

PASMINGO EXPLORATION DIAMOND DRILL HOLE LOG

Hole ID
YNC10

DRILLING		OBJECTIVE	COLLAR SURVEY (AMG)			
Location	NEWTON CREEK	To test for mineralization in the Newton Creek Spillway conglomerate - Principal Target horizon 1800m north of the spillway. The hole is targeted 50m south and 150m below a zone of promising alteration/mineralization intersected in DDH YNC5.	AMG mN	5360116.0	Bearing	248.0
Project	YOLANDE		AMG mE	379949.0	Dip	-60.0
Prospect	NEWTON CREEK		mN		Hole Length	529.7
Design By	P.M.Quayle		mE		OH Survey Type	Single shot East
Logged By	P.M.Quayle		RL	514.5		
Re-logged						
Commenced	23rd August 1994	RESULT	Although favourable signs of mineralization and alteration were intersected, no focus is apparent.			
Completed	30th September 1994					
Drilled by	East Coast Drilling					
Drill Rig	Longyear 3B					

SIGNIFICANT CORE LOSS			POOR GROUND CONDITION ZONES			
From	To	Loss	From	To	Condition	
HOLE SIZE			HOLE CONDITIONS AFTER COMPLETION			
From	To	Size	Collar			
0	15	HQ	Steel Casing			
15	529.7	NQ	PVC Casing	Ø - 529.7M		
			Ground Water	NIL		
			Wedge	-		
			Drill Pad	Sump filled in and site roughly leveled.		

DOWNHOLE SURVEY (AMG)		
Depth	Bearing	Dip
0.0	-60.00	248.00
30.0	-58.00	246.50
50.0	-58.00	246.00
100.0	-57.50	250.00
140.0	-55.00	248.00
180.0	-53.00	246.00
220.0	-53.00	246.00
260.0	-51.00	246.00
300.0	-49.00	246.00
340.0	-47.50	246.50
380.0	-46.00	246.60
420.0	-45.50	247.00
460.0	-45.00	247.00
500.0	-44.50	247.00

SIGNIFICANT INTERSECTIONS									
From	To	Int	Cu	Pb	Zn	Ag	Au	Comments	
428.7	433.6	4.9	33	1098	2355	39	.02	1595ppm Ba 1334ppm Mn	

782196



PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. **YNC10**

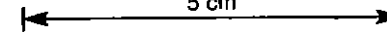
PROJECT: YOLANDE

Vertical Scale 1 : 150

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DESCRIPTION				GRAPHIC				
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
0.00	4.80	GLACIAL DEPOSITS Red, Coarse grained, Haematitic quartzite glacials. CONTACT: Missing,			0			
4.80	30.40	RHYOLITE Red, Porphyritic, Massive, Quartz phyric, Feldspar phyric, Magnetite, Typical red prominently quartz phyric Tyndall rhyolite.	Slightly Chloritised, Slightly Sericitised. Minor ragged 5 to 10cm chloritic patches, and minor sericitised pumiceous patches.		10 20			

5 cm





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PASMINCO EXPLORATION
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DESCRIPTION				GRAPHIC			STRUCTURES	
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith		
30.40	37.10	RHYOLITE Red, Flow banded, Porphyritic, Quartz phynic, Feldspar phynic, Brecciated rhyolite over 10cms with siliceous infilling.				30		
								PRIMARY FABRIC, A 40, Flow banding in lavas.
37.10	41.10	BRECCIA Pale, Green, Poorly sorted, Matrix supported, Lithic, Reworked altered mafic clasts in mafic derived matrix. Breccia zone with quartz veining.	Moderately Sericitised, Slightly Carbonatised. Moderate Mn? sericite/carbonate alteration possibly ponded below rhyolite.	DISSEMINATED, minor pyrite disseminated. Pyrite disseminated throughout and as fine clasts..		40		
41.10	41.50	BRECCIA Irregular quartz veining superimposed on siliceous zone.						
41.50	50.50	BRECCIA Yellow, Grey, Very coarse grained, Cleaved,						

5 cm

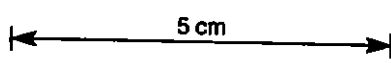
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PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 150

