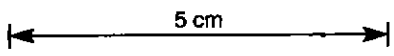


PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole No. **BPD82**

PROJECT: Vertical Scale 1 : 200 Page 1 of 1

DESCRIPTION				GRAPHIC			STRUCTURES	
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith		Struct
0.00	34.20	SANDSTONE, medium grained. Deeply weathered quartz feldspar crystal sandstone, no core recovered see BPD82A.	Very weathered, no core recovered.		30	[Dotted pattern]		
34.20	62.65	SANDSTONE cream, medium grained, massive, crystal. Feldspar quartz crystal sandstone, quartz subrounded <7mm diameter. Chloritized quartz feldspar crystal patches may have been glassy lithics or alteration stylolites. Sandstone massive with later breccia texture over print, breccia infilled with veinlets of chlorite/quartz/sphalerite.. CONTACT: unassigned	moderately oxidised. Limonitic joints and fractures. slightly oxidised, slightly chloritised	VEIN. Limonite vein. VEIN trace sphalerite in veinlets VEIN trace sphalerite in veinlets quartz. Dark brown to black sphalerite.	40 50			FAULT R5 brittle BROKEN CORE BROKEN CORE



741104

PASMINCO EXPLORATION

Hole No.

BP082

DIAMOND DRILL HOLE LOG

PROJECT:

Vertical Scale 1 : 200

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DESCRIPTION				GRAPHIC			STRUCTURES
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	
34.20	62.65	SANDSTONE cream, medium grained, massive, crystal. Feldspar quartz crystal sandstone, quartz subrounded <7mm diameter. Chloritized quartz feldspar crystal patches may have been glassy lithics or alteration stylolites. Sandstone massive with later breccia texture over print, breccia infilled with veinlets of chlorite/quartz/sphalerite.. CONTACT: unassigned	slightly oxidised, slightly chloritised	VEIN trace sphalerite in veinlets trace chalcopyrite in veinlets	60		BROKEN CORE
62.65	75.00	RHYOLITE cream pink, fine grained, brecciated, feldspar phyrlic. Lava cream-pink-green mottled, aphyric to feldspar/quartz phyrlic, texturally variable including brecciation/ glass(now sericite/ flow banding.. CONTACT: faulted	slightly silicified, slightly chloritised, slightly sericitised				
75.00	75.70	DEFORMED ZONE. Crush zone.					
75.70	166.10	SANDSTONE MIXED WITH RHYOLITE grey cream, coarse grained medium grained, massive peperitic, crystal lithic. Massive, mottled pink - grey green with chloritic stylolites. Felsic lithic horizons within the unit may represent hyaloclastites?/peperite?, these occur at 76.7m, 85.8m, 111.4m, 161.3-166.1m (quartz feldspar porphyry) and 99.2m (fine grained aphyric to feldspar phyrlic rhyolite).. CONTACT: conformable abrupt		VEIN trace sphalerite in veinlets	80		

5 cm

741105

PASMINCO EXPLORATION

Hole No.

BP082

DIAMOND DRILL HOLE LOG

PROJECT:

Vertical Scale 1 : 200

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		DESCRIPTION			GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
75.70	166.10	SANDSTONE MIXED WITH RHYOLITE grey cream, coarse grained medium grained, massive peperitic, crystal lithic. Massive, mottled pink - grey green with chloritic stylolites. Felsic lithic horizons within the unit may represent hyaloclastites?/peperite?, these occur at 76.7m, 85.8m, 111.4m, 161.3-166.1m (quartz feldspar porphyry) and 99.2m (fine grained aphyric to feldspar phytic rhyolite).. CONTACT: conformable abrupt	slightly silicified, slightly chloritised, slightly sericitised	VEIN trace sphalerite in veinlets trace chalcopyrite in veinlets. Veinlets associated with a zone of bleaching ie weak silica sericite alteration.	90			
					100			
					110			

5 cm

241106

PASMINCO EXPLORATION

Hole No.

BP082

DIAMOND DRILL HOLE LOG

PROJECT:

Vertical Scale 1 : 200

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DESCRIPTION				GRAPHIC			STRUCTURES	
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith		Struct
75.70	166.10	SANDSTONE MIXED WITH RHYOLITE grey cream, coarse grained medium grained, massive peperitic, crystal lithic. Massive, mottled pink - grey green with chloritic stylolites. Felsic lithic horizons within the unit may represent hyaloclastites?/peperite?, these occur at 76.7m, 85.8m, 111.4m, 161.3-166.1m (quartz feldspar porphyry) and 99.2m (fine grained aphyric to feldspar phytic rhyolite).. CONTACT: conformable abrupt	slightly silicified, slightly chloritised, slightly sericitised					

5 cm

241107

PASMINCO EXPLORATION

Hole No.

