

PRSMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. **YNCS**

PROJECT: YOLANDE: NEWTON CREEK

Vertical Scale 1 : 200

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DESCRIPTION				GRAPHIC			STRUCTURES
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	
0.00	58.10	RHYDLITE Red, Grey, Coarse grained, Porphyritic, Quartz phytic, Feldspar phytic, Typical Tyndall quartz phytic lava. Generally massive but chloritic patches give a brecciated appearance in part. CONTACT: Gradational, Defined by colour change and start of flow banding.			0		

5 cm

FRacture, Moderatly broken core oxidised and with

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DESCRIPTION				GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith Structures	STRUCTURES
					30		<p>FRACTURE. Moderately broken core oxidised and with abundant chlorite filled fine fractures.</p>
					40		<p>FALLT. Zone of oxidation quartz veining and broken core.</p>
					50		<p>FRRACTURE. Zone of oxidation quartz veining and broken core.</p>

5 cm

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DESCRIPTION				GRAPHIC			STRUCTURES
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures
58.10	70.20	RHYOLITE Pale, Grey, Flow banded, Porphyritic, Quartz phytic, Feldspar phytic, Pumiceous, Flow banding at 70 to 75 degrees to LCA. CONTACT: Conformable mixed, Mixed with unconsolidated sediments	Slightly Silicified.		50		
					70		PRIMARY FABRIC, D 75.
70.20	74.40	BRECCIA Green, Coarse grained, Very coarse grained, Poorly sorted, Matrix supported, Polymict, Lithic, Irregular appearance may be due to contact effect with overlying lavas and/or andesite volcanoclastic content. Note siderite? altered clasts. CONTACT: Conformable abrupt,	Slightly Carbonatised.	CLAST, abundant siderite trace galena disseminated, trace sphalerite in veinlets, Siderite? altered clasts. Sphalerite is red brown..			FRACTURE, Broken core.
74.40	82.50	BRECCIA Pale, Grey, Very coarse grained, Poorly sorted, Polymict, Zone of banded breccias, sandstones, wackes and siltstones. The wackes are approx .9m poorly sorted polymict, angular, upto 10mm clast size with notable pyrite clasts. Massive sandstone in 10cm bands and irregular minor dark siltstones. Trace chert possibly a clast. CONTACT: Missing,	Moderately Silicified,	DISSEMINATED, minor pyrite disseminated, trace sphalerite in veinlets, trace galena disseminated, within large siliceous clasts and silicified breccia.. CLAST, very minor pyrite massive, 3 to 10mm massive pyrite clasts scattered in polymict wacke..	80		
82.50	88.50	BLACK SHALE Black, Grey, Fine grained, Massive, Cleaved, Very broken zone with much core loss. Minor quartz veins. CONTACT: Missing,	Moderately Chloritised,				

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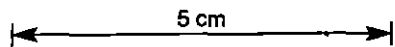
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DESCRIPTION					GRAPHIC			STRUCTURES
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
		Very broken zone with much core loss. Minor quartz veins. CONTACT: Missing,						
88.50	94.40	LIMESTONE White, Irregular zone with massive calcite and quartz veining and with abundant irregular textured carbonate rock with at least in part sedimentary clastic textures. CONTACT: Conformable mixed,			90			FRACTURE, Black shale, broken core zone possibly associated with major fault (drilling water loss and abundant fine black pug wash).
94.40	113.30	INTERMEDIATE VOLCANICLASTIC Green, Red, Very coarse grained, Feldspar phyric, Zone of andesite and reworked andesite derived clastics, minor silty clasts or patches, abundant bands or patches of irregular white granular carbonate. Zone is typified by intense haematite alteration and abundant carbonate bands/patches/veins. CONTACT: Conformable mixed,	Oxidised, Highly Oxidised.	STRONGER, haematite abundant carbonate associated with alteration, Zone of intense haematite / carbonate alteration..				VEIN, Carbonate, Chlorite, BEDDING, D 65.
					100			
								FALLT, D 65. Brittle, Chlorite.
					110			
		SANDSTONE Grey, Green, Medium grained, Bedded, Lithic, Bands from 2 to 10cms of well sorted sand size andesitic debris, with irregular feldspar crystals and carbonate alteration of feldspars, and minor bands with well sorted terrigenous derived sediments including						



