

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	HPD 1	Project	Lake Barrington
Hole Type	DIAMOND	Transect No	E-898
Year	2000	Prospect	HEREFORD
Geologist	KPD	Date	17-10-2000

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
0							0.0 - 3.7m Pre-collar		
5							3.7 - 7.5m Fresh, competent Tertiary Basalt;		
10							7.5 - 12.7m Lathesman low magnetic susceptibility		
15							3.7 - 51.0m - low magnetic susceptibility.  12.7 - 36.7m Gray-green fine grained homogeneous andesitic volcanic. Breccia with 1-2m feldspar rare - common and dark chlorite wisps are presumably after a mafic phase. The rocks are weathly altered resulting in elongate of the chlorite fragments. Almost certainly on andesite lava.		
20							20.2m Base of Total oxidat-		

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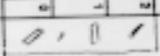
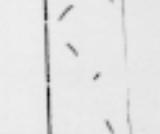
Hole ID	HPD 1	Project	Lake Barrington
Hole Type	DIAMOND	Tenement No	
Year	Y2K	Prospect	HEREFORD
Geologist	KTD	Date	30-10-2000

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralization
	Code	Colour							
10									
25									Chlorite veinlets 
30									
35									
40							36.7 - 40.3m dark green subvol Feldspar (0.5-2.5mm) phytic andesite lava. Chlorite occurs as 1-2mm flecks (often a mafic phase?) and as thin veinlets		

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PASMINCO EXPLORATION

Hole ID	HPD 1	Project	Lake Barrington
Hole Type	DIAMOND	Taxation No	EL 3/98
Year	Y2K	Prospect	HEREFORD
Geologist	KPD	Date	30-10-2000

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralization
	Code	Colour							
40	167						403-67.7m		
	631						Green-gray variably porphyritic andesite lava, typically the unit is fine grained with minor feldspars and chlorite (after a mafic phase) but locally 2-3mm euhedral feldspar phenocrysts andesite lava.	limonite (after pyrite)	lim
45							From 42-52m the unit is cut by <sup>limonite</sup> jagged discontinuous veinlets to 10mm wide and similar shape-size pale orange carbonate veinlets (= same vein set).		lim cb cb
	632								lim cb cb
50									lim cb cb
	633						From 52m abundant discontinuous carbonate veinlets.		lim cb cb
55									lim cb cb
	634						510-785m - moderate magmatic sericophylite		lim cb cb
60									lim cb cb



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PASMINCO EXPLORATION

Hole ID	HPD 1	Project	Lake Barrage
Hole Type	DIAMOND	Transect No	EL 3/18
Year	42K	Prospect	HEREFORD
Geologist	KPD	Date	30/10/2000

S/18

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
80							<p>79.5 - 89.1m Pink-green K-feldspar/chlorite altered feldspar quartz lithic sandstone conglomerate. Apparent uphole facies. Feldspars are typically 1-2mm throughout the unit. Numerous pink spherulites? clasts from 1-20mm and glassy qtz from 1-10mm.</p>		<p>minor — CS veinlets.</p>
85							<p>This unit has low magnetic susceptibility.</p>		
90							<p>89.1 - 149m Dark green-brown feldspar-quartz dacite lava (as at 67.7-79.5m), locally the quartz content is very low → andesite? Only minor thin carbonate veins. Moderate magnetic susceptibility.</p>		
95									
100									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	HPD 1	Project	Lake Barrington
Hole Type	DIAMOND	Termination	EL 3/100
Year	V2K	Prospect	HEREFORD
Geologist	KPD	Date	30/10/2000

6/18

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
100									
105							<p>102m base of fracture oxidation.</p>		
110									
115									
120									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	HPD 1	Project	Kala Barrage
Drill Type	DIAMOND	Assessment No	EL 3/08
Year	Y2K	Prospect	HEREFORD
Geologist	KPD	Date	30/10/00

17/18

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
120									
125									qtz-cl? zone -sphalerite
130									
135									
140									20m qtz-cl -CAL

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	HPD1	Project	Lake Parung
Hole Type	Diamond	Permit No	EL 3/98
Year	Y2K	Prospect	HEREFORD
Geologist	KPD	Date	30/10/00

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
140									
145									
150							<p>149.0 - 158.7m.                      Brownish green                      chlorite (1-2mm - 15%),                      mafic phase (2mm) and minor                      glassy quartz. This unit is highly                      and rapidly heterogeneous suggesting                      it is probably an andesitic                      volcanicsite!</p> <p><u>Faulted basal contact</u></p>		
155									
160							<p>158.7 - 161.8m                      see overleaf</p>		

