

RED - CHRIS PROJECT

Llard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 220

Logged By: Jan Foreman

Date: OCT 09 '95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	222.50	223.92	PPHm DPFH	4	m	1	m	/	1.0	/	1.0	/	m	m	m	/	/	/	Tr	/	/	w
				<p><u>LITH+MIN:</u></p> <p>50% light greyish green and 50% light reddish to pinkish brown with 0% porphyritic texture very well preserved throughout. 25% 1-4 mm subrounded to euhedral light translucent green and brown to cream Al<sub>2</sub>SiO<sub>5</sub> and 20% 1-3mm subangular euhedral lath shaped buff to cream hornblende. Locally, particularly near the upper contact, the unit is similar to DPFH while elsewhere it looks like PPHm. The dyke does not have chlorite altered mafics nor hematite throughout and on the fractures. Hematite does, however occur throughout as disseminated 1-2mm dark red specs.</p> <p><u>L.C.:</u></p> <p>indistinct</p> <p><u>ALTERATION:</u></p> <p>The light greyish green sections are moderately Qtz-Ank -se +/- Kfs altered and the light reddish to pinkish brown sections are weakly to moderately potassic altered. These sections are also hematite stained. Throughout the unit with pyrite veins have sericite envelopes</p> <p><u>STRUCTURE:</u></p> <p>- no notable structures</p>																		
	223.92	226.60	PPHm	4	m			1.0	4	/	0.5	/	m	m	/	m-s	/	w	/	/	w	
				<p><u>LITH+MIN+ACT:</u></p> <p>This is the same main phase unit that is described between 149.70m and 161.03 meters</p> <p>This is a continuation of the well mineralized zone (that occurs between dykes) between 194.29 and 209.48 meters as well as 214.83 and 220.50 meters</p>																		



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Logged By: I. FREEMAN

Date: OCT 09 '95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining							
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.		
	226.60	235.48	Cont'n																					
						ALTERATION:																		
						The bright to dark brown sections are moderately potassic altered while the greyish green to yellowish green sections are assumed to be moderately Qtz-Ser-Ank +/- K <sub>2</sub> O altered.																		
						STRUCTURE:																		
						- 227.40 - 227.54m -> Fault Zone with gouge @ 40°																		
						- 229.24 - 229.89m -> reddish brown DMAF with moderate carbonate veining and 5-8% subhedral 1-6mm light green hornblendes																		
	235.48	243.93	PPAM	U	m			0.70	3	-	Tr	-	-	m	m	-	m	-	w	-	-	w		
						LITHOMIN:																		
						The core is pale greyish green with very well preserved porphyritic texture. 20-25% of dark brown to green 1-4mm subrounded to rounded plagioclase and 15-20% of green to buff 1-3mm subangular to euhedral hornblendes. Locally the plagioclase appears to be aligned @ 30-40°.																		
						Weak carbonate as fracture fill and veins. The moderate quartz stock work is moderately well mineralized and contains ~80% of the chlorite. The rest of the 0.7% chlorite is in fracture fill and rarely as a fine dissemination within 1cm of lateral veins or fractures. 3% pyrite occurs as fine disseminations and in fracture fill as well as in veins. Trace hematite occurs in fracture fill.																		
						Sharp @ 50-60°																		
						ALTERATION:																		
						Mod to strong Qtz-Ank-Ser +/- K <sub>2</sub> O throughout - post-duct. slab, strong Ser alt.																		
						STRUCTURE:																		
						- 241.62 - 241.81m -> 100% Bln core in gouge																		
						- 242.23m -> Slip in 3mm gouge @ 0-10°																		

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AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 220

Logged By: Iain Forster  
Date: Oct 10<sup>th</sup> '95

Graphic Log  
(m)

P S	Interval		Reck Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	243.93	280.31	PPHmz	4	m	1	Tr	Tr	0.5	/	Tr	/	Tr	M	M	/	Tr	/	w	/	w	
					LITH + MIN:																	
					The unit is generally light green to 20% being light reddish brown. 70-75% light translucent green and brown, rarely clear, 1-3mm subrounded to euhedral poldspars and 15% light green to buff 1-3mm subrounded to euhedral hornblende. The unit is very homogeneous throughout.																	
					Trace quartz veins through the unit are poorly mineralized commonly containing only pyrite. Weak carbonate veining throughout. Carbonate also occurs locally as fracture fill.																	
					Trace to locally 1% pyrite occurs in veins, fracture fill and locally as 1-4mm blebs and as fine disseminations throughout.																	
					Trace chalcopyrite occurs in quartz veins. Hematite locally occurs as 1-2mm rounded specks in the light reddish brown sections.																	
					L.C:																	
					Slip @ 60°																	
					ALTERATION																	
					Moderate Qtz-thin-Ser 1/2-Kfs alteration throughout with the light reddish brown sections being weakly potassic altered as well.																	
					STRUCTURE:																	
					- 252.32m -> 1cm slip in gouge @ 50°																	
					- 267.7m -> slip in gouge @ 50°																	
					- 273.0cm -> slip in gouge @ 50°																	
					- 278.37m -> fine gouge on break @ 40°																	
	280.31	286.27	USE D	4	m	1	w	0.6	3	/	1	/	w	M	M	/	M	/	w	/	w	
					LITH + MIN:																	
					The unit is greenish grey with 10-30cm sections that are																	

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	BI	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	280.31	286.27	Cont'd																			
				<p>orangeish brown to dark brown. The sed. are optically bed locally                      &lt; 1mm angular to sub-angular grains make up to 2-4% of the rock.                      Elsewhere, common sub-rounded light brownish greyish green grains make                      up 7-10% over 10-15 cm's. These may be perovskites. &lt; 1mm pyrite                      and chlorite cl. make up to 1% and give the core a mottled                      appearance.                      weak to moderate carbonate throughout as veins and fracture                      fill. No gypsum veining. Moderate quartz stockwork contains                      pyrite, chalcopyrite and hematite.                      The remainder of the 0.6% chalcopyrite occurs as fracture fill                      as irregular disseminations, &lt; 1-2mm blebs associated in pyrite and                      chlorite and in carbonate veins. 3% pyrite occurs as irregular                      disseminations, 1-3mm blebs commonly with chlorite and as fracture fill.                      Hematite occurs throughout the unit as disseminations, 1-2mm                      irregular blebs, fracture fill and in veins                      284.71 to 285.43m in regular shear zone with a concentration of carbonate                      and quartz. Throughout this section are 2-6mm blebs of pyrite.                      L.C.                      Top @ end of H. @ 50°                      ALTERATION:                      Moderate Qtz - Ser - Ank - Ksp alteration throughout in patches                      of weak potassic alteration.                      STRUCTURE:                      - 283.72m → 2-5mm goe in shear @ 50°                      - 283-287m → goe in slip @ 60°                      - 284.71 - 285.43m → Shear zone @ 50°                      - 285.00 - 286.27m → Shear zone / fault zone = sections of 1-3mm goe @ 50°</p>																		

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DRILL HOLE NO. 95 - 220

Logged By: Sam Forster

Date: Oct 10 '95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	286.27	306.93	PPHM2	4	m			/	1	-	/	/	/	m	m	/	Tl	/	w	/	/	w
						LITHOLOGY:																
						This unit is the same PPHM2 unit that occurs above the volcanic sediments except that there is no potassic alteration here in reddish brown sections It is described between 43.93 and 280.31 meters																
						Litho:																
						E.O.H.																
						ALTERATION:																
						The alteration is the same as the PPHM2 above the volcanic sediments except that there is no potassic alteration																
						STRUCTURE:																
								- 287.84m	→	Slip in gouge @ 90°												
								- 289.05m	→	3mm gouge on slip @ 30°												
								- 298.08m	→	gouge on slip @ 30°												
								- 300.19m	→	pyrite gouge on slip @ 50°												
								- 302.43 - 303.71m	→	Bl w slip in centre @ 10°												
	306.93	306.93	E.O.H.																			

*(Handwritten scribble)*

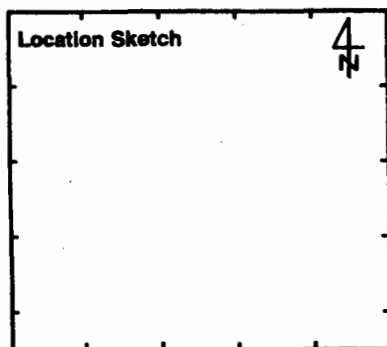
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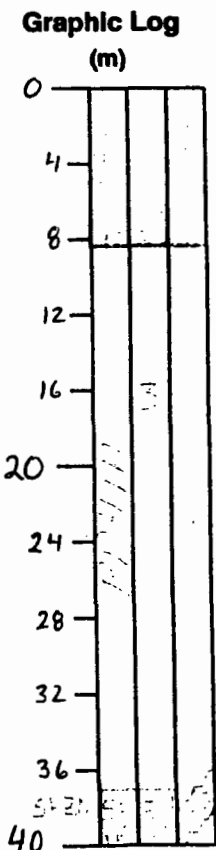
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Grid Northing (m):	100 500
Grid Easting (m):	51 000
Elevation (m):	
Total Length (m):	245.06
Casing Depth (m):	8.23
Reduction Depth:	<del>                    </del>
Collar Core Size:	NQ

Date Started:	Oct. 7 <sup>th</sup> /95
Date Completed:	Oct. 9 <sup>th</sup> /95
Logged By:	B. Thurston
Date Logged:	Oct. 8 <sup>th</sup> /95
Data Entry:	
Entry Date:	
Casing (In/Out):	out

Survey	Depth	Azimuth	Dip
1	152.40	182°	-61.5°
2	245.06	186.5°	-61.7°



P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	moly	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
P	0.00	8.23	CASN																					
P	8.23	39.00	PPM	3	m			.3	3	0	T	T	0	0	S	W	0	T	T	V	0	0	m	
				<p><u>Lithology:</u> Light grey to light green rock. Very, very poor porphyritic texture preserved.</p> <p><u>Alteration:</u> Plag. &amp; mafic phen's altered to ser:clay:carb &amp; blend into strongly sericitized: clay alt'd groundmass. Strong mottled texture pervasive in blocks of ser + py ~ 1-3mm and as envelopes on fractures &amp; veins. Trace Qtz veins, ~ 1-3mm wide, down section; Carb. veins/fracture filling very weak throughout. Calcite is not observed. No mag. nat. He in green fragment @ 37m.</p> <p><u>minz:</u> Py is ~ 3% overall mainly diss but also as veins, fracture filling, &amp; blocks ~ 20%. Cpy is diss, assoc. w/ or w/out py diss. &amp; trace in Qtz veins. moly is observed once in matrix as diss.</p> <p><u>Structure:</u> * Rock is fractured throughout w/ minor shearing @ 30°-45°. * L.C. sharp @ 35° over 1m of shearing.</p>																				
P	39.00	83.00	PBRM	3	m	1	T	<.3	3.5	0	T	T	S	W	T	T	0	V	T	0	W			
				<p><u>Lithology:</u> Patchy green → grey w/ light brown to beige sections. Porphyritic texture is mainly destroyed to weak up section however down section porphyritic texture is good, as well fragment size increased from &lt; 1cm up to 5cm down section. Overall fragments are rounded but not always spherical. Frags make up ~ 10-15% of rock composition and tend to</p>																				