BPD82

DIAMOND DRILL HOLE LOG

PROJECT:

Vertical Scale 1 : 200

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		DESCRIPTION	GRAPHIC					
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth m	Lith	Struct	STRUCTURES
75.70	166.10	<p>SANDSTONE MIXED WITH RHYOLITE grey cream, coarse grained medium grained, massive peperitic, crystal lithic. Massive, mottled pink - grey green with chloritic stylolites. Felsic lithic horizons within the unit may represent hyaloclastites?/peperite?, these occur at 76.7m, 85.8m, 111.4m, 161.3-166.1m (quartz feldspar porphyry) and 99.2m (fine grained aphyric to feldspar phytic rhyolite).. CONTACT: conformable abrupt</p> <p>MIXED WITH SANDSTONE cream, medium grained, massive, crystal lithic. Sandstone occurs between 180.0-182.9m, and is composed of crystal and lithic fragments.</p> <p>SILTSTONE black, fine grained, foliated, crystal. Foliation sub parallel to LCR and with a similar orientation to weak disrupted banding/bedding. Abundant veinlets of carbonate/quartz/sphalerite.. CONTACT: gradational</p> <p>WITH MINOR GREYWACKE grey green, medium grained, poorly sorted, crystal lithic. Greywacke occurs between 167.00 - 167.50m and is composed of crystal and lithic fragments, lithics mainly black siltstone fragments (<1mm), matrix calcareous. The greywacke is quite distinctive and may be a good marker horizon and is similar to the interval 361.20-363.00m in EAF2.. CONTACT: conformable mixed</p> <p>MIXED WITH RHYOLITE cream, fine grained, peperitic. Lava? occurs between 169.6-171.6m, 179.7-182.0m and 187.3-193.0m, lava is fine grained, slightly feldspar phytic, mixed with crystal sandstone and black siltstone. The lack of chilling (sericitized glass) and baking/silicification of siltstone may suggest that the unit is not a peperite but a mixed fine grained sandstone/siltstone?</p>	<p>slightly silicified, slightly chloritised, slightly sericitised</p> <p>slightly carbonatised. Carbonate may be primary or a product of alteration.</p>	<p>VEIN trace sphalerite in veinlets</p> <p>VEIN trace sphalerite in veinlets trace galena in veinlets. Scattered veinlets with chalcedonic quartz gangue.</p> <p>VEIN trace sphalerite in veinlets</p> <p>VEIN 0.5% sphalerite in veinlets minor pyrite disseminated. Pyrite occurs as fine grained patches in siltstone.</p>	<p>150</p> <p>160</p>		<p>FAULT R30</p>	
166.00	193.00							

5 cm

241108

PASMINCO EXPLORATION

Hole No.

BPD82

DIAMOND DRILL HOLE LOG

PROJECT:

Vertical Scale 1 : 200

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FROM		TO	DESCRIPTION	ALTERATION	MINERALISATION	GRAPHIC			STRUCTURES
FROM	TO		LITHOLOGY			Depth	Lith	Struct	
166.00	193.00		<p>SILTSTONE black, fine grained, foliated, crystal. Foliation sub parallel to LCA and with a similar orientation to weak disrupted banding/bedding. Abundant veinlets of carbonate/quartz/sphalerite.. CONTACT: gradational</p> <p>WITH MINOR GREYWACKE grey green, medium grained, poorly sorted, crystal lithic. Greywacke occurs between 167.00 - 167.50m and is composed of crystal and lithic fragments, lithics mainly black siltstone fragments (<1mm), matrix calcareous. The greywacke is quite distinctive and may be a good marker horizon and is similar to the interval 361.20-363.00m in EAF2.. CONTACT: conformable mixed</p> <p>MIXED WITH RHYOLITE cream, fine grained, peperitic. Lava? occurs between 169.6-171.6m, 179.7-182.0m and 187.3-193.0m, lava is fine grained, slightly feldspar phyrlic, mixed with crystal sandstone and black siltstone. The lack of chilling (sericitized glass) and baking/silicification of siltstone may suggest that the unit is not a peperite but a mixed fine grained sandstone/siltstone?</p> <p>MIXED WITH SANDSTONE cream, medium grained, massive, crystal lithic. Sandstone occurs between 180.0-182.9m, and is composed of crystal and lithic fragments.</p>	<p>slightly carbonatised. Carbonate may be primary or a product of alteration.</p>	<p>VEIN 0.5% sphalerite in veinlets minor pyrite disseminated. Pyrite occurs as fine grained patches in siltstone.</p> <p>VEIN trace sphalerite in veinlets minor pyrite disseminated. Sphalerite occurs in calcite quartz veinlets. Pyrite occurs as fine grained blebs in siltstone.</p>	170			Fault R30 breccia
					180				
			<p>MIXED WITH RHYOLITE cream, fine grained, peperitic, feldspar phyrlic. Lava? fine grained, aphyric to feldspar phyrlic. There is little textural evidence for lava chilling on contacts with the siltstone.. CONTACT: faulted</p>	<p>moderately silicified, slightly sericitised, slightly chloritised. Alteration patchy, lithotype controlled. Weak carbonate alteration is fracture controlled.</p>					
193.00	226.30		<p>MIXED WITH SILTSTONE black, fine grained, massive, crystal. Bedding not readily apparent due to soft sediment and later deformation. Some siltstone occurs as stylolites. Siltstone locally silicified and primary textures are not readily recognizable.</p>			190			

5 cm

741109

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole No.

BPD82

PROJECT:

Vertical Scale 1 : 200

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DESCRIPTION				GRAPHIC			STRUCTURES	
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith		Struct
193.00	226.30	<p>MIXED WITH RHYOLITE cream, fine grained, peperitic, feldspar phyrlic. Lava? fine grained, aphyric to feldspar phyrlic. There is little textural evidence for lava chilling on contacts with the siltstone.. CONTACT: faulted</p> <p>MIXED WITH SILTSTONE black, fine grained, massive, crystal. Bedding not readily apparent due to soft sediment and later deformation. Some siltstone occurs as stylolites. Siltstone locally silicified and primary textures are not readily recognizable.</p>	<p>moderately silicified, slightly sericitised, slightly chloritised. Alteration patchy, lithotype controlled. Weak carbonate alteration is fracture controlled.</p>	<p>VEIN trace sphalerite in veinlets carbonate in veinlets</p> <p>VEIN trace sphalerite in veinlets. Sphalerite in quartz carbonate veinlets/fracture coatings and disseminated in silicified felsic volcanic fragments.</p> <p>VEIN trace sphalerite in veinlets. Sphalerite in veinlets and disseminated in silica/carbonate altered felsic volcanic fragments.</p>	<p>200</p> <p>210</p> <p>220</p>			

5 cm

241110

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole No.

BPD82

PROJECT:

Vertical Scale 1 : 200

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FROM		TO	DESCRIPTION	ALTERATION	MINERALISATION	GRAPHIC			STRUCTURES
FROM		TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
193.00	226.30		MIXED WITH RYHOLITE cream, fine grained, peperitic, feldspar phyrlic. Lava? fine grained, aphyric to feldspar phyrlic. There is little textural evidence for lava chilling on contacts with the siltstone.. CONTACT: faulted	moderately silicified, slightly sericitised, slightly chloritised.					
226.30	230.40		MIXED WITH SILTSTONE black, fine grained, massive, crystal. Bedding not readily apparent due to soft sediment and later deformation. Some siltstone occurs as stylolites. Siltstone locally silicified and primary textures are not readily recognizable.	Alteration patchy. Lithotype controlled. Weak carbonate alteration is fracture controlled.					
230.40	239.25		ACID VOLCANICLASTIC grey, medium grained, brecciated. A grey to green blotchy rock composed mainly of feldspar crystals with little matrix. The brecciated appearance may be due entirely to alteration ie blocks grey flecked with chlorite, groundmass? more chloritic. This is an odd rock with little textural evidence to indicate whether it is a lava breccia or volcaniclastic.. CONTACT: faulted CONTAINING CLASTS OF MINERALISATION/ALTERATION grey, fine grained. Sub-rounded clasts of fine grained silica/pyrite alteration occur at 226.9m and 227.8m ACID LAVA cream, fine grained, peperitic. Grey green, fine grained, slightly feldspar phyrlic lava?. An alternative interpretation is that the unit is a monomict felsic volcanic derived mass debris flow into siltstone. The unit is very similar to that between 193.00 - 226.30m.. CONTACT: conformable abrupt			230			
239.25	244.60		MIXED WITH SILTSTONE black, fine grained, peperitic. Siltstone matrix locally silicified and sericitized. ACID LAVA cream, medium grained, brecciated. This interval is a mixture of several different lithologies and only the basalt can be positively identified as a lava, all others could be sediments or lavas.. CONTACT: faulted		VEIN trace sphalerite in veinlets carbonate in veinlets. The most mineralized interval (0.5%Zn) occurs between 241.8-242.0m in a quartz carbonate vein @ 15LCA.	240			
244.60	255.85		MIXED WITH SANDSTONE green, medium grained, massive, feldspar phyrlic lithic. Feldspar crystals in a sericite/chlorite matrix with scattered lithics. There is usually a close association between this sandstone? and the felsic lava?. Minor banding that could be bedding occurs at 243.00m. INTERBEDDED WITH SILTSTONE green, fine grained, massive, vitric WITH MINOR BASALT green, fine grained, massive, amygdales. Basalt occurs between 240.80-241.20m. Irregular contacts would indicate that it is a peperite rather than clasts. Carbonate amygdales. ACID VOLCANICLASTIC cream, coarse grained, matrix supported, lithic. Felsic volcanic derived mass debris flow?. Matrix sericitic with pink feldspar crystals. Clasts include fine grained cream-pink rhyolite? and silicified pumice or finely flow banded lava?. CONTACT: conformable abrupt	intensely silicified, slightly sericitised, slightly carbonatized. Silicification is patchy, in part controlled by fractures.		250	Va		FAULT #60

5 cm

11111111

PASMINCO EXPLORATION

Hole No.

BP082

DIAMOND DRILL HOLE LOG

PROJECT:

Vertical Scale 1 : 200

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		DESCRIPTION	GRAPHIC					
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
244.60	255.85	ACID VOLCANICLASTIC cream, coarse grained, matrix supported, lithic. Felsic volcanic derived mass debris flow?. Matrix sericitic with pink feldspar crystals. Clasts include fine grained cream-pink rhyolite? and silicified pumice or finely flow banded lava?. CONTACT: conformable abrupt	intensely silicified, slightly sericitised, slightly carbonatised. Silicification is patchy, in part controlled by fractures.				Va	
255.85	259.60	ANDESITE cream, medium grained, peperitic, amygdales. Lava? pink-cream fine grained groundmas, quartz amygdales and abundant small feldspar phenocrysts plus an unidentified euhedral phenocryst * see thin section. Matrix is very sericitic and may be the altered glassy chilled margins of the lava.	intensely sericitised, moderately silicified. Sericite associated with fine grained pyrite as peperite matrix.	DISSEMINATED trace pyrite associated with alteration. Pyrite finely disseminated in sericite. Minor sphalerite quartz calcite veins also occur within the interval.				FAULT R5 shear
259.60	280.10	INTERBEDDED WITH ACID VOLCANICLASTIC cream, medium grained, matrix supported, polymict. This is very similar to the interval 244.60-255.85m. ACID LAVA cream pink, fine grained, peperitic. Glassy, aphyric, highly fractured rhyolite? lava. Texturally variable, fragments frequently with jig-saw fit.. CONTACT: faulted MIXED WITH MINERALISATION/ALTERATION green, fine grained, peperitic. Peperite matrix, strongly sericitized with finely disseminated pyrite. Matrix in places is a medium grained sandstone composed of fine aphyric lava fragments.	intensely sericitised, moderately silicified, slightly fuchsitic. Fuchsite restricted to fractures in the andesite? lava. Sericite associated with fine grained pyrite as peperite matrix. highly sericitised, moderately silicified moderately silicified, slightly sericitised, slightly carbonatised. Carbonatization is fracture controlled.	VEIN trace sphalerite in veinlets	260			FAULT R30 brittle FAULT R25 shear
					270			FAULT R25 shear
					280			BEDDING R15

