


PRSMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. **YNC4**

PROJECT: YOLANDE: NEWTON CREEK

Vertical Scale 1 : 200

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DESCRIPTION		GRAPHIC			CODES					
From	To	LITHOLOGY & ALTERATION	MINERALISATION	Depth	Lithology	Structures	STRUCTURES	LITH	STR	ALT
0.00	13.40	GLACIAL DEPOSITS White, Red, Very coarse grained, White quartz clasts in fine grained red haematitic/siliceous matrix. CONTACT: Missing.		0				S gl		
13.40	39.40	FAULT ZONE (PUG) MIXED WITH FAULT ZONE (PUG) Pale, Green, Sheared, Cleaved, Lithic, Polymict, Highly Kaolinised, This zone contains several zones of pug and rubble interbanded with highly cleaved and sheared rock that resembles underlying clastic. The pug is pale green, the sheared rock is red. CONTACT: Faulted, The contact is missing within zone of pug.	DISSEMINATED, trace pyrite associated with alteration. In fault zone..	20				M fz x fz		kap
								<div style="border: 1px solid black; padding: 2px; display: inline-block;"> FAULT. Pug, Shear. Zone of pale green slurry pug and Imm gravel. </div>		

996126

5 cm

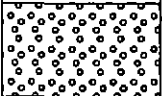
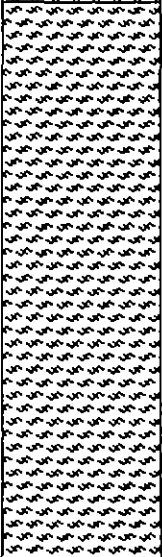
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				30						
39.40	41.90	<p>CONGLOMERATE Pale, Green, Medium grained, Poorly sorted, Matrix supported, Lithic, Slightly Chloritised, Poorly sorted clastic sediment with notable lack of "Tyndall quartz", fine feldspars are ubiquitous and pale green andesite? clasts common. Rock is moderately cleaved and the clasts flattened. Lithoteque (35079).</p>		40		<p>FAULT, Shear, Pug. FIRST CLEAVAGE, D 50. FAULT, Pug. FAULT, D 5. Irregular low angle fault? contact between different lithologies.</p>		S cong	fit fit	chl
41.90	60.60	<p>CONTAINING CLASTS OF ANDESITE Green, Fine grained, Feldspar phytic, Moderately Chloritised. CONTACT: Faulted, at 60 degrees to LCA. Sharp parallel to cleavage, the contact is well preserved in broken zone.</p> <p>RHYOLITE Green, Red, Very coarse grained, Porphyritic, Quartz phytic, Feldspar phytic, Moderately Chloritised, Prominantly quartz (2-5mm) and feldspar (1-3mm pink) phytic. Overall texture massive but this zone has patchy chlorite/sericite alteration. NOTE: Traces of massive patchy haematite at 56.4m CONTACT: Gradational, Decrease in chlorite alteration.</p>		50		<p>FAULT, Brittle. Broken core.</p>		L Lr	fit	chl

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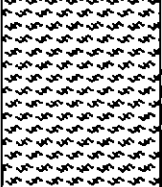
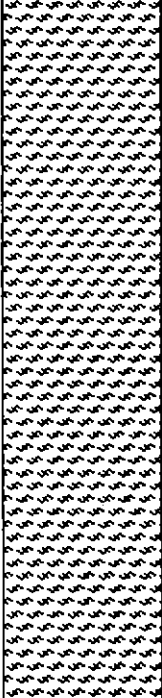
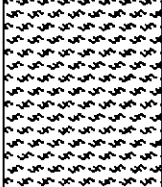
5 cm

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From	To	LITHOLOGY & ALTERATION	MINERALISATION	Depth	Lithology	Structures	STRUCTURES	LITH	STR	ALT
				60			FALLT, Pug, Shear.		fit	
60.60	118.20	RHYOLITE Red, Coarse grained, Porphyritic, Massive, Quartz phyric, Feldspar phyric, Moderately Silicified, Prominant quartz-feldspar phyric with massive overall texture. Note high magnetic susceptibility. Thin section and lithoteque (35080). CONTACT: Gradational, Change in colour.		70				L Lr		sil
				80			FALLT, Pug, Highly milled sandy pug.		fit	