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PASMINCO EXPLORATION

Hole ID	HPD 1	Project	Lake Bonny
Hole Type	DIAMOND	Transect No	EL 3/95
Year	Y2K	Prospect	HELEFORD
Geologist	KPD	Date	30/10/00

7/10

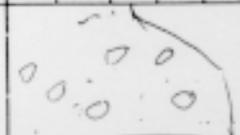
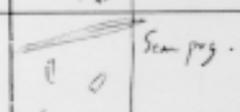
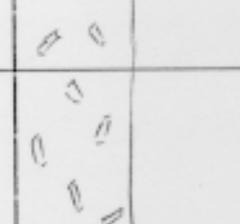
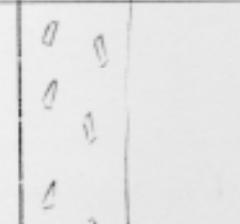
Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
160							<p>158.7 - 181.8m</p> <p>Highly variable unit, unit varies from coarse quartz-lithic-feldspar conglomerate - finely bedded siltstone. Lithic clasts are typically pink aphyric rhyolite.</p>		
165									
170									
175							<p>174.7 - Rhodochrosite clast?</p> <p>graded uphole</p>		
180									

0.5 S

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	Project
Hole Type	Parameter No
Year	Prospect
Geologist	Date

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
180							<p>181.8 - 188.7m green-brown                      crushed feldspar (25% 2-3mm) volcanic                      Homogeneous native implies the                      unit is an andesite/dacite lava.</p>		
185									
190									
195									
200							<p>198.1 - 198.2m siderite-carbonate                      hematite vein                      198.7 - 203.7m light brown ashy-                      sandy volcanic.</p>		

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PASMINCO EXPLORATION

Hole ID	Project
Hole Type	Traverse No
Year	Prospect
Geologist	Date

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralization	
	Code	Colour								
700							<p>203 - 205 7m series of schists with veinlets, some 3/4 grain</p> <p>203.7 - 322.8m</p> <p>Dark green - pink embedded 1-2mm (55%)</p> <p>Feldspar, 3/4 biotite? with a matrix phase in a dark green matrix. The unit is cut by quartz - carbonate chlorite veinlets to 20mm which have a K- feldspar alkali selvage. Feldspar and/or lava. Thin irregular thin carbonate veinlets cut this unit.</p> <p>In places the unit has a brecciated appearance which is interpreted as an autobreccia.</p>			
220										

Ksp

2x 10mm  
qtz-carb-cl

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Hole ID	HPD 1	Project	Lake Barrage
Hole Type	DIAMOND	Termination	EL 3/98
Year	V2K	Prospect	HEREFORD
Geologist	KPD	Date	30/10/2000

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
220						mm - - - - -			
225									
230									
235								K-Spar	gls-cb-ds veinlets
240									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	HPD 1	Project	Lake Burry
Hole Type	DIAMOND	Termination	EL 3/02
Year	Y2K	Prospect	HEREFORD
Geologist	KPD	Date	30/10/2000

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
240									
245									
250									
255									
260									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	HPD1	Project	Lake Bonny
Hole Type	DIAMOND	Permit No	EC 3/98
Year	Y2K	Prospect	HEREFORD
Geologist	KPD	Date	30/10/00

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralization
	Code	Colour							
260									
265									
270									
275									
280									

K Spar  
25m  
ch-chl-  
py-sph  
P.Lch-95

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PASMINCO EXPLORATION

Hole ID	HPD 1	Project	Lake Barrington
Hole Type	DIAMOND	Tenement No	EL 3/90
Year	42K	Prospect	HEREFORD
Geologist	KPD	Date	30/10/00

12/18

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
280									
285									25mm cb-qtz-cbt py
290									qtz-cb py fine qtz-cb
295									
300									

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PASMINCO EXPLORATION

Hole ID	HPD1	Project	Lake Bonnyk <sup>10/18</sup>
Hole Type	DIAMOND	Taxation No	EL 3/98
Year	92K	Prospect	HEREFORD
Geologist	KPD	Date	30/10/00

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralization
	Code	Colour							
300						mm 			
305							Sphalerite in veins in pale yellow.		ch-qtz ch-sph
310									
315									
320									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	HPD1	Project	Lake Barrington
Hole Type	DIAMOND	Traverse No	EL 3/98
Year	1/2K	Prospect	HEREFORD
Geologist	KPD	Date	30/10/00

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralization
	Code	Colour							
320									
325							<p>322-5-3487                      lighter green                      pink 12mm feldspar a dark                      green 4-4mm crystal plane                      (presumably altered feldspar)                      and a dark black altered                      12mm mafic plane?)                      The homogeneous nature                      of this unit suggests it                      is a andesitic lava,                      less porphyritic than the                      above unit.</p>		
330									
335									
340									

