BPASMINCO LTD - ROSEBERY

DIAMOND DRILL RECORD

OBJECTIVE : To explore below J Lens

RESULT : 39.7m of unmineralised Host Rock

PASMINCO LTD - ROSEBERY

DEPTH : 1362.5

HOLE SIZE: NQ

COMMENCED: 2/12/90

COMPLETED: 3/1/91

Depth	Direction	Dip	Depth	Direction	Dip

COLLAR DIP : -86

DIRECTION : 47

NORTHING : -297.1

EASTING : 1377.6

HOLE No. : 114RD2

LOCATION : Mt Black

LOGGED BY : C.H.L.

COLLAR RL : 3582.8

FROM	TO	DESCRIPTION	ALT	CO	ROCK TYPE	MINERALISATION
936.5	1276.8	Mt Black Volcanics				
		930.0 to 1070.8 Dark grey,fine grained , very uniform volcanic, occasionally weakly felspar phyric . some chloritisation and or seritisation of crytals . weak foliation caused by stretching and alignment of grains; occasional thin 2mm wispy white carbonate veins sub parallel to foliation and rare 4cm quartz veins: minor patches bleached to light brown: foliation 45 degrees.	ser	lo	fels vol.	No apparent mineralisation
		1070.8 to 1081.1 Light grey altered breccia, occassional volcanic lithic clast and wispy pumiceous fragments with relic tube texture; felspar phyric with 3mm felspars with vague margins ; a weak foliation is present due to alignment of light and dark alteration bands and weak alignment of grains;			breco.	Isolated extremely fine grained rare eunedral crystals of pyrite
		1081.1 to 1092.6 Light to dark grey , equi-granular altered volcanic , Felspar phyric when viewed with hand lens with dark aphanitic matrix; thin white carbonate veins as fracture fill; diffuse zones of bleached and altered material ; occasional weak foliation at 70 degrees to core.	sil	lo	lava	
		1092.6 to 1137.8 Light grey altered breccia, occassional volcanic lithic clast and wispy pumiceous fragments with relic tube texture; felspar phyric with 3mm felspars with vague margins ; a weak foliation is present due to alignment of light and dark alteration bands and weak alignment of grains; bleached by siliceous alteration over most of the interval onscuring texture and lithology ; 0.5m of chlorite at 1106.3m could be altered dyke; 1 to 2mm tourmaline veins with traces of pyrrhotite and pyrite.	sil	lB	breccia	Fine grained traces of pyrite and pyrrhotite associated with tourmaline veins; traces of fine grained pyrite associated with chloritic band at 1106.3m
		1131.8 to 1150.4 dark grey , fine grained altered volcanic very fine grained felspar with dark chloritic ,sericitic and siliceous aphanitic	chl sil	lB lc	vol.	Fine grained concentrations of pyrite and pyrrhotite associated with chlorite fracture fill

SAMPLE NO.	FROM	TO	Length	Pb %	Zn %	Cu %	Ag g/t	Au g/t	Fe %	$

Depth	Dip	Azimuth	L
0.00	-86.00	47.00	S
30.00	-86.00	49.00	
60.00	-86.00	47.00	
90.00	-86.00	48.00	
120.00	-86.00	53.00	
150.00	-86.00	58.00	
201.00	-85.70	57.00	
252.00	-86.00	60.00	
303.00	-85.70	53.00	
351.00	-85.50	52.00	
399.50	-85.20	46.00	
453.50	-84.20	42.00	
500.70	-82.80	45.00	
549.00	-82.50	46.00	
603.00	-81.60	43.00	
615.00	-81.50	43.00	
627.00	-81.20	41.00	
636.00	-81.20	41.00	
642.00	-81.40	39.00	
645.00	-81.20	39.00	
654.00	-81.10	37.00	
663.00	-81.60	31.50	
669.50	-81.40	29.50	
675.50	-81.40	30.00	
685.00	-81.40	26.00	
690.50	-81.20	22.50	
702.50	-80.90	22.00	
714.50	-80.90	17.50	
723.00	-80.60	13.00	
732.00	-80.20	10.00	
759.50	-79.00	353.00	
783.50	-78.00	351.50	
813.00	-77.00	348.00	
843.50	-77.00	347.00	
873.00	-76.30	342.50	
903.50	-74.50	332.50	
930.00	-73.00	328.00	
948.00	-70.00	313.00	
969.00	-66.00	308.00	
999.50	-59.00	303.00	

