PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
EAF6 EXT

DRILLING

Location	BROWNS TUNNEL
Project	BURNS PEAK
Prospect	BROWNS TUNNEL
Design By	PMQ
Logged By	PMQ
Relogged	
Commenced	30 March 1996
Completed	3 April 1996
Drilled By	East Coast Drilling
Drill Rig	LM38

OBJECTIVE

EAF6 was extended from 102.4m to test the continuation of mineralization intersected in EAF9 thought to be downhole of existing drill hole.

RESULT

Low tenor mineralization was intersected in the andesite position.

COLLAR SURVEY (AMG)

AMG mN	5384639.0	Bearing	281.0
AMG mE	377745.0	Dip	-45.0
mN		Hole Length	197.0
mE		DH Survey Type	eastman single shot
RL	482.0		

DOWNHOLE SURVEY (AMG)

Depth	Bearing	Dip
0.0	-45.00	281.00
51.0	-45.00	279.00
102.4	-45.00	276.00
133.0	-45.75	279.50
163.0	-45.00	280.00
190.0	-43.50	281.00

SIGNIFICANT CORE LOSS

POOR GROUND CONDITION ZONES

HOLE SIZE

From	To	Size
102.4	197	NQ

HOLE CONDITIONS AFTER COMPLETION

Collar	CAPPED
Steel Casing	YES
PVC Casing	NIL
Ground Water	
Wedge	NIL
Drill Pad	CLEARED AND SUMP FILLED IN

SIGNIFICANT INTERSECTIONS

From	To	Int	Cu	Pb	Zn	Ag	Au	Comments
0	0	21.3			2.1%			

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PHYSICAL PROPERTIES / RECOVERIES

Depth	Rec %	Mag	SG	Formn	Lith
103.20	100	0.02		BTS	Lr
105.90	100	0.04		BTS	Lr
107.70	106	0.02		BTS	Lr
110.20	96	0.02		BTS	Lr
114.20	100	0.14		BTS	Lr
116.00	100	0.01		BTS	Ln
118.20	95	0.06		BTS	Ln
121.20	100	0.03		BTS	Ln
124.20	97	0.01		BTS	Ln
127.20	100	0.03		BTS	Ln
130.20	100	0.04		BTS	Ln
133.20	100	0.06		BTS	Ln
136.20	100	0.01		BTS	Ln
139.20	100	0.03		BTS	Ln
141.90	100	0.10		BTS	Ln
145.00	100	0.13		BTS	Ln
148.10	100	0.17		BTS	Ln
151.20	97	0.08		BTS	Ln
154.20	72	0.22		BTS	Ln
157.20	100	0.26		BTS	Ln
160.20	100	0.14		BTS	Ln
163.20	100	0.11		BTS	Ln
166.20	100	0.08		BTS	Ln
169.20	100	0.15		BTS	Ln
172.20	100	0.08		BTS	Ln
175.20	100	0.10		BTS	Ln
178.20	100	0.09		BTS	Ln
181.20	100	0.12		BTS	sst
184.20	100	0.10		BTS	sh
187.20	100	0.08		BTS	Ln
189.20	100	0.05		PR	Ln
192.20	100	0.06		PR	Lr
195.30	100	0.09		PR	Lr

Depth	Rec %	Mag	SG	Formn	Lith
197.00	100	0.05		PR	Lr

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PROJECT:

Vertical Scale 1 : 150

DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
0.00	14.50	BRECCIA. poorly sorted coarse grained breccia comprising rhyolitic lava and grey shale clasts.						
14.50	20.00	SANDSTONE. irregular pumiceous clastic, possibly mass flow incorporating shale clasts, possibly part of a upwards fining mass flow.						
20.00	39.00	SANDSTONE. volcaniclastic sandstone rhyolite derived with minor shale pumice and pyrite clasts.						

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20.00	39.00	SANDSTONE. volcaniclastic sandstone rhyolite derived with minor shale pumice and pyrite clasts.						
39.00	41.60	PUMICEOUS MASS FLOW. pumiceous sandstone with abundant 3mm shale clasts.						
41.60	44.80	CHERT. tan-grey massive to laminated cherty siltstone.						