5 cm

241112

**PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG**

Hole No. **BPD82**

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FROM		TO	DESCRIPTION	ALTERATION	MINERALISATION	GRAPHIC		STRUCTURES	
FROM		TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	
280.10	306.50		<p>ACID LAVA cream pink, fine grained, peperitic. Glassy, aphyric, highly fractured rhyolite? lava. Texturally variable, fragments frequently with jig-saw fit.. CONTACT: faulted</p> <p>MIXED WITH MINERALISATION/ALTERATION green, fine grained, peperitic. Peperite matrix, strongly sericitized with finely disseminated pyrite. Matrix in places is a medium grained sandstone composed of fine aphyric lava fragments.</p> <p>SILTSTONE black, fine grained, foliated. Calcareous siltstone, massive/laminated/foliated with abundant carbonate veinlets.. CONTACT: conformable abrupt</p> <p>MIXED WITH LIMESTONE grey, fine grained, bedded. Limestone occurring as boudins? and poorly defined beds in black siltstone.</p> <p>WITH MINOR RHYOLITE cream, fine grained, peperitic. 287.10 - 288.30m, 300.60 - 306.50m fine grained, aphyric rhyolite lava fragments/peperite in black siltstone. Partial sericite alteration may reflect chilled glassy contacts.</p>	<p>highly carbonatised. Pervasive carbonate may be primary or due to alteration.</p>	<p>VEIN trace sphalerite in veinlets trace pyrite disseminated. Sphalerite in quartz calcite veinlets. Pyrite disseminated and in fine grained blebs.</p>	280			
			<p>RHYOLITE cream, medium grained, foliated. Silica flooding and sericitization have obscured the primary texture and the interval could be a volcanoclastic or lava.. CONTACT: conformable abrupt</p> <p>WITH MINOR SILTSTONE black, fine grained. Minor sheared out lenses/stylolites include black siltstone/ chert or silicified siltstone/ sericitized lava? These three lithologies occur together and may represent a sheared out peperite.</p>	<p>highly silicified, slightly carbonatised. Silicification is patchy and affecting both lava and siltstone, carbonatization is associated with microfractures.</p>		290			
				<p>slightly sericitised, slightly silicified, slightly carbonatised</p>		300			
306.50	310.50								

5 cm

741113

PASMINCO EXPLORATION

Hole No.

BP082

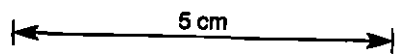
DIAMOND DRILL HOLE LOG

PROJECT:

Vertical Scale 1 : 200

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		DESCRIPTION	GRAPHIC					
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
306.50	310.50	RHYOLITE cream, medium grained, foliated. Silica flooding and sericitization have obscured the primary texture and the interval could be a volcanoclastic or lava.. CONTACT: conformable abrupt	slightly sericitised, slightly silicified, slightly carbonatised	VEIN trace sphalerite in veinlets trace pyrite disseminated. Sphalerite in quartz calcite veinlets. Pyrite disseminated and in fine grained blebs.	310			FAULT N40 shear PRIMARY FABRIC D55 FIRST CLEAVAGE D80 fracture FIRST CLEAVAGE D90 fracture FIRST CLEAVAGE D90 fracture
310.50	327.40	WITH MINOR SILTSTONE black, fine grained. Minor sheared out lenses/stylolites include black siltstone/ chert or silicified siltstone/ sericitized lava? These three lithologies occur together and may represent a sheared out peperite. SILTSTONE WITH MINOR LIMESTONE black grey, fine grained fine grained, massive massive. Massive to weakly bedded/weakly foliated. 318.20-318.60m slightly banded limestone.. CONTACT: conformable abrupt	highly silicified, moderately carbonatised. Carbonatization associated with fractures and veinlets.					
		MIXED WITH RHYOLITE cream, fine grained, peperitic. Cream to pale grey, fine grained, aphyric, cherty rhyolite peperite. Below 318.60m lava? sericitized which may indicate chilled glassy contacts. Some of this unit, particularly the grey cherty rocks may be silicified siltstone rather than lava.. CONTACT: conformable abrupt	highly silicified, slightly sericitised, slightly carbonatised	VEIN pyrite in veinlets 2% sphalerite in veinlets				
327.40	338.45	RHYOLITE cream, fine grained, massive. Aphyric rhyolite lava, chilled margins are pale grey silicified. Massive lava mixed with a medium grained epiclastic appearing unit which is most likely a variation of the lava and is similar to the interval 306.50 - 310.50m.. CONTACT: conformable abrupt		VEIN 0.5% sphalerite in veinlets carbonate in veinlets STRINGER 1% sphalerite in veinlets carbonate in veinlets. Maximum stringer development between 335.70 - 336.50m 5% Zn. Sphalerite chalcopyrite vein at 338.50m.	330			



241114

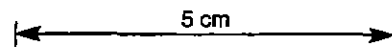
PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole No. **BP082**