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5 cm

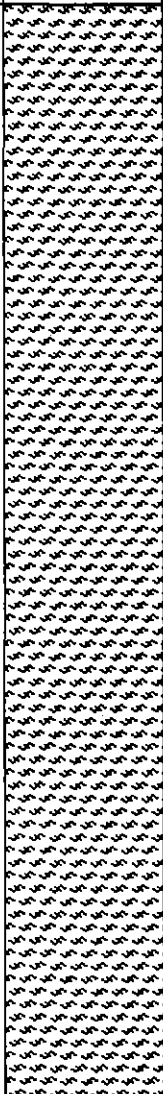

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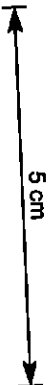
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From	To	LITHOLOGY & ALTERATION	MINERALISATION	Depth	Lithology	Structures	STRUCTURES	LITH	STR	ALT
			VEIN, quartz carbonate in veins.	90						
				100			<div style="border: 1px solid black; padding: 2px;"> VED, Quartz, Carbonate. Chlorite. Minor irregular veining </div>		vein	
				110						

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From	To	LITHOLOGY & ALTERATION	MINERALISATION	Depth	Lithology	Structures	STRUCTURES	LITH	STR	ALT
118.20	121.00	RHYOLITE Grey, Green, Coarse grained, Porphyritic, Massive, Quartz phyric, Feldspar phyric, Moderately Silicified, As above but with trace 5mm mafic/green? phenocrysts towards contact. CONTACT: Conformable mixed, Resembles a conformable mixed contact but could be intrusive?		120			VEIN, D 5, Quartz, Chlorite, Carbonate.	L Lr	vein	sil
121.00	122.40	ANDESITE Dark, Green, Coarse grained, Hyaloclastitic, Cleaved, Slightly Chloritised, Indistinct banding and resemblance to clastic texture suggest some reworking. CONTACT: Conformable abrupt.	DISSEMINATED, minor pyrite disseminated, Minor bands of fg py. and minor pods (10 by 3mm) of py elongate in cleavage..				Fault, D 89, Shear, Sericite.	L Ln	ss	chl
122.40	124.20	SANDSTONE Cream, Green, Fine grained, Medium grained, Poorly sorted, Bedded, Polymict, Lithic, Polymict, Moderately Sericitised. CONTACT: Conformable abrupt.					FIRST CLEAVAGE, D 78, Sericite. Pyritic pods elongate in cleavage.	S sst	ss	ser
124.20	132.40	ANDESITE Green, Hyaloclastitic, Reworked, Slightly Chloritised, Slightly Sericitised. CONTACT: Conformable abrupt.		130			BEDDING, D 89.	L Ln		chl ser
132.40	139.40	SANDSTONE Cream, Fine grained, Medium grained, Bedded, Poorly sorted, Lithic, Highly Sericitised. CONTACT: Conformable mixed.	VEIN, minor pyrite in veins, trace galena in veins, carbonate in veins.				FIRST CLEAVAGE, D 82, Sericite.	S sst	ss	ser
							VEIN, D 85, Carbonate, Pyrite, Galena.		vein	
							Fault, D 90, Displacement 10mm N block E.			
							BROKEN CORE, Sericite.		bk	
139.40	172.10	ANDESITE Dark, Green, Coarse grained, Massive, Moderately Chloritised.		140				L Ln		chl

