PASMINCO EXPLORATION

DIAMOND DRILL CORE LOG

HOLE No. YNC6

PROJECT: YOLANDE: NEWTON CREEK

Vertical Scale 1 : 200

DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
0.00	3.50	GLACIAL DEPOSITS			0			
3.50	24.20	BRECCIA CONTAINING CLASTS OF ANDESITE AND RHYOLITE Grey, Green, Very coarse grained, Poorly sorted, Matrix supported, Polymict, Lithic, Very weathered zone with ghost clasts and shearing or elongation fabric increasint towards the faulted zone. CONTACT: Faulted, With broken quartz chlorite veining.	Highly Oxidised,		10			
24.20	28.00	FAULT ZONE (PUG) MIXED WITH SANDSTONE AND SILTSTONE Pale, Grey, Fine grained, Brecciated, Broken zone of quartz veining, silicification, pug and sandstone and siltstone. CONTACT: Faulted,	Moderately Silicified,	VEIN, minor pyrite in veins.	20			BROKEN CORE. Broken weathered zone.
28.00	35.90	BRECCIA Grey, Green, Very coarse grained, Poorly sorted,	Highly Oxidised,					FAULT, Zone of quartz veining and brecciation.

5 cm

5 cm

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				VEIN, minor pyrite in veins,				FAULT, Zone of quartz veining and brecciation.
28.00	35.90	BRECCIA Grey, Green, Very coarse grained, Poorly sorted, Matrix supported, Polymict, Crystal, Lithic, Very weathered rock, clasts are indistinct but appear to include siltstone, shale, siliceous volcanics and intermediate volcanics. CONTACT: Gradational,	Highly Oxidised.		30			
35.90	39.30	SANDSTONE Grey, Green, Coarse grained, Cleaved, Lithic, Crystal, Similar in colour and components to previous interval. CONTACT: Missing,	Moderately Oxidised.					
39.30	43.60	*BLACK SHALE INTERBEDDED WITH SILTSTONE Black, Fine* grained, Laminated, CONTACT: Missing,			40			
		SANDSTONE Grey, Green, Coarse grained, Poorly sorted, Polymict, Lithic, Crystal, Similar to previous intervals. CONTACT: Missing,		DISSEMINATED, very minor pyrite disseminated, very minor pyrite on fractures,				BEDDING, D 50,
43.60	46.20	BLACK SHALE INTERBEDDED WITH SANDSTONE Black, Fine grained, Laminated, INTERBEDDED WITH SANDSTONE Grey, Coarse grained, Bedded, Lithic, Crystal, Minor clasts upto 20mm include shale, cherty siltstone and white fine grained siliceous volcanic. Sandstone is white sacharoidal (non carbonate) in part baritic? CONTACT: Conformable abrupt, at 45 degrees to LCA.	Slightly Oxidised.					FAULT, Breccia, Pug,
46.20	53.50		Slightly Carbonatised.	STRINGER, sphalerite in veinlets, very minor disseminated, minor pyrite disseminated, Red brown sphalerite coarse grained in white carbonate veinlets, to fine grained disseminated in sedimentary banding..	50			FAULT, D 0, Reverse movement, Several micro thrusts west over east parallel to core axis.
		GREYWACKE Grey, Very coarse grained, Upwards fining sequence, Polymict, Lithic, Crystal, Grading uphole (to the east). Clast types grade from 30mm to 1mm including abundant black shale, abundant pale siliceous fine grained clasts with disseminated pyrite, and trace pyrite clasts. Fine carbonate in matrix. CONTACT: Conformable abrupt, at 45 degrees to LCA.						
53.50	54.20	*BLACK SHALE Black, Fine grained, Bedded, Calcarious,* Bedding picked out by disseminated pyrite and carbonate bands is at a high angle to cleavage ie, fold position. Abundant fine carbonate veinlets. CONTACT: Faulted, at 45 degrees to LCA. The shale is drag folded near the contact.		CLAST, very minor pyrite massive, Minor 5mm clasts of pyrite in a wacke bed..				BEDDING, D 45, Grading uphole,
54.20	58.70		Slightly Carbonatised.	DISSEMINATED, very minor pyrite in veins, trace sphalerite in veinlets, pyrite From disseminated in sedimentary				FIRST CLEAVAGE, D 50, FOLD,