PROJECT: Vertical Scale 1 : 200

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		DESCRIPTION	GRAPHIC			STRUCTURES		
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
327.40	338.45	RHYOLITE cream, fine grained, massive. Aphyric rhyolite lava, chilled margins are pale grey silicified. Massive lava mixed with a medium grained epiclastic appearing unit which is most likely a variation of the lava and is similar to the interval 306.50 - 310.50m.. CONTACT: conformable abrupt	highly silicified, slightly sericitised, slightly carbonatised	STRINGER 1% sphalerite in veinlets carbonate in veinlets. Maximum stringer development between 335.70 - 336.50m 5% Zn. Sphalerite chalcocoprite vein at 338.50m.	340			
338.45	341.20	SILTSTONE grey, fine grained, massive. Flecked with fine crystal/lithic fragments, these could be the distal equivalents of a peperite/hyaloclastite.. CONTACT: conformable abrupt	slightly silicified, slightly carbonatised. Carbonatization associated with fractures and veinlets.					
341.20	345.50	RHYOLITE cream, fine grained, massive, stylolites. Blotchy appearance reflecting stylolitic sericite alteration. Nature of contact indicates that it is most likely a lava, otherwise the unit is textureless.. CONTACT: conformable abrupt	slightly silicified, slightly sericitised		350	Va		
345.50	355.90	ACID VOLCANICLASTIC cream, medium grained, foliated, lithic crystal. Pink feldspar crystals and fine grained rhyolite fragments (<2cm) in sericitized groundmass. Unit could be a brecciated lava, there are no definite sedimentary textures visible.. CONTACT: conformable mixed	moderately sericitised					
355.90	412.00	RHYOLITE cream, fine grained, peperitic brecciated. Rhyolite? lava, aphyric, texturally variable including, massive, banded, brecciated and with sericite stylolites.. CONTACT: gradational MIXED WITH SILTSTONE black, fine grained, peperitic. Siltstone massive, bedding may have been totally disrupted by lava intrusion. Fragments of lava are common giving the siltstone a conglomeratic appearance in some intervals. Siltstone dominant intervals are as follows, 359.00-371.30m, 376.60-381.00m, 390.00-393.40m and 407.00-412.00m. A quartz crystal rich lava or sandstone occurs between 383.80-385.10m, quartz grains are subrounded <6mm.	highly silicified, moderately carbonatised slightly silicified, slightly sericitised	DISSEMINATED trace pyrite	360			BROKEN CORE #40 brittle



741115

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole No.

BP082

PROJECT:

Vertical Scale 1 : 200

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DESCRIPTION				GRAPHIC				
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
355.90	412.00	<p>RHYOLITE cream, fine grained, peperitic brecciated. Rhyolite? lava, aphyric, texturally variable including, massive, banded, brecciated and with sericite stylolites.. CONTACT: gradational</p> <p>MIXED WITH SILTSTONE black, fine grained, peperitic. Siltstone massive, bedding may have been totally disrupted by lava intrusion. Fragments of lava are common giving the siltstone a conglomeratic appearance in some intervals. Siltstone dominant intervals are as follows, 359.00-371.30m, 376.60-381.00m, 390.00-393.40m and 407.00-412.00m. A quartz crystal rich lava or sandstone occurs between 383.80-385.10m, quartz grains are subrounded <6mm.</p>	<p>slightly silicified, slightly sericitised</p>	<p>DISSEMINATED trace pyrite</p>	<p>370</p>		<p>-----</p> <p>-----</p> <p>-----</p> <p>=====</p> <p>-----</p> <p>-----</p> <p>-----</p>	<p>FAULT A30</p> <p>PRIMARY FABRIC A5</p> <p>FAULT A10</p> <p>FAULT D80 pug FAULT D70 shear</p> <p>FAULT A35 shear</p> <p>FAULT A17 shear</p>
			<p>highly detextured. Pug and shear zone.</p>		<p>380</p> <p>390</p>			

5 cm

241116

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole No.