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5 cm

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From	To	LITHOLOGY & ALTERATION	MINERALISATION	Depth	Lithology	Structures	STRUCTURES	LITH	STR	ALT
		CONTACT: Gradational.								
		ANDESITE Green, Medium grained, Massive, Slightly Chloritised, Possibly reworked andesite. CONTACT: Conformable abrupt.		170						
172.10	177.90	ANDESITE Buff, Green, Hyaloclastitic, Poorly sorted, Moderately Sericitised, From the base of the interval (downhole) coarse 5cm patches of andesite in coarse grained clastic, minor siltstone clasts are present. Interval is sericitised and textures are diffuse. CONTACT: Conformable abrupt.						S sst	chl ser	
		CONGLOMERATE Buff, Grey, Very coarse grained, Poorly sorted, Matrix supported, Polymict, Lithic, Slightly Sericitised, Very poorly sorted with rounded pink silicified dacites (15mm), siltstone clasts in 3mm to fine matrix which is sericitised in part.	VEIN, minor pyrite in veinlets, minor galena in veinlets, quartz carbonate				VEIN, D 40, Quartz, Carbonate.		vein	
177.90	179.80	CONTAINING CLASTS OF DACITE Pink, Fine grained, Massive, Highly Silicified.	DISSEMINATED, minor pyrite disseminated.					L Ln	chl	
179.80	184.00	CONTAINING CLASTS OF SILTSTONE Pale, Grey, Fine grained, Laminated. CONTACT: Conformable abrupt.		180				L Ln	ser	
184.00	186.90	SANDSTONE WITH MINOR SILTSTONE Grey, Medium grained, Fine grained, Massive, Bedded, Lithic, Slightly Sericitised, Massive sandstone diffusely bedded with minor siltstone. Composed of quartz and sericite with minor feldspar. CONTACT: Missing.						S cong	ser	
186.90	193.40	BRECCIA MIXED WITH Cream, Very coarse grained, Matrix supported, Poorly sorted, Polymict, Lithic, Polymict, Slightly Silicified, Slightly Sericitised, Zone with irregular ragged sediment clasts in fine to coarse poorly sorted sediment with fragmental andesite component. Trace 10mm siliceous pyritic clasts. Minor cleavage development. CONTACT: Faulted, at 30 degrees to LCA.		190			BROKEN CORE.	S sst m sst	bk ser	
		ANDESITE Green, Buff, Hyaloclastitic, Slightly Chloritised, Slightly Sericitised, Zone of andesitic clasts in coarse grained sandstone matrix, part of sequence from massive andesite to terrigenous sandstone. CONTACT: Faulted.					BEDDING, D 60.		ss	
193.40	197.20	ANDESITE						S bx x	sil ser	

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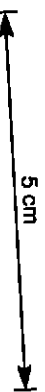
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		CONTACT: Faulted.								
197.20	202.00	ANDESITE Dark, Green, Massive, Slightly Chloritised, Similar to above interval but with more massive texture. CONTACT: Conformable abrupt, at 60 degrees to LCR.					BROKEN CORE, Sericite, Pug.	L Ln	bk	chl ser
202.00	203.80	SANDSTONE INTERBEDDED WITH SILTSTONE Green, Grey, Coarse grained, Poorly sorted, Moderately Sericitised, Slightly Chloritised, Irregular interbanded clastic consisting of reworked andesite and fine grained sericitised siltstone. CONTACT: Conformable abrupt, Alteration change.		200			BROKEN CORE, Sericite, Carbonate, Pug.	L Ln	bk	chl
203.80	207.00	SANDSTONE MIXED WITH BRECCIA AND ANDESITE Pink, Buff, Coarse grained, Very coarse grained, Reworked, Poorly sorted, Polymict, Moderately Silicified, Slightly Sericitised, Similar to above interval but with increased silicification and colour change. The clastic texture is diffuse as is banding (10cm scale) on grain size and andesite component. CONTACT: Gradational, at 55 degrees to LCR.					FIRST CLEAVAGE, D 55.	S sst b silt	sl	ser chl
207.00	209.60	SILTSTONE Pale, Grey, Fine grained, Massive, Moderately Silicified, Slightly Sericitised, Cherty in part, and sericitised in part. Beds approximately 5cms.						S sst x br & Ln		sil ser
209.60	213.00	INTERBEDDED WITH SANDSTONE Buff, Coarse grained, Poorly sorted, Polymict, Lithic, Moderately Sericitised, Clasts include minor pink feldspar phyrlic and grey relict feldspar phyrlic dacite? and minor siliceous trace pyritic clasts. Crystals include 1mm feldspars and 1mm quartz(silicified feldspars?). CONTACT: Conformable abrupt.	VEIN, minor sphalerite in veins, quartz minor galena in veins. Very coarse grained black sphalerite with quartz/carbonate/galena..	210			D 65. Angle of kink band with sense being E block moving normally at shallow angle.	S silt		sil ser
213.00	219.90	ANDESITE Green, Grey, Very coarse grained, Hyaloclastitic, Slightly Chloritised, Slightly Sericitised, Zone of Hyaloclastite grading to sandstones derived mostly from reworked andesite. Angular 1 to 10cm clasts of fragmented andesite in reworked andesite derived clastic with minor pink dacite and minor siliceous clasts. CONTACT: Conformable abrupt.						L Ln		chl ser
219.90	223.00	DACITE MIXED WITH SILTSTONE Buff, Hyaloclastitic, Moderately Sericitised, Irregular zone of sericitised ragged lava resembling dacite in grey siliceous mudstone matrix. Texture is different to andesitic hyaloclastite, also sediment is finer grained and more massive.		220			FALLT, D 40, Breccia.	L Ld x silt		ser
223.00	223.90						BEDDING, D 65, Facing uphole.	S sst		ser
223.90	225.70							L Ld		ser

