 F1 20. 20		Pale green. silica/sericite schist. Very strong foliation, folded to "chevron" folds.	Tr. py.
80				83.5	
83.5		M'flts 45 25°		Black graphitic schist. with puggy zones & patches of silica + qtz vng.	Tr py
91.5		30°		91.5 Buff sericite schist. with some sil. zones.	
94.5				94.5	Tr py
100					

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m	VEINING and ALTERATION (1 = weak, 4 = intense)	STRUCTURE b = bedding c = cleavage f = fault Angles to LCA	GRAPHIC LOG	LITHOLOGY	MINERALISATION
	Cb + qtz Stringers cross-cutting F_1 5-10/m.			101.4 - HQ ⇒ NQ. Upward fining Conglomerate – Siltstone.	Tr. py. diss.
	110m				
		S_1 30°		Contains black shale and rare siltstone and rhyolite clasts at base. These are contained in a quartz and feldspar crystal matrix. Shale clasts are stretched out parallel to cleavage. No bedding observed.	
120		S_1 20°			
		S_1 30°			
		F_1 vein 25°			
	137.3 py, cpy, 137.5 sil bx in vein.	S_1 22° S_1 20° S_1 20°			137.3 py, cpy, 137.5 stringers sp sph.
140					
		10° S_1 S_1 S_1 vein 70° S_1			
	150.3 q vng. 150.6 ± bxn. of seds.	S_1 S_1 20°		Clasts diminish in number + size up-hole, so do quartz crystals.	150.3 py tsph 150.6 assoc. ± bx. vn.
160		S_1 30°			
		38° S_1 S_1 20°		Fines up to a weakly sericitic siltstone probably derived from volcanic material.	
	176.3 qtz, py, cb 176.7 vng. bxn. of seds.				176.3 py in bx 176.7 + veins.
180		35° S_1 25° S_1			
	193.0			193.0 sericitic patches	
	197.0			197.0 ± qtz ?phenocrysts ?after vitric volc. fragments.	
200					

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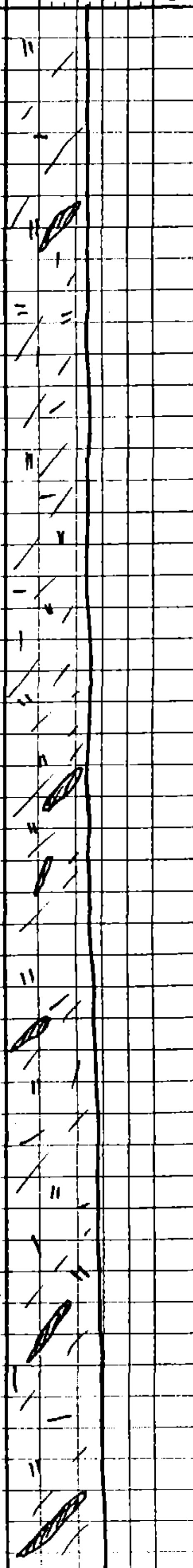
m	VEINING and ALTERATION (1 = weak, 4 = intense)	STRUCTURE (b = bedding, c = cleavage, f = fault, Angles to LCA)	GRAPHIC LOG	LITHOLOGY	MINERALISATION
		S_1 34°			
220		S_1 32°			
	239.8	vn S_1			
240	Zone of qtz stringers.	32° 42° S_1 qtz vn; 38° S_1 S_1 qtz vn 10° 20°			
	252.7				
260					
280	282.0 qtz vn. c haem.	S_1 35°			
	289.3 4cm. 291.6 2cm To/qtz/cb veins 294.6 4cm	vn vn S_1 vn 45° 40° 40° 40°			
300					

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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
	313.5 discont. 314.5 stringers min.	S_1 min. 25			313.5 c.g. py min. c tr. sp. 314.5
320					
	328.5 q/sp/cb 330.7 vein.	43° 35° 330.7 S_1 vn.			328.5 Sp in vein.
	330.7 Strongly developed Cleavage, strongly Sericitic.	Broken ground 100 lbs/m.			
340	Sericite on Cleavage planes.				
	348.1	348.1 S_1 38°			
358.9		70° S_1 S_0 contact 18° 40°		358.9	
360	360.3 Bx. zone, 362.3 stockwk. Dng. stylolites 364.7 graphitic pug.	S_1 vein S_1 45		Strongly graphitic, Carbonate-bearing, Black Shale. Bedding not observed except at contact.	360.3 gn+py+aspy ±sp. in veins. 362.3
	370.3 qz/Cb 371.8 vein stockwk.	S_1 35 S_1 S_1 40 38			370.3 py+asp 371.8 sp in vns.
380					
	386.2 qz/cb vng 388.5 +py+as			386.2 Breccia/stockwork zone 388.5 Top is cb/qz/chlor veins c minor pyg. Bottom is ang. slate frags. in qz/py/as matrix.	386.2 py+as in vns. 388.5
		S_1 38°			
400					

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400	401 qtz/cb vng. 404·2	Most vng parallel to clv. S_1 28 Bkn Grd. ms.			
	407·7 Msv white qtz vng. 409·7 410·7 Graphite 412·2	S_1 50 45 S_1 45 S_1 48 90 S_1 65 48 35		410·7 Dk. brown/black graphite zone. 412·2	
420					
		50			
	436·2 Zone of vng + pug. 437·1	438 Broken Ground 80cms/m S_1			
437·7				439·7	
440		442 S_0 20		Interbedded Black Shale + Sandstone. Sandstone predom. volcaniclastic with some qtz grains	
	448·7 White 451·5 q. vng.	S_1 30 40 35			
453·6		S_0 40 35		453·6 Black Shale.	
		458·5 6x zone 458·6 microfits + stylolites			1-3% py in 6x zone.
460					
464·5	Sericite alt'n of sandstone frags.	80 S_1 60 S_0		464·5 Interbedded Black Shale and quartz-volcaniclastic Sandstone	
		58		476·3 ↑ lode east facing	
479·7		contact 60 Strong S_1 cleavage + boudinaging of Sst. beds on contact.		479·7 Pale green. Sericite/Silica/pyrite Schist. Prob. after fel-phyric volcanics. Feldspars preserved in sericitic zones	10% py, m.g. cubic, post cleavage and f.g. in clots, strung out along cleav. Tr. cpy.
480		55 S_1			
		50 S_1			
500					

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	500.9 White 501.1 9% vein ± sericitic shrg on both margins.	contact 58°		Sharp contact 505.65 Abrupt change in alteration + prob. rock type. Dk. green. chlor/cb altered Andesite. ? intrusive 518.9	from 483-4.9m.
505.65					510.7 c.g.py in vein
	510.7 9%/cb ± py Pervasive Chlor-cb alt'n.	515.3 Sf 48° Bkn. Shear			
518.9		518.9 Zone 9%/chlor ser pvg.		Massive, dk. green f. grained, featureless volcanic. Chlorite ?after ferro-mag. minerals. Andesite ?intrusive	
520	9% ± cb vein 515.3-515.5m.				
	Chlorite alt'n ?after ferro-mag minerals				
540					
				551.0 End of Hole.	
550					