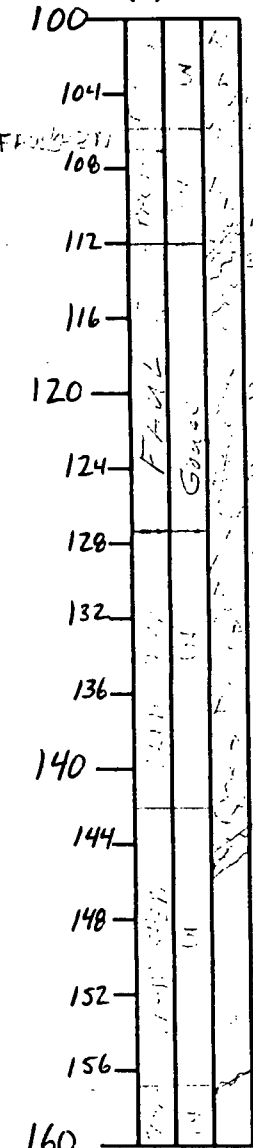


GEOLOGIC DRILL LOG

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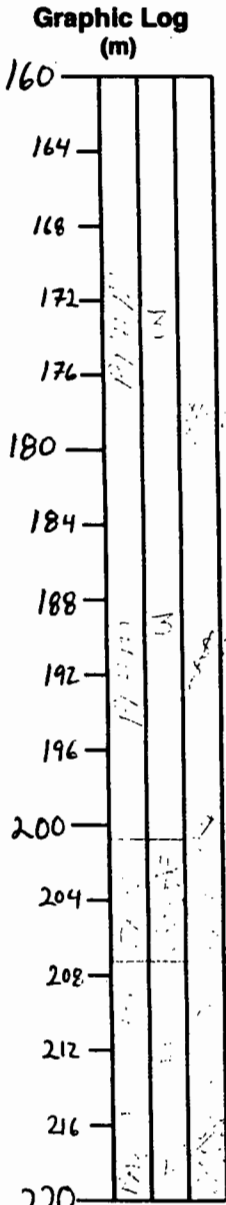
Graphic Log  
 (m)

P S	Interval		Rock Code	Alteration Facies			Mineralization					Alteration Mineralogy					Structure - Veining									
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	moly	Bi	Kf	Ms	Cy	To	Oz	Py	Cb	A:	H:	Fr.			
				Structure cont'd: but to show lithology on the sections have been noted as PBRM.																						
				* Fault sections consist of 50% and above gouge.																						
				* SHZN sections consist of ~10-20% SH + gouge sections.																						
				* 83m U.C. of FAULT is? Strong 20° 1cm black SH ~ 30cm in from contact but 35° → 40° shears in area. Strong 10° 1.5cm black SH @ 94m																						
				L.C. of Fault @ 98.2m @ 20°																						
				* Fault @ 105.80 → 106.75m @ 40° U.C. & L.C.																						
				* Fault @ 112 m U.C. @ ~45°? ; 23° contact @ 120.75m w 1.75m solid section. Mod. 20° shear @ 124.15m but L.C. is questionable?																						
				Rock is @ ~40° → 30° to gouge.																						
				* Green (bright) fragments occur in last PBRM section from 127 → 141m																						
				* L.C. in PPHM/SHZN is ambiguous. SHZN or shearing + fracturing + gouge continues but fragments decrease to only old green fragments after strong shearing from 140 → 141m @ 45°, 65° ± 20° mod + Gouge.																						
	P	141.00	157.00	PPHM	3	m					.40	35	0	T	T	0	0	S	W	T?	T	T	V	0	0	M
				Lithology: This unit is similar to the past PBRM units w fewer fragments, and the fragments observed are a bright green fragment not of the same material (PPHM) as the matrix and fragments of past PBRM units. The unit is SH'd/fractured throughout ± gouge. One difference is the Qtz veins are more veins & not fragments as well they are continuous through the core. He & To? diss's are throughout. Trace moly diss in matrix.																						
				minz: Cp is observed as a very very fine dusting in grey areas of core & also coarser as diss & in fractures. Py is diss = fractures & veins.																						
				Alt'n: Some Mottled Ser + Py Alt'n:																						
				Structure: * Shearing throughout @ 40° to 75°																						
				* L.C. @ 60° Sharp 3cm black sh.																						



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P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining									
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	only	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.				
P	157.00	180.50	PPHM	3	m			.75	6	0	T	T	0	0	S	W	?	M	0	T	0	0	W-M				
S	180.50	201.30	PPHM	3	m			.45	4	0	T	T	0	0	S	W	T	T	0	W	0	0	M				
				Lithology:				157 → 180m mottled med. green PPHM w very poor to no porphyritic texture. preserved. Qtz Stockwork is weak → strong but Qtz veins are fuzzy w indistinct grain boundaries. These Qtz veins are grey & seem to be contaminated w ser + Ark?. The veins are visible when core is dry but difficult to see when wet. Py is strong ~6% diss. & fracture fillings. Cpy is diss 80% but difficult to see on cut surface. Cpy is observed on broken surfaces. Trace moly diss. & He diss (redist/pink Ho)																			
				minz:				Calcite is only observed in carb. fracture fillings (<0.3%). Cpy is 40% in Qtz veins.																			
				Lithology:				180 → 201m mottled light beige w green ser blebs. This core is very fine grain w very little porphyritic texture preserved. Qtz stock-work is trace, Cpy has also decreased along w Py. Carb. fracture filling is weak & fracturing has increased as fault becomes closer.																			
				Alt'n:				157 → 201m Mottled phyllic. Ser + py blebs & envelopes on fractures w Py. weak clay in matrix especial in beige core down section.																			
				Structure:				* Minor fragments down section approaching fault. * Prominent shears @ ~20° * Blocky lm + carb. @ 180 → 181m where Qtz veins decrease & PPHM changes. * 45cm Healed SH/Fault @ 22° @ 193m. * L.C. @ 35° w Fault/SHZN @ 201.30m.																			
P	201.30	207.15	FAUL	4	m			.40	1	0	2	0	0	0	S	M	0	T	0	*	0	0	M				
P	207.15	214.27	PPHM	4	m			.40	0.3	0	2	0	0	0	S	M	0	T	0	T	0	0	M				
S	214.27	217.32	PPHM	1	m			.60	0.3	T	2	0	T	M	M	W	0	T	0	W	0	T	W				
P	217.32	220.70	FAUL	4	m			1.20	0.3	T	1	0	0	0	S	M	0	M	0	*	0	0	S				
P	220.70	230.08	PPHM	4	m			1.0	1	T	<1	0	0	0	S	W	0	W-M	0	W	0	0	M				
P	230.08	231.40	DYKE					-	T	0	0	0	0	0	M	M	0	0	0	W	0	0	M				
P	231.40	245.06	PPHM	4	m			1.5	1	T	2	0	0	0	M	M	0	S	0	vw	0	vw	S				

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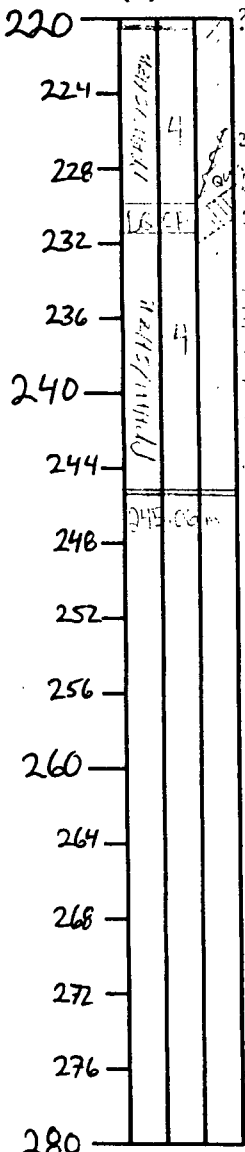
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 221

Logged By: B. Thurston

Date: \_\_\_\_\_

Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining				
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:
	Lithology:		From 201.30 → 245.06 m	The rock type/material is PPHM w varying amounts of shearing / fracturing & faulting. Some areas of PPHM were broken out as PPHM when they could be classified as SHZ but in order to put the Lithology type & stock-work classification on the cross-section they are called PPHM. Some core from - 207.50 → 209.50 m looks like dyke (? DPH?) material but it is sheared & insignificant; not broken out. Most PPHM is med. Porphyritic w plag & matc phen's somewhat preserved. Plag phen's & matrix are strongly sericitized. Core is very light green throughout. Clay alt'n + gouge is mod. in faulted & sheared areas. He is diss.																	
	Alt'n:			throughout as pink to red to black diss's. No Mag. Potassic from ~ 214 → 217m.																	
	Minz:			Qtz stk wrk is trace to fault @ 217m then becomes mod to fault @ 228.25m @ 20° then becomes strong. These Qtz veins are different from previous Qtz veins. They have very distinct vein boundaries that are straight & not undulating. The Qtz is white & has lots of diss Cpy w little py in it. He is diss & occurs as veins w in the Qtz veins. Bornite is also diss in the Qtz veins assoc w cpy or by itself. Bo is also observed in fractures. Py is weak mainly diss near Qtz veins as fracture filling. Carb also mainly occurs as fracture fillings, & as fragments in faulted areas. He ~ 2% diss throughout.																	
	Structure:			* DYKE @ 230.00 → 231.40 m u.c. 60° L.C. 50° This dyke has ampinals of carb & is light beige like DQCA But has phenocrysts that match DMAF besides the biotite phen's which are distinctive for DMAF.																	
				* DYKE material of the same type is observed from 235.55 → 235.71m, but core is blocky w poor recovery; not broken out?																	
				* Fault 201.30 → 207.15 m u.c. @ 35° ; L.C. @ 30°																	
				* Fault 217.32 → 220.70m u.c. @ 45° ; L.C. ?°																	
				* Strong SH's @ 228.25 m @ 20° @ 231.40 → 245.06 m @ ?°																	

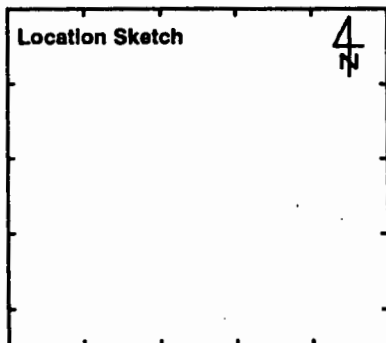
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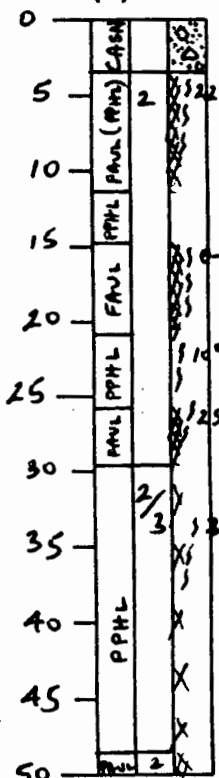


Grid Northing (m):	100 300
Grid Easting (m):	50 800
Elevation (m):	
Total Length (m):	251.76
Casing Depth (m):	3.66
Reduction Depth:	
Collar Core Size:	H Q

Date Started:	OCT. 9
Date Completed:	OCT. 11
Logged By:	G. ALLEN
Date Logged:	OCT. 10, OCT. 11, 12
Data Entry:	
Entry Date:	
Casing (In/Out):	OUT

Survey	Depth	Azimuth	Dip
G.A. COLLAR		180	-60
S-S	152.4	181 1/2	-62
S-S	29.76	184 1/2	-62 1/2