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		CONTACT: Faulted, at 45 degrees to LCA. The shale is drag folded near the contact.		veins, trace sphalerite in veinlets, pyrite from disseminated in sedimentary banding to transposed in cleavage, and in fine white carbonate veinlets..				FIRST CLEAVAGE, D 50, FOLD.
		LIMESTONE White, Fine grained, Stylolites, CONTACT: Gradational,						FOLD, Drag folded vein?
58.70	61.00	LIMESTONE MIXED WITH SHALE Grey, White, Fine grained, Calcarious, Laminated and banded limestone and shale disrupted and brecciated in part, minor flat faults with upper block west to east sence of movement. CONTACT: Conformable abrupt, at 35 degrees to LCA.			60			
61.00	65.00	SANDSTONE Dark, Green, Medium grained, Bedded, Reworked andesite derived sediment mixed with limestone bands. CONTACT: Indistinct,						
65.00	67.30	FAULT ZONE (PUG) Pink, Grey, Very coarse grained, Brecciated, Zone of Brecciated buff coloured feldspar phyric dacite with interstitial quartz and chlorite. Abundant fine disseminated pyrite throughout. CONTACT: Unassigned,	Slightly Carbonatised.					
67.30	69.30	BRECCIA Pink, Grey, Very coarse grained, Poorly sorted, Matrix supported, Polymict, Lithic, Clasts include rhyolite,siliceous altered and pyritic in a reworked dacite/andesite derived matrix. Clast size: 11 to 61 mm. CONTACT: Gradational,	Moderately Chloritised.					FAULT, Breccia, Quartz healed indistinct breccia.
69.30	69.60		Slightly Sericitised.	DISSEMINATED, minor pyrite disseminated, Minor pyritic clasts..	70			
69.60	70.70	SANDSTONE MIXED WITH SILTSTONE Grey, Medium grained, Fine grained, Irregular patchy mix of reworked dacite/andesite derived sandstone and fine grained cherty siltstone. CONTACT: Conformable abrupt,	Slightly Chloritised.					
70.70	72.90	ANDESITE Dark, Green, Medium grained, Coarse grained, Flow brecciated, Ragged angular jigsaw fit andesite? clasts in reworked andesite derived matrix. CONTACT: Indistinct,	Highly Sericitised, Slightly Silicified.	DISSEMINATED, abundant pyrite disseminated, Alligned in sedimentary bands.				
72.90	76.00	SCHIST Cream, Grey, Coarse grained, Sheared, Augen, Zone of siltstone to wacke with intense sericite and pyrite alteration overprinted with sheared to augen texture. CONTACT: Missing,	Slightly Chloritised.					FAULT, Shear, Pyrite sericite schist.
76.00	79.70	ANDESITE Dark, Green, Coarse grained, Flow brecciated, Feldspar phyric, CONTACT: Conformable abrupt,						
79.70	80.30	BRECCIA Grey, Coarse grained, Brecciated, CONTACT: Gradational,	Moderately Silicified, Moderately Sericitised.		80			
80.30	85.70	DACITE Grey, Pink, Coarse grained, Reworked, Cleaved, Feldspar phyric, CONTACT: Gradational,						
		BRECCIA Grey, Pink, Very coarse grained, Cleaved, Matrix supported, Polymict, Reworked dacite with 5 to 100mm angular stretched? clasts of silicified dacite, siliceous						FIRST CLEAVAGE, D 45,