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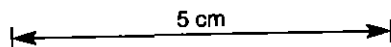
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DESCRIPTION				GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	STRUCTURES
119.80	122.80	<p>carbonate alteration of feldspars, and minor bands with well sorted terrigenous derived sediments including quartz grains. CONTACT: Conformable mixed, MIXED WITH ANDESITE MIXED WITH SANDSTONE Green, Red, Porphyritic, Poorly sorted, Zone of haematitic / carbonate alteration of andesite and andesite derived coarse sediments. White feldspar crystal rich. Haematite as ragged alteration patches or discrete alteration of clasts and crystals, white carbonate as a mesh of fine irregular veinlets. CONTACT: Conformable abrupt,</p>	<p>Slightly Chloritised. Slightly Oxidised. Highly Oxidised. Moderately Chloritised.</p>		120		BEDDING, D 60.
122.30	129.40	<p>SANDSTONE Pale, Green, Very coarse grained, Poorly sorted, Lithic, CONTACT: Conformable abrupt, MIXED WITH RHYOLITE MIXED WITH SANDSTONE Pink, Massive, Quartz phytic, Feldspar phytic, Zone of mixed silicified Tyndall rhyolite and sandstone. Sequence seems to be conformable with mixed contacts. CONTACT: Conformable mixed,</p>	<p>Moderately Chloritised, Highly Silicified.</p>		130		BEDDING, D 65.
133.40	138.50	<p>SANDSTONE Grey, Pink, Very coarse grained, Poorly sorted, Matrix supported, Feldspar phytic, Lithic, Irregular patches of dark chlorite packed with 1mm pink feldspar crystals. Abundant sub-rounded variably sized pink siliceous lithics. 20cm chert band at 138.2m. CONTACT: Faulted, at 55 degrees to LCA. Ten mm of stretched carbonate with slickenlines horizontal.</p>		<p>VEIN, quartz minor galena in veins, Minor coarse grained galena in Devonian? massive white quartz chlorite veins...</p>	140		VEIN, Chlorite.
138.50	148.10	<p>ANDESITE Green, Red, Massive, Feldspar phytic, Haematitic massive andesite. Intensity of haematitic alteration decreasing downhole, abundance of feldspars increasing</p>	<p>Moderately Oxidised,</p>	<p>STRINGER, minor haematite as stringers, Zone of haematite / carbonate alteration...</p>	140		BEDDING, D 45.



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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures
		massive andesite. intensity of haematitic alteration decreasing downhole, abundance of feldspars increasing uphole. Abundant irregular white carbonate veinlets throughout. CONTACT: Conformable abrupt,		Zone of haematite / carbonate alteration..	140		
		← 5 cm →					
148.10	151.50	SANDSTONE Pale, Cream, Very coarse grained, Fine grained, Poorly sorted, Matrix supported, Polymict, Lithic, Indistinctly banded fine and medium grained sandstone with abundant sub-angular variably sized pink and grey siliceous lithics. CONTACT: Conformable abrupt, at 60 degrees to LCA.	Moderately Sericitised,	DISSEMINATED, minor pyrite disseminated.	150		
151.50	158.70	ANDESITE MIXED WITH SANDSTONE Dark, Green, Brecciated, Massive, Irregular zone of minor massive andesite, brecciated andesite, and andesite derived sediments. Breccia associated with a West over East low angle thrust. CONTACT: Conformable abrupt,	Moderately Chloritised, Slightly Sericitised.	DISSEMINATED, minor pyrite disseminated.			BEDDING, D 55, FAULT, D 0. Very sharp horizontal displacement. FAULT, D 15. Brittle, Pug, Fault dips at about 45 degrees N/S. Possibly thrust west to east.
158.70	163.90	SANDSTONE Pale, Green, Fine grained, Coarse grained, Poorly sorted, This zone is straw coloured Fe/Mn carbonate altered and perhaps equates with mineralized interval in DDH YNC4. The zone is an irregular mix of andesite derived and terrigenous sediments. There are two generations of carbonate veining, a white cb with fluorite, and a Fe/Mn cb +/- quartz. CONTACT: Conformable abrupt, at 55 degrees to LCA.	Moderately Carbonatised, Slightly Sericitised.	STRONGER, abundant carbonate in veins, minor pyrite disseminated, very minor galena associated with alteration. Zone of Fe/Mn carbonate alteration and veining, also minor white carbonate / fluorite veining..	160		BEDDING, D 45. FOLD, Axis. Open synform with axial plane cleavage, possibly steep plunging northwards. FIRST CLEAVAGE, D 45. Sub parallel to bedding.
163.90	167.40	SANDSTONE Cream, Green, Medium grained, Bedded, Poorly sorted, Feldspar phyrlic, Zone banded on a 10 to 20cm scale of pale cream sericitic feldspar phyrlic sediments and pale to dark green feldspar phyrlic sediments. The primary textures are indistinct, the bands possibly reflect terrigenous and andesitic provenance. CONTACT: Faulted,	Slightly Sericitised.				VEIN, Carbonate, Chlorite, Galena. Mineralised vein cross cutting earlier carbonate alteration. BEDDING, D 55.
167.40	169.80	SILTSTONE Pale, Grey, Fine grained, Laminated, Zone of faulting, pug and broken core, and irregular quartz	Slightly Oxidised, Slightly Sericitised.				FAULT, Pug, Shear, Zone of broken core intense