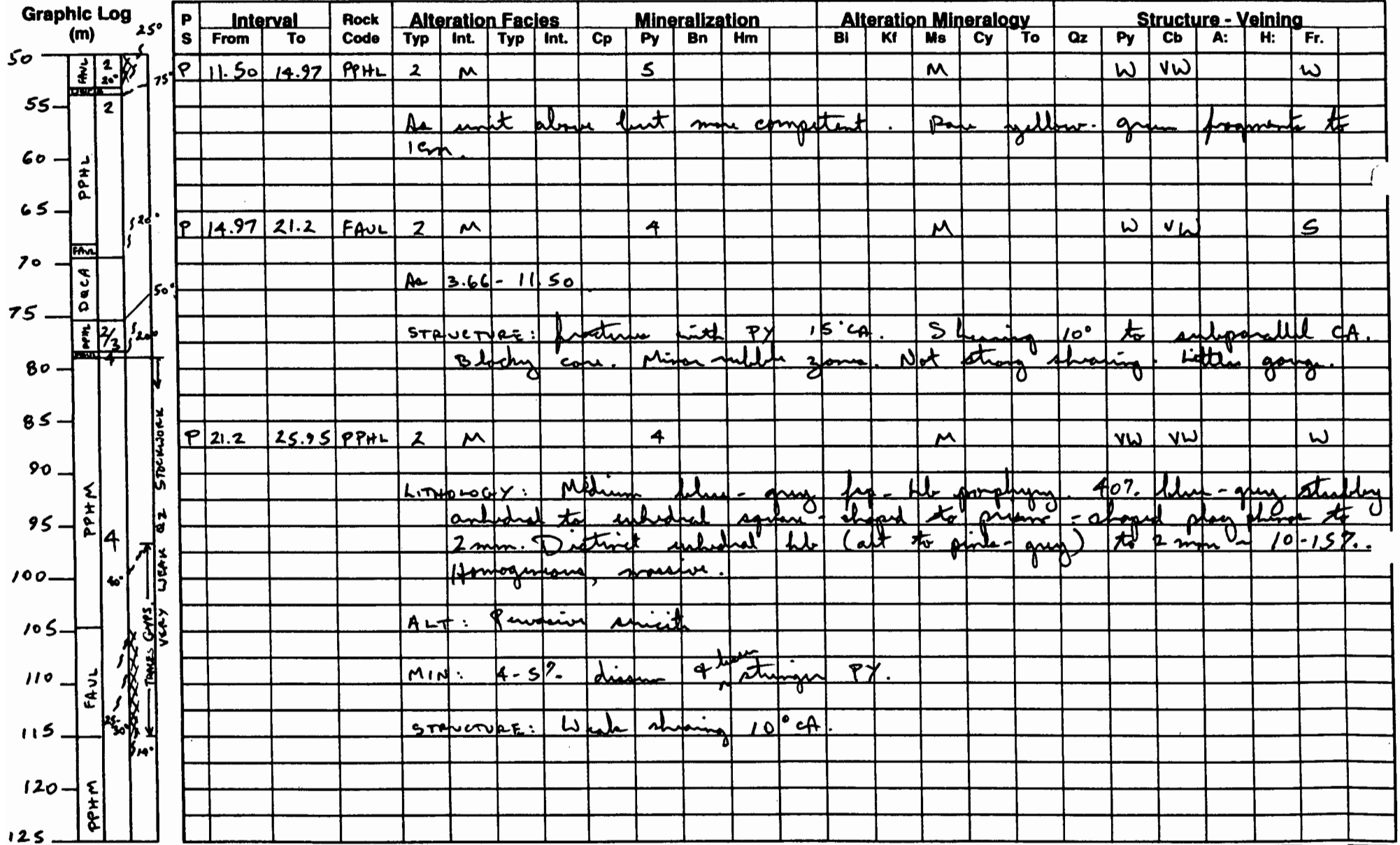
Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
P	0	3.66	CASN																				
P	3.66	11.50	FAUL (PPHL)	2	M			4						M				M	VW			S	
						<p>LITHOLOGY: Medium blue-grey homogeneous medium-grained feldspar phasic intrusion. Typical late phase: 40% white stubby anhedral to subhedral coarse to prismatic feldspar phases in a blue-grey groundmass. Narrow dark grey aegirine envelopes around some feldspar. Narrow dykes to 10cm of interstitial breccia (&lt; 5%). Some parts have recognizable pinkish subhedral hornblende prisms to 2mm.</p>																	
						<p>ALTERATION: Perovskite. Very weak reaction to cold HCl on crushed surface.</p>																	
						<p>MINERALIZATION: Sporadic druse &amp; stringer PY ~ 4-5%.</p>																	
						<p>STRUCTURE: Broken blocky core throughout. Py stringers and shavings 22° CA. Crush + gang to 2cm.</p>																	

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DRILL HOLE NO. 95 - 222

Logged By: G. ALLEN  
Date: OCT. 10/95

Graphic Log

Interval	Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining							
		From	To	Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
25.95 - 29.83	FAUL	2	M					4						M								S
<p>LITHOLOGY: As above but some intervals sheared to dark grey gouge.</p> <p>ALT: Peruvian sericite. Some parts are black, earthy or possibly graphitic.</p> <p>MIN: 4-5% f-g dissemin + stringer PY. 7-8% PY in gangy zones.</p> <p>STRUCTURE: Shearing 25-30° CA.</p>																						
26.21 - 27.4																						
27.4 - 28.4																						
28.4 - 29.5																						
29.5 - 29.83																						
29.83 - 48.78	PPHL	2	M	3	W			3		T			M	?		VW	VW				M	
<p>LITHOLOGY: PPHL as above fault zone but with weak crush zone to 50cm throughout. Crush zones typically have black alteration around hairline fractures, to zones of black crush to 2cm. Graphite?</p> <p>Tomorlin: Same as soft for tomorlin &amp; not soft enough for graphite.</p> <p>ALT: Peruvian sericite + carbonates as typical. Some dark green-grey sericite masses to 5mm giving rock a speckled appearance.</p> <p>MIN: 3-4% pyrite dissemin PY.</p> <p>STRUCTURE: Shearing ranges from 20-70° CA; pyrite at 30° CA.</p>																						

DRILL HOLE NO. 95 - 222

29.83-38 - sporadic weak crush zone

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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

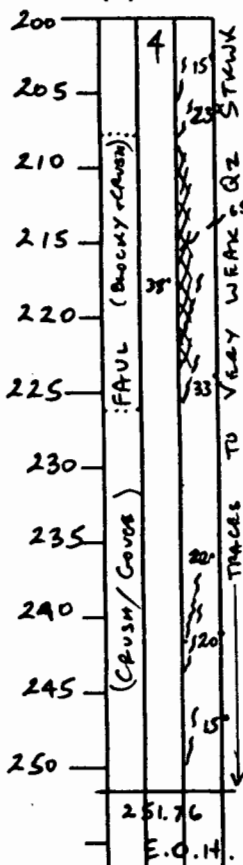
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 222

Logged By: G. ALLEN

Date: OCT. 10

Graphic Log (m)	P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining								
		From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.			
200	P	48.78	53.00	FAUL	2	M			T	6				M					M			M				
205					LITHOLOGY: Crushed, shaly late phase as above																					
210					MINERALIZATION: 69% pyrite disseminated PY. Trace disseminated CP with PY.																					
215					STRUCTURE: Sporadic crush zones with gangue matrix to granular ground rock. Some carbonate flooding																					
220					Shearing: 25° CA.																					
225					20°																					
230					Some undulating subparallel CA.																					
235	P	53.00	53.73	DQCA					2	T											T	W				
240				(?)	LITHOLOGY: medium-dark greenish-grey flow banded very fine-grained feldspar porphyry with an aphanitic groundmass.																					
245					MIN: Sporadic 0-3% f-g disseminated PY.																					
250					STRUCTURE: Lower contact steep at 75° along weak shear. Upper contact wavy, ~20° CA. Flow banding undulating subparallel CA.																					
251.76																										
	P	53.73	68.45	PPHL	2	M			3	T			M					W				W				
					LITHOLOGY: Medium bluish to greenish-grey medium-grained sub-homogeneous intrusion as 21.2-25.29.																					
					ALT: Porphyry quartz - carbonate. Minor black mineral developed along + adjacent to faultline structures.																					



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GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 222

Logged By: G. ALLEN

Date: OCT. 10

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
				MINERALIZATION:				2-3% disseminated or stringer-related PY.														
				STRUCTURE:				Minor zones bloody core. Shearing subparallel to 20° CA.														
P	68.45	69.60	FAUL	2	M				S				M					S			W	
				Healed crush/gouge zone 20° CA. Flooded by abundant white carbonate 5% disseminated PY.																		
P	69.60	75.33	DQCA															W			M	
				LITHOLOGY:				Mottled medium greenish-grey to dark red-brown medium-grained hb-feld porphyry. 30% f-g plg phase to 1mm & 20% subhedral hb plg phase alt to pale pink-grey up to 1mm long. Margins of dyke fine-grained. Core coarse grained with up to 20% quartz & a white amygdale to 1cm.														
				STRUCTURE:				Upper contact: 15° parallel shear. Lower contact: Sharp 50° CA.														
P	75.33	78.05	PPH	2	M	3	M		S									W			M	
				LITHOLOGY:				Medium greenish to bluish-grey medium-grained feldspar-hornblende phytic trachytic intrusion above fault. Textures somewhat more discrete.														
				ALT:				Pervasive sericite-carbonate with patches dark green-grey sericite to 5mm, commonly with a PY core.														



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GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 222

Logged By: G. ALLEN

Date: OCT. 10/95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining								
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	SL	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.			
				MINERALIZATION:				57. dissemin & lesser stringers					PY.													
				STRUCTURE:				Shearing - 20°C.A.																		
P	78.05	78.55	FAUL	4	M			3						M					W			W				
				LITHOLOGY:				Shale crush, gouge - intrusion as above (?), possible protolith as unit below. CONTACT.																		
				STRUCTURE:				Upper contact 20°C.A. Shearing within zone 30°C.A. Lower contact 55°C.A.																		
P	78.55	104.70	PPHM	4	M			0.3	2	3	T			M		VW	T-VW		VW	/VW	VW	W				
				LITHOLOGY:				Mottled light greenish - grey to dark blue. grey to light red-brown fine to medium grained weakly to moderately fractured fine-grained phyllic intrusion not too dissimilar to PPHL above, but less homogeneous in appearance.																		
				ALT:				Permissive sulfate - carbonate																		
				MIN:				3-5% dissemin. red-black spec hematite. Sporadic <1-4% PY, random dissemin. Distinctively less PY than in units above. Traces dissemin CP throughout, varying from trace to 1.5%, average ~0.3% CP.																		
				STRUCTURE:				Trace to NW quartz stringers with blue-grey quartz stringers generally 2-3mm but up to indistinctly bounded, banded zones to 10cm. Generally ≤ 1/m commonly with carb. PY, ferr.																		

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GEOLOGIC DRILL LOG

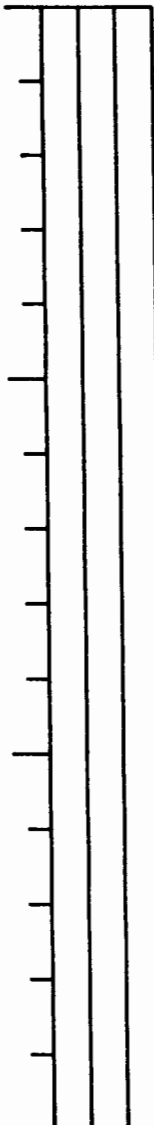
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 222

Logged By: G. ALLEN

Date: OCT. 10

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining																	
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.												
					96.1	-	96.4																										Quartz flooded zone with 30% f-g blades material Possibly tourmaline but seems too soft.	
						-	98																									raw gypsum strings with CP blks to 2mm.		
						99.95	-	100.35																								Fault: shear / crush zone 40° CA.		
P	104.70	115.00	FAUL						4	W	O.B		7			W									I	M							T	S
																																	LITHOLOGY: Mottled black to greenish-grey (black predom.). Some black parts show some faint fsp porphyritic texture as in unit above with black subhedral fsp phen in a dark grey g.m. Some parts have lucina texture with large subhedral to angular fsp to 1cm. Some parts simply aphanitic black. Unit shows a typically greenish parts contact black parts along shear. Probably a contact altered to black with some mineral (possibly tourmaline).	
																																	ALT: Black parts med. soft to medium hard. Could be tourmaline but too soft? Greenish parts pervasive sericite - carbonate.	
																																	MINERALIZATION: Sporadic 5-8% PY mostly in black parts. PY dissem and in masses to 1cm. Sporadic 0.5-1% CP dissem in black but last predom in quartz flooded / stringer areas. Trace SA & quartz.	
																																	STRUCTURE: Abundant shears 25-35° CA. W-M quartz stockwork/ flooded zone.	