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PROJECT: YOLANDE

DESCRIPTION				GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith.	Structures
41.50	50.50	<p>SILICEOUS ZONE</p> <p>BRECCIA Yellow, Grey, Very coarse grained, Cleaved, Feldspar phytic, Appears to be composed of dacite? derived detritus with minor patchy fine grained siliceous material becoming polymict and coarse grained towards base. CONTACT: Conformable abrupt,</p>					
50.50	63.10	<p>BLACK SHALE Grey to black shale with bands and patches of pale grey fine grained siltstone. CONTACT: Conformable abrupt, at 65 degrees to LCA.</p> <p>INTERBEDDED WITH GREYWACKE Coarse grained, Upwards fining sequence, Poorly sorted, Polymict, Clast types include siliceous altered sediments and volcanics and minor massive pyrite.</p>	<p>Slightly Sericitised, Slightly Carbonatised, Moderate sericite and carbonate alteration of sandstone bands and clasts in black slates.</p>	<p>CLAST, minor pyrite trace sphalerite</p> <p>DISSEMINATED, minor pyrite associated with alteration,</p>		<p>FIRST CLEAVAGE, R 45.</p> <p>PRIMARY FABRIC, R 45. Lamination in shale.</p>	
63.10	70.00	SANDSTONE Yellow, Grey, Coarse grained, Massive, Blocky					



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PASMINCO EXPLORATION

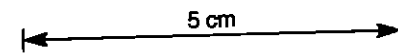
HOLE No. **YNC 10**

DIAMOND DRILL CORE LOG

PROJECT: YOLANDE

Vertical Scale 1 : 150

DESCRIPTION				GRAPHIC			STRUCTURES
From	To	LITHOLOGY	ALTERATION	MINERALLISATION	Depth	Lith	
63.10	70.00	SANDSTONE Yellow, Grey, Coarse grained, Massive, Poorly sorted, Unusually textured sandstone, very carbonate rich in patches resembling clasts giving a pseudoclastic appearance. CONTACT: Conformable abrupt, at 60 degrees to LCA.	Minor patchy leaching of carbonate? matrix.				
70.00	71.10	BLACK SHALE Irregular texture, a sheared mixing with carbonate sandstone.	Moderately Carbonatised. Modified limestone.	DISSEMINATED, minor pyrite disseminated, minor pyrite in veinlets.	70		
71.10	72.60	LIMESTONE White, Pink, Irregular texture, blotchy carbonate augen with pink haematitic cores and white rims, massive in part with stylolites, and with carbonate sandstone matrix in part. CONTACT: Conformable mixed.					
72.60	95.00	SANDSTONE Yellow, Grey, Coarse grained, Massive, Poorly sorted, Unusually textured carbonate rich sandstone with pseudoclastic texture. CONTACT: Gradational,	Slightly Carbonatised. Minor patchy alteration of irregular sandstone patches.		80		



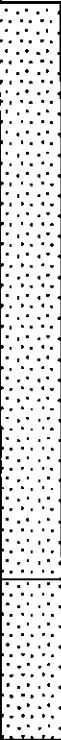


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PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
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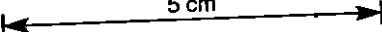
HOLE No. **YNC10**

PROJECT: VOLANDE

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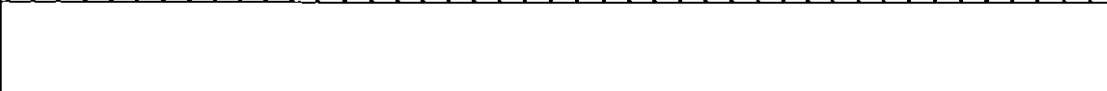
DESCRIPTION				GRAPHIC			STRUCTURES	
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith		Structures
95.00	98.20	SANDSTONE INTERBEDDED WITH SILTSTONE Coarse grained sandstone interbedded with fine grained siltstone on a cm scale, structurally disrupted and mixed.	Highly Carbonatised, Moderately Chloritised, Carbonate veinlets and altered matrix, chloritic matrix and abundant haematite spots.	DISSEMINATED, minor pyrite disseminated, minor haematite disseminated, Pyrite associated with sericitization, haematite with carbonate/chlorite (resembles Howards jasper)..	90			
98.20	104.00	FAULT ZONE (PUG) Zone of massive white quartz, green chlorite, with pale grey saccharoidal carbonate, and pink/red haematite alteration in part. This mixed with both sandstone and rhyolite.	Highly Chloritised, Moderately Carbonatised, Moderately Silicified, Massive quartz chlorite carbonate veining superimposed on zone of carbonate/chlorite alteration.	DISSEMINATED, minor pyrite disseminated, minor haematite disseminated, trace chalcopyrite disseminated, Associated with vein massive chlorite/quartz, and carbonate and possibly barite..	100		VEIN, Quartz, Chlorite, Carbonate. Irregular veining at contact with rhyolite sill.	
104.00	153.00	RHYOLITE Red, Coarse grained, Massive, Porphyritic, Quartz phytic, Feldspar phytic, Typical Tyndall rhyolite prominently quartz phytic and haematitic.	Haematitic zone.					

