PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
EAF2

DRILLING

Location	EL 44/88 BURNS PERK
Project	BURNS PEAK
Prospect	BROWN'S TUNNEL
Design By	R.POLTOCK
Logged By	R.POLTOCK
Relogged	
Commenced	10/10/1994
Completed	11/11/1994
Drilled By	East Coast Diamond Drilling
Drill Rig	Longyear 38

OBJECTIVE

EAF2 was extended to test the upper pumice-rich unit of the Brown's Tunnel Host Sequence, the interpreted syncline in the host sequence and the position of the Rosebery Fault.

RESULT

The hole intersected sericite carbonate altered BTHS with subeconomic zinc mineralization. The syncline interpretation was proven incorrect, and the Rosebery Fault hanging wall structure was not intersected. The hole was terminated in a felsic volcanic derived sequence which lies above and east of the Rosebery Fault.

COLLAR SURVEY (AMG)

AMG mN	5384531.7	Bearing	281.0
AMG mE	377679.8	Dip	-45.0
mN		Hole Length	499.5
mE		DH Survey Type	EASTMAN CAMERA
RL	465.5		

DOWNHOLE SURVEY (AMG)

Depth	Bearing	Dip
0.0	-45.00	281.00
65.0	-45.00	280.50
132.5	-46.00	279.50
150.0	-44.50	283.50
200.0	-43.50	285.50
250.0	-41.00	286.50
300.0	-40.00	289.50
350.0	-39.50	288.50
450.0	-36.50	290.50
499.0	-36.00	291.00

SIGNIFICANT CORE LOSS

POOR GROUND CONDITION ZONES

HOLE SIZE

From	To	Size
132.0	499.5	NQ

HOLE CONDITIONS AFTER COMPLETION

Collar	
Steel Casing	3m collar pipe in hole
PVC Casing	48mm PVC to EOH
Ground Water	
Wedge	
Drill Pad	

SIGNIFICANT INTERSECTIONS

From	To	Int	Cu	Pb	Zn	Ag	Au	Comments
137	138	1	.16	.14	.91	21		Lenses and veinlets of sphalerite and chalcopyrite in chloritized conglomerate.
138	154	16	.01	.04	.05	6.6	.05	Stringers and lenses of pyrite in intensely silicified siltstone and sandstone.

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole No. EAF2

PROJECT:

Vertical Scale 1 : 200

DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
0.00	6.00	ACID VOLCANICLASTIC. No core recovered.				Va		
6.00	9.00	SANDSTONE CONTAINING CLASTS OF. Mass flow sandstone derived from felsic volcanics and siltstone.						
9.00	12.00	FAULT ZONE (PUG). Fault zone with siltstone and limonite fragments.			10	fz		
12.00	20.60	SANDSTONE, medium grained, massive. Volcaniclastic sandstone with abundant quartz grains, not unlike the Pinnacles Rhyolite.						
20.60	23.60	FAULT ZONE (PUG). Fault zone in pumiceous sandstone and siltstone.			20	fz		
23.60	34.50	DACITE grey green, fine grained, brecciated massive, feldspar phyric. Lava breccia, chloritic patches after glass?						

5 cm

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole No. EAF2

PROJECT:

Vertical Scale 1 : 200

Page of 1

DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
23.60	34.50	DACITE grey green, fine grained, brecciated massive, feldspar phyric. Lava breccia, chloritic patches after glass?			30			
34.50	35.50	FAULT ZONE (PUG). Sheared siltstone and sandstone.				fz		
35.50	45.50	DACITE. Lava, texturally variable, includes massive/brecciated/chlorite (glass).			40			
45.50	65.00	MASS FLOW. Volcaniclastic lithic sandstone with siltstone lenses and ripup clasts.			50	mf		

5 cm

241059

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole No. EAF2

PROJECT:

Vertical Scale 1 : 200

DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
45.50	65.00	MASS FLOW. Volcaniclastic lithic sandstone with siltstone lenses and ripup clasts.			60	mf		
65.00	85.80	DACITE, fine grained, peperitic, feldspar phyric. Cherty and slightly pyritic peperite.			70			
					80			

5 cm

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole No. EAF2

PROJECT:

Vertical Scale 1 : 200

DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
65.00	85.80	DACITE, fine grained, peperitic, feldspar phyric. Cherty and slightly pyritic peperite.						
85.80	89.30	SILTSTONE CHERT, massive. Chert or silicified siltstone.						
89.30	90.50	DACITE, peperitic. Chert peperite.			90			
90.50	92.40	MASS FLOW				mf		
92.40	101.00	DACITE, peperitic						
101.00	107.20	DACITE, aphyric. Aphyric to slightly feldspar phyric.			100			
107.20	113.00	SILTSTONE grey, massive			110			

5 cm

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole No. EAF2

PROJECT:

Vertical Scale 1 : 200

Page of 1

DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
107.20	113.00	SILTSTONE grey, massive						
113.00	127.00	DACITE, peperitic. Siliceous siltstone peperite.						
		SILTSTONE grey, bedded						
		DACITE cream green, fine grained, massive flow banded, feldspar phyric. Feldspars occasionaly as glomerocrysts. Texturally variable includes massive/flow banded/brecciated/perlitic (132.1m). No conclusive textural evidence for unit being a lava.			120			
127.80	128.60							
128.60	135.80	CONGLOMERATE cream grey, medium grained coarse grained, poorly sorted, polymict. Clasts wragged to subrounded upto 5cm. Clasts include chert/silicified siltstone, sandstone, pumice and felsic lava.. CONTACT: conformable abrupt	slightly sericitised, slightly silicified. Alteration patchy and associated with disseminated pyrite.	DISSEMINATED pyrite sphalerite disseminated. Sphalerite also occurs in carbonate chlorite veinlets.	130			VEIN A45 carbonate carbonate chlorite
		CONGLOMERATE pale grey, medium grained coarse grained, matrix supported. Clasts predominantly of pale grey silicified siltstone/chert. Matrix sericitized and pyritic.. CONTACT: faulted	highly chloritised. Associated with pyrite.	DISSEMINATED sphalerite chalcopyrite as stringers. Lens of massive chlorite, pyrite and sphalerite with chalcopyrite veinlets. Sphalerite cut by carbonate veinlets.				FIRST CLEAVAGE A30 spaced
135.80	137.70	SANDSTONE cream, fine grained medium grained, massive. Possibly a sandstone derived from felsic volcanics, however alteration intensity makes it difficult to determine the protolith. Abundant fine quartz grains in a sericitized groundmass.. CONTACT: faulted	slightly sericitised					FIRST CLEAVAGE A45
137.70	138.60		highly sericitised, slightly chloritised. Associated with pyrite.	DISSEMINATED pyrite pyrite as stringers. Semi massive pyrite lens between 139.30 - 139.60m. 1cm quartz, sphalerite,pyrite, galena and chalcopyrite vein.	140			FIRST CLEAVAGE A40 spaced
138.60	145.90							

5 cm

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole No. **EAF2**

PROJECT:

Vertical Scale 1 : 200

Page of 1

DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth 140	Lith	Struct	STRUCTURES
138.60	145.90	SANDSTONE cream, fine grained medium grained, massive. Possibly a sandstone derived from felsic volcanics, however alteration intensity makes it difficult to determine the protolith. Abundant fine quartz grains in a sericitized groundmass.. CONTACT: faulted	highly sericitised, slightly chloritised. Associated with pyrite.	DISSEMINATED pyrite pyrite as stringers. Semi massive pyrite lens between 139.30 - 139.60m. 1cm quartz. sphalerite,pyrite, galena and chalcopyrite vein.				FIRST CLEAVAGE A40
			highly silicified, highly sericitised. Associated with disseminated and stringer veins of pyrite.					BEDDING A80
145.90	150.90	CHERT pale grey, fine grained, massive. May be chert or silicified siltstone. Some soft sediment deformation.. CONTACT: conformable mixed	moderately sericitised, slightly silicified. Disseminated pyrite.					VEIN A20 carbonate sphalerite
		WITH MINOR PUMICEOUS MASS FLOW						FAULT A80 pug
								FAULT A80 pug
			highly silicified	STRINGER 5% pyrite as stringers trace chalcopyrite disseminated				FIRST CLEAVAGE A60
150.90	155.60	CHERT cream grey, massive brecciated. May be chert or silicified siltstone.		DISSEMINATED pyrite 1% pyrite as stringers. Pyrite 1% over interval. Sphalerite black occuring as threadlike veinlets, disseminations and blebs.	150			
			highly silicified, moderately sericitised. Carbonate veining.					
		CHERT grey. CONTACT: faulted		DISSEMINATED 1% pyrite trace sphalerite disseminated				FAULT A20 shear
155.60	162.35	MIXED WITH SILTSTONE cream, medium grained, bedded. Silicified siltstone with weak irregular banding which could be bedding.		MASSIVE 30% sphalerite				FAULT A10 shear
				DISSEMINATED 0.5% pyrite minor sphalerite disseminated				
		WITH MINOR PUMICEOUS MASS FLOW yellow. Sericitized.		DISSEMINATED sphalerite 5% sphalerite as stringers				
				DISSEMINATED pyrite 1% pyrite in veinlets				
				DISSEMINATED sphalerite 5% sphalerite as stringers. Both black and straw coloured sphalerite. Massive fine grained sphalerite/galena/pyrite/chalcopyrite lens between 162.20-162.30m.	160			
		PUMICEOUS MASS FLOW cream green, medium grained, massive bedded. Massive to weakly banded.. CONTACT: conformable abrupt						BEDDING facing downhole younging downhole
162.35	166.10		highly sericitised, moderately silicified					FIRST CLEAVAGE A50 spaced
		SANDSTONE. CONTACT: faulted		DISSEMINATED 2% sphalerite 0.5% galena disseminated. Disseminated, blebby (replacing pumice fragments?) and veinlets of sphalerite. At 165.45m there is a 3cm lense of sphalerite/galena.				
		MIXED WITH SILTSTONE	highly sericitised, highly silicified. Interlayered silica sericite alteration reflecting protolith?					
166.10	170.80	MIXED WITH PUMICEOUS MASS FLOW						
		WITH MINOR SILTSTONE yellow. Sericitized siltstone.						

5 cm

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole No. EAF2

PROJECT:

Vertical Scale 1 : 200

Page of 1

DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
165.10	170.80	SANDSTONE. CONTACT: faulted MIXED WITH SILTSTONE MIXED WITH PUMICEOUS MASS FLOW	highly sericitised, highly silicified. Interlayered silica sericite alteration reflecting protolith?	DISSEMINATED 2% sphalerite 0.5% galena disseminated. Disseminated, blebby (replacing pumice fragments?) and veinlets of sphalerite. At 165.45m there is a 3cm lense of sphalerite/galena.	170			FIRST CLEAVAGE A45 spaced
170.80	236.60	WITH MINOR SILTSTONE yellow. Sericitized siltstone. PUMICEOUS MASS FLOW cream grey, medium grained, massive bedded, lithic. Scattered fine grained siliceous "clasts" or silicified patches?. CONTACT: faulted CONTAINING CLASTS OF MINERALISATION/ALTERATION. Cream to green clasts? of carbonate chlorite, mainly between 199.60-204.40m, 210.00-236.60m, some fragments are well banded at 234.30m. Single massive fine grained pyrite sericite fragment at 203.50m. Carbonate fragments may have been derived from a massive carbonate chlorite lens as in BPD81 between 202.60-206.10m or may represent insitu carbonatization.	moderately sericitised, moderately carbonatised. Carbonatization as diffuse patches and is associated with sphalerite. moderately sericitised, moderately chloritised, moderately carbonatised	DISSEMINATED trace sphalerite. Disseminated and blebby sphalerite.	180 190			FAULT A40 shear FAULT A5 shear FAULT A5 shear FAULT A40 pug FIRST CLEAVAGE A45 spaced VEIN A15 carbonate VEIN A35 carbonate

5 cm

74094

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole No. EAF2

PROJECT:

Vertical Scale 1 : 200

DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
170.80	236.60	PUMICEOUS MASS FLOW cream grey, medium grained, massive bedded, lithic. Scattered fine grained siliceous "clasts" or silicified patches?. CONTACT: faulted CONTAINING CLASTS OF MINERALISATION/ALTERATION. Cream to green clasts? of carbonate chlorite, mainly between 199.60-204.40m, 210.00-236.60m, some fragments are well banded at 234.30m. Single massive fine grained pyrite sericite fragment at 203.50m. Carbonate fragments may have been derived from a massive carbonate chlorite lens as in BPD81 between 202.60-206.10m or may represent insitu carbonatization.	moderately sericitised, moderately carbonatised. Intense carbonatization patches or massive carbonate fragments? moderately chloritised, moderately carbonatised, slightly sericitised		230			FAULT A40 brittle quartz carbonate VEIN A20 carbonate FAULT A55
236.60	245.90	ACID LAVA cream green, fine grained, massive, feldspar phyric quartz phyric. Devitrification texture between 236.60-237.10m.. CONTACT: faulted	slightly sericitised, moderately carbonatised. Feldspar phenocrysts carbonatized.		240			FAULT A60 FAULT A35 brittle FAULT A20 FAULT A50
245.90	265.25	PUMICEOUS MASS FLOW grey cream, medium grained, massive bedded, feldspar phyric. Massive to weakly banded. Clasts of fine grained massive carbonate.. CONTACT: faulted CONTAINING CLASTS OF MINERALISATION/ALTERATION cream pink	moderately carbonatised, slightly sericitised slightly carbonatised, slightly chloritised, slightly sericitised		250			