To	RQD% (S=Shear)
1023.5	80
1101.8	65
1161.5	75
1180.0	80
1232.3	75
1245.5	55
1299.1	80
1337.0	70
1362.5	75
EOH	

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FROM	TO	DESCRIPTION	ALT	CD	ROCK TYPE	MINERALISATION	SAMPLE NO.	FROM	TO	Length	Pb %	Zn %	Cu %	Ag g/t	Au g/t	Fe %	S	To (S=Shear)	RQD%
		matrix; fine fracture fill of tourmaline and chlorite with fine grained pyrite; quartz chlorite vein with auto brecciation and pyrite and pyrrhotite mineralisation 1142.7 to 1143m; halo of chlorite and silica alteration forming a diffuse zone around the vein; weak foliation at 70 degrees.				associated with autobrecciation.													
		1150.4 to 1165.3 light to dark grey, fine grained weakly foliated volcanoclastic; fine blebs of chlorite elongated with foliation , felspar phyric occasionally , sericite altered lithic clasts to 3mm, sericite and quartz very fine grained open matrix; sparsely disseminated pyrite and occasional lenticles of fine grained pyrrhotite parallel to foliation; angle of foliation 60 degrees as sericitic planes and weak alignment of grains.	ser chl	C C	chl fels ser sil v.sed	Fine grained sparsely disseminated pyrite throughout,occasional dicontinuous lenticles parallel to foliation of pyrrhotite and or pyrite; pyrrhotite invariably associated with chloritic concentrations.													
		1165.3 to 1180.7 Dark grey altered, fine grained, andesitic volcanic , <1mm felspars in very dark aphanitic matrix; discontinuous felsic planes impart a weak foliation; blebby concentrations of pyrrhotite aligned parallel to cleavage; 1cm wide vein of fine grained pyrrhotite at 1166.5; very sharp upper contact with overlying volcanoclastic rocks; foliation at 65 degrees; minor white carbonate and rare tourmaline veinlets.	ser	C	and vol	Blebby concentrations of fine grained pyrrhotite and or pyrite sparely distributed parallel to foliation, 1cm vein pyrrhotite at 1166.5m.													
		1180.7 to 1208.5 Mottled light and dark grey felspar phyric coarse grained debri deposit with dominated by felspar with some relic clasts of pumice showing preserved tube texture ; patchy siliceous alteration ; fine 2mm tourmaline biotite veins; disseminatec sulphides throughout.	sil	C	fels pum v.sed	Fine to coarse grained pyrite sparsely disseminated throughout and very rare traces of spalerite.													
		1208.5 to 1221.3 Thin black patly silicified black shale intervals intercalated with very dark weakly foliated altered felsic volcanics ; internal contacts indicate intrusion of volcanics	chl	S	BS & vol intr.	Fine to coarse grained pyrite and pyrrhotite throughout : 1209.5 1x30cm band chlorite with concentrations of pyrrhotite and													

Depth	Dip	Azimuth
1026.00	-56.00	299.00
1044.00	-55.00	298.00
1050.50	-54.00	297.00
1065.00	-52.00	293.00
1080.00	-47.00	289.00
1113.00	-48.00	291.00
1149.00	-47.00	294.00
1185.00	-46.00	289.00
1226.00	-46.00	293.00
1266.00	-45.00	293.00
1299.00	-45.00	293.00
1330.00	-44.00	296.00
1362.50	-37.00	297.00