5 cm

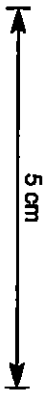


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PRSMINCO EXPLORATION
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DESCRIPTION		GRAPHIC		STRUCTURES			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures
			Hematitic zone.		130		
					140		

5 cm



PRSMINCO EXPLORATION
DIAMOND DRILL CORE LOG

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DESCRIPTION				GRAPHIC				
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
153.00	161.20	RHYOLITE Grey, Green, Coarse grained, Massive, Porphyritic, Quartz phytic, Feldspar phytic,			150			
161.20	229.00	RHYOLITE Red, Grey, Coarse grained, Massive, Porphyritic, Quartz phytic, Feldspar phytic, Typical Tyndall rhyolite, prominently quartz phytic, feldspar phytic and haematitic. CONTACT: Conformable mixed, Irregular contact at low angle to core axis but with apparent peperitic contact?	Haematitic zone.		160			

5 cm

782204

782205

HOLE No. YNC10

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DIAMOND DRILL CORE LOG
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PROJECT: YOLANDE

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DESCRIPTION		GRAPHIC	
From	To	Depth	Lith Structures
		170	
		180	

5 cm

HOLE No. **YNC10**

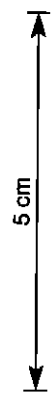
PRSMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 150

PROJECT: YOLANDE

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		DESCRIPTION				GRAPHIC	
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures
					190		
					200		
					210		

BROKEN CORE. Chlorite, Sericite, Irregular zone of brecciation and fracturing.



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PRSMINCO EXPLORATION
 DIAMOND DRILL CORE LOG
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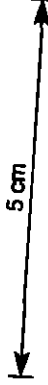
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DESCRIPTION		ALTERATION	MINERALISATION	GRAPHIC	
From	To			Lith	Structures
				Depth	Structures
				210	
				220	
				230	
229.00	235.00				

Moderately Sericitised,
 Moderately Carbonatized,
 With Mn stain.

BRECCIA CONTAINING CLASTS OF DACITE Yellow, Green, Coarse grained, Poorly sorted, Reworked, poorly sorted dacitic to andesitic detritus, sericite and silics altered and manganese stained, Clasts up to 3cms andesitic in appearance are either dark green chloritic or cream to



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DESCRIPTION				GRAPHIC				
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
		manganese stained. Clasts up to 3cms andesitic in appearance are either dark green chloritic or cream to pink silicified, they are feldspar phenocryst poor and leucoxene rich. CONTACT: Gradational.						
236.00	246.30	BRECCIA CONTAINING CLASTS OF DACITE Green. Coarse grained, Poorly sorted, Reworked, Reworked dacitic to andesitic detritus, more massive and less altered than previous interval. Clasts fine to 2cm grey green chloritic to grey silicified in fine grained yellow-green grey matrix with minor sericite alteration in part and minor carbonate alteration in part. Note patch of dense red siliceous quartz phytic volcanic, possibly a thin irregular rhyolite intrusive. CONTACT: Gradational.		DISSEMINATED, minor pyrite disseminated. Minor 2mm cubes of pyrite associated with chlorite and carbonate and trace haematite. Note silicification emanating from fracture..				
		BRECCIA Yellow, Lithology similar to previous interval, but sericitised possibly due to intrusion. Intrusive contact, sharp with carbonate veining at contact.			240			FIRST CLEAVAGE, R 45.
246.30	247.74	RHYOLITE Grey, Porphyritic, Quartz phytic, Feldspar phytic, Abundant prominent 2 to 4 mm rounded quartz phenocrysts in a sericitized slightly sheared matrix. Note band of fine quartz phenocrysts towards base of interval. Sharp irregular.	Moderately Sericitised. Slightly Carbonatised. Slightly Chloritised.					
247.70	249.10	BRECCIA MIXED WITH SILTSTONE Cream, Grey, Poorly sorted, Reworked dacitic to andesitic detritus, grading to fine sediment with minor banding. CONTACT: Gradational.		DISSEMINATED, minor pyrite associated with alteration. Mineralization emanating from fracture/breccia. associated with sericitization, vein carbonate breccia infilling. Note presence of 1.4m band of quartz phytic rhyolite..	250			
249.10	251.90							
251.90	256.00							

5 cm

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DESCRIPTION				GRAPHIC			STRUCTURES
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures
251.90	256.00	CONTACT: Gradational, BRECCIA Green, Grey, Reworked, Poorly sorted, Reworked andesitic detritus dark green feldspar phenocryst poor. Texture either tending to massive with carbonate alteration or cleaved with sericite alteration. CONTACT: Gradational.		presence of 1-4mm band of quartz phenocryst rhyolite..			
256.00	262.00	BRECCIA Grey, Green, Poorly sorted, Reworked, Reworked poorly sorted andesitic detritus grading to 20cm well sorted fine grained massive band. CONTACT: Gradational,			260		
262.00	277.50	BRECCIA Grey, Green, Poorly sorted, Reworked, Reworked andesitic detritus. Patches of minor silica alteration, and patches of minor carbonate alteration affect textures. Minor irregular yellow-pink carbonate veining with minor pyrite. CONTACT: Gradational,			270		