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

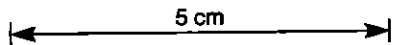
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167.40	169.80	SILTSTONE Pale, Grey, Fine grained, Laminated, Zone of faulting, pug and broken core, and irregular quartz veining. Dominant lithology is pale grey siltstone. CONTACT: Faulted,	Slightly Oxidised, Slightly Sericitised.					FALLT. Pug, Shear, Zone of broken core intense cleavage development and pug.
169.80	170.90	FAULT ZONE (PUG) WITH MINOR SANDSTONE Yellow, Green, Brecciated, Sheared, Zone of breccia, pug, quartz veining and broken core. Straw coloured carbonate present in quartz veins. CONTACT: Faulted,	Moderately Sericitised, Moderately Chloritised.		170			FALLT. Breccia.
170.90	183.70		Slightly Carbonatized, Slightly Sericitised.					
		ANDESITE AND SANDSTONE Pale, Green, Brecciated, Massive, Zone of mixed massive andesite derived sandstone and indistinct angular 1 to 10cm andesite clasts in andesite derived sediments. Abundant fine leucoxene. Common irregular Fe/Mn carbonate veins. Minor pink quartz veins. CONTACT: Conformable mixed,						
								
183.70	190.00	ANDESITE Dark, Green, Brecciated, Zone of disrupted and brecciated andesite. CONTACT: Conformable abrupt,						
				DISSEMINATED, very minor pyrite disseminated.				
190.00	208.00	ANDESITE AND CONGLOMERATE Green, Brecciated, Poorly sorted, Zone of andesite clasts in andesite derived sediments. Matrix and clast grainsize decrease down hole, and terrigenous content in matrix and lithics increases. Minor pale grey fine grained siliceous clasts from 198 to 205m. Minor Fe/Mn carbonate throughout. CONTACT: Gradational,	Slightly Sericitised,					
				STRONGER, minor carbonate very minor pyrite disseminated.	190			

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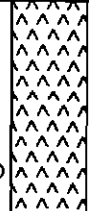


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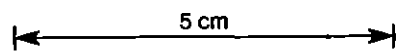
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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					200			
				STRINGER, minor carbonate as stringers, very minor pyrite associated with alteration.				FOLD, Possible slump folding? indistinct antiform.
208.00	212.90	ANDESITE Dark, Green, Brecciated, Zone of irregular indistinct andesite clasts in andesite derived sediments. Shear marks significant rock-type change. CONTACT: Faulted, at 20 degrees to LCA. Faulted contact is bleached over 1m, is sericitised, contains qtz veins and horizontal slickenlines.	Slightly Sericitised,		210			
212.90	224.50	DACITE Pale, Grey, Feldspar phyric, Ghost lava breccia texture in part. Bleached near upper faulted contact. Abundant 1mm feldspars altered to sericite? CONTACT: Gradational,	Moderately Bleached,		220			FAULT, D 20. Shear. Contact of different rocktypes. Fibres in the fault plane are horizontal and perpendicular to the LCA, suggesting a N/S movement on fault.



