PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YNC13

DRILLING

Location	NEWTON CREEK
Project	YOLANDE
Prospect	NEWTON CREEK
Design By	P.M.Quayle
Logged By	P.M.Quayle
Relogged	
Commenced	3rd February 1995
Completed	28th March 1995
Drilled By	East Coast Drilling
Drill Rig	Longyear LM38

OBJECTIVE

To test for mineralization and alterationin the "spillway sulphide clast horizon" coincident with magnetic depletion zone in the largly untested area south of the Newton Creek Spillway.

RESULT

The hole ended in a zone of pyrite/sericite/carbonate/silica alteration at least 200m thick and increasing down hole. The hole stopped because of the shallow angle / drilling conditions. Gold and base metal values were dissapointing. The hole appeared to be entering the target zone at end of hole.

COLLAR SURVEY (AMG)

AMG mN	5357479.0	Bearing	274.0
AMG mE	379697.2	Dip	-45.0
mN		Hole Length	506.7
mE		DH Survey Type	Eastman single :
RL	502.6		

DOWNHOLE SURVEY (AMG)

Depth	Bearing	Dip
0.0	-45.00	282.00
40.0	-43.20	259.00
80.0	-40.50	259.00
120.0	-37.00	256.00
160.0	-30.00	255.00
200.0	-34.00	252.00
240.0	-27.50	249.00
280.0	-15.00	248.00
330.0	-13.25	247.00
400.0	-11.00	246.00
506.0	-9.00	245.00

SIGNIFICANT CORE LOSS

From	To	Loss

POOR GROUND CONDITION ZONES

From	To	Condition

HOLE SIZE

From	To	Size
0	3	HQ
3	506.7	NQ

HOLE CONDITIONS AFTER COMPLETION

Collar	
Steel Casing	
PVC Casing	NIL
Ground Water	
Wedge	
Drill Pad	Sump filled in and site roughly leveled.

SIGNIFICANT INTERSECTIONS

From	To	Int	Cu	Pb	Zn	Ag	Au	Comments

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Vertical Scale 1 : 500

DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
0.00	41.20	ANDESITE Dark, Green, Porphyritic, Feldspar phyric, Hornblende phyric, Abundant 1 to 4mm feldspars and hornblends (altered to chlorite and/or carbonate), in a fine grained green chloritic? matrix. Abundant fine leucoxene throughout. CONTACT: Conformable mixed.	Moderately Carbonatised, Moderately Chloritised, Incipient carbonate alteration throughout, carbonate weathering pits in part. Chlorite alteration tends to obliterate phenochryst texture.		0 10 20 30 40			BROKEN CORE, Broken on low angle joints, with oxide staining. BROKEN CORE, Quartz, Chlorite.
41.20	61.50	DACITE Green, Grey, Porphyritic, Feldspar phyric, Hornblende phyric, Hyaloclastite texture in part, feldspars are typically pink (K feldspar altered), and matrix is paler more sericitic, but probably similar to above interval. Abundant fine leucoxene throughout. CONTACT: Conformable mixed.	Moderately Carbonatised, Incipient carbonate alteration throughout, and minor zones with fine carbonate filled gash veins.		50 60			BROKEN CORE, Broken on iron stained cross cutting joint sets.
61.50	80.80	DACITE Green, Grey, Hyaloclastitic, Feldspar phyric, Hornblende phyric, Similar to above interval but with more pronounced hyaloclastite texture. CONTACT: Conformable mixed.			70			FAULT, Pug, Broken oxidised zone.

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					70			
								BROKEN CORE, Broken on oxidised cross cutting joint sets.
80.80	123.60	DACITE Grey, Green, Hyaloclastitic, Feldspar phyric, Well developed hyaloclastite texture at contact. Similar to above intervaals but more felsic in appearance. Leucoxene size and abundance similar to above intervals. CONTACT: Conformable mixed,			80			
								BROKEN CORE, Broken on oxidised cross cutting joint sets.
					90			BROKEN CORE, Broken on low angle joint sets.
					100			BROKEN CORE, Broken on oxidised low angle joint sets.
					110			
					120			
123.60	197.60	ANDESITE Dark, Green, Fine grained, Massive, Trace indistinct hyaloclastite texture in part. CONTACT: Gradational, Irregular mixed conformable contact.	Slightly Carbonatised. Incipient carbonate alteration throughout, and minor carbonate veins.					FAULT, Quartz, 10mm qtz vein at lithological contact at 20 degrees to LCA.
					130			
					140			

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					140			
					150			
					160			
					170			
					180			BROKEN CORE, Broken on cross cutting oxidised joint sets.
					190			
197.60	244.80	DACITE Grey, Hyaloclastitic, Feldspar phyric, Abundant 1 to 3mm pink feldspars. Irregular texture, possibly hyaloclastite, indistinct pumiceous appearance in part. Minor irregular 2cm bands of pale grey very fine siliceous rock with abundant very fine pyrite, possibly encorporated mudstone, or feeder vein. CONTACT: Conformable abrupt.	Slightly Carbonatised. Incipient carbonate alteration throughout, and minor fine carbonate veinlets.		200			
					210			