5 cm


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DIAMOND DRILL CORE LOG
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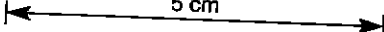
HOLE No. **YNC 10**

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DESCRIPTION				GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures
							
							FIRST CLEAVAGE. D 85.
277.50	282.00	ALTERATION ZONE Yellow, Poorly sorted, Reworked, Carbonate alteration zone, massive in part, and with textures resembling reworked andesitic/dacitic debris in part. Minor silicified clasts or pseudo clasts, patches with abundant disseminated pyrite, and sericitic sheared texture in part. CONTACT: Gradational,	Highly Quartz-sericite-pyrite. Mn staining.	DISSEMINATED, minor pyrite associated with alteration, trace galena associated with alteration, trace sphalerite associated with alteration. Associated with sericite/carbonate alteration..	280		
282.00	291.10	ALTERATION ZONE Cream, Massive, Comprises 1 to 3mm carbonate granules wrapped by sericite, the relative abundance of carbonate to sericite determines whether the texture is massive or cleaved. Distinct Mn staining. Trace disseminated pyrite and galena in part throughout. (Possibly altered dacite sill). CONTACT: Gradational,		DISSEMINATED, trace pyrite associated with alteration, trace galena associated with alteration, trace sphalerite associated with alteration. Associated with sericite/carbonate alteration..	290		
291.10	298.60	ALTERATION ZONE Cream, Zone comprises carbonate sericite alteration similar to previous interval but with pseudo clastic texture with the pseudo-clasts being islands of lesser altered dacite? Pseudo-clasts are 1 to 40mm are angular and appear to be "in place". The clasts appear to be feldspar(altered to carbonate) phyrict. CONTACT: Faulted, No significant lithological change over					FIRST CLEAVAGE. A 42.

5 cm



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DESCRIPTION				GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures
		be feldspar(altered to carbonate) phytic. CONTACT: Faulted, No significant lithological change over the contact.					
298.60	306.20	ALTERATION ZONE Cream, Zone comprises carbonate sericite alteration similar to previous interval, but with indistinct banding suggesting reworking. Note minor irregular very fine distinctly cream coloured carbonate Pb+Zn veining. CONTACT: Gradational.			300		FALLT, R 40, Brittle. Parallel to cleavage.
306.20	314.60	ALTERATION ZONE GRADING TO BRECCIA Cream, Green, Zone grades from carbonate alteration to reworked hyaloclastic dacite debris from 310m. CONTACT: Conformable abrupt,					
		BRECCIA GRADING TO SANDSTONE Grey, Green, Coarse grained, Poorly sorted, Upwards fining sequence, Polymict, Lithic, Resembles lower spillway conglomerate. Clasts from 20mm comprise mafics, altered mafics, white and pink fine grained siliceous, pyritic and siltstone types. Band grades to massive coarse grained green mafic? derived sandstone. CONTACT: Conformable abrupt,		DISSEMINATED, 1% pyrite disseminated. Throughout sandstone layer..	310		
314.60	315.60						

5 cm

782211

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

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DESCRIPTION				GRAPHIC			STRUCTURES
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures
314.60	315.60	sandstone. CONTACT: Conformable abrupt,				▲▲▲▲	
315.60	318.70	SANDSTONE CONTAINING LAMINAE OF SILTSTONE Upwards fining sequence, Bedded, Zone of upwards fining beds upto 30mm thick grading from fine sandstone to siltstone, dark green in colour. CONTACT: Conformable abrupt.				▲▲▲▲	FIRST CLEAVAGE, A 40. FIRST CLEAVAGE, D 90.
318.70	322.70	DACITE Grey, Green, Hyaloclastitic, Irregular patches of feldspar phyrlic dacite in dacite derived matrix. CONTACT: Conformable abrupt,				▲▲▲▲	
		BRECCIA GRADING TO SANDSTONE Grey, Green, Coarse grained, Upwards fining sequence, Polymict, Lithic, Clasts from 3cms predominantly feldspar phyrlic dacite, altered dacite, and fine pink siliceous type. Grades into massive grey green sandstone, and to shale. CONTACT: Faulted, at 30 degrees to LCA. Carbonate pyrite vein 10mm.		DISSEMINATED, minor pyrite disseminated. Throughout sandstone layer..	320	▲▲▲▲	
			Moderately Sericitised, Slightly Chloritised, Slightly Oxidised.	DISSEMINATED, minor pyrite associated with alteration, Associated with irregular white carbonate veinlets..		▲▲▲▲	PRIMARY FABRIC, A 45.
322.70	338.20	DACITE Yellow, Green, Hyaloclastitic, Feldspar phyrlic, Zone of green-grey feldspar phyrlic clasts upto 12cms in a matrix composed of yellow sericitized dacitic debris. Note zone of pink (haematite?) altered dacite clasts in pale green chloritic? matrix from 325.7 to 331m. CONTACT: Conformable abrupt,				▲▲▲▲	
			Moderately Carbonatised, Moderately Sericitised.			▲▲▲▲	
					330	▲▲▲▲	