BPD82

PROJECT:

Vertical Scale 1 : 200

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		DESCRIPTION	GRAPHIC					
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
442.70	448.55	<p>PUMICEOUS MASS FLOW grey, medium grained, massive, stylolites. Some pumice textures recognizable but the intensity of carbonate/silica alteration obliterates most primary textures.. CONTACT: faulted</p> <p>PUMICEOUS MASS FLOW cream, medium grained, bedded. Pumiceous rocks are texturally variable, includes 3mm grainsize with cherty lithics (448.55-449.00m) and fine to medium grained bedded to augen sandstone. The entire interval may represent the top of an uphole facing mass debris flow unit.. CONTACT: faulted</p> <p>INTERBEDDED WITH SILTSTONE CONTAINING CLASTS OF LIMESTONE black, medium grained, bedded. Siltstone with lenses and fragments (disrupted lenses) of sandy limestone.</p>	slightly sericitised, slightly carbonatised		450			BEDDING D90
448.55	465.70		moderately silicified, slightly sericitised	DISSEMINATED trace pyrite disseminated. Disseminated in fine grained sandstone lenses.				
					460			BEDDING D90
								BEDDING D85
					470			BEDDING A10 folded
465.70	491.80	<p>PUMICEOUS MASS FLOW cream, medium grained, massive, stylolites. *Essentially the same lithological association from 442.70m. Weak foliation with abundant calcite +-quartz veining. Localized sericitic stylolites.. CONTACT: gradational</p> <p>WITH MINOR SILTSTONE grey, fine grained, bedded. Fine grained cream to dark grey sandstone and siltstone, occurs between 478.30-479.50m, 482.70-482.90m and 484.70-485.00m</p>	moderately silicified. Black pumice breccia.					Fault A5 annealed
			moderately silicified, slightly sericitised. Abundant calcite quartz veins.					BEDDING A40
								Fault A30 shear
								Fault A30 shear
								Fault A10 annealed
								Fault A20 shear
								Fault A30 shear
								Fault A45 shear

5 cm

741119

PASMINCO EXPLORATION

Hole No.

BPD82

DIAMOND DRILL HOLE LOG

PROJECT:

Vertical Scale 1 : 200

Page of 1

DESCRIPTION				GRAPHIC				
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
465.70	491.80	<p>PUMICEOUS MASS FLOW cream, medium grained, massive, stylolites. *Essentially the same lithological association from 442.70m. Weak foliation with abundant calcite +-quartz veining. Localized sericitic stylolites.. CONTACT: gradational</p> <p>WITH MINOR SILTSTONE grey, fine grained, bedded. Fine grained cream to dark grey sandstone and siltstone, occurs between 478.30-479.50m, 482.70-482.90m and 484.70-485.00m</p>	<p>moderately silicified, slightly sericitised. Abundant calcite quartz veins.</p>		480		<p>FAULT R45 shear</p> <p>FAULT R25 shear</p> <p>BEDDING R20</p> <p>BEDDING R60</p>	
			<p>slightly sericitised</p>		490		<p>FAULT R70 shear</p> <p>FAULT R40 shear</p> <p>FAULT R45 shear</p> <p>FAULT R25</p> <p>FAULT R20 annealed</p> <p>FAULT R10 annealed</p>	
491.80	533.70	<p>SILTSTONE CONTAINING LAMINAE OF LIMESTONE black grey, fine grained fine grained, laminated. Limestone occurs as disrupted lenses between 510.80-511.20m, 520.00-522.00m and 530.30-532.70m. This interval may represent the waning phase of a mass debris flow unit into a mudstone basin, interpreted down hole facing.. CONTACT: faulted</p> <p>INTERBEDDED WITH SANDSTONE grey, medium grained, bedded, lithic. Sandstone matrix fine grained slightly silicified and pyritic. Clasts are subrounded carbonatized felsic volcanics.</p> <p>WITH MINOR RHYODACITE cream, medium grained, peperitic. Carbonatized felsic peperite occurs between 532.75-533.55m. Contacts with siltstone are slightly silicified (chilled?). Possible perlitic textures occur.</p>		<p>DISSEMINATED trace pyrite disseminated. Disseminated in fine grained sandstone lenses.</p>	500		<p>FAULT R15 annealed</p> <p>BEDDING R20</p> <p>BEDDING R10</p>	

5 cm

241120

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole No.

