PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YNC12

DRILLING

Location	NEWTON CREEK
Project	YOLANDE
Prospect	NEWTON CREEK
Design By	P.M.Quayle
Logged By	P.M.Quayle
Relogged	
Commenced	6th December 1994
Completed	31st January 1995
Drilled By	East Coast Drilling
Drill Rig	Longyear 38

OBJECTIVE

To test for m ineralization and alteration in the principal target horizon coincident with a zone of magnetic depletion. The zone of magnetic depletion is associated with an inferred major cross structure at which major structural and formational features bend.

RESULT

Neither the principal target horizon nor the cross structure were intersected. The hole remained within andesites and dacites which were both thicker and more massive than those to the north of the spillway. Only minor mineralization and alteration were encountered.

COLLAR SURVEY (AMG)

AMG mN	5357766.0	Bearing	340.0
AMG mE	379836.5	Dip	-50.0
mN		Hole Length	577.3
mE		DH Survey Type	Eastman single s
RL	497.1		

DOWNHOLE SURVEY (AMG)

Depth	Bearing	Dip	Depth	Bearing	Dip
0.0	-50.00	328.00			
40.0	-48.50	325.00			
80.0	-48.00	328.00			
120.0	-46.40	329.00			
160.0	-44.50	330.00			
200.0	-43.20	333.00			
240.0	-42.10	332.00			
280.0	-39.80	334.00			
320.0	-38.90	335.00			
360.0	-39.00	334.00			
400.0	-38.20	336.80			
440.0	-38.00	338.00			
480.0	-37.50	339.00			
500.0	-35.00	328.00			
520.0	-36.80	336.80			
560.0	-35.50	337.00			

SIGNIFICANT CORE LOSS

From	To	Loss

POOR GROUND CONDITION ZONES

From	To	Condition

HOLE SIZE

From	To	Size
0	21	HQ
21	577.3	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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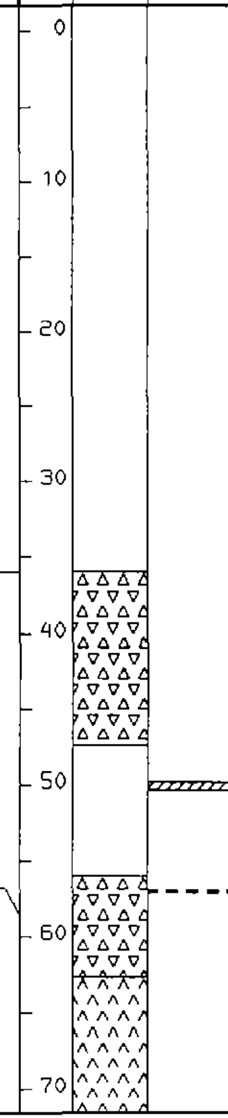
From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
0.00	36.00	BASALT Dark, Green, Massive, Vesicles, Amygdales, Massive basalt with minor 5mm carbonate filled vesicles, carbonate altered .5mm plagioclase? and minor zones of breccia possibly hydraulic fracture infilled with carbonate with haematite. Haematite (1mm) spots throughout. Note change in mag-sus at 16.6m might indicate weathering of magnetite. at 20 degrees to LCA. A very sharp but irregular contact, no mixing, possibly intrusive.	Moderately Carbonatised, Moderately Oxidised, Zone of moderate incipient carbonate alteration (of fine feldspars?) with calcite/haematite infilling of vesicles and hydraulic? fractures. Abundant 0.5mm haematite spots throughout. Moderately Carbonatised, Moderately Oxidised. As above, but increase in magnetic susceptibility indicates fresh magnetite.		
36.00	47.40	BRECCIA Grey, Pink, Coarse grained, Poorly sorted, Polymict, Crystal, Poorly sorted polymict breccia, very (1 to 3mm pink feldspar) crystal rich sericitic (possibly pumiceous) matrix. Clasts range from 5 to 100mm in size, tend to be sub-rounded or scalloped, types include large massive pink siliceous volcanics, (similar to clasts in pumice breccia in spillway), pale green feldspar phyric possibly dacites, and minor fine grained siliceous siltstone? and minor 3 to 20mm massive fine grained pyrite clasts (with white carbonate). Note band of basalt resembles tongue at 15 degrees to LCA. Sharp irregular possible quenching but no mixing (intrusive?).	Moderately Sericitised, Moderately Silicified, Silicified felsic clasts, carbonate altered mafic clasts and pink feldspars in sericitic matrix.	CLAST, minor pyrite disseminated, Zone with several 5 to 40mm massive fine-grained pyrite clasts and minor pyrite disseminations throughout, and minor 10mm pyrite cubes near lower contact..	
47.40	56.00	BASALT Dark, Green, Massive, Vesicles, Amygdales, Massive basalt similar to above basalt. Sharp irregular intrusive? contact.	Slightly Carbonatised, Zone of carbonate altered feldspars and hornblends, carbonate flecks and veinlets.		VEIN, A 15, Carbonate.
56.00	62.70	BRECCIA Pale, Grey, Poorly sorted, Polymict, Altered polymict breccia textures indistinct due to sericitization, but similar to above breccia. CONTACT: Conformable abrupt, Irregular mixed contact, possibly conformable.		DISSEMINATED, minor pyrite disseminated. Zone with minor vrey fine pyrite disseminated throughout..	FAULT, A 35, Brittle.
62.70	92.40	ANDESITE Dark, Green, Massive, Porphyritic, Feldspar phyric, Hornblende phyric, Massive rock with 1 to 4mm hornblende and feldspars altered to carbonate. Minor hydraulic? breccia infilled with carbonate in part. CONTACT: Conformable mixed. Possibly quench brecciated			