5 cm

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
		supported, Polymict, Reworked dacite with 5 to 100mm angular stretched? clasts of silicified dacite, siliceous fine grained sediment, aggregates of oolitic? carbonate, and minor very fine grained massive pyrite. Clast size and abundance increasing downhole.						FIRST CLEAVAGE, D 45,
85.70	86.40	CONTACT: Gradational,	Highly Sericitised,					FAULT, D 40, Breccia,
86.40	89.60	*SCHIST Pale, Grey, Fine grained, Medium grained, Cleaved,* Pyrite sericite schist indistinct pyritic compositional banding? CONTACT: Conformable abrupt,	Intensely Sericitised,	DISSEMINATED, pyrite disseminated, abundant associated with alteration, Pyrite sericite schist, NOTE pyrite massive banded pyrite clast..				FAULT, Shear, Pyrite sericite schist.
89.60	90.30		Moderately Carbonatised, Moderately Sericitised.		90			
90.30	92.10	BRECCIA Grey, Yellow, Very coarse grained, Brecciated, Polymict, Feldspar phyric, The base of this unit is carbonate altered and haematitic with minor pyrite grains, the upper part is a cleaved wacke with 3 to 30mm clasts of silicified dacite, fine grained siliceous sediment, chlorite/pyrite, and sericite altered clasts. CONTACT: Conformable abrupt,	Slightly Carbonatised,					
92.10	95.70	*SANDSTONE Dark, Green, Coarse grained, Reworked, Feldspar phyric, Reworked dacite/andesite derived sandstone.* CONTACT: Conformable abrupt, at 48 degrees to LCA.	Slightly Oxidised, Slightly Chloritised.					FOLD, Indistinct high angle cleavage to bedding.
95.70	97.90	LIMESTONE White, Medium grained, Granular carbonate with wisps of chlorite and haematite throughout. Indistinct folded bedding. CONTACT: Conformable abrupt, at 35 degrees to LCA.						FAULT, D 45, Pug.
97.90	106.90	SANDSTONE MIXED WITH SILTSTONE Pink, Grey, Fine grained, Medium grained, Feldspar phyric, Reworked dacite derived sandstone with mixed disrupted patches of siltstone. CONTACT: Missing,	Slightly Sericitised,		100			FIRST CLEAVAGE, D 85, BEDDING, D 55, BEDDING, D 72,
		SANDSTONE MIXED WITH DACITE Green, Very coarse grained, Bedded, Reworked, Feldspar phyric, Reworked dacite derived sandstone with abundant 1mm pink feldspars. Indistinctly bedded. CONTACT: Conformable abrupt, at 40 degrees to LCA.						FIRST CLEAVAGE, D 45,
106.90	107.50	SANDSTONE Dark, Green, Medium grained, Coarse grained, Massive, Lithic, Crystal, Massive quartz/feldspar sandstone with abundant leucoxene. CONTACT: Conformable abrupt,	Slightly Chloritised,					
107.50	108.70							
108.70	112.20	*SHALE WITH MINOR LIMESTONE MIXED WITH DACITE Grey, Green,* Hyaloclastitic, Irregular zone of hyaloclastite grading to reworked dacite to shale and minor limestone. CONTACT: Conformable mixed,			110			
112.20	145.20	DACITE MIXED WITH SILTSTONE Dark, Green, Hyaloclastitic,						

5 cm

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Vertical Scale 1 : 200

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
		CONTACT: Conformable mixed,						
112.20	145.70	DACITE MIXED WITH SILTSTONE Dark, Green, Hyaloclastitic, Ragged 10 to 50mm jigsaw fit fragments of feldspar phyric dacite in fine grained pale green matrix. CONTACT: Conformable abrupt,	Slightly Sericitised,	DISSEMINATED, minor pyrite disseminated, fssociated with irregular carbonate veins..				
		DACITE Dark, Green, Flow brecciated, Feldspar phyric, Zone of autobrecciated lavas, typically dark green 10 by 40mm dacite clasts in matrix of similar composition, massive overall appearence. CONTACT: Conformable abrupt,			120 130 140			

5 cm

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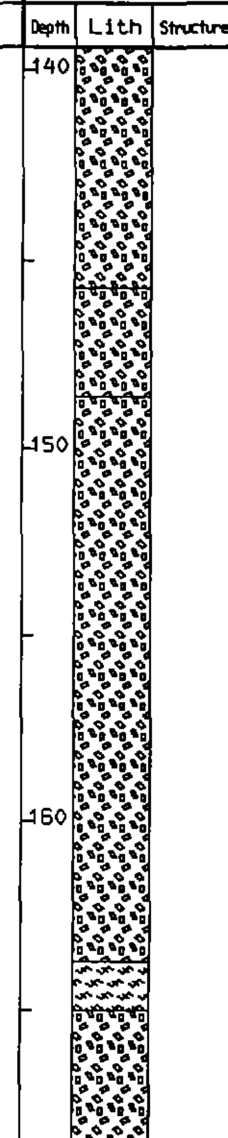
Vertical Scale 1 : 200

DESCRIPTION

From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
145.70	148.60	DACITE Red, Brecciated, Feldspar phyric, Zone of alteration in similar rock type. CONTACT: Conformable abrupt,	Moderately Silicified,		
148.60	163.70	DACITE Dark, Green, Flow brecciated, Feldspar phyric, Autoclastic lavas, clasts from 10 to 60mm matrix similar composition but paler in colour and finer grained. CONTACT: Conformable abrupt, at 40 degrees to LCA. Contact very sharp with clasts of underlying lava in overlying lava.			
163.70	165.00	RHYOLITE Red, Massive, Porphyritic, Feldspar phyric, Very siliceous rock, could be silicified dacite, but (silicified) feldspar abundance is greater and more regular, also clasts occur in the overlying lava breccias. Resembles spillway lower rhyolite clasts. CONTACT: Conformable mixed,	Moderately Silicified,		
165.00	176.60	DACITE CONTAINING CLASTS OF RHYOLITE Dark, Green, Very coarse grained, Flow brecciated, Zone concists of angular to ragged 10 to 60mm clasts of dark green dacite in a paler matrix of a similar composition. Minor pink	Slightly Sericitised,		