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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures
224.50	239.20	DACITE Pink, Massive, Silicified detextured rock, but gradational change recognisable through to overlying dacite. Note common irregular lilac amorphous quartz veins. CONTACT: Faulted, at 80 degrees to LCR.	Moderately Silicified.		230		
239.20	243.20	DACITE Buff, Zone of alteration, detexturing and faulting. Resembles in part texture in altered dacites (331m) above mineralisation. CONTACT: Faulted,	Moderately Silicified. Moderately Sericitised.	VEIN, minor pyrite disseminated, trace galena in veinlets, trace chalcopyrite in veinlets, Brecciated zone with mineralisation in irregular Mn carbonate veinlets..	240		FALLT. 0 80, Pug. FALLT. 0 80, Pug. FALLT. 0 55, Pug.
243.20	245.20	DACITE Dark, Green, Zone of disrupted dacite and dacite derived sediments. CONTACT: Conformable abrupt,					FALLT. Pug, Breccia. Significant structure as rock-type change.
245.20	246.80	CONGLOMERATE CONTAINING CLASTS OF DACITE Cream, Black, Very coarse grained, Poorly sorted, Matrix supported, Resembles Newton Creek spillway conglomerate.	Slightly Sericitised. Slightly Chloritised.				
246.80	253.10	SANDSTONE MIXED WITH DACITE Grey, Green, Medium grained, Feldspar phytic, Zone of massive dacite derived sediments. Minor irregular carbonate veining, and minor siliceous clasts. CONTACT: Conformable abrupt,	Slightly Chloritised. Slightly Carbonatised.	STRINGER, abundant carbonate as	250		FALLT. 0 60, Pug.

5 cm

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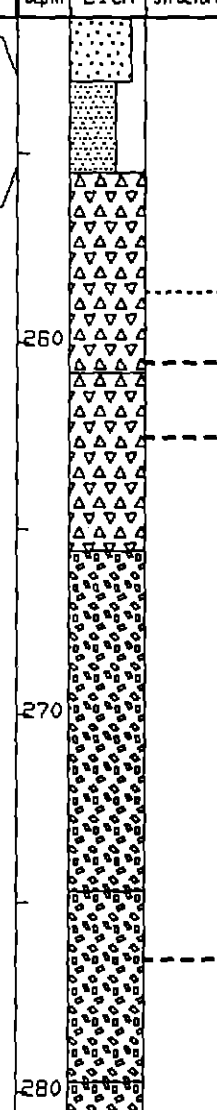
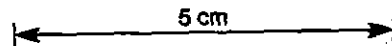
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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures
253.10	255.50	SILTSTONE CONTAINING CLASTS OF DACITE Grey, Cream, Brecciated, Zone of indistinct pale grey siltstone, patches of cream sericite/carbonate altered dacite? and dacite clasts. Mineralisation and alteration indicative of proximity to massive sulphides. CONTACT: Gradational,	Moderately Carbonatised, Slightly Sericitised.	STRONGER, abundant carbonate as stringers, minor pyrite associated with alteration, trace galena associated with alteration. Zone with irregular Mn carbonate alteration, resembles alteration proximal to massive sulphides..			
255.50	260.80	BRECCIA AND DACITE Dark, Green, Zone of disrupted dacite and dacite derived sediments. CONTACT: Faulted, at 65 degrees to LCA. Several bands of pug surround the contact, but the main fault is a significant rock-type change.					
260.80	265.60	BRECCIA AND DACITE Pink, Grey, Very coarse grained, Feldspar phyrlic, Lithic, Zone of angular conglomerate derived from underlying dacite. CONTACT: Conformable abrupt, at 75 degrees to LCA.					FRACURE. Zone of broken core and minor pug bands. FAULT, Pug, Breccia. Significant fault as rock-type change. FAULT, Breccia.
265.60	274.70	DACITE Grey, Pink, Massive, Feldspar phyrlic, Typified by 1 to 2mm pink feldspars. CONTACT: Conformable abrupt,	Slightly Carbonatised.				
274.70	279.70	DACITE Pink, White, Brecciated, Feldspar phyrlic, Zone with abundant irregular milky white amorphous quartz veining grading to breccia cement in part. CONTACT: Gradational,	Moderately Silicified.				FAULT, D 40, Breccia.
279.70	284.00	DACITE Grey, Massive, Feldspar phyrlic, CONTACT:	Slightly Silicified.				