5 cm

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HOLE No. **YNC10**

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DESCRIPTION		GRAPHIC					
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth Lith Structures STRUCTURES		
338.20	339.80	BLACK SHALE Grey black shale with fine laminae of carbonate rich siltstone and abundant 1mm bedding parallel veins, and minor irregular carbonate sphalerite pyrite veinlets. Minor 10cm coarse grained upwards fining bed. CONTACT: Conformable abrupt,	Moderately Carbonatised, Moderately Sericitised,	DISSEMINATED, minor pyrite disseminated, very minor sphalerite in veinlets. Very fine disseminated pyrite throughout black shale, and trace red sphalerite associated with carbonate veinlets..	340	PRIMARY FABRIC, D 90.	
339.80	343.40	BRECCIA CONTAINING CLASTS OF DACITE Yellow, Green, Coarse grained, Hyaloclastitic, Polymict, Hyaloclastite in part, and polymict breccia in part irregular texture. Clasts include fine grained siliceous, and pale grey siltstone. Matrix is sericite carbonate altered. Note bands of minor disseminated pyrite in carbonate rich layers. CONTACT: Conformable abrupt,		DISSEMINATED, very minor pyrite associated with alteration, very minor sphalerite associated with alteration. Sphalerite is associated with the boundary between sericitised dacite? clasts? and in carbonate altered matrix..			BEDDING, A 55.
343.40	344.40	BLACK SHALE Pale grey siltstone grading to black shale. Minor disseminated pyrite throughout.		DISSEMINATED, very minor sphalerite associated with alteration, fine sphalerite replacing matrix in chloritic dacite? clast, and as fine disseminations in irregular cherty bands..			
344.40	351.40	DACITE Buff, Green, Hyaloclastitic, Dacite from dark green with carbonate altered feldspars, to buff carbonate/sericite altered rock with minor irregular bands and patches of cryptocrystalline grey silica, possibly cherty mudstone baked by lava? or siliceous deposit infilling fractures? Also cut by irregular fine buff-yellow carbonate veining. CONTACT: Gradational,	Highly Carbonatised, Moderately Sericitised, Correlates with altered zone in YNCS. Test for K20.	VEDN, 0.1% sphalerite in veinlets, very minor pyrite disseminated, trace galena disseminated, Red sphalerite in irregular carbonate veinlets, and minor sphalerite, pyrite and galena disseminated close to veinlets..	350	FAULT, Cleavage parallel fault with 5cm displacement west side up.	
351.40	364.00	DACITE ALTERATION ZONE Buff, Massive, Massive carbonate altered dacite (similar to altered zone in YNCS). Abundant irregular fine yellow carbonate veinlets with red sphalerite, and galena. Minor massive white quartz veins. CONTACT: Gradational,		VEDN, 0.2% sphalerite in veinlets, very minor pyrite disseminated, very minor galena disseminated, Sphalerite associated with irregular carbonate veinlets, and irregular cherty veinlets in part. Galena and pyrite occur in			

5 cm



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DESCRIPTION					GRAPHIC			STRUCTURES
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
				veinlets, and irregular cherty veinlets in part. Galena and pyrite occur in veinlets, and disseminated around veinlets.	360			
				DISSEMINATED, trace sphalerite in veinlets, trace sphalerite associated with alteration. Trace sphalerite, galena and pyrite throughout, in veinlets or disseminated in more altered bands, associated with chlorite in part..				
364.00	384.40	DACITE ALTERATION ZONE Grey, Buff, Massive, Similar to above interval but with less intense alteration. Minor massive white quartz veins in part and minor fine irregular carbonate veins in part. CONTACT: Gradational,	Moderately Carbonatised. Moderately Sericitised.					
					370			
								VEIN, Quartz, Zone of white quartz veining and breccia infill.

5 cm

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DESCRIPTION					GRAPHIC			STRUCTURES
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					380			
384.40	394.70	DACITE ALTERATION ZONE Buff, Zone of intense carbonate alteration and abundant white quartz and yellow carbonate breccia? infilling. A complex paragenesis of veining. Carbonate is coalescing radial spots in part. Note trace pale pink carbonate. CONTACT: Gradational,	Highly Carbonatised, Moderately Sericitised, Similar to altered zone in YNC5.	DISSEMINATED, minor sphalerite associated with alteration, trace galena associated with alteration, trace pyrite associated with alteration, Zone with intense carbonate alteration, and several episodes of veining and breccia infilling with clear and white quartz, buff carbonate and chlorite.. VEIN, very minor sphalerite in veinlets, In low angle irregular carbonate veinlets..	390			
394.70	426.80	DACITE Grey, Massive, Feldspar phytic, Similar to above intervals but with less intense alteration. CONTACT: Gradational,	Moderately Carbonatised, Slightly Sericitised, Similar to previous interval but less intense.					VEIN, Quartz, Carbonate, Chlorite. Zone of low angle irregular carbonate veinlets with superimposed white quartz, yellow carbonate and minor chlorite veining and breccia infilling.