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British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 222

Logged By: G. ALLEN

Date: OCT. 11

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies			Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	115.00	125.07	PPHM	4	M			0.5	3		2				M	W	VW	VW	W			W
<p><b>LITHOLOGY:</b> Predom. medium bluish to greenish-grey medium-grained hornblende - feldspar porphyry with 40% stubby blue-grey anhedral to subhedral quartz to prism-shaped plagioclase to 2 mm or 15% subhedral pinkish pseudomorphs of carbonate all hornblende to 3 mm (or 1-2 mm). Hairline fractures typically filled with f-g blebs mineral or have dark siliceous envelope to 2 cm wide.</p> <p><b>ALT:</b> Pervasive silicate + carbonate. Blebs mineral could be tourmaline.</p> <p><b>MIN:</b> 1-4% f-g dissemin + fracture-related pyrite. Traces to 1% CP predom or only f-g disseminated blebs with py. CP also in some quartz stringers. 2-3% f-g dissemin. and to blebs hematite.</p> <p><b>STRUCTURE:</b> 117.0 - 117.8 - Shear zone 14° CA. Very weak quartz stockwork of blue-grey quartz stringers to 1 cm (average <math>\leq 5</math> mm) with py + carbonate cores. Conglomerate like <math>\sim 30^\circ</math> CA.</p>																						
P	125.07	134.4	FAUL	4	M			0.3	2		2			M		VW	VW	W			T	S
<p><b>LITHOLOGY:</b> light to medium greenish-grey porphyritic intrusion as above.</p> <p><b>ALT:</b> Pervasive silicate - carbonate.</p> <p><b>MINERALIZATION:</b> PY generally low <math>\sim 2\%</math> average, but some intervals up to 5% across <math>\sim 1</math> mm. Minor amounts CP dissemin throughout along fractures or in quartz stringers <math>\sim 2\%</math>. hematite dissemin throughout.</p>																						

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British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 222

Logged By: G. ALLEN

Date: Oct. 11

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies			Mineralization					Alteration Mineralogy					Structure - Veining									
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	SL	BI	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.			
				STRUCTURE:																						
				129.07 - 129.5 - Crushed, sheared rock but core relatively competent. Shearing predom. subparallel CA, but some to 35° CA, 65° CA.																						
				129.5 - 134.4 - Sheared blocky core. Crush/gangue 15° CA. Shear shows predom., up to 35° CA.																						
P	134.4	147.14	PPHM	4	M			0.6	2		4	T			M			VW		N			T	W		
				LITHOLOGY: Mottled light to medium greenish-grey to dark blue-grey medium-grained blocky - feldspar porphyritic intrusion as matrix above.																						
				ALT: Pervasive sericite - carbonate																						
				MIN: 1-27% predom. dissemin. PY. 4-5% dissemin. spec. of black to rd-grey hematite. Traces to >17% CP dissemin. in host rock as with PY, along fractures & in quartz stringers (minor component). Traces SL with some quartz stringers																						
				STRUCTURE: Minor weak crush zones. Some shearing 20° CA. Very weak quartz stockwork with widely spaced (<= 1/2 in) blue-grey stringers generally <1cm ~ 20-30° CA.																						
P	147.14	148.75	FAUL	4	M			2	5			T			M			M	M		W			S		
				LITHOLOGY: Much of interval showed main phase as above. Upper part block cataclastic / breccia.																						
				ALT: Sericite / carbonate. Block parts possibly tourmaline-rich.																						

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GEOLOGIC DRILL LOG

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DRILL HOLE NO. 95 - 222

Logged By: G. ALLEN

Date: OCT. 11

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
				MINERALIZATION: Sporadic PY up to 10% across a few cm. Average ~ 5%. Sporadic dissemin + quartz / calc stringers - related CP up to 5%, but average ~ 2%. CP blebs to 5mm. Traces SK in quartz.																		
				STRUCTURE: Blocky con, rubble + shand rock. Shearing ~ 10° CA. Quartz stringers shallow angle also + broken up into catwalks.																		
P	148.75	161.25	PPHM	4	M			0.5	2		4			M		VW	VW	VW			T	W
				LITHOLOGY: As above fault.																		
				ALT: Pervasive sericite / carbonate																		
				MINERALIZATION: 2% random dissemin PY. 4-5% dissemin hematite in blebs to red-grey spines. 0.5% (Trace to 1%) dissemin + quartz stringers - related CP. Viable CP in most pieces inspected.																		
				STRUCTURE: Very weak quartz stockwork with widely spaced (< 1-2/m?) < 1cm blue-grey quartz stringers 30-40° CA.																		
P	161.25	164.4	FAUL	4	M			0.3	2				M		VW						T	M-S
				LITHOLOGY: Shand intrusion as above.																		
				ALT: Pervasive sericite / carbonate. Black mineral (Tremolite?) developed adjacent fault.																		
				MIN: 2% random dissemin PY. Trace dissemin CP in most pieces inspected. CP also common in quartz stringers.																		
				STRUCTURE: 161.25-163 sporadic crush. 163 - 164 + quartz, grey to black crush + gouge. Shand 20° CA.																		

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GEOLOGIC DRILL LOG

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DRILL HOLE NO. 95 - 222

Logged By: G. ALLEN

Date: OCT. 11

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
P	164.4	185.55	PHM	4	M			0.6	2		2-3				M		VW		W			T	W
<p>LITTOLOGY: Mottled light greenish-grey to dark blue-grey<sup>ms</sup> feldspar honeycombed physis phosoms as above. Greenish fsp phosoms to 2mm + subhedral pinkish altered, honeycombed.</p> <p>ALT: Perovskite sericite / carbonate</p> <p>MIN: 1-4% f-g diatom PY. (average ~ 2%). 2-3% f-g diatom hematite. Typically inverse relationship between PY + HEM. 0.6% (T-section 1.5%) CP prob diatom. + in quartz stringers.</p> <p>STRUCTURE: Very weak to weak quartz stockwork with blue-grey quartz (+ carbonate, hematite, pyrite) stringers generally <math>\pm</math> 0.5cm, 10-50°CA. Quartz stringers truncated by calc-filled fractures.</p>																							
P	185.55	251.7	FAUL	4	M				T	S				M		M <sub>2</sub>	VW	VW					M-S
<p>E-O-H</p> <p>LITTOLOGY: Block to greenish-grey intense crush / gouge zone typical with subrounded fragments of intrusion up to 5cm, average 2-2cm. Some fragments of blue-grey quartz. Very STROVE FAULS ZONE. 185.55-195 Black phosom. 195-208.35 Green-grey.</p> <p>ALT: Sericite / carbonate. Black parts may be tourmaline-rich.</p> <p>MIN: 5-8% diatom PY. Trace CP with rare quartz stringers. PY also occurs in stringers to 1cm (or 1-2mm).</p> <p>STRUCTURE: Shearing ~ 15°CA with slickensides 90°CA. If drilling 90° to fault strike direction, fault movement horizontal (strike-slip). Mostly residual crush zone &amp; no shear orientation.</p>																							



RED - CHRIS PROJECT

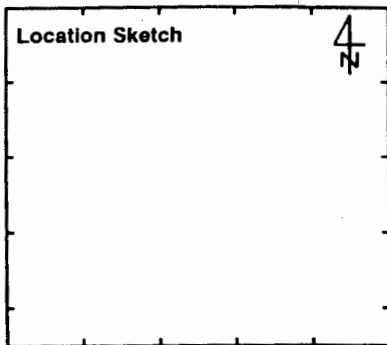
Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 223

unreliable  
azimuth



Grid Northing (m):  
Grid Easting (m):  
Elevation (m):  
Total Length (m):  
Casing Depth (m):  
Reduction Depth:  
Collar Core Size:

99250 N
48850 E
408.74 m
73.15 m
-
NQ

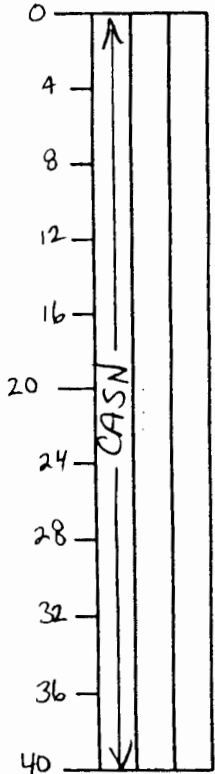
Date Started:  
Date Completed:  
Logged By:  
Date Logged:  
Data Entry:  
Entry Date:  
Casing (In/Out):

Oct 9/95
Oct 13/95
T. Fraser
Oct 11/95
(lost 130ft)

Survey	Depth	Azimuth	Dip
SS	154.5	050.5°	62.5
SS	408.7	195.5°	-65°

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
	0	45.72	CASN																				
	45.72	50.68	PPHM/ PBRM	1	W	-	-	0.3	2.5	0	0	0	W	W	W	W	0	TR	W	TR	0	0	W
				Lithology - Buff to light orange coloured possible main phase or breccia (PBRM). The unit appears to contain cryptic lobes of clasts but this may be a feature of alteration. "Clasts" are highly porphyritic, with plagioclase phenos 1mm - 4mm, subhedral to euhedral, although margins are somewhat obscured/irregular. Plagioclase phenos are buff/cream-coloured. The groundmass is aphanitic to fine grained. There do not appear to be any mafic minerals (or they are extremely altered).																			
				Alteration/Mineralization - The groundmass of PPHM/matrix of PBRM is weakly Kspar altered (orange coloration). Plagioclase phenos are very weakly clay and sericite altered. The unit is cut by pyrite veins which have thin (2-4mm) grey quartz-sericite envelopes. Pyrite is fine grained throughout. Trace carbonate-quartz veinlets.																			













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GEOLOGIC DRILL LOG

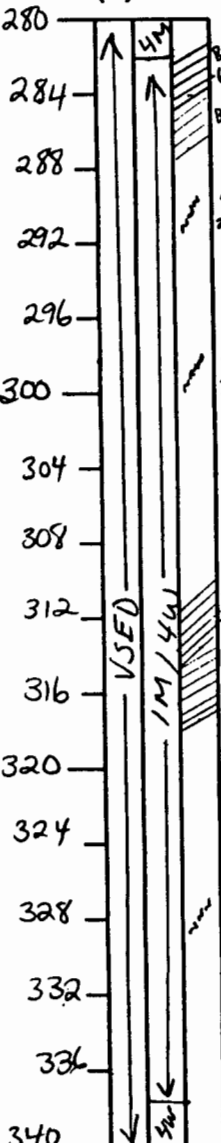
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DRILL HOLE NO. 95 - 223

Logged By: J. Fraser  
Date: Oct 12/95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
				Structure -				183.19 - 183.77 m sheared with carbonate veins														
								184.45 m gouge 10°														
								190.33 - 190.45 m hematitic shear														
	197.90	209.15	VSED	4	M	1	W	0.6	6	0	0	vW	0	M	vW	0	Ws	M	W	W	0	W
	Lithology - This unit is grey-green and appears to be intermixed with potential Main Phase plagioclase porphyry. The lithology appears granular-textured locally and elsewhere is plagioclase and hornblende microphyritic. The unit is moderately sheared throughout. The majority of the unit has a grain size < 1mm and appears plagioclase-rich. Small 1-4 cm areas have a buff-green colour and are aphanitic - illustrating typical VSED appearance and texture. Locally, there appear to be trace fragments of sediments. The PPM-looking areas contain 20-25% 1-2mm subhedral plagioclase phenos and 5-10% 1mm beige hornblende phenos.																					
	Alteration/Mineralization - The unit is cut by a weak gypsum stockwork down to approximately 203.00 m. Carbonate veining at this point becomes more prominent. The lithology is cut by moderate pyrite veins. Chalcopyrite is finely disseminated, along with pyrite. Quartz veins carry disseminated chalcopyrite and pyrite. Trace quartz-carbonate veins. Locally, the unit has patchy brown fine grained biotite alteration.																					
	Structure -																					
	203.75 - 203.95 m Shear @ 55°																					
	206.93 - 209.15 m gouge/shear zone U.C. @ 45°, L.C. @ 42°																					



