

PASMINGO EXPLORATION DIAMOND DRILL HOLE LOG

Hole ID
AD4

DRILLING		OBJECTIVE	COLLAR SURVEY (AMG)											
Location	LUINA EL 17/93	To test mineralisation continuity between a massive Zn-Pb-Au intercept in AD2 and anomalous Pb-Zn (-Au) rock chip geochemistry exposed in the 100S costean at Arthur Dam grid.	5406863.2m N 369466.6m E											
Project	ARTHUR DAM													
Prospect	N.K. McGunnigle													
Design By	D. Gardner													
Logged By														
Relogged														
Commenced														
Completed														
Drilled By	A.T.E.													
Drill Rig	A.T.E. Gopher Rig													
		RESULT	DOWNHOLE SURVEY (AMG)											
		Results were disappointing. Intersections include a 0.1m vein of massive sphalerite-galena and 1m zone of quartz-carbonate with fine stringers of sphalerite-galena.	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><i>depth</i></th> <th style="text-align: left;"><i>Azimuth (AMG)</i></th> <th style="text-align: left;"><i>Dip</i></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">47.7m</td> <td style="text-align: center;">142.0</td> <td style="text-align: center;">-71</td> </tr> <tr> <td style="text-align: center;">97.7m</td> <td style="text-align: center;">142.5</td> <td style="text-align: center;">-71.5</td> </tr> </tbody> </table>			<i>depth</i>	<i>Azimuth (AMG)</i>	<i>Dip</i>	47.7m	142.0	-71	97.7m	142.5	-71.5
<i>depth</i>	<i>Azimuth (AMG)</i>	<i>Dip</i>												
47.7m	142.0	-71												
97.7m	142.5	-71.5												
SIGNIFICANT CORE LOSS	POOR GROUND CONDITION ZONES													
HOLE SIZE	HOLE CONDITIONS AFTER COMPLETION													
SIGNIFICANT INTERSECTIONS														

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DIAMOND DRILL HOLE LOG

Hole No.

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PROJECT:

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DESCRIPTION			GRAPHIC					
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
0.00	2.90	INTERMEDIATE LAVA , BASIC LAVA WITH MINOR INTERMEDIATE VOLCANICLASTIC brown grey, medium grained fine grained, cleaved. oxidised lava? and volcaniclastics?. CONTACT: indistinct	moderately oxidised, moderately sericitised		0			
2.90	3.40	INTERMEDIATE VOLCANICLASTIC black grey, fine grained, bedded. fg bedded? ash. CONTACT: conformable mixed	highly sideritic, moderately chloritised, slightly sericitised. carbonate alteration is recorded as siderite as the carbonate oxidises quickly, and only reacts to acid when powdered					FAULT pug FIRST CLEAVAGE A70 FAULT A70 pug PRIMARY FABRIC A50
3.40	6.20	INTERMEDIATE LAVA cream black, medium grained, porphyritic, feldspar phyrlic hornblende phyrlic. lava, intermediate feldspar hornblende (pyroxene?) phyrlic with pervasive Fe? carbonate alteration. CONTACT: conformable mixed	moderately chloritised, slightly sideritic, some minor siderite spotting	DISSEMINATED minor pyrite on fractures minor as stringers. pyrite on fractures, between breccia fragments, and in fine stringers. Rare chalcocopyrite eg 8.9m in siderite vein				FAULT pug VEIN A5 carbonate quartz
6.20	13.00	INTERMEDIATE LAVA , BASIC LAVA WITH MINOR INTERMEDIATE VOLCANICLASTIC black, fine grained, massive. massive fg black lava, some patches of brecciation and/or clastics. CONTACT: gradational	moderately chloritised, moderately sideritic. siderite spotting increases, fuchsite? spots at 10.4m		10			VEIN
13.00	16.80	INTERMEDIATE LAVA , BASIC LAVA AND BRECCIA black grey, fine grained very coarse grained, brecciated. lava becoming increasingly brecciated downhole (small patch matrix supported at 16.2m) fine pervasive carbonate alteration (reacts when powdered) and some carbonate replacement of fine feldspar? phenocrysts. CONTACT: indistinct	highly sericitised, moderately chloritised, some fuchsite? spotting					
16.80	19.90	INTERMEDIATE LAVA green cream, fine grained medium grained, cleaved porphyritic, hornblende phyrlic feldspar vitric. strongly cleaved originally felsic? lava now strongly sericite altered, fine hornblende phenocrysts (to 0.5mm) altered to sericite/chlorite, some epidote? and/or fuchsite? alteration. CONTACT: indistinct	highly sideritic, slightly chloritised, pervasive siderite alteration as well as spotting					
19.90	21.10	INTERMEDIATE LAVA grey white, medium grained, porphyritic, feldspar phyrlic hornblende phyrlic vitric. much coarser less altered and less cleaved lava than the above interval, some fine pervasive carbonate still. CONTACT: gradational	slightly chloritised, slightly sericitised, slightly sideritic	DISSEMINATED trace pyrite on fractures	20			FIRST CLEAVAGE A45 strong
21.10	25.40	BRECCIA CONTAINING CLASTS OF INTERMEDIATE LAVA grey black, fine grained very coarse grained, brecciated, feldspar phyrlic hornblende phyrlic vitric. fg lava clasts (mainly jigsaw fit, clast supported) some coarser grained clasts (f hb phyrlic) toward the bottom of the interval (these clasts similar to the lithologies above and below this interval). CONTACT: gradational	highly sideritic, moderately chloritised, moderately sericitised, alteration, especially carbonate increases in the coarser grained, more permeable? units					
25.40	29.70	INTERMEDIATE LAVA grey, medium grained, porphyritic, feldspar phyrlic hornblende phyrlic vitric. v similar to the interval 19.9-21.1m, and AD2 136m. CONTACT: indistinct						