5 cm

782215

PRSMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 150

HOLE No. **YNC10**

PROJECT: YOLANDE

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DESCRIPTION				GRAPHIC			STRUCTURES
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	
			Slightly Carbonatised, Slightly Sericitised, Similar to previous interval but less intense.		400		VEIN, Quartz, Carbonate. Zone of white quartz and yellow carbonate veining.
				VEIN, very minor sphalerite in veinlets. Coarse grained dark sphalerite in quartz chlorite veins..	410		FAULT, Minor displacement on fine irregular veinlets sub-vertical and at low angle to core indicates north block to the east sense of movement.
			Moderately Carbonatised, Moderately Sericitised, Similar to previous interval but more intense, note feldspars carbonatized.	DISSEMINATED, trace pyrite disseminated, trace sphalerite disseminated, trace galena disseminated. Trace very fine disseminated sulphides throughout..	420		VEIN, Quartz, Chlorite. Minor sub-horizontal veins with perpendicular crystal growth.
							VEIN, Quartz, Chlorite. Minor sub-horizontal veins with perpendicular crystal growth.

5 cm

182216

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. **YNC 10**

PROJECT: YOLANDE

Vertical Scale 1 : 150

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DESCRIPTION				GRAPHIC			STRUCTURES	
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	
					420			
								VEIN, Quartz. Sub-horizontal massive white quartz vein.
426.80	436.50	DACITE ALTERATION ZONE Buff, Massive, Similar to above intervals but with more intense alteration, and apparent decrease in feldspars.		DISSEMINATED, minor sphalerite disseminated, minor galena disseminated, Disseminated sulphides throughout, associated with pale grey cryptocrystalline silica in part? possibly stringer bands..	430			FAULT, Hairline fracture, sub vertical trending north-south, displacement direction not determined.
		DACITE Buff, Grey, Hyaloclastitic, Feldspar phytic, Similar to above intervals but with fragmental texture, jigsaw fit in part clasts upto 30mm, in dacite derived matrix. CONTACT: Conformable abrupt,						
436.50	440.30	DACITE MIXED WITH SILTSTONE Grey, Green, Coarse grained, Hyaloclastitic, Dacite derived breccia mixed with bands or incorporated patches of shale to siltstone. CONTACT: Conformable abrupt,						FAULT, Sub-vertical fault with undetermined movement direction.
		DACITE BRECCIA Grey, Green, Very coarse grained, Dacite derived breccia. CONTACT: Conformable abrupt,					FAULT, Brittle, Sub-vertical fault trending NNW-SSE	
440.30	441.70	TURBIDITE Pale, Grey, Fine grained, Upwards fining sequence, Comprises several 10 to 20mm upwards fining bands from fine grained sandstone to siltstone. Distinct appearance in contrast to lava deris.			440		BEDDING, 0 75, Oriented on	