GRAPHIC



5 cm

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
		hornblende and feldspars altered to carbonate. Minor hydraulic? breccia infilled with carbonate in part. CONTACT: Conformable mixed, Possibly quench brecciated contact.			
92.40	100.40	BRECCIA Grey, Pink, Reworked, Crystal, Feldspar phyric, Reworked feldspar crystal rich dacitic? debris. Minor 30mm andesite clasts, minor 5mm pink rhyolite? clasts. Minor hydraulic breccia with Mn carbonate infill. CONTACT: Conformable mixed, Low angle, irregular, mixed conformable.			Carbonate.
100.40	114.40	ACID VOLCANICLASTIC Grey, Fine grained, Medium grained, Pumiceous, Vitric, Feldspar phyric, Irregular zone of silicified volcaniclastic (pumiceous in part), and fine grained volcanic? in part. CONTACT: Conformable abrupt, Complex, apparent breccaited contact with siliceous mixing, irregular conformable volcanic contact.	Slightly Silicified, Slightly Sericitised, Zone of siliceous alteration of pumiceous matrix.		PRIMARY FABRIC, A 20, Possible compaction feature.
114.40	118.50	PUMICEOUS MASS FLOW Grey, Coarse grained, Poorly sorted, Pumiceous, Polymict, Abundant 1 to 3mm pink feldspars, 3 to 5mm pumice clasts, 1 to 5mm pink rhyolite? clasts, and minor 5mm white/grey clasts with abundant fine leucoxenes in a pumiceous matrix. Note rhyolite clasts resemble unit in Newton Creek, and in typical NC pumice breccias. CONTACT: Conformable abrupt,			
118.50	138.60	ANDESITE Grey, Green, Coarse grained, Massive, Porphyritic, Feldspar phyric, Hornblende phyric, Magnetite, Abundant carbonate altered 2 to 5mm hornblendes and 1 to 3mm feldspars in a dark red/green matrix massive in appearance. Abundant fine carbonate veins throughout, and minor massive dark green chlorite and white quartz veining with pink alteration halo in part. CONTACT: Conformable mixed, Low angle, irregular mixed contact.	Slightly Carbonatised, Zone with carbonate altered hornblends, flecks and veinlets.		VEIN, Chlorite, Carbonate, Massive dark green chlorite with drag folded carbonate veinlets. Corresponds with 100% loss of water return.
138.60	141.10	SILTSTONE Pale, Grey, Fine grained, Irregular disrupted siliceous zone, could be peperite? Irregular, peperitic? mixing.			FAULT, Slickenlines perpendicular to core on plane at 20 degrees to

GRAPHIC

Depth | Lith | Structures

70 80 90 100 110 120 130 140

5 cm

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
138.60	141.10	siliceous zone, could be peperite? Irregular peperitic? mixing.						perpendicular to core on plane at 20 degrees to LCA.
141.10	144.60	ANDESITE Dark, Green, Coarse grained, Massive, Porphyritic, Hornblende phyric, Feldspar phyric, Magnetite, Typical Hb-phyric andesite.	Slightly Silicified, Slightly Sericitised.					
144.60	155.00	PUMICEOUS MASS FLOW Pale, Grey, Pumiceous, Feldspar phyric, Polymict, Abundant 1mm feldspars, and common 3 to 5mm pink rhyolite? clasts and 1 to 3mm pumice clasts, minor chloritic patches in pumiceous-partly chloritic matrix. Abundant fine leucoxene throughout. CONTACT: Conformable mixed,						
155.00	234.60	ANDESITE Green, Red, Coarse grained, Massive, Porphyritic, Hornblende phyric, Feldspar phyric, Magnetite, Abundant 1 to 5mm carbonate altered hornblende and 1 to 3mm feldspars in dense dark red/green matrix. Frequent carbonate veins, and minor 3mm calcite amygdales in part. CONTACT: Conformable abrupt, at 45 degrees to LCA.	Slightly Carbonatised, Carbonate alteration of hornblend decreasing downhole.					