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		into shale; alteration makes recognition of lithology difficult; 1x30cm band of mineralised chlorite; disseminated sulphides throughout.				lesser pyrite aligned along a weak foliation at 70 degrees.													
		1221.3 to 1276.8m Mottled light and dark grey felspar phyric coarse grained debri deposit with dominated by felspar with some relic clasts of pumice showing preserved tube texture ; patchy siliceous alteration ; fine 2mm tourmaline biotite veins; occasional isolated traces of fine grained sulphides ; minor 10cm bands of what could be sandy sediments and rare patches of material that could represent fine grained sediments; weak foliation caused by a vague alignment of alteration at 70 degrees. intense siliceous alteration 1257.9m to 1269.5m	sil	3	fels pum v.sed	Very rare isolated crystals of fine grained pyrite.													
1276.8	1297.3	HANGINGWALL EPICLASTICS																	
		1276.8 to 1285.1 Dark grey, coarse to fine grained ,graded felspar phyric altered sediment; grades from 2 to 3mm angular felspars and <1mm subrounded quartz clasts in a closed matrix of fine grained altered felspar and quartz to a uniform sediment composed fine sand sized quartz and variably altered felspars upnole;occasional very thin wispy carbonate veins.	ser	0	grd ser fel sil sed	Extremely fine grained very sparsely disseminated pyrite													
		1285.1 to 1290.2 Light grey , fine to very coarse grained , graded sericite after felspar , quartz, lithic sediment;grades from lthic clasts to 4cm wth sub-angular quartz and silicified and sericitised felspars in an open fine sand sized quartz and altered felspar matrix to a uniform fine sand sized quartz and altered felspar sediment with occasional 5mm to 10mm lithic clasts upnole; lithic clasts vary from host rock like material to black slate to volcanic.			grd ser fel lith sil sd	Extremely fine grained very sparsely disseminated pyrite													

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		1290.2 to 1297.3 Very dark grey, coarse rained poorly sorted epiclastic with a very thin 10cm fine sand grained top; <1mm to 4mm altered felspar , lithic and occasional quartz clasts in an open fine sand sized matrix of quartz and altered felspar; felspars altered to a dark mineral possibly sericite with some felspars silicified.			grd ser fel lith sil sd	Extremely fine grained very sparsely disseminated pyrite in very fine fractures.													
1297.3	1337.0	HOST ROCKS																	
		1297.3 to 1301.9 Mid grey , fine to coarse grained series of graded beds 30cm to 90cm thick; units grade from coarse grained felspar and lithic clasts with finer quartz clasts in a closed felspar and quartz fine sand sized matrix to uniform fine silt sized quartz and felspar in a closed matrix. Bedding just visible at 50 degrees to core axis. Fine biotite /chlorite veins with occasional fine grained pyrite.			grd ser after fel sil v.sed	Extremely fine grained very sparsely disseminated pyrite ; fine concentrations of pyrite on the margins of biotite/chlorite veins.													
		1301 to 1337.0 Alternate bands 10cm to 40cm of light grey fine grained very silicified sediments and marginally coarser grained sericite-and quatz sediments; numerous very fine fractures in siliceous bands infilled with biotite/chlorite ; occasional quartz tourmaline veins; bedding angle 50 degrees to core axis.	sil ser	A B	ser sil sed	Extremely fine grained very sparsely disseminated pyrite in coarser grained bands with very fine grained pyrite cotained in hair line fractures in the fine grained siliceous bands.													
1337.0	1362.5	FOOTWALL SEQUENCE Light grey, coarse rained occasionally felspar phyric pumiceous bedri deposit;<1mm to 3mm silicified felspars and patches of relic pumice with remnant tube texture in an open sericitic and siliceous matrix; occasional quartz vein with very fine rained cassiterite ; rare possible quartz clasts ; occasional thin quartz tourmaline veins with fine grained pyrite ; some very thin chlorite/biotite veins. The boundary between the footwall and host rock appears to be gradational.	sil ser	C C	FW	Medium grained pyrite associated with quartz tourmaline veins ; very fine grained traces of cassiterite associated with some quartz veins and with chlorite/ biotite veins.													