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GEOLOGIC DRILL LOG

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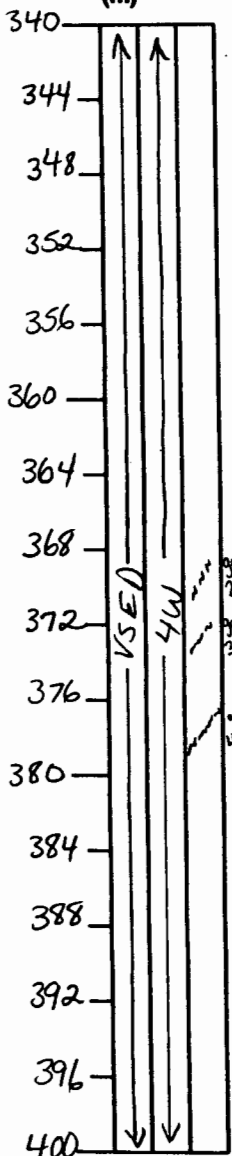
DRILL HOLE NO. 95 - 223

Logged By: T. Fraser

Date: Oct 12/95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	209.15	219.25	USED	4	M	-	-	0.9	2.5	0	0	0	0	M	VW	0	MSs	W	M	0	0	M
	<p>Lithology - The unit is light yellow-green and locally beige. The lithology is fine grained to aphanitic and has a somewhat granular texture. Sparse 1-2mm apple green plagioclase phenocrysts are observed throughout. There are no mafic phenos. Beige areas contain 10-15% 1-2cm sized clasts (subrounded). The groundmass is aphanitic beige to light green. The lithology appears somewhat tuffaceous and highly variable in character.</p>																					
	<p>Alteration/Mineralization - The unit is cut by moderate to locally strong quartz stockwork. Quartz veins have a sheeted appearance, probably due to fine grained molybdenum or specular hematite. Quartz veins contain disseminated fine grained pyrite and chalcopyrite. The interval is cut by moderate white carbonate veins (these cross-cut the quartz stockwork). The lithology appears to be moderately to strongly sericite-carbonate altered. Plagioclase grains are sericitized and the groundmass may have a higher degree of carbonate alteration. Trace disseminated chalcopyrite and occasional blebs. Trace quartz-carbonate-chalcopyrite veins.</p>																					
	<p>Structure - 211.30 - 211.60 m sealed breccia @ 30° to c.A.</p>																					
	219.25	232.38	PPHM	4	M	-	-	0.35	1.5	0	0	0	0	M	VW	0	TR	W	VW	0	0	VW
	<p>Lithology - Buff to dominantly light green, highly porphyritic main phase. The unit contains distinctive pale green subhedral plagioclase phenocrysts - 30-40% &lt;1mm-2mm in length. Hornblende phenocrysts are beige to pale brown, euhedral and 1-3mm in length.</p>																					









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GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 223

Logged By: T. Fraser

Date: Oct 12/95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
				Structure - @ 272.78 m the lower contact of DMAF is @ 45°.																			
	272.78	281.85	VSED	4	m	-	-	0.55	3	0	0	0	0	M	0	0	W	0	0	W	0	0	W
				Lithology - same as interval 232.38-271.60 m. Vague banding @ 60° to core axis.																			
				Alteration/Mineralization - same as interval 232.38-271.60 m.																			
				Structure - 274.35 m Shear @ 30°.																			
	281.85	337.76	VSED	1	M	4	W	0.6	2	0	TR	M	W	vw	0	0	W	W	m	W	TR	TR	W
				Lithology - The unit is dark to medium brown with several greenish grey patches. The lithology is aphanitic to fine grained. Dominantly the unit is vaguely bedded/banded with what appears to be soft sediment deformation features. Locally bedding is well defined but irregular (i.e. not planar) and at a high angle to core axis. Bands are defined by alternating tan and brown mm-scale beds. Locally though the unit has quite a granular texture (wacke?) and appears to be a breccia (Siltstone-like fragments 1-2cm) with a reworked matrix. Brecciated areas appear somewhat scrambled and have mottled alteration (biotite-rich).																			
				Alteration/Mineralization - The lithology contains disseminated and blebby pyrite. Chalcopyrite is finely disseminated. Pyrite veins vary from weak to moderate in intensity. Locally there were trace to weakly developed gypsum veins (319.00m - 325 m). Weak carbonate veins. Quartz veins contain disseminated pyrite and chalcopyrite. Trace grey quartz - carbonate - chalcopyrite veins. Trace pyrite - chalcopyrite veins.																			

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British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 223

Logged By: J. Fraser

Date: Oct 13/95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
				The unit is moderately potassic altered with very fine grained brown biotite (dominantly). Local areas are weakly to moderately Kspar altered (appears orange in colour). Trace red hematite veins.																			
				Structure - 281.85 - 284.07 Banding @ 60° 287.00 - 287.12 m gouge 284.07 - 287.12 m very weak banding @ 55° 289.68 - 289.76 m gouge 290.75 m shear @ 20° 296.17 m gouge 298.20 - 298.82 m shear with gouge @ 30° 299.40 m shear @ 40° 311.51 - 314.25 m weak banding @ 47° 312.40 - 312.80 shear/gouge 314.25 - 317.60 Banding @ 60° 316.00 - 317.60 m broken 327.96 gouge @ 30°																			
	337.76	408.74	VSED	4	W	-	-	1.0	2	0	TR	0	0	W	0	0	W <sub>s</sub>	W	W	0	0	W	
				Lithology - Buff to tan coloured volcanic sediments. The unit is fine grained to aphanitic (silt sized). Dominantly the lithology has very weak to somewhat well-defined bedding at a high angle to core axis. The lithology appears to be a siltstone/mudstone with a volcanic waste component. Locally, within bedded areas there are < 1 meter intervals of waste/breccia. The breccia is poly lithic and clast-supported. Fragments are generally 1 cm on average and may be up to 5-10 cm. The most common clast type appears to be of the same siltstone/mudstone lithology as this unit.																			

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British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 223

Logged By: T. Fraser

Date: Oct 13/95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
				Alteration/Mineralization - Chalcopyrite and pyrite are finely disseminated throughout the interval. Occasionally Chalcopyrite is blebby. The interval is well mineralized, although it doesn't appear that way without a hand lens. The unit is cut by weak quartz stockwork which contains disseminated chalcopyrite and pyrite. Trace quartz-carbonate-chalcopyrite ± pyrite veins. Weak carbonate veins. Weak to moderate pyrite veinlets. Trace hematite is disseminated near the end of the interval.																			
				Structure - 337.76-338.25 sheared with gouge 340.20-340.30 gouge 369.54m shear/gouge @ 22° 373.25m gouge 32° 378.40m gouge 40° 403.10-403.60m shear 0° to C.A.																			
				EOH @ 408.74m																			

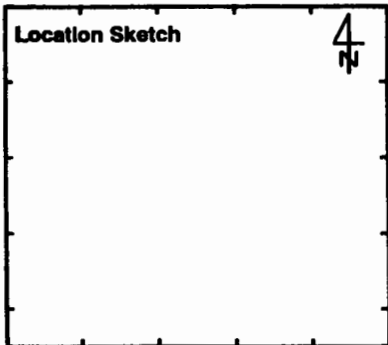
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British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 224

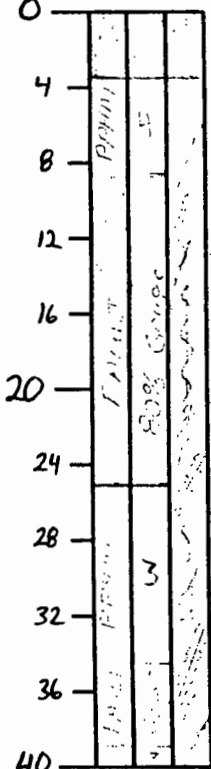


Grid Northing (m):	100 300
Grid Easting (m):	50 750
Elevation (m):	
Total Length (m):	264.26
Casing Depth (m):	3.66
Reduction Depth:	<i>[Signature]</i>
Collar Core Size:	HQ

Date Started:	Oct. 12/95
Date Completed:	Oct. 14/95
Logged By:	B. Thurston
Date Logged:	Oct. 12/95
Data Entry:	
Entry Date:	
Casing ( <del>in</del> Out):	Out

Survey	Depth	Azimuth	Dip
1	264.26	182°	-61°

Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
P	0.00	3.66	CASW																				
P	3.66	8.60	PPHM	4	W			.60	1	0	<1	0	0	M	W	0	W	0	W	0	0	M	
				Lithology: Beige-grey colour very fine porphyry cut by ~1-2mm Qtz veins Altn: w py cores. This almost looks like dyke material. Rock has minz: carb. healed fracturing. Hematite is in Qtz veins. Py is very trace diss. and mainly in Qtz veins & fractures. Cpy is mainly diss. in Qtz veins and less in matrix. Structure: * Rock is med. blocky w very little gouge or clay alt'd material * L.C. w fault is ?°, blocky w gouge.																			
P	8.60	15.08	FAUL			3	T	.30	2.5	0	T	0	0	S	S	0	T	0	0	0	T	M	
				Lithology: * This fault unit is approx. 80% gouge & clay altered material w Structure: fragments consistently < 1cm. Solid material w in fault consists of clay altered PPHM w trace Qtz veining. Parallel Hematite veins are observed from 13.85-14.00m but no magnetite. No Py or Carb veins. Py is diss in gouge fragments. Cpy is usually observed in solid core w Qtz veins. No Calcite Fizz. * Shears are // to C.H. to 20° throughout * L.C. @ 25° or 35° * Strong 3 alteration (mottled myllie) occurs on some solid core.																			

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British Columbia, Canada

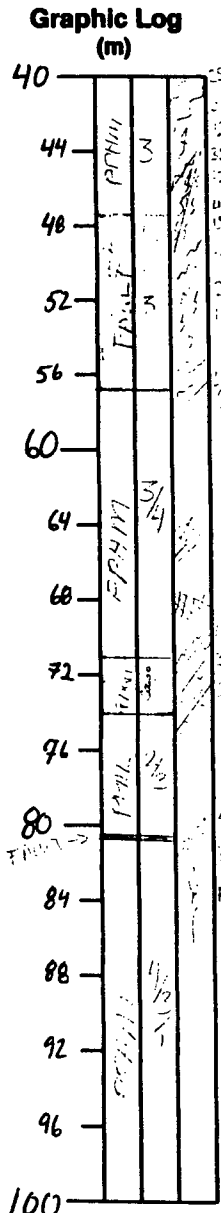
GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 224

Logged By: B. Thurston

Date: Oct. 12/95



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
P	25.00	34.60	PPHM?	3	S			<.3	3	0	T	?	0	S	W	?	0	vW	vW	0	0	wM	
				Lithology: Strong mottled phyllic alteration as blebs & ser+py envelopes & Alt'n: on fractures & veins. Core is light grey-green-beige w dark grey-green & Minz: ser+py blebs. Porphyritic texture is weakly to moderately preserved (1-2mm phens ser+clay alt'd). This looks like PPHM but there is no cpy & no Qtz veining. As well the structure consists of fracturing & veining parallel to core axis is all this points to this section possibly being PPHL. Diss & as envelopes on fractures & veins is black material which @ times looks like biotite & others looks like tourmaline? The determining factors to call this PPHM were (A) this same material appears in the fault above & contains Qtz veins & Hc. & (B) No good Hc exists in this unit but a red hematite dusting? occurs throughout. Structure: * Fracturing/Veining // to C.A. * L.C. w Fault @ 20° sharp.																			
P	34.60	37.85	FAUL					<.3	3	0	0	0	0	S	S	0	0	0	0	0	0	0	vW
				Structure: * +50% gouge material & clay alt'd PPHM, light beige to grey colour. * No frags in gouge. * gouge @ 20° for U.C. @ 25°, 30° for m.c. @ 25° for L.C.																			
P	37.85	47.50	PPHM?	3	m			<.3	2.5	0	0	?	0	S	m	?	0	T	0	0	0	m	
P	47.50	56.69	FAUL	3	m			<.3	1.5	0	T	?	0	S	S	?	T	T	w	0	0	m-S	
				Lithology: This is the same core as previously described. Greyish green w Structure: Strong sericization & clay altered ± gouge depending on amount of shearing on Faulting. Good porphyritic texture. * 37.85 → 43.50m SHEN ~ 25° → 30° * 43.50 → 47.50m minor SH's & gouge ± clay altered @ 12° & 30° * 47.50 U.C. Fault @ 15° w 30cm gouge. L.C. end of Blacky clay altered ± gouge @ * 47.50 → 56.69m Clay alt'd & Gouge ± SH'ing @ 10°, 15°, 25°																			