140 150 160 170 180 190 200 210

5 cm

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					210			
					220			
					230			
234.60	252.20	DACITE MIXED WITH SILTSTONE Pale, Grey, Peperitic, Classic peperite texture, ragged mid grey feldspar phyric volcanic in pale grey siltstone with minor bands of pale grey fine grained sandstone, and minor blue grey mudstone/shale. CONTACT: Missing,			240			FAULT. Breccia, Quartz, Not major structure as no lithology change.
252.20	256.90	BLACK SHALE Black, Finely laminated in part. Possible soft sediment structures. CONTACT: Conformable mixed,		DISSEMINATED, trace pyrite disseminated.	250			
256.90	577.30	DACITE Grey, Green, Massive, Feldspar phyric, Possible flow banding textures between 353 and 360m. Feldspars vary in abundance, and size from 1 to 4mm.	Slightly Carbonatised. Incipient carbonate alteration of feldspars.		260			
					270			
					280			VEIN. Chlorite, Carbonate,

5 cm

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
			Slightly Albitised, Pink felspar alteration eminating from fractures.		280 290 300 310 320 330 340 350			VEIN. Quartz, Chlorite.

5 cm

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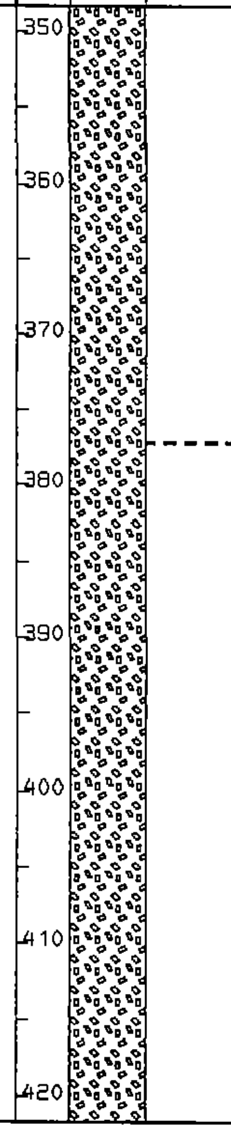
From	To	LITHOLOGY	ALTERATION	MINERALISATION	GRAPHIC (Depth / Lith / Structures)	STRUCTURES
			Slightly Carbonatised. Slight incipient carbonate alteration throughout of fine matrix, feldspars, and as fine gash-veinlets.			FAULT, Pug, At low angle to LCA within zone of broken core.
						BROKEN CORE, Quartz, Chlorite,

5 cm

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
				DISSEMINATED, trace pyrite disseminated. Associated with minor quartz chlorite veining, and pink felsic alteration..	420			BROKEN CORE, Quartz, Chlorite, Zone of broken core, pink feldsic alteration eminating from quartz chlorite veined fractures.
					430			
					440			
					450			FAULT, Quartz, Chlorite, Carbonate. Irregular vein filled fault.
					460			FAULT, Quartz, Chlorite, Carbonate.
					470			
					480			
					490			

5 cm

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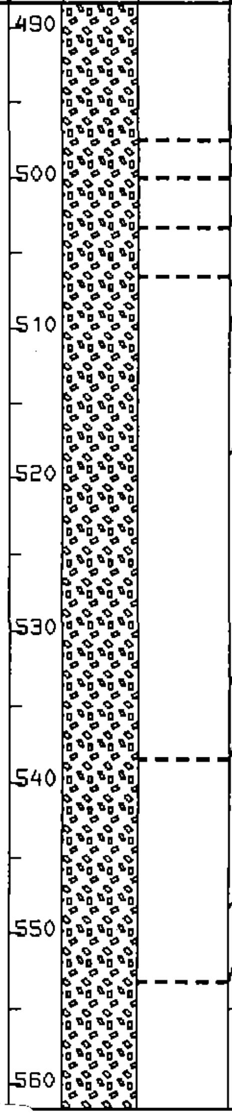
DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
								FAULT. Pug.
								FAULT. Quartz. Chlorite. Carbonate.
								FAULT. Pug. Within zone of broken core.
								BROKEN CORE. With low angle fractures coated with carbonate.
								FAULT. Pug. Within zone of broken core.
								BROKEN CORE. Low angle fractures coated with straw coloured carbonate.
								BROKEN CORE. Low angle irregular fractures with straw coloured carbonate.
								FAULT. Pug. Quartz. Chlorite. Irregular zone with pug bands at 45 degrees to LCA, and crystal growth perpendicular to vein orientation.
								BROKEN CORE. Pug.
								FAULT. A 60. Pug. Pug band is perpendicular to low angle fractures.
								BROKEN CORE. Crush zone.



5 cm

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					560			
					570			BROKEN CORE. Crush zone.
								BROKEN CORE. Crush zone.
					580			
					590			
					600			
					610			
					620			
					630			

5 cm