PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
YNC14

DRILLING

Location	NEWTON CREEK
Project	YOLANDE
Prospect	HENTY CANAL
Design By	P.M.Quayle
Logged By	D.Gardner
Relogged	
Commenced	5 April 1995
Completed	14 April 1995
Drilled By	RTE
Drill Rig	Gopher

OBJECTIVE

To test a zone of intense pyrite-sericite-silica alteration exposed in the Henty Canal. This zone correlates with the Newton Creek "principal target horizon" and is coincident with anomalous IP.

RESULT

A zone of intense pyrite-sericite-silica altered dacite lavas and hyaloclastites was intersected with dissapointing base metal and gold grades.

COLLAR SURVEY (AMG)

AMG mN	5360809.3	Bearing	282.0
AMG mE	379478.8	Dip	-48.0
mN		Hole Length	162.0
mE		DH Survey Type	Eastman single :
RL	525.9		

DOWNHOLE SURVEY (AMG)

Depth	Bearing	Dip
0.0	-48.00	270.00
57.0	-48.00	270.00
108.0	-47.00	271.50
159.0	-42.00	270.00

SIGNIFICANT CORE LOSS

From	To	Loss

POOR GROUND CONDITION ZONES

From	To	Condition

HOLE SIZE

From	To	Size
0	162	BQ

HOLE CONDITIONS AFTER COMPLETION

Collar	
Steel Casing	
PVC Casing	
Ground Water	NIL
Wedge	
Drill Pad	

SIGNIFICANT INTERSECTIONS

From	To	Int	Cu	Pb	Zn	Ag	Au	Comments

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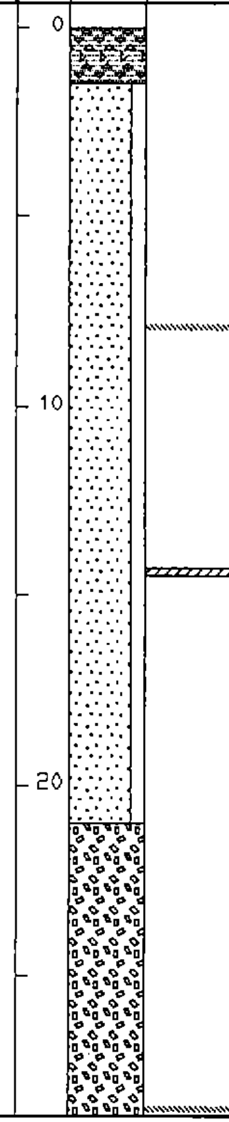
From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
0.00	1.50	FLUVIOGLACIAL DEPOSITS			
1.50	21.00	SANDSTONE WITH MINOR BRECCIA CONTAINING CLASTS OF DACITE Pink, Grey, Medium grained, Coarse grained, Matrix supported, Foliated, Pk and gy clasts/pseudo clasts? (variable alteration) in a pink mx, abundant pk-gy(and bleached) feldspar xtals in the clasts (and in the mx?), possible more coherent textures 10.5-15.8m (lava?) Thin section 40111 at 18.1m CONTACT: Gradational,	Slightly Bleached, Slightly Oxidised, Slightly Sericitised. Moderately Sericitised, Moderately Chloritised, Moderately Albitised, Feldspar phenocrysts are generally pk-red (?fine hematite alteration ?after albitisation?). Dark grey chlorite alteration is overprinted (and removed in many places) by later sericite +/- silica +/- pyrite (often producing pseudo v coarse fragmental textures)		FIRST CLEAVAGE, A 40, Strong. Foliation is pervasive thoughout the hole and varies from 30-50 to LCA, most clasts are aligned eith the foliation, which wraps around feldspar phenocrysts to produce an "augen" texture in places, quartz and/or carbonate veining is common throughout the hole VEIN, 20cm of strong quartz carbonate veining
21.00	58.00	DACITE CONTAINING CLASTS OF DACITE Pink, Grey, Medium grained, Porphyritic, Foliated, Feldspar phyric, Coherent lava textures predominate, with clastic looking textures in places that could be alteration or dacite fragments incorporated in the coherent facies, possible auto breccia texture in places, abundant pk-rd Fs phenocrysts to 2mm, abundant leucoxene. CONTACT: Gradational,			