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GEOLOGIC DRILL LOG

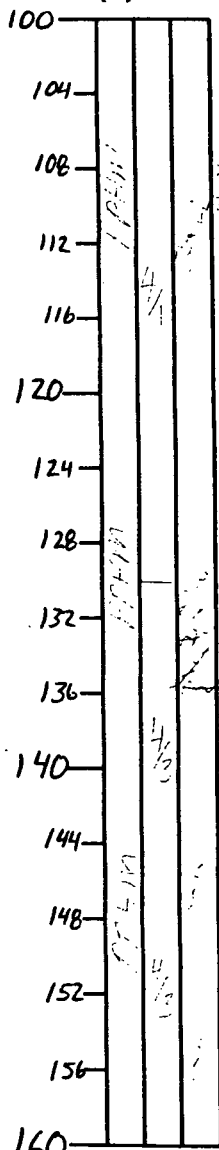
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 224

Logged By: B. Thurston

Date: Oct. 13/95

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	BI	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
P	56.69	71.00	PPHM?	3	m	4	T	<.3	2	0	<1		T	0	S	W-m	?	*	T	T	0	T	W-M
				Lithology:				Same as described 25.08 → 34.60 m.				Gray-green porphyritic, strongly											
				Alt'n:				sericitized & mottled PPHM?				PY + He ± Qtz ± Carb + Ser					veins / fracture filling						
				Minz:				run roughly parallel to cor axis (on 0° → 10°).				Cpy is noted as trace					in fractures & in these veins. No calcite. Phyllic envelopes (grey)						
																	on fractures & py veins. Very weak to trace Carb veins 1-2mm w one						
																	~ 1cm in thickness. Some zonation in plages. Py is ~ 50% diss & 50%						
																	as veinlets & in fractures.						
				Structure:				* Less clay altered / fractured overall.															
								* 64.70 → 66.60 m Blocky & clay alt'd.				No angle											
								* 68.40 → 71.00 m " " " "															
								* L.C. @ ~ 40° to 35° w fault.															
P	71.00	74.00	FAUL					<.3	2.3	0	0		0	0	S	M	0	0	0	T	0	0	S
				Lithology:				* Same as above material & past fault w strong fracturing +															
				Structure:				clay alteration ± gouge.															
								* U.C. ~ 40°				m.c. strong 35° in 30cm gouge					L.C. ~ 35° shear.						
P	74.00	80.30	PPHL?	2	m	3	w	<.3	2	0	0		0	0	S	W	0	0	0	0	0	0	W
				Lithology:				Same as above unit 56.69 → 71.00m				w-out the py + He + Qtz + Carb. var.											
				Alt'n:				phyllic ser + py pervasive & mottled ser blebs & envelopes.															
				Minz:				diss py. & fracture filling															
				Structure:				* SH @ 30°															
								* L.C. @ 70cm gouge @ 42° & 70°															
P	80.30	80.50	FAUL					<.3	2	0	0		0	0	M	S	0	0	0	0	0	0	0
				Lithology:				* 20cm gouge.															

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GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

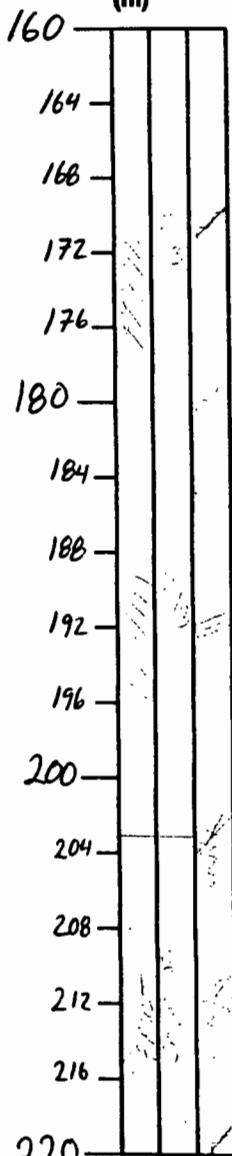
DRILL HOLE NO. 95 - 224

Logged By: B. Thurston

Date: Oct. 14/95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	MAG	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	80.50	130.00	PPHM	4	m	1	T	.30	1	0	1	T	W	vW	S	w	?	T	T	T	o	vW	W
S	130.00	137.00	PPHM	4	m	3	W	4.30	<1	0	T	0	T	0	M	W	?	T	0	M	0	0	W
S	137.00	158.00	PPHM	4	m	3	W	.60	3.5	0	<1	?	W	?	S	W	?	W-W	vW	vW	0	0	T
S	158.00	203.00	PPHM	4	m	3	vW	.90	3.5	0	<1	0	W	?	S	W	?	W-M	vW	W	0	0	M
Lithology:				Entire unit is PPHM with mainly ser+Qtz+Ank+Py Altered porphyry with																			
Alt'n:				Patchy Potassic (K+sp+Hc+Mag) & patchy Mottled phyllic blobs & ser/Py envelopes.																			
				Matrix is sericitized & Plag phen's are Zoned & partially sericitized. Matrix																			
				phen's are buff coloured (Ank=Clay?) & euhedral. Crowded porphyry. Qtz.																			
				Stk-work is usually only 1-2.5mm w py+carb+Hc in the core & fractures.																			
				Qtz is trace to 130m where shearing occurs to 137m, then Qtz Stk																			
				work increases to vW to Weak. and Cpx is noted occasionally in Qtz																			
				veins. At 158m Qtz increases to Moderate to Weak & Cpx is more evident																			
				in veins. Core is mainly a light green colour in Orange brown dominating																			
				in Potassic areas.																			
mmz:				- Py is diss > fractures & veins but in some areas py is very weak <1%.																			
				- Cpx is diss & on micro fractures to 158m then Cpx is noted in Qtz																			
				veins but still less than diss. Cpx.																			
				- Trace moly is observed in healed Carb+Qtz+py+Black Vein/Stk @ 152m.																			
				- No calcite noted by HCL. ; Carb veins are mainly as Fracture fillings																			
				and in shear zones.																			
				- Hematite is diss as black & red-orange specks & as veinlets and fracture																			
				fillings as well as staining.																			
				- Mag. is trace pervasive in Potassic areas																			
Structure:				* 83.50m Fract // to C.A																			
				* 111.50-112m Strong 30° & 0° to 10° SH/Fault																			
				* 130.00-137m Carb Healed ~ 4% carb + 50° <km SH & 60° gauge & 45° 3cm																			
				Breccia L.C. @ 72° 2cm gauge & 40° SH.																			
				* @ 146.40 & 146.80m 20° SH + Fault gauge.																			
				* 48-45° Sh'ing -160-200m																			
				* L.C. w Fault through Blocky sections & gradual SH's @ 20, 30, 45°																			



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British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 224

Logged By: B. Thurston

Date: Oct. 14/95

Graphic Log  
(m)

Interval	Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining							
		From	To	Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P 203.00	264.26	FAUL	4	w			.56	4	0	<1		m	o	s	m	T	vW	vW	vW	o	T	m-s
		<p>Lithology: - Fault material is ~35% gouge throughout which consists of Black material and grey to beige gouge. Qtz vein fragments or PPHM w Qtz veins broken up are the most observed fragment type within the gouge sections. These fragments are semi-angular to sub rounded, ranging in size usually &lt;5cm. The Qtz vein fragments are mineralized w diss. cpy &amp; py.</p> <p>- Solid core within the fault consists of PPHM material described in earlier work with the difference being that this PPHM material has mod. → strong healed shearing throughout ± clay altered &amp; gouge sections. Py &amp; Cpy are still diss &amp; along fractures. He is diss. &amp; as stain. Bio? To? Black → brown material is strong around shearing &amp; along fractures.</p> <p>Altn: Ser + Py + Ank + Ksp + Qtz. dominate the alteration mineral assemblage. He is diss. &amp; as stain. Carb. occurs as fracture fillings &amp; healing shears. Calcite is very weak in Carb. veins/fract. but is not pervasive in matrix.</p> <p>Min: Cpy is mainly in Qtz veins as disseminations. Cpy is less observed in matrix but is seen filling fractures. Cpy is not assoc. w Py. Py is also diss. &amp; as veins &amp; fracture fillings.</p> <p>Structure: * Shearing occurs throughout the Fault. ** The most common shears assoc w Gouge is 35° → 45° From 203 → 237m 0° → 10° From 237 → 264.26m.</p> <p>DYKE → DMAF? * Dyke material is observed @ 235.90 → 236.25 m @ 25° &amp; 35° @ 236.7 → 237.25 m @ ?°</p> <p>Colour is light beige → green → gray. Aphanitic groundmass of ser + clay? w ~3% bright green sericitized plagioclase &amp; 2 varieties of altered mafic phenos? Hld. &amp; Bio?. Black patches ~1 → 2mm contain py &amp; ? Fracturing ± Carb. healing/veins. Positive identification of biotite phenocrysts in second dyke but they are small &amp; brown like phallogopite not like the large black bio. crystals commonly assoc. w DMAF.</p> <p>No Hematite. Trace calcite partially replacing some phenos.</p> <p>* Strong 0° → 5° from 237 → 249m</p>																				



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British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 225

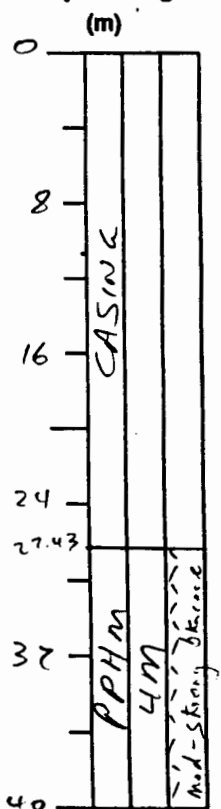
Location Sketch

Grid Northing (m): 99 250  
 Grid Easting (m): 49 050  
 Elevation (m):  
 Total Length (m): 310.90 m  
 Casing Depth (m): 27.43  
 Reduction Depth: /  
 Collar Core Size: NQ

Date Started: Oct 13 '95  
 Date Completed: Oct 16 '95  
 Logged By: IAN FOREMAN  
 Date Logged: Oct 14 '95  
 Data Entry:  
 Entry Date:  
 Casing (In/Out): OUT

Survey	Depth	Azimuth	Dip
S.S	154.53	171.5°	-63
S.S	306.93	176.0	-64

Graphic Log



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
	0.0	27.43																					
	27.43	44.28	PPHm	4	m			Tr	3	/	Tr	/	/	m	m	/	Tr	/	Tr	/	/	/	VS
	<p>LITHOLOGY:                      The unit is predominantly greenish grey with 1 to 3 meter sections that are yellowish green. The porphyritic texture is well preserved throughout. 20% 1-4mm subhedral to euhedral cream to clear plagioclase and 15% 1 to 3mm subhedral to euhedral cream to pale green, locally dk green, amphibole. The ground mass is aphanitic throughout and locally has a mottled appearance. Trace carbonate veining is irregular throughout. Trace quartz stockworks as irregular 1-4mm dark grey quartz veins with predominantly pyrite and trace chalcopyrite. Chalcopyrite also occurs in fracture fill associated with pyrite. The remainder of the pyrite occurs as large disseminations and 1-3mm irregular blebs.</p> <p>L.C. in skin core</p> <p>ALTERATION:                      Moderate Qtz-Ank-Ser-Kap alteration throughout</p>																						







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GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