5 cm

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25.40	29.70	INTERMEDIATE LAVA grey, medium grained, porphyritic, feldspar phyrlic hornblende phyrlic vitric. v similar to the interval 19.9-21.1m, and AD2 136m. CONTACT: indistinct	highly sideritic, moderately chloritised, moderately sericitised. alteration, especially carbonate increases in the coarser grained, more permeable? units		30		
29.70	42.80	BASALT grey black, fine grained, massive, feldspar phyrlic. fg intermediate-basic lava, small f phenocrysts altered to Fe? cabonate in places, rock varies from black to light grey due to alteration fronts spreading out from fractures etc.. CONTACT: indistinct	slightly sideritic, slightly chloritised. increase in carbonate spotting after 34.5		40	Lba	
42.80	56.50	INTERMEDIATE LAVA , INTERMEDIATE VOLCANICLASTIC ALTERATION ZONE DEFORMED ZONE grey, medium grained, cleaved, vitric. strongly cleaved and altered (sericite, chlorite, some carbonate) volcanics, probably mostly mg lavas. Several shear/fault zones. CONTACT: indistinct	moderately sideritic, moderately sericitised. significant epidote alteration, some of this may be fuchsite highly sideritic, highly sericitised. moderately chloritised. strong alteration	DISSEMINATED galena minor pyrite in veins. fine quartz and quartz carbonate veins (often at low angles to LCA) possible minor chalcopyrite and sphalerite VEIN 2% haematite. quartz veining and specular hematite (brown/red streak). some green staining that looks alot like oxidised copper?? MASSIVE 20% galena in veins 5% sphalerite. some oxidised copper in vein, hematite/sphalerite percentages may vary, vein gangue is quartz DISSEMINATED pyrite in veins minor on fractures	50		FIRST CLEARVAGE 450 strong

5 cm

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42.80	55.50	INTERMEDIATE LAVA , INTERMEDIATE VOLCANICLASTIC ALTERATION ZONE DEFORMED ZONE grey, medium grained, cleaved, vitric. strongly cleaved and altered (sericite, chlorite, some carbonate) volcanics, probably mostly mg lavas. Several shear/fault zones. CONTACT: indistinct	highly sideritic, highly sericitised, moderately chloritised. strong alteration	DISSEMINATED pyrite in veins minor on fractures	60	Vi		FIRST CLEAVAGE #50 strong
56.90	59.40		only very weak alteration, some of the carbonate veinings have altered to clays	STRINGER galena pyrite. stringers of sulphide in a quartz carbonate vein (some sphalerite may be siderite or hematite).		m/a		VEIN quartz carbonate galena
59.40	60.80	INTERMEDIATE VOLCANICLASTIC , INTERMEDIATE LAVA black, fine grained, massive. ash (or lava?) slightly brecciated in places may grade into interval below (bleaching). CONTACT: gradational	quartz carbonate		70			FIRST CLEAVAGE strong
60.80	68.90	INTERMEDIATE VOLCANICLASTIC , INTERMEDIATE LAVA grey, fine grained, massive. ash (or lava?) brecciated in places, quite pyritic MINERALISATION/ALTERATION white grey. quartz-carbonate veining with stringers of pyrite/sphalerite/galena	moderately chloritised, moderately sericitised, moderately sideritic. some of the carbonate alteration has decayed to clay	DISSEMINATED minor galena in veins. carbonate vein at 5-10 to LCA				
68.90	97.70	INTERMEDIATE LAVA , INTERMEDIATE VOLCANICLASTIC , ALTERATION ZONE grey green, medium grained, cleaved. similar to interval 42.8-56.5m strongly cleaved and altered (sericite, chlorite, some carbonate) variations in apparent grain size may well be due to alteration, possible amygdales? 64.6-65m with carbonate (to clays?) rims. CONTACT: gradational INTERMEDIATE LAVA , BASIC LAVA WITH MINOR INTERMEDIATE VOLCANICLASTIC grey green, medium grained fine grained, massive porphyritic, hornblende phyric feldspar phyric. fg-mg andesite-basalt lavas, with small amounts of fg clastics (some fragments are bedded, suggestions of So in some places in core. Many of the differences in grain size and colour may be due to alteration high lighting some phenocrysts or areas of matrix	moderately chloritised, slightly sideritic, slightly sericitised. dark green, the matrix altered to clays in places, there is still pervasive fine carbonate, which is now often calcite	DISSEMINATED galena minor pyrite in veins. sulphides in 2cm vein parallel to LCA	80			FIRST CLEAVAGE

5 cm

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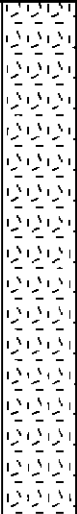
PASMINCO EXPLORATION

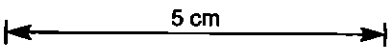
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FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	
68.90	97.70	INTERMEDIATE LAVA , BASIC LAVA WITH MINOR INTERMEDIATE VOLCANICLASTIC grey green, medium grained fine grained, massive porphyritic, hornblende phyric feldspar phyric. fg-mg andesite-basalt lavas, with small amounts of fg clastics (some fragments are bedded,suggestions of S ₀ insome places in core. Many of the differences in grain size and colour may be due to alteration high lighting some phenocrysts or areas of matrix	moderately chloritised, slightly sideritic, slightly sericitised, dark green, the matrix altered to clays in places, there is still pervasive fine carbonate, which is now often calcite	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> DISSEMINATED minor pyrite in veins. 1cm carbonate quartz vein sub-parallel to LCA, possible galena and chalcopyrite </div> DISSEMINATED trace pyrite. rare pyrite generally associated with veining	90		FIRST CLEAVAGE
					100		
					110		



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