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FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
41.60	44.80	CHERT. tan-grey massive to laminated cherty siltstone.						
44.80	46.30	BRECCIA. polymict breccia comprising predominantly chert clasts with pumice clasts and sphalerite clasts.						
46.30	48.10	CHERT. grey massive to laminated cherty siltstone.						
48.10	48.90	BRECCIA. cherty breccia						
48.90	53.60	BRECCIA. breccia cherty siltstone.			50			
53.60	57.00	BRECCIA. cherty breccia						
57.00	59.40	MASSIVE SULPHIDE. in cherty siltstone				m/s		
59.40	74.50	CHERT. massive to brecciated cherty siltstone.			60			

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FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
59.40	74.50	CHERT. massive to brecciated cherty siltstone.						
74.50	84.20	BRECCIA. lava breccia.						

70

80

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DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
84.20	102.40	BRECCIA. lava breccia. RHYOLITE. quartz phyric rhyolite lava, sill? of Pinnacles Rhyolite.			90 100			
102.40	115.30	RHYOLITE buff, massive, quartz phyric feldspar phyric. massive in part but with autobrecciation inpart with flow banded clasts.. CONTACT: conformable abrupt	moderately sericitised, slightly silicified					

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DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
102.40	115.30	RHYOLITE buff, massive, quartz phyric feldspar phyric. massive in part but with autobrecciation inpart with flow banded clasts.. CONTACT: conformable abrupt	moderately sericitised, slightly silicified					BROKEN CORE
			highly carbonatised. massive fine grained straw coloured manganese carbonate alteration. (Could this be the altered fringe of the rhyolite that is replaced by massive sphalerite? elsewhere.)		110			PRIMARY FABRIC A45
115.30	128.60	ANDESITE MIXED WITH CHERT blue grey, peperitic. cherty shale comprises 60% of rock, and is finely laminated in part. The andesite is chlorite/sericite/pyrite altered and displays classical peperite textures.. CONTACT: gradational	moderately silicified, moderately sericitised. intense cherty alteration in fine grained sediment part, and waxy green sericite alteration in lava part of peperite.	STRINGER abundant sphalerite as stringers minor chalcopyrite as stringers. coarse grained red-brown sphalerite and chalcopyrite possibly replacing fine grained gun-metal grey galena/sphalerite nucleating in fine fractures in the cherty altered fine grained sediment part of peperite.				PRIMARY FABRIC A50
					120			
				STRINGER minor sphalerite as stringers minor pyrite disseminated. similar occurance to above interval, but less abundant. Minor band of spotty fine grained semi-massive pyrite apparetntly replacement of sphalerite.				FAULT A70 pug

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FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
115.30	128.60	ANDESITE MIXED WITH CHERT blue grey, peperitic. cherty shale comprises 60% of rock, and is finely laminated in part. The andesite is chlorite/sericite/pyrite altered and displays classical peperite textures.. CONTACT: gradational	moderately silicified, moderately sericitised. intense cherty alteration in fine grained sediment part. and waxy green sericite alteration in lava part of peperite.	STRINGER minor sphalerite as stringers minor pyrite disseminated. similar occurance to above interval, but less abundant. Minor band of spotty fine grained semi-massive pyrite appareteatly replacement of sphalerite.				
128.60	140.90	ANDESITE MIXED WITH CHERT buff grey, peperitic. Cream massive carbonate sericite altered andesite comprises 80% of rock with blue grey cherty mineralized silica occuring as irregular veins and breccia fill. The andesite contains common quartz grains, possibly silica filled vesicles, abundant sericite altered feldspars and possibly hornblends, and abundant fine grained sericite-sphalerite-leucoxene, and frequent pseudo-clasts of less altered andesite.. CONTACT: conformable abrupt	moderately carbonatised, moderately silicified, slightly sericitised. blue grey cherty alteration in irregular veins or fracture infill between fragmented straw coloured manganese carbonate altered volcanics	STRINGER abundant sphalerite as stringers minor galena as stringers. coarse grained red brown sphalerite apparently replaced fine grained gunmetal grey fine sulphides nucleated on fractures in silicified sediment part of peperte.	130			
140.90	152.40	ANDESITE MIXED WITH CHERT buff, hyaloclastitic. Textures are more like hyaloclastite with preferential silica alteration of finer fraction, and mineralized silica infilling. Andesite is sericite altered.. CONTACT: conformable abrupt	moderately silicified, moderately sericitised, slightly carbonatised. blue grey cherty alteration in sediment part and waxey green sericite alteration in fragmented volcanic part of peperite.	STRINGER minor sphalerite as stringers minor galena as stringers. coarse grained red brown sphalerite and coarse grained galena interstitial to fragmental volcanics.	140			