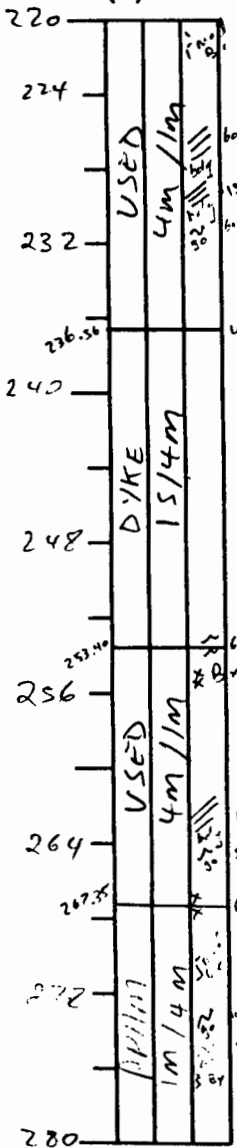
DRILL HOLE NO. 95 - 225

Logged By: Tom FOLEY

Date: OCT 15 '95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	13.16	137.42	PPH11A	4	m	1	VW	0.9	4	/	Tr	/	Tr	m	m	/	w	/	VW	/	/	w
				<p><u>LITH+MIN:</u></p> <p>This unit is main phase with 5 to 20cm sections of Volcanic SEDS. The unit has an overall greenish grey colour with 20cm to 2.65m sections that are reddish brown. Generally the main phase is moderately well preserved porphyritic texture except near fractures and veins where the texture is obscured by alteration. The unit is strongly cross-cut by local fractures, which combined with the veins results in a very inhomogeneous appearance. The main phase has 20% cream to translucent green 1-3mm subrounded to euhedral feldspars and 15% cream to buff 1-3mm subangular to euhedral kumblersides. The sections of USEDS are aphanitic in appearance but on closer inspection grains (phenos) are apparent. These grains are 1-2mm, subrounded, light greyish green to cream and make up 10% of the unit. The USEDS sections also have some typical characteristics such as py, apy and pylepy blebs occurring with chlorite giving the rock a mottled appearance; the typical yellowish green colour with locally dots of bright green (mainly positive) alteration; and the sharp and smooth nature of the fresh surfaces when broken.</p> <p>The contacts between the PPH11A and the USEDS are always obscured by the strong fracturing and local veining. Locally the unit is b'd with both PPH11A and possible USEDS fragments.</p> <p>Weak quartz stockwork with 2mm to 3cm generally poorly mineralized quartz veins. Rare quartz veins are well mineralized, very weak carbonate as veins and fracture fill. No arsenic veins.</p> <p>0.8-1.1% chlorite occurs predominantly as fine disseminations and 1-2mm rounded blebs. Chlorite also occurs as fracture fill and in quartz veins. 4% pyrite occurs</p>																		





Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy				Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	137.42	157.14	conrb																			
	<p>characteristics of the alter. The outer portions are yellowish green to tan in colour whereas the middle of the unit is dark green, when aphanitic in appearance. The unit appears massive but locally 1-4mm subhedral euhedral to yellowish green phenos occupy up to 6-7%. Throughout entire unit is 10-15% light translucent green 1-3mm crystals. &gt;50% of these are subrounded to rounded (detrital?). In the central portion of the unit, where the unit has a porphyritic appearance, the crystals are light green, sub to euhedral, 1-4mm and occupy 15 to 30% of the rock. This portion does not look like PPHM because no mafics were identified, the crystals are not sericite altered, many crystals appear rounded and the matrix has a texture rather than being massive and aphanitic.</p> <p>If this central portion is indeed intrusive then it is different from the main and late phases noted elsewhere in the vein zone. Locally the unit is b'd. At 151.50m main phase fragments do exist in the breccia.</p> <p>Weak quartz stockwork with poorly mineralized veins. Weak to trace carbonate in veins and fracture fill.</p> <p>0.6-1.0% chalcopyrite occurs primarily as fine dissemination 1-4mm blebs and fracture fill. Coy also occurs in quartz veins.</p> <p>3-4% pyrite occurs as fine dissemination, fracture fill and 1-4mm blebs as well as in veins. Sphalerite occurs rarely but @ 145.60m the sphalerite is semi-massive in a 0.5cm carbonate vein. The sph occurs in p.c. &amp; UY. Trace molybdenum occurs in rare quartz veins throughout the unit. Trace hematite primarily occurs as fracture fill and in veins.</p> <p>L.C.</p> <p>Sharp @ 70°</p>																					

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 225

Logged By: Tom Freeman

Date: OCT 15 '95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	137.42	157.14	CONT'D	ALTERATION:																		
	Predominately moderate Qtz-An-Ser +/- trace alteration throughout with weak potassic alteration occurring as patches between 2 and 15 cm in size.																					
	STRUCTURE:																					
	- 141.45 - 141.52m → red bkn org core w trace gose																					
	- 142.40 - 143.23m → light grey DMAF w the upper contact obscured by strongly bkn core and the lower contact sharp @ 70°																					
	- 150.21 - 150.35m → strongly bkn partially redilled core.																					
	157.14	170.37	PPHMZ	1	m	4	m	0.5	0.5		m	m	m				w			w		
	LITH + MIN																					
	This unit varies greatly in colour and ranges from pale greenish grey to dark brownish red, 20-25% <1-4mm sub to embedded cream to light green feldspars and 20-25% embedded lath shaped <1-3mm buff to dark green hornblendes, locally. Kfs is 3-5% <1-2mm subangular to rounded black specs (Tourmaline?). Locally, 185.33 - 185.89m the unit is identical to classic DPFH.																					
	Weak carbonate throughout as veins and fractures 0.1 to 1' pyrite as fine disseminations. Ti to 3% hematite as rare blebs but mostly as pervasive coloration of ground-mass (and feldspars?).																					
	L.C:																					
	Lower contact is in bkn core.																					
	ALTERATION:																					
	It is possible that the entire unit was potassic and the greenish grey units were leached or that the entire unit was Qtz-An-Ser +/- trace altered and the potassic sections are overprinted.																					



RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 225

Logged By: Jan Foreman

Date: Oct 16 '96

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining										
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	BI	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.					
	157.14	190.37	Cont'd	<u>STRUCTURE:</u>																							
				- 168.65 - 168.93m → Bx w 0.5-3mm and 1/2mm/1/4mm frags in a dark grey pyrite-rich matrix. Bx has rare subrounded Qtz frags.																							
				- 173.74 - 173.50m → Bx very similar to the one described above. contacts @ 45°																							
				- 186.24 - 186.40m → cemented gouge @ 30°																							
	190.37	195.10	VSED	4	m		0.6	3	/	/	/	/	m	m		vw	/	m	/	/	w						
				<u>LITH+MIN:</u>																							
				The unit is a mottled light-dark grey to greenish grey. Typically, the unit is aphanitic and massive but locally it contains 10-15% <1-3mm subhedral to subrounded grey crystals which may be feldspars. The unit also contains 1-3% clmm black specs (tourmaline?)																							
				Locally the unit has a mottled grey and green appearance due to 5-10% chlorite as blebs and fine fill. These chlorite blebs commonly contain 1-2% CPZ.																							
				Trace to weak quartz stockwork and moderate carbonate as veins and fracture fill.																							
				0.6% CPZ as fine disseminations, <1-3mm rounded blebs fracture fill and in quartz veins. 2-4% pyrite occurs in the same manner.																							
				<u>L.S.</u>																							
				Sharp greasy contact @ 70°																							
				<u>ALTERATION</u>																							
				It is assumed that the unit has pervasive Qtz-An-Ser																							
				The K has alteration throughout																							
				<u>STRUCTURE:</u>																							
				- no notable structures																							

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95-225

Logged By: Jim Freeman

Date: OCT 16 '95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	195.10	201.82	PPHm2	4	M	4	m	/	0.5	/	0.5	/	m	m	m	/	/	w	/	/	w	
	<p>LITH+MIN+ALT: This is the same dyke that is above the volcanic sediments and is described between 157.4 and 190.37 meters L.C. Sharp @ 2-4mm gouge zone @ 30° STRUCTURE: - 198.32m → gouge on slip @ 30° - 200.56m → gouge on slip @ 30° - 200.64m → gouge on slip @ 50°</p>																					
	201.82	205.53	PPHm	4	m			0.5	3	/	/	/	m	m	/	w	/	M	/	/	w	
	<p>LITH+MIN: The unit is greyish green with a well preserved porphyritic texture. 20% greyish green to cream 1-3mm subrounded to euhedral feldspars and 15-20% 4-3mm buff to light green subang to euhedral hornblende. Locally the unit has a mottled white and grey colour. Very weak quartz stockwork to poorly mineralized qtz veins. Moderate carbonate on fracture fill and 2mm to 3cm veins. 0.3-0.6% Chl. apatite and 3% pyrite → local dissemination. 1-3mm blebs fracture fill and in veins. L.C. Sharp irregular contact (no flow features?) or weak shear zone @ 30° ALTERATION: Weak to moderate qtz-alk-ses%. No alteration throughout STRUCTURE: - 202.76-203.12m → PPHm2 dyke w sharp contacts @ 40°</p>																					

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 225

Logged By: Iron Foreman

Date: Oct 15 '95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	205.53	226.56	USED	4	m	1	m	0.8	3	/	Tr	/	m	m	m	/	Tr	/	w	/	/	w
				<p><u>LITH + min:</u></p> <p>This unit varies greatly both in lithology and in colour. It is predominately greenish grey or reddish brown but locally it is dark green, pale grey or orange. Lithologically the unit is predominately ophanitic in appearance and massive. Locally the unit contains 3-8% &lt;1-2mm white to greenish grey subangular to subrounded crystals (epidotes?). Elsewhere the unit contains 1-3% light to medium green subrounded to rounded 1-3mm grains which may be detrital. Over 10-15cm there are concentrations of &lt;1-4mm irregular chl and hematite blebs. These blebs are commonly associated w Py<sup>+</sup> sp.</p> <p>Locally the unit has well preserved bedding. The proximity of bedding at varying angles may indicate that they are fragments (upto 15-20cm!). The unit locally appears fragmental with 5-10% 0.5-3cm subrounded to subangular USED fragments. The 1st 3 metres of the unit has a "splochy" appearance w reddish brown to dark green 0.5 to 2cm chls. 222.25-223.0m appears porphyritic.</p> <p>Trace quartz stockwork an irregularly spaced 2-8mm grey quartz veins that are typically poorly mineralized. Weak carbonate veining throughout.</p> <p>0.6-1% chlorite and 2-4% pyrite occur primarily as bed disseminations, 1-3mm rounded to irregular blebs, fracture fill and in quartz veins. Hematite occurs as blebs and fracture fill.</p> <p><u>L.C.:</u></p> <p>Sharp contact at edge of carbonate vein in angular lens @ 40°</p> <p><u>ACTIVATIONS:</u></p> <p>The predominant style of alteration through this unit is assumed to be moderate Qtz-Ak-Ser + Ksp. Sections</p>																		



GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

Graphic Log  
 (m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
	236.56	253.40	Cont'd		<u>ALTERATION:</u>																		
					The majority of this unit (80%) is strongly potassic altered. However there are 2-15cm bands of strong phyllic alteration as envelopes to py/carbonate veins. The top 2.5meters of the unit is light greyish green and is moderately Qtz-Ank-Ser + Kfs altered.																		
					<u>STRUCTURE:</u>																		
					- no notable structures																		
	253.40	267.35	USC D	4	m	1	m	0.8	3	Tr		m	m	m		VW		W			W		
					<u>LITH + MIN + ALT:</u>																		
					This is a continuation of the VOLCANIC SEDIMENTARY unit that is above the dykes and is described between 205.93 and 236.56 meters.																		
					The potassic alteration is locally very strong in small sections for example certain beds of a cm scale bedded section.																		
					<u>L.C.:</u>																		
					sharp contact @ the top of shear/breccia zone @ 60°																		
					<u>STRUCTURE:</u>																		
					- 255.14 - 255.77 → bedded like bx @ 0.5-3cm ang frays in dark grey matrix																		
					U.C @ 45° and L.C @ 60°																		
					- 263.25 - 263.60 → bedding @ 60°																		
					- 264.85m → 1cm yellow slip @ 50°																		
	277.35	293.43	PP thin	1	m	LI	m		1.5	Tr		m	m	m				Tr			W		
					<u>LITH + MIN:</u>																		
					80% of the unit is pale reddish brown and the remaining 20% is greyish green. The porphyritic texture is moderately well preserved thro. h.c.t. 20-25% transverse + reddish brown to green																		
					cl-2mm sub to embayed reddish part 15-20% cl-2mm																		