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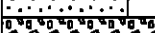



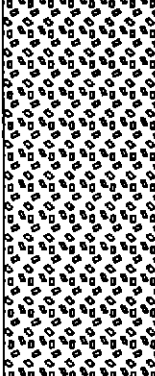

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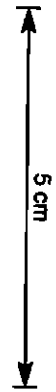
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From		To	DESCRIPTION	MINERALISATION	Depth	GRAPHIC	STRUCTURES	CODES			
			LITHOLOGY & ALTERATION			Lithology	Structures	STRUCTURES	LITH	STR	ALT
223.90	225.70		massive. MIXED WITH SILTSTONE Pale, Grey, Fine grained, Massive, Slightly Carbonatised, Slightly Silicified. CONTACT: Conformable abrupt.					uphole.	L Ld		ser
225.70	230.50		SANDSTONE GRADING TO SILTSTONE Buff, Grey, Medium grained, Fine grained, Bedded, Laminated, Lithic, Slightly Sericitised, Slightly Silicified, Two sets of medium grained lithic sandstone grading to fine grained laminated chert, note trace pyrite in chert. CONTACT: Conformable abrupt.		230				L Ld x silt		ser
230.50	231.50		DACITE Pink, Grey, Massive, Quartz phyrlic, Slightly Sericitised, Massive dacite with abundant 1-3mm pink feldspars which are carbonitised in the more sericitised upper part of interval. CONTACT: Conformable abrupt.						L Ld		ser
231.50	261.30		DACITE MIXED WITH SILTSTONE Grey, Green, Hyaloclastitic, Slightly Sericitised, Uniform zone of 1-10cm angular fragmental dacite in fine grained pale grey silicified siltstone. Minor zones of increased sericitisation and carbonate alteration of feldspars. CONTACT: Conformable abrupt, at 55 degrees to LCR.						L Ld		co
			DACITE Pink, Buff, Massive, Feldspar phyrlic, Moderately Sericitised, Slightly Carbonatised, Altered dacitic lave with trace siltstone component. CONTACT: Gradational, Alteration change.		240						
			DACITE Dark, Grey, Medium grained, Massive, Feldspar phyrlic, Slightly Carbonatised, Massive homogenous unit, frequent fine white and cream carbonate veinlets, feldspars altered carbonitised. Diffuse zonal alteration in part CONTACT: Gradational.		250						

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				260							
261.30	263.90	DACITE Dark, Grey, Medium grained, Hyaloclastitic, Slightly Carbonatised, Irregular breccia texture cemented with white carbonate. Resembles hyaloclastite in part but could be overprinted with tectonic breccia?	VEIN, carbonate Zone of irregular white carbonate veining.						L Ld	co	
263.90	272.00	DACITE Pink, Grey, Massive, Feldspar phyrlic, Moderately Silicified, Zone is typified by increased silicification and pink colouration banded with grey less silicified dacites.		270					L Ld	sil	
				280							

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5 cm