5 cm

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole No. EAF2

PROJECT:

Vertical Scale 1 : 200

DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
265.25	310.40	ACID LAVA cream pink, fine grained, massive, feldspar phyric quartz phyric. Phenocrysts <2mm in diameter.. CONTACT: conformable abrupt	slightly sericitised. slightly carbonatised. Feldspar phenocrysts carbonatized. slightly sericitised. Feldspar phenocrysts sericitized.		280 290 300		VEIN carbonate quartz chalcopyrite VEIN quartz carbonate VEIN carbonate quartz	

5 cm

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole No. EAF2

PROJECT:

Vertical Scale 1 : 200

Page of 1

DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
265.25	310.40	ACID LAVA cream pink, fine grained, massive, feldspar phyric quartz phyric. Phenocrysts <2mm in diameter.. CONTACT: conformable abrupt	slightly sericitised. Feldspar phenocrysts sericitized.					VEIN carbonate quartz
310.40	311.00	PUMICEOUS MASS FLOW grey cream, fine grained, bedded. Chert or silicified siltstone.. CONTACT: faulted	slightly sericitised	BANDED pyrite. Disrupted thin lenses of fine grained pyrite.	310			FAULT A45 sericite
311.00	312.20							
312.20	323.05	SILTSTONE grey, fine grained. Scattered fine grained pyrite fragments or disrupted lenses in siltstone. INTERBEDDED WITH SANDSTONE cream, fine grained, bedded, crystal lithic. CONTACT: faulted		VEIN quartz in veins carbonate in veins. Quartz carbonate sphalerite galena chalcopyrite veins, maximum 3cm thick.				VEIN quartz carbonate sphalerite
		RHYOLITE cream, fine grained, massive brecciated, feldspar phyric quartz phyric. Sparsely quartz feldspar phyric. Breccia between 315.00-323.05m may be a hyaloclastite.. CONTACT: conformable abrupt	slightly chloritised					
			moderately silicified. Associated with veining.		320			
323.05	327.80	RHYOLITE cream pink, medium grained, massive brecciated, quartz phyric feldspar phyric. Possibly a hyaloclastite in part, giving the unit an epiclastic appearance but one possibly exotic clast at 323.10m.. CONTACT: conformable abrupt MIXED WITH CHERT, peperitic. Siliceous siltstone/cherty peperite occurs between 327.40-327.80m.	slightly silicified, slightly albitised. Pink silica/albite or kfeldspar and minor pyrite, alteration as a halo around a 1cm wide quartz calcite vein.					FAULT A10 pug carbonate
			slightly silicified, moderately albitised. Pink silica/albite or kfeldspar with minor pyrite, alteration as a halo around a 3cm wide quartz calcite vein.		330			
327.80	337.95	RHYOLITE cream, fine grained, massive brecciated, feldspar phyric quartz phyric. CONTACT: conformable abrupt	slightly silicified, moderately albitised. Pink silica/albite or kfeldspar with minor pyrite, alteration as a halo around a 3cm wide quartz calcite vein.					VEIN A70 carbonate

5 cm

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole No. EAF2

PROJECT:

Vertical Scale 1 : 200

Page of 1

DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
327.80	337.95	RHYOLITE cream, fine grained, massive brecciated, feldspar phyric quartz phyric. CONTACT: conformable abrupt	slightly silicified. Silicification with minor kfeldspar alteration.					
337.95	348.10	SANDSTONE cream, medium grained, massive bedded, crystal lithic. Quartz feldspar crystal sandstone, quartz grains 8mm subrounded. Lithics are subrounded and include fine grained felsic lava and quartz porphyry.. CONTACT: conformable abrupt	moderately silicified, slightly chloritised, slightly sericitised	STRINGER trace sphalerite. Trace of red brown sphalerite in veinlets.	340			
348.10	370.80	SANDSTONE cream, coarse grained, massive, crystal lithic. Sandstone beds upto 200mm thick. Lithics are predominantly of quartz porphyritic rhyolite. Groundmass of quartz and feldspar crystals (<5mm diameter) and sericite.. CONTACT: conformable abrupt INTERBEDDED WITH SANDSTONE cream grey, medium grained, bedded, lithic. Fine to medium grained greywacke sandstone, poorly bedded with some soft sediment disruption, slightly calcareous and flecked with dark grey siltstone fragments. INTERBEDDED WITH SILTSTONE black, fine grained, bedded laminated. Siltstone with abundant micro fractures filled with carbonate/ quartz/ sphalerite. Fracturing caused by proximity to the Rosebery Fault?	moderately carbonatised. Black siltstone with abundant calcite veinlets could be alteration or sweat outs from calcareous siltstone? Minor sericite pyrite alteration occurs in sandstone beds within the interval.	VEIN 1% sphalerite in veinlets. Network of irregular sphalerite/carbonate/quartz veinlets. Sphalerite pale brown to straw coloured. in some 2m intervals may be up to 4%. Disrupted laminae of fine grained pyrite between 381.70-382.90m and 389.00-389.20m.	350 360		PRIMARY FABRIC facing downhole grading downhole FIRST CLEAVAGE 090 FAULT 068 FAULT 035 FIRST CLEAVAGE 085	

5 cm

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole No. EAF2

PROJECT:

Vertical Scale 1 : 200

DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
348.10	370.80	SANDSTONE cream, coarse grained, massive, crystal lithic. Sandstone beds upto 200mm thick. Lithics are predominantly of quartz porphyritic rhyolite. Groundmass of quartz and feldspar crystals (<5mm diameter) and sericite.. CONTACT: conformable abrupt INTERBEDDED WITH SANDSTONE cream grey, medium grained, bedded, lithic. Fine to medium grained greywacke sandstone, poorly bedded with some soft sediment disruption, slightly calcareous and flecked with dark grey siltstone fragments.	moderately carbonatised. Black siltstone with abundant calcite veinlets could be alteration or sweat outs from calcareous siltstone? Minor sericite pyrite alteration occurs in sandstone beds within the interval.	VEIN 1% sphalerite in veinlets. Network of irregular sphalerite/carbonate/quartz veinlets. Sphalerite pale brown to straw coloured, in some 2m intervals may be up to 4%. Disrupted laminae of fine grained pyrite between 381.70-382.90m and 389.00-389.20m.	370			
370.80	395.20	INTERBEDDED WITH SILTSTONE black, fine grained, bedded laminated. Siltstone with abundant micro fractures filled with carbonate/ quartz/ sphalerite. Fracturing caused by proximity to the Rosebery Fault? SILTSTONE black, fine grained, massive laminated. Primary layering may have been disrupted by soft sediment and later deformation. Siltstones are veined with abundant calcite and the unit may have originally been a calcareous siltstone, a fine grained limestone lense occuring at 385.7m. At 382.15m a disrupted/boudinaged pyrite lense occurs (<15mm wide).. CONTACT: conformable abrupt WITH MINOR SANDSTONE cream, medium grained coarse grained, massive, crystal lithic WITH MINOR SANDSTONE dark grey, medium grained, massive, crystal. Quartz and feldspar crystals set in a black siltstone matrix.			380			FIRST CLEAVAGE A1 D25 FIRST CLEAVAGE A2 D25 FIRST CLEAVAGE D30
					390			

5 cm

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole No. EAF2

PROJECT:

Vertical Scale 1 : 200

Page of 1

DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
370.80	395.20	SILTSTONE black, fine grained, massive laminated. Primary layering may have been disrupted by soft sediment and later deformation. Siltstones are veined with abundant calcite and the unit may have originally been a calcareous siltstone, a fine grained limestone lense occuring at 385.7m. At 382.15m a disrupted/boudinaged pyrite lense occurs (<15mm wide).. CONTACT: conformable abrupt	moderately carbonatised. Black siltstone with abundant calcite veinlets could be alteration or sweat outs from calcareous siltstone? Minor sericite pyrite alteration occurs in sandstone beds within the interval.	VEIN 1% sphalerite in veinlets. Network of irregular sphalerite/carbonate/quartz veinlets. Sphalerite pale brown to straw coloured, in some 2m intervals may be up to 4%. Disrupted laminae of fine grained pyrite between 381.70-382.90m and 389.00-389.20m.				
395.20	400.45	WITH MINOR SANDSTONE cream, medium grained coarse grained, massive, crystal lithic						FAULT RS
		WITH MINOR SANDSTONE dark grey, medium grained, massive, crystal. Quartz and feldspar crystals set in a black siltstone matrix.	slightly silicified, slightly sericitised		400			
400.45	401.40							
401.40	407.00	SANDSTONE MIXED WITH CONGLOMERATE cream, medium grained fine grained, massive, crystal lithic. Quartz feldspar crystal sandstone. Clasts are more intensely silicified and may represent differences in alteration domains.. CONTACT: gradational	moderately silicified					
		SILTSTONE black, fine grained, cleaved, lithic. Primary layering in siltstone difficult to define due to tectonic disruption.. CONTRACT: conformable abrupt						
407.00	409.70	SANDSTONE cream grey, medium grained coarse grained, massive, crystal lithic. Quartz feldspar crystal lithic sandstone. It is difficult to determine the exact protolith due to silicification, fine grained grey silicified zones may have been black siltstone. It is more than likely the same lithology as the underlying unit but with different alteration style.. CONTACT: conformable abrupt		VEIN sphalerite. 1cm thick quartz carbonate sphalerite vein @ 45LCA.				
409.70	420.40	SANDSTONE MIXED WITH SILTSTONE cream grey, medium grained coarse grained, brecciated, crystal lithic. Sandstone mixed with black silstone, this may be a combination of tectonic and soft sediment mixing. Siltstone frequently occuring as stylolitic shreds/veinlets.. CONTACT: gradational	slightly silicified		410			
		SANDSTONE MIXED WITH CONGLOMERATE cream, medium grained coarse grained, brecciated, crystal lithic. Quartz feldspar crystal with pumice? and fine grained felsic clasts. The clast may be a product of sandstone brecciation?. CONTACT: gradational						

5 cm

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole No. EAF2

PROJECT:

Vertical Scale 1 : 200

Page of 1

DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
409.70	420.40				420			
420.40	434.00	SANDSTONE MIXED WITH CONGLOMERATE cream, medium grained coarse grained, brecciated, crystal lithic. Quartz feldspar crystal with pumice? and fine grained felsic clasts. The clast may be a product of sandstone brecciation?. CONTACT: gradational	moderately silicified					
		SILTSTONE black, fine grained, bedded. Siltstone thin bedded, bedding frequently tectonically disrupted, abundant irregular quartz carbonate veinlets.. CONTACT: gradational	moderately carbonatised. Black siltstone with abundant calcite quartz veinlets, may be alteration or sweat outs from calcareous siltstone.					
		INTERBEDDED WITH LIMESTONE grey, fine grained, bedded massive. Abundant calcite veinlets as irregular fracture fillings.						
					430			FIRST CLEAVAGE D72
		ACID VOLCANICLASTIC cream, fine grained coarse grained, brecciated, crystal lithic. Silica/sericite alteration obliterating primary textures. Lithics? include fine grained felsics and silicified siltstone.. CONTACT: gradational	moderately silicified					
434.00	467.20	MIXED WITH SILTSTONE grey, fine grained. Siltstone dark grey unaltered to pale grey silicified cherty.	slightly silicified, slightly sericitised					
		WITH MINOR CONGLOMERATE cream, medium grained. Clasts angular to sub-rounded fine grained felsics, matrix quartz crystals and sericite.						
					440			
			highly silicified	VEIN 0.5% sphalerite in veinlets. Sphalerite veinlets associated with silicification.				