5 cm

782217

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 150

HOLE No. **YNC 10**

PROJECT: YOLANDE

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DESCRIPTION				GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures
440.30	441.70	bands from fine grained sandstone to siltstone. Distinct appearance in contrast to lava debris.	Slightly Carbonatised. Slightly Sericitised. Minor pervasive carbonate sericite alteration throughout, also minor bands with altered mafic clasts.		450		Bedding, D 75, Oriented on cleavage.
441.70	444.20	Appears to be unconformable, possibly deposited in a hollow in lava debris. DACITE Grey, Green, Very coarse grained, Hyaloclastitic, Dacite derived breccia. CONTACT: Conformable abrupt,					Bedding, D 80, Younging uphole, Oriented on cleavage.
444.68	444.98	TURBIDITE Pale, Grey, Fine grained, Upwards fining sequence, Several fine upwards fining bands. CONTACT: Conformable mixed,					FAULT, D 75, Brittle, Pug.
445.98	449.78	DACITE Grey, Green, Very coarse grained, Hyaloclastitic, Zone of mixed dacite and pumiceous derived sandstones grading to fine grained tops. CONTACT: Conformable abrupt,					Bedding, D 80, Good bedding.
447.70	448.30	BASIC VOLCANICLASTIC Pale, Green, Zone of 5 to 15mm angular monomict pale green finely vesicular mafics in a fine pumiceous? matrix.					FIRST CLEAVAGE, D 80.
448.30	449.40	SILTSTONE INTERBEDDED WITH SANDSTONE Zone of cherty siltstones interbedded with shaley sandstones.					FAULT, Shear. Sub-vertical trending northerly with east side up.
		INTERMEDIATE VOLCANICLASTIC Grey, Green, Zone of 10 30mm dacite clasts in dacite derived matrix.					
451.40	452.80	BASIC VOLCANICLASTIC Pale, Green, Coarse grained, Distinct monomict clastic with 5 to 10mm ragged flattened pale green altered (0.5mm) vesicular mafic clasts in matrix of fine pumiceous? detritus grading to fine grained sandstone tops.					
452.80	453.80	CONTACT: Faulted,					
453.80	454.90	DEFORMED ZONE Pale, Fine grained, Brecciated, Zone of brecciated cherty siltstone and sericitized sandstone. CONTACT: Faulted,					
456.50	458.10	SANDSTONE Grey, Medium grained, Pumiceous, Zone of massive pumiceous sandstone. CONTACT: Conformable abrupt,					
458.10	459.40	SILTSTONE INTERBEDDED WITH SANDSTONE Pale, Grey, Fine grained, Laminated, Zone of interbedded laminated pale grey cherty and dark grey shaley siltstones to sandstones.					
459.40	463.70	INTERMEDIATE VOLCANICLASTIC Green, Grey, Zone of dacite derived detritus.					
		SILTSTONE INTERBEDDED WITH SANDSTONE Pale, Grey, Fine grained, Zone of pale grey fine grained cherty siltstones with prominent slump? folded texture.					

5 cm

782218

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. **YNC10**

PROJECT: YOLANDE

Vertical Scale 1 : 150

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DESCRIPTION					GRAPHIC			STRUCTURES
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	
		grained, zone of pale grey fine grained cherty siltstones with prominent slump? folded texture.						<p>FOLD, Zone with abundant evidence of folding, generally associated with slip planes and disruptions possibly indicating drag folding or slumping disruption. If drag folding then movement direction is east side up sub-vertical trending northerly.</p> <p>BEDDING, A 50, Grading uphole.</p>
463.70	464.50	DACITE Grey, Green, Hyaloclastitic, Zone of abundant ragged 5 to 50 mm jigsaw fit dacite clasts in a dacite derived matrix with hyaloclastic contacts, and minor altered siliceous volcanic clasts. Resembles "upper spillway conglomerate".						
464.50	465.80	CONTACT: Conformable mixed,						
465.80	467.30	SILTSTONE INTERBEDDED WITH SANDSTONE Interbedded laminated siltstone and sandstone with distinct slump? folding texture.						
467.30	470.60	SILTSTONE INTERBEDDED WITH SANDSTONE Upwards fining sequence, Zone of irregular 10 to 20cm interbeds of pale cherty and dark shaley siltstone and sandstones finely laminated in part and with minor 10 to 20mm clasts in part.						
		SANDSTONE Green, Grey, Massive to upwards fining sandstone comprising dacite derived and pumiceous debris.		MASSIVE, abundant pyrite associated with alteration, semi-massive pyrite, fine to recrystalline coarse grained, with trace sphalerite/chlorite replacement associated with carbonate alteration..	470			
470.60	472.80	CONTACT: Conformable abrupt,						
		BASIC VOLCANICLASTIC Green, Grey, Coarse grained, Distinct monomict breccia composed of 1 to 20mm ragged and flattened pale green (0.5mm) vesicular mafic clasts in darker grey-green matrix composed of mixed mafic and pumiceous debris. Pumice and mafics are sericitized, and Mn staining is pervasive throughout.		CLAST, very minor pyrite disseminated, Minor 10 to 30mm clast-like patches of massive pyrite, with grainsize from very fine to coarse recrystalline..				
472.80	479.80	CONTACT: Conformable abrupt,						
		BRECCIA Grey, Green, Medium grained, Coarse grained, Lithic, Zone of irregular dacite/andesite derived sandstone with scattered 10mm pale altered vesicular mafic clasts. Vesicles are 0.5mm and clasts are not flattened.		DISSEMINATED, minor pyrite disseminated, Ubiquitous fine grained pyrite disseminated throughout the matrix, with minor fine pyritic bedding parallel laminae..				
		CONTACT: Conformable abrupt,						
		BRECCIA Green, Grey, Coarse grained, Poorly sorted, Polymict, Zone of several 2m massive polymict breccias with 10 to 20cm graded tops. Clasts predominantly siliceous sediments? vesicular mafics, and siliceous volcanics and pumiceous clasts. Abundant disseminated pyrite throughout. Well developed cleavage picked out by sericite. Mn staining throughout. Resembles "lower spillway wacke".		DISSEMINATED, very minor sphalerite disseminated, very minor galena disseminated, trace chalcopryrite disseminated, Patchy pods of red sphalerite 1 to 10mm often associated with chlorite and carbonate alteration in siliceous bands. Galena in finer grained often surrounding sphalerite, and trace chalcopryrite is selvage to sulphides..	480			
479.80	480.40							
480.40	483.90	CONTACT: Conformable abrupt,						
		BRECCIA Green, Grey, Coarse grained, Cleaved, Lithic, Upwards fining breccia composed predominantly of flattened pale altered vesicular 3 to 10mm mafic clasts.						