GRAPHIC



5 cm

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
		to ragged 10 to 60mm clasts of dark green dacite in a paler matrix of a similar composition. Minor pink siliceous clasts possibly rhyolite are present. CONTACT: Gradational, at 50 degrees to LCA.			170			
176.60	195.70	DACITE Dark, Green, Flow brecciated, Reworked, Massive possibly reworked dacite, ragged dacite clasts smaller and more sparse. Minor fine carbonate veinlets. CONTACT: Conformable mixed, 5 cm			180		FIRST CLEAVAGE, O 42.	
195.70	202.90	DACITE Green, Pink, Massive, Porphyritic, Feldspar	Moderately Silicified,		190			

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
195.70	202.90	DACITE Green, Pink, Massive, Porphyritic, Feldspar phyric, Irregular zone of dacites massive to autobrecciated, silicified in part and typically 2mm pink feldspar phyric. CONTACT: Conformable mixed,	Moderately Silicified.					
202.90	231.50	DACITE Green, Pink, Medium grained, Zone of reworked to autoclastic dacite. Feldspars fine and sparse. Minor patches of pink alteration? CONTACT: Indistinct,	Slightly Sericitised.					

200

210

220

FAULT, D 30, Carbonate chlorite vein infill with minor pug.

VEIN, D 55, Quartz,

5 cm

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					230			
231.50	235.00	DACITE Green, Pink, Massive, Feldspar phyric, Irregular zone typified by abundant 2mm pink feldspars. Massive in part and with pervasive pink alteration in part. Minor carbonate veining. CONTACT: Indistinct,	Slightly Carbonatised.					
235.00	248.80	DACITE Pale, Green, Massive, Zone of autobrecciated to reworked dacite. Abundant fine pink feldspars in part. Pink altered patches around irregular carbonate veinlets. CONTACT: Indistinct, 5 cm	Slightly Sericitised.		240			FRACTURE. Zone of broken core on low angle fracture.
248.80	262.30	DACITE Green, Pink, Massive, Flow brecciated, Feldspar phyric, Zone of massive to autobrecciated feldspar phyric dacites. Pink K feldspar alteration in part, and fine white carbonate veinlets in part. CONTACT: Indistinct,	Slightly Sericitised. Slightly Silicified.		250			

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
		CONTACT: Indistinct,		VEIN, carbonate trace pyrite associated with alteration.				
262.30	268.30	DACITE Pale, Green, Medium grained, Reworked, CONTACT: Conformable mixed,	Slightly Sericitised.	VEIN, carbonate as stringers, trace pyrite in veins.				
268.30	285.10	DACITE MIXED WITH SILTSTONE Pale, Green, Hyaloclastitic, Massive dark green feldspar phyric dacite to ragged dacite fragments in fine grained pale green siltstone? matrix. Minor pink siliceous band? rhyolite clast?, and minor pink felsic patches.						

260
270
280

5 cm

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					280			FAULT, D 25, Breccia, Quartz, Chlorite. Zone of brecciated massive quartz chlorite veining infilling fault.
285.10	301.50	DACITE Green, Massive, Massive to reworked dacite. Minor pink alteration. CONTACT: Indistinct,	Slightly Sericitised.		290			FAULT, D 20, Sericite, Quartz, Chlorite. Zone of shearing around brecciated vein.
301.50	341.60	DACITE Grey, Pink, Massive, Zone of irregular to massive feldespar phyric dacite with abundant bands of pink felsic? alteration throughout. CONTACT: Indistinct,	Moderately Detextured.		300			

5 cm

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					310			
					320			
					330			FAULT, Brittle, Zone of very broken core, minor pug and minor quartz carbonate veining.