5 cm

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole No. EAF2

PROJECT:

Vertical Scale 1 : 200

FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION
434.00	467.20	ACID VOLCANICLASTIC cream, fine grained coarse grained, brecciated, crystal lithic. Silica/sericite alteration obliterating primary textures. Lithics? include fine grained felsics and silicified siltstone.. CONTACT: gradational MIXED WITH SILTSTONE grey, fine grained. Siltstone dark grey unaltered to pale grey silicified cherty. WITH MINOR CONGLOMERATE cream, medium grained. Clasts angular to sub-rounded fine grained felsics, matrix quartz crystals and sericite.	highly silicified slightly silicified, slightly sericitised	VEIN 0.5% sphalerite in veinlets. Sphalerite veinlets associated with silicification.
		SILTSTONE black, fine grained, brecciated. Tectonically disrupted with stockwork of quartz calcite pyrite veinlets which form 20% of the rock.. CONTACT: conformable abrupt INTERBEDDED WITH SANDSTONE cream, medium grained, massive, crystal lithic. Quartz feldspar crystal plus lithics set in sericitic groundmass.		
		FAULT ZONE (PUG) grey, sheared. Silica/sericite altered felsic volcanics/sandstone/limestone fragments in a black siltstone/clay/sericite pug matrix.. CONTACT: faulted		
		SANDSTONE cream brown, medium grained fine grained, massive, crystal lithic. Quartz crystal and lithic granule (limestone) sandstone, 1mm grainsize, equigranular, spotted with leucoxene. Lithics 1mm angular of fine grained occasionally porphyritic felsic.	slightly silicified, moderately sericitised	
467.20	469.60	*INTERBEDDED WITH CONGLOMERATE cream, medium* grained, massive. Matrix supported, lithics include pumice breccia/fine grained felsic lava/siltstone.	slightly sericitised. Abundant leucoxene? spotting between 480.00 - 487.00m in sandstone.	VEIN trace sphalerite in veinlets trace pyrite in veinlets
469.60	472.50	INTERBEDDED WITH SILTSTONE CONTAINING LAMINAE OF SANDSTONE grey, fine grained fine grained, laminated. Silstones slightly micaceous. Unit may represent the fine top of a mass flow.		
472.50	491.80	WITH MINOR MASS FLOW cream, medium grained, sheared, crystal lithic. Mass flow between 488.15-489.80m. Clasts are angular and include sericitized pumice/fine grained felsic lava/black siltstone/silicified sandstone. Matrix comprises quartz crystals and sericite.		

GRAPHIC

Depth | Lith | Struct | STRUCTURES

450

460

470

fz

FIRST CLEAVAGE D55 spaced

FIRST CLEAVAGE D70 spaced

FIRST CLEAVAGE D85 spaced

FAULT A70 breccia

FAULT D45 shear

FAULT D70 shear

PRIMARY FABRIC A60

5 cm

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOG

Hole No. EAF2

PROJECT:

Vertical Scale 1 : 200

DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
472.50	491.80	SANDSTONE cream brown, medium grained fine grained, massive, crystal lithic. Quartz crystal and lithic granule (limestone) sandstone, 1mm grainsize, equigranular, spotted with leucoxene. Lithics 1mm angular of fine grained occasionally porphyritic felsic. INTERBEDDED WITH CONGLOMERATE cream, medium grained, massive. Matrix supported, lithics include pumice breccia/fine grained felsic lava/siltstone. INTERBEDDED WITH SILTSTONE CONTAINING LAMINAE OF SANDSTONE grey, fine grained fine grained, laminated. Silstones slightly micaceous. Unit may represent the fine top of a mass flow. WITH MINOR MASS FLOW cream, medium grained, sheared, crystal lithic. Mass flow between 488.15-489.80m. Clasts are angular and include sericitized pumice/fine grained felsic lava/black siltstone/silicified sandstone. Matrix comprises quartz crystals and sericite.	slightly sericitised. Abundant leucoxene? spotting between 480.00 - 487.00m in sandstone.		480			PRIMARY FABRIC A0 PRIMARY FABRIC A15 FIRST CLEAVAGE D75 spaced FIRST CLEAVAGE D85 spaced PRIMARY FABRIC A35
491.80	498.30	CHERT grey, fine grained, brecciated. Unknown protolith, comprising two components, dark grey/fine grained/slightly brecciated/silicified and white spotty carbonatization. INTERBEDDED WITH MASS FLOW cream, medium grained, bedded, lithic. Clasts of pumice/dark grey siltstone/fine grained felsic/pyrite in a silicified matrix.		DISSEMINATED trace pyrite VEIN quartz in veins carbonate in veins. Vein L0LCA DISSEMINATED trace pyrite DISSEMINATED trace pyrite trace sphalerite in veinlets	490	mf		
498.30	499.50	SANDSTONE grey, fine grained, massive sheared. Silica sericite alteration obliterates most of the primary textures.			500			

5 cm