BPD82

PROJECT:

Vertical Scale 1 : 200

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DESCRIPTION			GRAPHIC					
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
491.80	533.70	<p>SILTSTONE CONTAINING LAMINAE OF LIMESTONE black grey, fine grained fine grained, laminated. Limestone occurs as disrupted lenses between 510.80-511.20m, 520.00-522.00m and 530.30-532.70m. This interval may represent the waning phase of a mass debris flow unit into a mudstone basin, interpreted down hole facing.. CONTACT: faulted</p> <p>INTERBEDDED WITH SANDSTONE grey, medium grained, bedded, lithic. Sandstone matrix fine grained slightly silicified and pyritic. Clasts are subrounded carbonatized felsic volcanics.</p> <p>WITH MINOR RHYODARCITE cream, medium grained, peperitic. Carbonatized felsic peperite occurs between 532.75-533.55m. Contacts with siltstone are slightly silicified (chilled?). Possible perlitic textures occur.</p>						<p>BEDDING A5</p> <p>FAULT A80</p> <p>BEDDING A30</p> <p>BEDDING D75</p> <p>BEDDING D75</p> <p>BEDDING D55</p> <p>FIRST CLEAVAGE D80 spaced</p> <p>BEDDING D75</p> <p>BEDDING D90</p> <p>FAULT D70 annealed</p> <p>BEDDING D80</p> <p>BEDDING D55</p> <p>FIRST CLEAVAGE D70</p>
				<p>STRINGER 2% pyrite in veinlets. Fine grained veinlets and patches.</p>				

5 cm

741121

PRSMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole No. **BP082**

PROJECT:

Vertical Scale 1 : 200

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DESCRIPTION				GRAPHIC				
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
491.80	533.70	<p>SILTSTONE CONTAINING LAMINAE OF LIMESTONE black grey, fine grained fine grained, laminated. Limestone occurs as disrupted lenses between 510.80-511.20m, 520.00-522.00m and 530.30-532.70m. This interval may represent the waning phase of a mass debris flow unit into a mudstone basin, interpreted down hole facing.. CONTACT: faulted</p> <p>INTERBEDDED WITH SANDSTONE grey, medium grained, bedded, lithic. Sandstone matrix fine grained slightly silicified and pyritic. Clasts are subrounded carbonatized felsic volcanics.</p> <p>WITH MINOR RHYODACITE cream, medium grained, peperitic. Carbonatized felsic peperite occurs between 532.75-533.55m. Contacts with siltstone are slightly silicified (chilled?). Possible perlitic textures occur.</p> <p>SILTSTONE INTERBEDDED WITH LIMESTONE black grey, fine grained fine grained, laminated brecciated. Siltstone frequently with fine grained pyritic lamina. Limestone lenses brecciated as a result of soft sediment deformation and spaced cleavage development. Abundant calcite +- quartz veining throughout.</p>						
533.70	619.50							

5 cm

41122

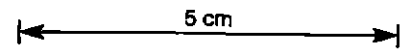
PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole No. **BPDB2**

PROJECT: Vertical Scale 1 : 200

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DESCRIPTION				GRAPHIC				
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
533.70	619.50	SILTSTONE INTERBEDDED WITH LIMESTONE black grey, fine grained fine grained, laminated brecciated. Siltstone frequently with fine grained pyritic lamina. Limestone lenses brecciated as a result of soft sediment deformation and spaced cleavage development. Abundant calcite +- quartz veining throughout.			560			BEDDING A20
					570			FIRST CLEAVAGE A0 spaced
					580			FIRST CLEAVAGE A0 spaced
								BEDDING D55



241123

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG


Hole No.

BP082

PROJECT:

Vertical Scale 1 : 200

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DESCRIPTION				GRAPHIC				
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
533.70	619.50	SILTSTONE INTERBEDDED WITH LIMESTONE black grey, fine grained fine grained, laminated brecciated. Siltstone frequently with fine grained pyritic lamina. Limestone lenses brecciated as a result of soft sediment deformation and spaced cleavage development. Abundant calcite +/- quartz veining throughout.			590			FIRST CLEAVAGE D90 spaced
								BEDDING D60
								BEDDING D65
								FAULT D62
					600			BEDDING A5
								BEDDING A35
					610			BEDDING A5

5 cm

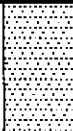
741124

PRSMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole No. **BP082**

PROJECT: Vertical Scale 1 : 200

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DESCRIPTION				GRAPHIC			STRUCTURES	
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith		Struct
533.70	619.50	SILTSTONE INTERBEDDED WITH LIMESTONE black grey, fine grained fine grained, laminated brecciated. Siltstone frequently with fine grained pyritic lamina. Limestone lenses brecciated as a result of soft sediment deformation and spaced cleavage development. Abundant calcite +- quartz veining throughout.				620		BEDDING A20
						630		
						640		

5 cm

741125