5 cm

782219

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 150

HOLE No. **YNC10**

PROJECT: YOLANDE

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DESCRIPTION				GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures
483.90	502.00	<p>Upwards fining breccia composed predominantly of flattened pale altered vesicular 3 to 10mm mafic clasts. Strong fabric developed. CONTACT: Conformable abrupt,</p> <p>SANDSTONE Grey, Medium grained, Massive, Pumiceous, Cleavage picked out by abundant sericite laths. Common irregular carbonate veinlets. CONTACT: Conformable abrupt,</p> <p>PUMICEOUS MASS FLOW Pink, Grey, Pumiceous, Feldspar phyric, Abundant 1mm pink feldspars in breccia composed of 2 to 10mm pumice clasts. Upper contact is somewhat gradational with overlying sediments. Abundant 10 to 50mm pink siliceous dacite clasts throughout, possibly xenoliths. Minor carbonate veining throughout. CONTACT: Faulted, at 35 degrees to Sharp, 3mm sericite, no mixing.</p>			480		
			Moderately Silica-albite. Distinct salmon pink alteration, associated with fractures.				
				CLAST, very minor pyrite massive. Minor 10mm clasts of fine grey possibly siltstone containing disseminated to massive pyrite. Trace disseminated pyrite in pink dacite? clasts..	500		
502.00	503.70	SANDSTONE Green, Grey, Medium grained, Graded sandstone possibly representing graded top of pumiceous mass flow grading to fine grained siltstone. Both contacts appear to be faulted however there is a mixing of feldspars in the sandstone at the base. CONTACT: Faulted, at 60 degrees to Zone of 10cm brecciation, containing fragments of both units and minor carbonate veining.					FIRST CLEAVAGE, D 85.
503.70	507.80						<p>FAULT. A 35. Sharp contact between two lithologies with 3mm sericite band.</p> <p>FOLD. Possible slump fold.</p> <p>FAULT. Breccia, Irregular mixed contact, possibly fault breccia, but also</p>

5 cm

782220

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

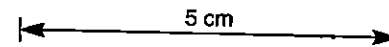
HOLE No. **YNC10**

PROJECT: YOLANDE

Vertical Scale 1 : 150

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DESCRIPTION				GRAPHIC			STRUCTURES	
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith		Structures
503.70	507.80	<p>brecciation, containing fragments of both units and minor carbonate veining.</p> <p>PUMICEOUS MASS FLOW Green, Gray, Pumiceous, Feldspar phyrlic, Pink 1mm feldspar crystal rich pumice breccia, with minor 10mm pink dacite clasts.</p> <p>CONTACT: Faulted, at 70 degrees to Brittle with pug.</p>						<p>mixed contact, possibly fault breccia, but also depositional mixing of lithologies.</p>
507.80	529.70	<p>PUMICEOUS MASS FLOW Grey, Pink, Coarse grained, Pumiceous, Feldspar phyrlic, Abundant 1mm pink feldspars, in sericite-silica and chlorite altered 3mm pumiceous fragments. Pumice fragments are un compacted and are randomly aligned in part. Minor 5mm pink dacite? clasts occur throughout, these clasts are siliceous contain disseminated pyrite and resemble outcrop in Newton Creek below andesite contact, and clasts in pumice breccia in YNC7 and in stratified mafic breccia in spillway. Trace clasts of dark grey very fine grained and very pyritic rock in part. Xenoliths?</p>	<p>Moderately Silica-albite. Distinct salmon pink alteration apparently emanating from fractures.</p>		510			<p>FALLT, A 70. Breccia, Pug, Zone of pug and quartz-carbonate gravel separating pumice breccias with different alteration, possibly late structure.</p>
				<p>DISSEMINATED, very minor pyrite disseminated, Very minor pyrite disseminated or in irregular carbonate veinlets or stringers..</p>	520			<p>VEIN, A 20. Quartz, Carbonate,</p>




782221

PASMINCO EXPLORATION
 DIAMOND DRILL CORE LOG
 Vertical Scale 1 : 150

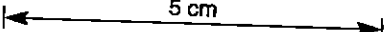
HOLE No. **YNC10**

PROJECT: YOLANDE

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
								
					530			
					540			

5 cm



7822222