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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures
279.70	284.00	DACITE Grey, Massive, Feldspar phyrlic, CONTACT: Gradational.	Slightly Silicified.		280		
		DACITE Pink, Massive, Detextured pink alteration. Resembles zone at 230m. CONTACT: Gradational.	Moderately Silicified.				
284.20	288.20	DACITE Grey, Green, Massive, Feldspar phyrlic, CONTACT: Conformable abrupt,	Slightly Silicified.				
288.20	290.40	DACITE Dark, Green, Massive, Feldspar phyrlic, Resembles dacite at end of hole. CONTACT: Faulted, at 60 degrees to LCA. Significant fault as rock-types are different.	Slightly Carbonatised.				
290.40	290.80	CONGLOMERATE Yellow, Grey, Coarse grained, Brecciated, Sheared, Lithic, Zone resembles underlying conglomerate. CONTACT: Faulted,	Moderately Sericitised.		290		FALLT, D 60. Pug. Rock-type change.
292.00	311.00	SANDSTONE Grey, Medium grained, Massive, Lithic, Abundant 0.5mm quartz grains and fine lithics. Seems to be unrelated to surrounding lithologies? CONTACT: Conformable abrupt,	Slightly Sericitised. Slightly Carbonatised.			FALLT, D 25,	
		CONGLOMERATE Green, Yellow, Poorly sorted, Polymict, Zone of unusual and distinct conglomerate, resembles Newton Creek spillway conglomerate. Dominantly dacite clasts from 2 to 15cms, in fine-grained sericitic sandstone matrix. Minor siliceous and siltstone clasts present. Mn carbonate altered. CONTACT: Gradational,				FALLT, D 50. Brittle.	
					300	FIRST CLEAVAGE, D 75, Cleavage and axis of elongation of clasts.	

5 cm

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures
311.00	314.40	SILTSTONE CONTAINING LAMINAE OF CHERT INTERBEDDED WITH SANDSTONE Pale, Grey, Fine grained, Coarse grained, Bedded, Zone of cherty siltstone and minor irregular patches of fine-grained sandstone. Zone is silicified and contains minor red brown sphalerite as spots to disseminations and in quartz veinlets. CONTACT: Gradational,	Highly Silicified.	VEIN, very minor sphalerite in veins, very minor galena in veins, very minor pyrite in veins. Sphalerite occurs as red brown coarse grains in irregular veins and fractures, galena tends to occur as selvages on sphalerite. Sphalerite also occurs as 2 by 1mm spots and minor disseminations..	310		
314.40	333.10	DACITE Cream, Augen, Massive, Irregular zone of manganese carbonate altered dacite. Texture is massive with abundant irregular fine carbonate veinlets in part, and augen carbonate in part, and minor clastic texture in part. High in K2O. CONTACT: Conformable abrupt, at 40 degrees to LCA.	Highly Carbonatised, Moderately Sericitised.	VEIN, sphalerite in veins, trace in veinlets, trace galena in veinlets, Zone of trace coarse grained sphalerite in irregular carbonate/quartz veinlets..	320		
333.10	335.60	BRECCIA Buff, Very coarse grained, Poorly sorted, Matrix supported, Polymict, Irregular conglomerate with siliceous siltstone clasts, siliceous volcanic clasts and quartz? phytic cream carbonate clasts, and abundant 3mm red brown sphalerite clasts/spots. Matrix is grey fine grained sandstone and cherty siltstone, carbonate altered in part.	Highly Carbonatised, Moderately Silicified.		330		VEIN, 0.25,
335.60	340.50	CONTACT: Conformable abrupt,	Moderately Carbonatised,				VEIN, Clear mineralized quartz vein with normal 10mm offset white quartz vein.

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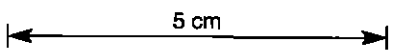
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335.60	340.50	<p>in part. CONTACT: Conformable abrupt,</p> <p>DACITE Cream, Zone of Mn carbonate alteration and abundant fine irregular carbonate veinlets in massive dacite. CONTACT: Gradational,</p>	<p>Moderately Carbonatised. Moderately Sericitised.</p>		340		
340.50	344.40	<p>DACITE Green, Brecciated, Zone of massive dacite in part, autbrecciated adacite in part, and minor lithic clasts in part. CONTACT: Gradational,</p>	<p>Slightly Carbonatised.</p>				
344.40	345.80	<p>DACITE Cream, Massive, Augen, Zone of massive Mn carbonate altered dacite, with fine augen texture in part, and feldspar phyrlic in part. CONTACT: Gradational,</p>	<p>Moderately Carbonatised. Moderately Silicified.</p>				<p>VEIN, Carbonate, Zone of irregular fine manganese carbonate veining.</p>
345.80	364.50	<p>DACITE Green, Grey, Massive, Feldspar phyrlic, Zone of massive dacite, with abundant fine irregular Mn carbonate veinlets. Minor carbonate altered feldspars.</p>	<p>Slightly Carbonatised. Slightly Silicified.</p>		350		
					360		<p>VEIN, trace sphalerite in veins. Two 3mm red brown sphalerite crystals in white carbonate vein..</p>
							<p>VEIN, Carbonate, Zone of irregular fine manganese carbonate veining.</p>