GRAPHIC (Depth / Lith / Structures)



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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
				DISSEMINATED, trace pyrite disseminated, as stringers.	30			FIRST CLEAVAGE, A 40, FAULT, A 30, Shear, Pug, FIRST CLEAVAGE, A 40, FAULT, A 35, Shear, Pug, FIRST CLEAVAGE, A 40, VEIN, 20cm of carbonate veining brecciates dacite
					40			
					50			

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
58.00	65.70	SANDSTONE CONTRAINING CLASTS OF DACITE Grey, Pink, Medium grained, Coarse grained, Brecciated, Foliated, Feldspar phyric, Lithic, More clastic textures, may be due to alteration, but there are some definite fragments of fine pk dacite/feldspar up to 1cm, some patches appear polymict, some auto brecciated Thin Section 40112 at 65.0m CONTACT: Gradational,		VEIN, trace sphalerite galena pyrite DISSEMINATED, 5% pyrite as stringers, in veins, associated with alteration.	60			FIRST CLEAVAGE, A 45, FAULT, A 30, Shear, Pug.
65.70	69.70	DACITE Dark, Grey, Medium grained, Massive, Porphyritic, Feldspar phyric, Massive lava/sill with rd-pk Fs phenocrysts CONTACT: Conformable abrupt, at 45 degrees to Possible alteration front, colour change from gy to pk mx, but texture is the same, sharp change						
69.70	72.50	DACITE Pink, Medium grained, Massive, Porphyritic, Feldspar phyric, As above with pk matrix, abundant leucoxene CONTACT: Gradational,			70			FIRST CLEAVAGE, A 45, Strong. FAULT, A 40, Shear, Pug.
72.50	78.80	SANDSTONE MIXED WITH DACITE Grey, Green, Medium grained, Coarse grained, Foliated, Increase in clastic textures, decrease in amount of dacite and pk Fs xtals, possibly due to mixing of dacite with a sediment CONTACT: Conformable abrupt, at 45 degrees to						
78.80	82.50	SANDSTONE GRADING WITH CONGLOMERATE Grey, Green, Medium grained, Coarse grained, Massive, Dark gy-gn(ser) sediment? (no pk Fs), some wispy chlorite textures, this texture may again be an alteration effect Thin Section 40113 at 79.9m CONTACT: Gradational,	Highly Sericitised, Highly Silicified, Patches of strong sericite +/- silica +/- pyrite (?with chlorite wisps), strongly silicified patches after 82.5	DISSEMINATED, 5% pyrite as stringers, associated with alteration, minor chalcopyrite disseminated, 2-5% py, cp common below 80.3m.	80			
82.50	87.40	DACITE AND BRECCIA Grey, Pink, Fine grained, Very coarse grained, Dacite clasts and blocks up to 40cm, within a sedimentary? dacitic mx (pk fragments and Fs xtals), 86.7		DISSEMINATED, 1% pyrite as stringers, associated with alteration, in veins, trace chalcopyrite				FIRST CLEAVAGE, A 45,