5 cm

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					340			BROKEN CORE. FAULT, D 10, Breccia, Pug, Chlorite. FAULT, D 15, Pug, Quartz, Carbonate.
341.60	354.60	DACITE Green, Pink, Massive, Feldspar phyric, Massive dacite with prominant abundant 2mm phyric feldspars, no autobreccia texture. CONTACT: Indistinct.	Slightly Sericitised.		350			
354.60	376.60	DACITE Dark, Green, Massive, Feldspar phyric, Feldspars reducing in size and abundance downhole. CONTACT: Faulted.			360			FAULT, D 5, Carbonate.

5 cm

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					370			
376.60	379.60	FAULT ZONE (PUG) Cream, Sheared, Brecciated, Very broken zone with several bands of pug, shearing, brecciation and quartz/carbonate/chlorite veining. A significant structure. CONTACT: Faulted,	Highly Sericitised,					FAULT. Breccia, Pug, Zone of very broken core, minor pug, breccia, and carbonate veining.
379.60	380.90	DACITE MIXED WITH SILTSTONE Green, Pale, Hyaloclastitic, Iregular mixing of dacite and fine grained siltstone? CONTACT: Faulted, at 55 degrees to LCA.	Slightly Sericitised,		380			FAULT. Pug, Breccia. Bleached broken zone with pug breccia and minor quartz veining.
380.90	391.00	DACITE Green, Massive, Feldspar phyric, Feldspar size and abundance decreasing downhole. CONTACT: Faulted,		VEIN, carbonate quartz very minor pyrite disseminated.				
					390			
391.00	395.00	BRECCIA						

5 cm

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
391.00	395.00	BRECCIA						
395.00	401.70	DACITE Green, Grey, Medium grained, Massive, Cleaved, Feldspar phyric, Reworked? dacite, abundant 2mm pink feldspars in pale to dark green sericitic matrix? minor highly sericitic detextured zones occur. CONTACT: Conformable abrupt,	Moderately Sericitised,		400			FAULT, 0 45, Pug, Bleached sericitized zone with minor pug.
401.70	417.80	ANDESITE GRADING TO BRECCIA Green, Very coarse grained, Hyaloclastitic, Brecciated, Autoclastic andesite grading to andesite derived breccia and sandstone at top of interval. Minor bands of pink and white silicification. CONTACT: Indistinct,	Slightly Sericitised,		410			FAULT, 0 35, Pug,
417.80	420.00	ANDESITE Dark, Green, Fine grained, Massive, CONTACT: Conformable abrupt,			420			
420.00	422.40	BRECCIA MIXED WITH ANDESITE Green, Pink, Very coarse grained, Brecciated, Variably pink and white siliceous	Slightly Silicified,					

5 cm

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	STRUCTURES
420.00	422.40	BRECCIA MIXED WITH ANDESITE Green, Pink, Very coarse grained, Brecciated, Variably pink and white siliceous altered andesite or dacite clasts in andesite ground mass. CONTACT: Conformable abrupt,	Slightly Silicified,	DISSEMINATED, very minor pyrite disseminated.	
422.40	423.60	ANDESITE Dark, Green, Fine grained, Massive, CONTACT: Conformable abrupt,			
423.60	428.40	BRECCIA Green, Pink, Very coarse grained, Brecciated, Feldspar phyric, Zone of pink silicified dacite? andesite in green reworked andesite derived matrix. CONTACT: Faulted,	Slightly Silicified, Slightly Sericitised.		FAULT, D 45, Pug, Bleached zone
428.40	446.80	ANDESITE Green, Pink, Fine grained, Zone of dark green chloritic or pale pink silicified massive andesite. Siliceous alteration appears to eminate from abundant fine faults. CONTACT: Conformable abrupt,		STRINGER, very minor pyrite associated with alteration.	FAULT, D 45, Pug, Bleached zone with minor pug bands. FAULT, D 40, Pug. FAULT, D 45, Pug, Bleached and broken zone with minor bands of pug.
446.80	451.60	BRECCIA MIXED WITH ANDESITE Cream, Pink, Brecciated, Clastic or pseudoclastic andesite or dacite. Note typical pink silicified volcanic clasts.	Moderately Carbonatised, Moderately Silicified.		FAULT, D 45, Pug.