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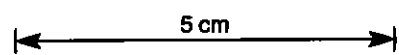
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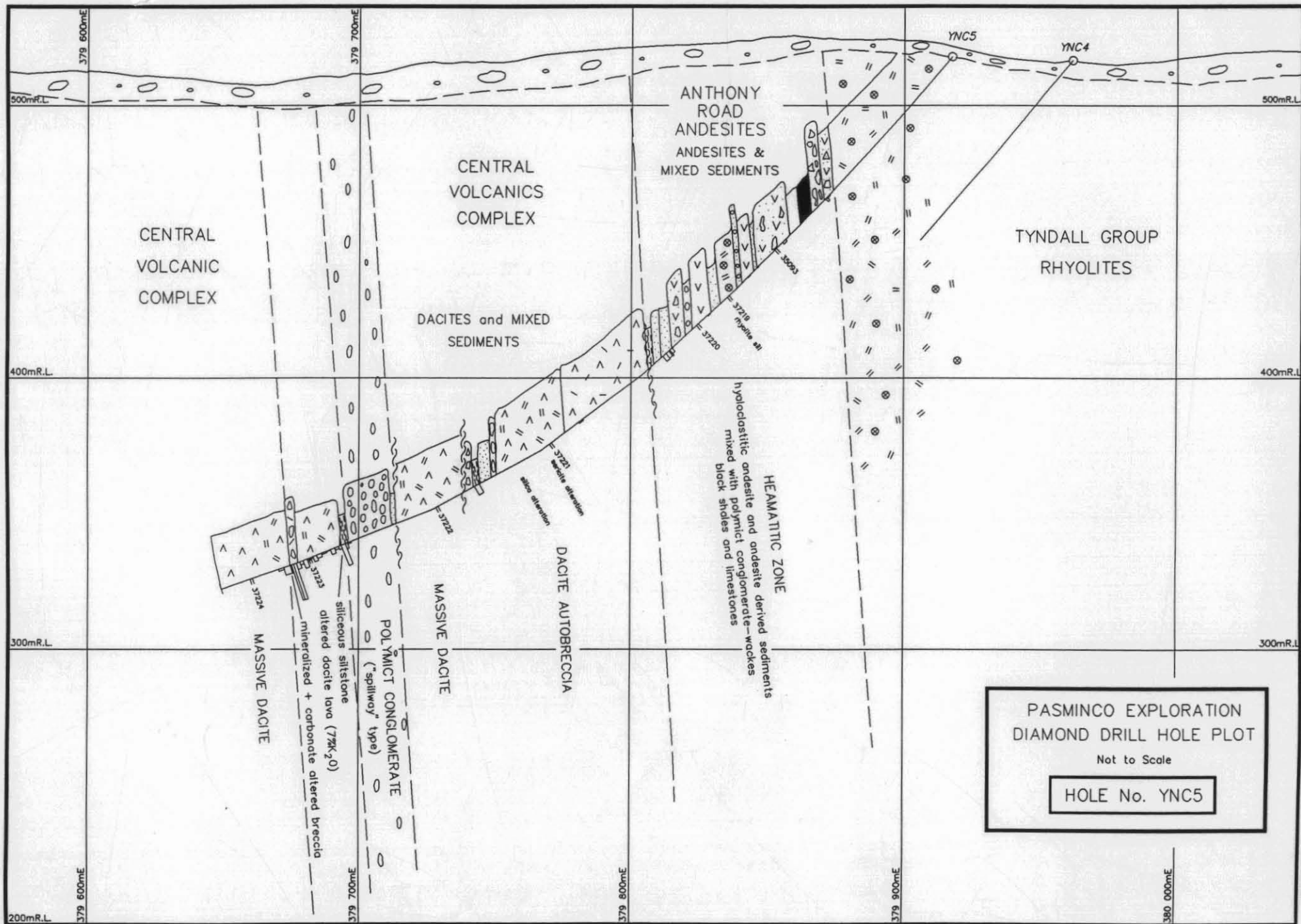
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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	
								irregular fine manganese carbonate veining.
					370			
					380			
					390			



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