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		grained, Dacite clasts and blocks up to 40cm, within a sedimentary? dacitic mx (pk fragments and Fs xtals), 86.7 to 87.4m has generally small dacite fragments <3mm, very altered, Thin Section 40117 83.6m CONTACT: Gradational,	Slightly Sericitised, Moderately Chloritised, Moderately Albitised, Feldspar phenocrysts and fine dacite clasts are generally pk-red (?fine hematite alteration ?after albitisation?). Dark grey chlorite alteration is largely overprinted by strong sericite silica pyrite alteration	associated with alteration, in veins, trace chalcopyrite DISSEMINATED, 5% pyrite as stringers, in veins, associated with alteration.
87.40	90.30	BRECCIA GRADING WITH CONGLOMERATE CONTAINING CLASTS OF DACITE Grey, Pink, Coarse grained, Clast supported, Reworked, Differences in clasts may be due to alteration, mx is grn-gy as before, high volcaniclastic component? CONTACT: Gradational,		DISSEMINATED, 2% pyrite as stringers, in veins, associated with alteration, trace galena 1-5% py, trace galena in quartz veins at 89.5m.
90.30	93.00	DACITE BRECCIA Grey, Pink, Very coarse grained, Clast supported, Large 10cm blocks of pk fg dacite in gy (mainly volcaniclastic? with pk-rd Fs to 2mm) mx CONTACT: Gradational,		DISSEMINATED, 1% pyrite as stringers, associated with alteration, in veins. 0-5% py, 1% overall?.
93.00	96.50	BRECCIA AND SANDSTONE CONTAINING CLASTS OF DACITE Grey, Pink, Medium grained, Coarse grained, Rd-pk fg dacite clasts and Fs xtals (generally <3mm, rarely to 2cm) scattered in a gy-gn volcaniclastic? mx CONTACT: Conformable abrupt, at 45 degrees to		
96.50	100.00	DACITE Grey, Pink, Medium grained, Massive, Porphyritic, Feldspar phyric, Some textures suggestive of auto brecciation and minor reworking in places, possible minor sediment input CONTACT: Gradational,		
100.00	101.80	BRECCIA GRADING WITH CONGLOMERATE CONTAINING CLASTS OF DACITE Grey, Pink, Very coarse grained, Reworked, Slightly reworked? CONTACT: Conformable mixed,		
101.80	121.00	DACITE WITH MINOR BRECCIA WITH MINOR SANDSTONE Grey, Pink, Medium grained, Massive, Porphyritic, Feldspar phyric, Some auto clastic and clastic textures may be due to alteration, some possible flowbanding at 60 to LCA (more definite at bottom of interval, Thin Section 40114 at 108.05m CONTACT: Faulted,		

GRAPHIC

Depth | Lith | Structures

90

100

110

STRUCTURES

FIRST CLEAVAGE, A 45.
FAULT, A 40, Shear, Pug.
FIRST CLEAVAGE, A 45.
FAULT, A 80, Shear, Pug.
FIRST CLEAVAGE, A 40.
FAULT, Pug.
FAULT, A 30, Pug.
FAULT, Shear, Pug.
FAULT, A 40, Pug.

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					120			
121.00	123.50	DACITE Khaki, Medium grained, Massive, Porphyritic, Feldspar phyric, Pk-bn Fs xtals to 3mm, mnr autobreccia CONTACT: Conformable mixed,		DISSEMINATED, trace pyrite				FAULT, A 80, Shear, Pug. FIRST CLEAVAGE, A 50, Strong,
123.50	138.70	DACITE AND BRECCIA Grey, Pink, Medium grained, Porphyritic, Massive, Feldspar phyric, Large red Fs phenocrysts to 2mm, some possible auto breccia textures and ? small bands of volcaniclastic? CONTACT: Indistinct,		DISSEMINATED, 1% pyrite as stringers, associated with alteration, in veins, 1-2% py, locally to 5%. DISSEMINATED, 2% pyrite 2-5% py.	130			A 30, Shear, Pug. A 50, Shear, Pug,
138.70	141.80	DACITE Dark, Grey, Fine grained, Massive, Porphyritic, Feldspar phyric, Red Fs phenocrysts to 3mm, some patches of pk dacite, Thin Section 40115 at 140.9m		DISSEMINATED, 5% pyrite DISSEMINATED, 10% pyrite	140			

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
		Feldspar phyric, Red Fs phenocrysts to 3mm, some patches of pk dacite, Thin Section 40115 at 140.9m CONTACT: Conformable mixed,		DISSEMINATED, 10% pyrite	140			
141.80	162.00	DACITE BRECCIA Pink, Grey, Medium grained, Very coarse grained, Porphyritic, Brecciated, Autobrecciated, abundant leucoxene		DISSEMINATED, 1% pyrite py 1% overall, locally to 5%.				VEIN, Quartz,
			Moderately Carbonatised, Moderately Sericitised, Moderately Albitised, As before but with a marked increase in the amount of carbonate both veining and in the matrix		150			
				STRINGER, trace sphalerite galena pyrite	160			
				DISSEMINATED, 1% pyrite locally py to 5%.				