GRAPHIC — Depth: 420, 430, 440

5 cm

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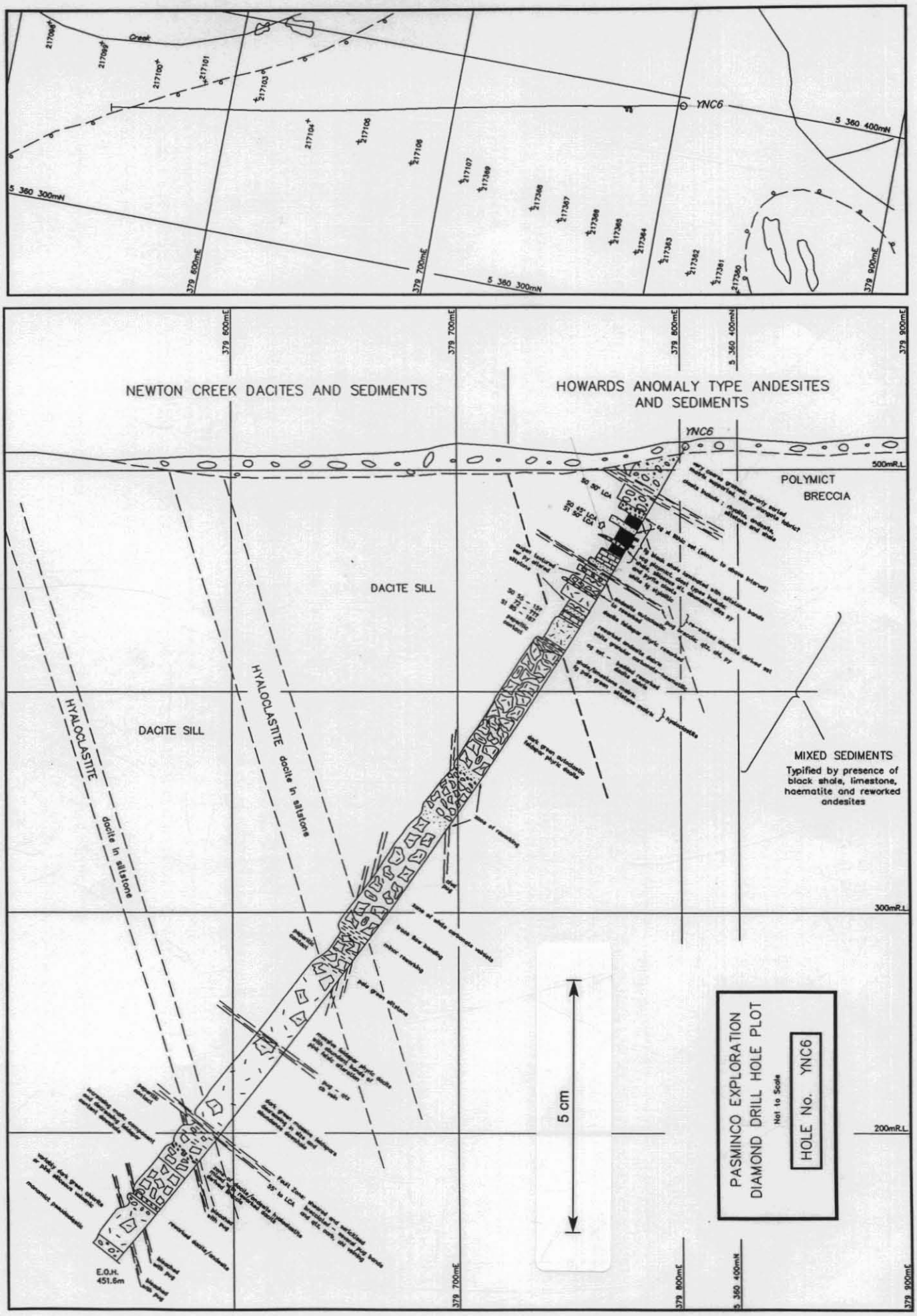
		Clastic or pseudoclastic andesite or dacite. Note typical pink silicified volcanic clasts. CONTACT: Conformable abrupt,	Moderately Silicified.		450 460 470			FAULT, D 45, Pug.

5 cm

897167


Creek
YNC6
5 360 400mN
5 360 300mN
379 600mE
379 700mE
379 800mE
379 900mE
NEWTON CREEK DACITES AND SEDIMENTS
HOWARDS ANOMALY TYPE ANDESITES AND SEDIMENTS
500mR.L
300mR.L
200mR.L
POLYMICT BRECCIA
DACITE SILL
DACITE SILL
HYALOCLASTITE dacite in siltstone
HYALOCLASTITE dacite in siltstone
MIXED SEDIMENTS
Typified by presence of block shale, limestone, haematite and reworked andesites
5 cm
PASMINCO EXPLORATION
DIAMOND DRILL HOLE PLOT
Not to Scale
HOLE No. YNC6
E.O.H. 451.6m