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					210			
					220			
					230			
					240			FIRST CLEAVAGE, A 75,
244.80	263.30	ANDESITE Dark, Green, Massive, Feldspar phyric, Abundant fine feldspars throughout, and leucoxene in part. Abundant veinlet or gash fill calcite throughout. CONTACT: Conformable mixed,			250			
					260			
263.30	291.00	ANDESITE Dark, Green, Massive, Hornblende phyric, Similar to above interval but with abundant distinct 1-5mm hornblende crystals throughout. CONTACT: Gradational,	Slightly Epidotised. Associated with quartz chlorite veining.		270			VEIN, A 30, Quartz, Chlorite, Abundant epidote. VEIN, Quartz, Chlorite, Abundant epidote, massive white quartz, and dark green coarse grained chlorite.
					280			

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					280			chlorite.
								VEIN, Quartz, Chlorite, Zone of massive white quartz, dark green chlorite and pale green epidote.
291.00	298.20	ANDESITE Dark, Green, Massive, Similar to above intervals without large visible hornblende crystals. CONTACT: Conformable mixed, Irregular mixed contact.			290			
298.20	370.80	DACITE Grey, Hyaloclastitic, Feldspar phyric, Minor 2 to 10cm bands of polymict fine sandstone at 313m and 332m. Unusual fine grained grey vein like structures at 333m and 343m. 10cm zone of mafic intermixed with dacite at 328.3m and 361.6m. Distinct hyaloclastite throughout, clasts 3 to 30mm monomict fragmental dacite. Alteration increasing downhole obscures texture. Possible peperitic texture towards 370m. CONTACT: Conformable mixed, Not well preserved but peperite in dacite and irregular mixing suggest conformity.	Slightly Silicified, Slightly Sericitised, Slightly Carbonatised.	DISSEMINATED, abundant pyrite disseminated,				BROKEN CORE, Zone of broken core with Fe stained joints, minor quartz-chlorite in part, minor pug in part.
				DISSEMINATED, minor pyrite disseminated.	300			
					310			
				DISSEMINATED, abundant pyrite disseminated.				
				DISSEMINATED, minor pyrite disseminated.	320			
			Slightly Sericitised, Slightly Carbonatised, Incipient alteration throughout.		330			BROKEN CORE, Broken on low angle fractures.
					340			VEIN, Quartz, Chlorite, Massive white quartz-dark green chlorite vein.
					350			

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			Slightly Sericitised, Slightly Silicified, Slightly Carbonatised.	DISSEMINATED, abundant pyrite disseminated.	350			
					360			VEIN, Quartz, Chlorite. Zone of massive 2 to 20cm white quartz - dark green chlorite veins.
								FAULT, Pug. Badly preserved in core.
370.80	412.40	ANDESITE Dark, Grey, Massive, Hornblende phyric, Feldspar phyric, Similar to previous andesites, with zone of quartz amygdals at 409 to 411m. at 80 degrees to LCA. Abrupt contact, possible chilled margin suggesting intrusive contact steep to the east.		DISSEMINATED, minor pyrite disseminated.	370			FAULT, Breccia.
					380			BROKEN CORE.
					390			FRACTURE, Zone of low angle fractures with calcite.
					400			FRACTURE, Zone of Fe stained fractures.
412.40	428.00	DACITE Grey, Massive, Feldspar phyric, Carbonate altered feldspars, abundant leucoxene. CONTACT: Gradational,	Slightly Silicified, Slightly Sericitised, Slightly Carbonatised.		410			
					420			

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
428.00	436.70	DACITE Grey, Hyaloclastitic, Polymict, Feldspar phyric, Hyaloclastite mixed with polymict clastic, clasts 5 to 15mm, indistinct, mafic, siliceous and carbonate altered types. CONTACT: Conformable mixed,	Slightly Carbonatised, Slightly Sericitised, Slightly Silicified, Straw coloured Mn carbonate alteration of pseudo?clasts.	DISSEMINATED, abundant pyrite disseminated,	420 430 440 450 460 470 480 490			FAULT, A 30, Pug. FIRST CLEAVAGE, A 75, Sub-vertical. FAULT, A 15, Pug. FAULT, A 45, Pug. BROKEN CORE, Cavity BEDDING, A 55, Parallel to cleavage. FIRST CLEAVAGE, A 60, Sub-vertical
436.70	445.20	DACITE Grey, Massive.						
445.20	469.30	DACITE Grey, Hyaloclastitic, Polymict, Feldspar phyric, Hyaloclastite mixed with polymict clast including: fine grained pyritic sediments, finely vesicular mafics, carbonate altered, and silica altered types from 3 to 15mm in size. CONTACT: Conformable abrupt,						
469.30	474.80	DACITE Grey, Green, Fine grained, Massive, Unusual texture? no feldspars, resembles massive pumiceous? sandstone. CONTACT: Conformable abrupt,						
474.80	506.70	SANDSTONE GRADING TO SILTSTONE Grey, Cream, Fine grained, Pumiceous, Zone comprising bands of indistinct and highly altered fine grained pumiceous? debris, with minor 5cm bands of indistinct polymict clastic. Alteration in the finer grained parts tending to augen silica sericite texture. Possibly close to the Newton Creek Dacite / Pumice breccia contact.	Moderately Silicified, Moderately Sericitised, Moderately Carbonatised, Increase in silica/sericite alteration. Highly Silicified, Highly Sericitised, Slightly Carbonatised, Augen texture in part. Alteration increasing					

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			carbonatised. Hugen texture in part. Alteration increasing downhole. Resembles Hercules footwall alteration in part.		490 500 510 520 530 540 550 560			BEDDING. Sub-vertical fine laminations.