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DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
140.90	152.40	ANDESITE MIXED WITH CHERT buff, hyaloclastitic. Textures are more like hyaloclastite with preferential silica alteration of finer fraction, and mineralized silica infilling. Andesite is sericite altered.. CONTACT: conformable abrupt	moderately chloritised, slightly sericitised, slightly silicified. dark green chlorite appears to have replaced sericite.	STRINGER minor sphalerite as stringers minor galena as stringers. coarse grained red brown sphalerite and coarse grained galena interstitial to fragmental volcanics.	150			
152.40	162.50	ANDESITE pale pink, massive. Massive silicified volcanic, feldspar and hornblende phyric, with abundant leucoxene. Lithogeochemical and petrological samples taken.. CONTACT: faulted	highly silicified. massive pink fine grained siliceous alteration. moderately chloritised, moderately silicified. patchy dark green chlorite alteration overprinting? massive fine grained pink silicification? moderately silicified, slightly chloritised. massive pink fine grained siliceous alteration.	VEIN very minor sphalerite on fractures very minor galena on fractures	160			FAULT A40 breccia
162.50	169.20	ANDESITE dark green, hyaloclastitic. highly altered fragmental mafic to intermediate volcanic.. CONTACT: gradational	moderately carbonatised. moderately chloritised. dark green chlorite appears to be replacing manganoan carbonate alteration.					FIRST CLEAVAGE A40

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FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
162.50	169.20	ANDESITE dark green, hyaloclastitic. highly altered fragmental mafic to intermediate volcanic.. CONTACT: gradational	moderately carbonatised. moderately chloritised. dark green chlorite appears to be replacing manganoan carbonate alteration.					
169.20	170.00	ANDESITE pale green, fine grained, massive, vesicles.						
170.00	172.30	Start of vesicular andesite fine grained fucsitic peperitic distinct correlatable. ANDESITE MIXED WITH CHERT, perlitic. Irregular mix of volcanic with distinct perlitic fracture, pumiceous volcanic and cherty altered shale to sandstone.. CONTACT: faulted			170			
172.30	173.90	ANDESITE pale green, fine grained, massive perlitic, vesicles. Distinct vesicular texture in part, also minor vesicles overprinted by perlitic fracture.. CONTACT: gradational	slightly silicified. slightly carbonatised. minor silicification in fine grained sediments and minor patchy carbonate emanation from fine fractures.					BEDDING A60 younging downhole
173.90	174.40							
174.40	178.50	SANDSTONE, coarse grained, upwards fining sequence, polymict. Graded (downhole) from 2 to 5mm poorly sorted angular basal zone to fine grained siltstone.. CONTACT: gradational ANDESITE, perlitic, pumiceous vesicles. Zone of irregular fragmented vesicular andesite, pumiceous and perlitic component indicates interaction at periphery of flow, classic peperite margin at top 30cms.. CONTACT: gradational						
178.50	179.00							BEDDING A60
179.00	180.20	SANDSTONE grey, bedded, polymict. CONTACT: gradational		CLAST very minor pyrite massive. sparse 2 to 5mm spots of very fine grained massive pyrite in reworked volcanics in part. and associated with sacharoidal calcite in part.				BEDDING A45
180.20	181.40	BRECCIA grey, upwards fining sequence poorly sorted, polymict. Zone with coarse 2 to 50mm chert and shale clasts grading downhole.. CONTACT: gradational	moderately fuchsitic. slightly silicified. slightly carbonatised. abundant fuchsite in andesite fragments. cherty silicification of fine grainde sediments. and manganoan carbonate altered volcanic fragments.		180			
181.40	182.30	SANDSTONE MIXED WITH ANDESITE, peperitic. Zone with sparse ragged andesite fragments in irregular sandstone.. CONTACT: faulted						
182.30	185.00	SANDSTONE grey, massive. note coalescing blebby silica grains?. CONTACT: gradational						BEDDING A60
185.00	188.30	SHALE black, massive. with increasing peperitic andesite component downhole.. CONTACT: pp ANDESITE MIXED WITH SHALE pale green, peperitic, vesicles. distinct fucsitic vesicular andesite, massive in part and peperitic in part.. CONTACT: conformable abrupt		VEIN trace sphalerite on fractures. trace coarse grained red sphalerite associated with calcite.				
188.30	197.00	RHYOLITE pink, massive, quartz phyric feldspar phyric. Typical Pinnacles Rhyolite.	slightly silicified. siliceous margin to Pinnacles Rhyolite.					

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188.30	197.00	RHYOLITE pink, massive, quartz phyric feldspar phyric. Typical Pinnacles Rhyolite.	slightly silicified. siliceous margin to Pinnacles Rhyolite.		190			
					200			
					210			