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 225

Logged By: Jim Foran

Date: Oct 16 '95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	267.35	273.43	CONT'D																			
<p>cream and buff to reddish brown sub to earthy hard blends locally the unit appears crowded - containing 20% plerocrysts. The unit is very homogeneous with trace carbonate veins and weak healed fractures. No quartz veins were noted through the unit. 1.5% pyrite occurs as u.f.g'd disseminations and as fracture fill! L.C.: Sleep @ 20° ALTERATION: Predominantly moderate, locally strong, potassic alteration through out with the 20% greyish green sections being moderately Qtz - Ark - Ser + K<sub>2</sub>O altered. STRUCTURE: -271.76-272.41m → moderately fine 1-4cm ang coarse to fine grained -274.25m → cemented coarse + rubble in healed fractures @ 10-15° -275.62m → gouge on blank @ 40-50° -276.07-276.16m → by 2-8mm angular and rounded fragments in adobe grey ground mass. -286.37m → 1cm cemented gouge = rubble @ 10-15°</p>																						
	273.43	291.44	USED	+	M			0.4	3	/	/	/	W	M	/	Tr	/	Tr	/	/	W	
<p>LITH + MIN: grey to greenish grey aphanitic and massive sediments with 1-3% rounded translucent light green rounded blebs. Dark green translucent irregular blebs as fracture fill (sericite vs talc?) we very soft. Trace quartz as 12mm veins and as 0.5-2cm irregular blebs (- bleb veins vs irregular veins). Trace carbonate as fracture fill and veins. 0.3-0.5% chlorite and 3% pyrite occur as f.g'd dissemination. 1-3mm rounded blebs, sericite fill</p>																						

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 225

Logged By: Tom Frenn  
Date: Oct 16 '95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
	293.43	294.44	Cont'd																				
	<p>ad in veins L.C:</p> <p>lower contact in @ the end of the run and is possibly @ 30°</p> <p><u>ALTERATION:</u> It is assumed that this unit is moderately Qtz-Ank-Seritic altered. The unit is strongly sericite altered as evidenced by the sericite blebs and fine ill.</p> <p><u>STRUCTURE:</u> - No notable structures</p>																						
	294.44	310.90	DYKE 4	4	m	l	m	l	l	l	l	l	l	l	l	l	l	l	l	l	l	l	l
	<p>LITHO MIN:</p> <p>The unit is greenish grey to pale brownish green and has a well preserved porphyritic texture throughout. 20% light translucent green to cream 1-2 mm sub-arketic oldspass and 15-20% cream to buff 1-3 mm sub-arketic hornblende. What distinguishes this unit is 2-5% dark green 2mm-2.5cm irregular blebs. These blebs commonly contain rigid pyrite. The blebs are soft (can be easily scratched with a nail) and are most probably sericite +/- chlorite. Trace quartz veins @ the end of the unit are all &lt; 5mm.</p> <p>L.C:</p> <p>E.O.H</p> <p><u>ALTERATION</u> The alteration of this unit is decreasing. The unit stains moderately in HF. Incidentally the parts that stained were the brownish green sections. The rest of the unit is moderately Qtz-Ser-Ank ± Kfd altered.</p> <p><u>STRUCTURE:</u> - 301.00 - 302.95 m @ has 90% in S-10 cm sections of later calc.</p>																						
	310.90	310.90	E.O.H																				

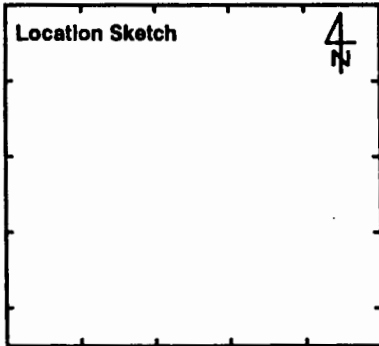
RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 226

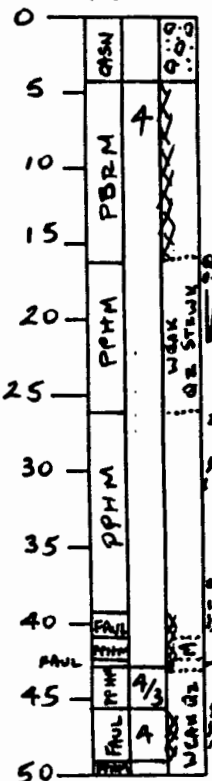


Grid Northing (m):	100 350
Grid Easting (m):	50650
Elevation (m):	
Total Length (m):	242.93
Casing Depth (m):	4.57
Reduction Depth:	—
Collar Core Size:	HQ

Date Started:	OCT. 14
Date Completed:	OCT. 17
Logged By:	G. ALLEN
Date Logged:	OCT. 15, 16, 17
Data Entry:	
Entry Date:	
Casing (In/Out):	

Survey	Depth	Azimuth	Dip
J.D. COLLAR		180	-60
S-S	121.92	186 1/2	-59
S-S	242.93	189 1/2	-60

Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining								
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Mo	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.			
P	0	4.57	CASN																							
P	4.57	16.65	PBRM	↑	M			0.3	4						M			T		VW			S			
				<p>LITHOLOGY: Mottled medium greenish-grey to brownish-grey to dark brown-grey feldspar - hornblende phytic intrusive breccia. Veins to distinct subrounded to subangular porphyritic fragments up to 20 cm (commonly 1-5 cm) in a finer-grained porphyry with textures largely obliterated. Brecciation could in part be due to subvolcanic attrition. Porphyritic fragments are medium-grained with 30-40% 1-2 mm stubby square to prism-shaped outlines. 10-15% pinkish brown prism alt hornblende to 2 mm. Subhedral.</p> <p>ALT: Pervasive silicate - carbonate. Weak fizz on scratched surface with HCl.</p> <p>MINERALIZATION: 3-4% medium disseminated PY. Minor PY in veins to 1 cm. Trace to 0.5% disseminated CP. Minor CP with some quartz stringers. Trace disseminated Mo.</p> <p>12.5- max CP to 1 cm with PY.</p>																						



RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

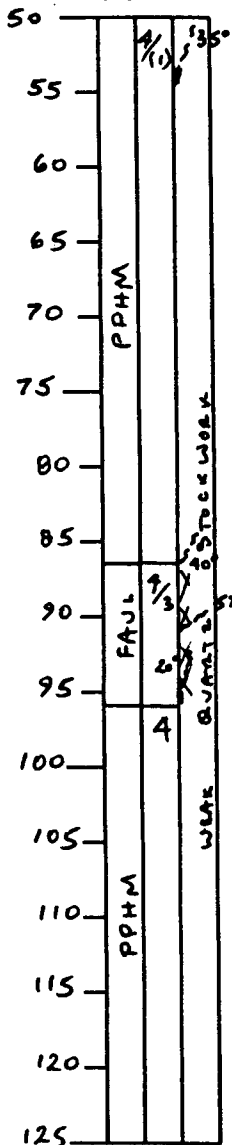
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 226

Logged By: G. ALLEN

Date: OCT. 14

Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining								
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.			
				STRUCTURE: 4.57 - 5.18 -				White carbonate -				flooded breccia.													
				5.18 - 7.62 -				Blocky core.				Pulchre shaped subparallel CA.													
				12.5 - 16 -				"				"													
				Pure quartz in irregular masses to 1.5cm. Some look like fractured quartz stringers.																					
P	16.65	26.25	PPHM	4	M			0.3	3		4			M		W		W			W				
				LIT: Predom. medium greenish to brownish-grey hornblende - feldspar physis intrusion with some breccia inclusions (min). 30-40% stubby to prismatic greenish subhedral to anhedral phenocrysts to 2mm. Pinkish subhedral to anhedral alt prisms of hornblende to 3mm. Sporadic black areas of hematite to 5%.																					
				ALT: Permian sericitic / carbonate.																					
				MIN: 1-4% dissemin PY (average ~3% PY). PY also in cores of quartz stringers with white carbonate + hematite. 5% dissemin hematite. Hematite + pyrite appear to have an inverse relationship. Traces to 0.6% CP predom with quartz stringers but also dissemin.																					
				STRUCTURE: Weak quartz stringers with blue-grey quartz stringers to 1.5cm (average < 1cm). Stringers typically 0-15° CA.																					

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

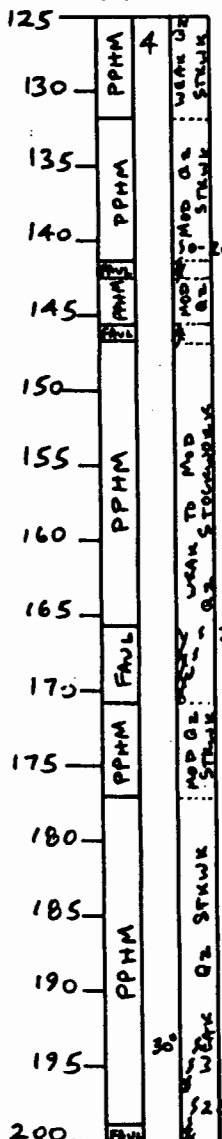
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 226

Logged By: G. ALLEN

Date: OCT. 14

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	26.29	39.20	PPHM	4	M			0.4	2		4			M		VW	T		VW		T	W
	<p>LITHOLOGY: Mottled medium to light greenish-grey to dark blue-grey medium-grained hornblende-feldspar phytic intrusions much as seen above. Texture in upper part of interval obscure. Unit separated out or vein of quartz stringer content (low).</p> <p>ALT: Pervasive sericitic-carbonate. Minor massive black tourmaline around calc. str.</p> <p>MINERALIZATION: 1-4% disseminated PY. 4-5% f-g aples dissemin. beneath. Dissemin + quartz stringer related CP to 0.6%, average 0.4%.</p> <p>STRUCTURE: Minor shearing 25° CA. 32-33- Weak crush zone. Fractures subparallel CA.</p>																					
P	39.20	40.90	FAUL	4	M			0.3	3			S		M		S						M
	<p>LITHOLOGY: Predom black &amp; dark greenish-grey sheared rock. Black colour could be f-g biotite or possibly tourmaline. Part of interval gouge.</p> <p>ALT: Pervasive sericitic + tourmaline ± biotite.</p> <p>MINERALIZATION: 3-4% f-g dissemin PY. Trace to 0.3% CP, disseminated throughout.</p> <p>STRUCTURE: Shear 40± subparallel CA.</p>																					

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

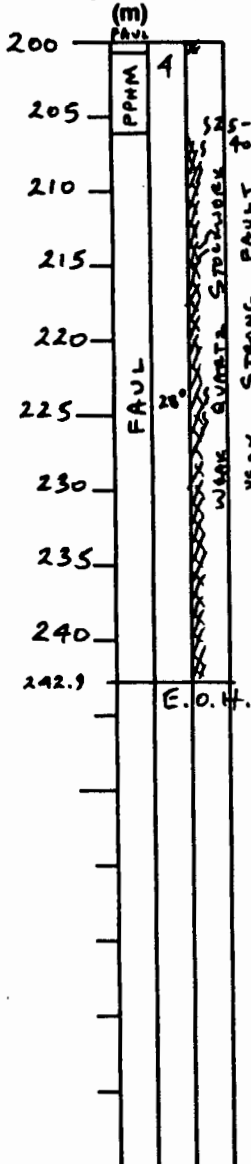
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 226

Logged By: G. ALLEN

Date: OCT. 14

Graphic Log



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	40.90	42.25	PPHM	4	M			0.5	3		2			M		VW	M	+	VW			M
	<p>LITHOLOGY: Medium greenish-grey to dark greenish grey medium-grained feldspar plagioclase intrusion as above fault. Textures largely blocky.</p> <p>ALT: Peruvian calc/silicate. Black f-g tourmaline developed adjacent down fault.</p> <p>MINERALIZATION: 2-4% dissemin PY. 0.5% dissemin + quartz stringer-related CP. Sporadic white specular hematite.</p> <p>STRUCTURE: Moderate quartz stockwork with several blue-grey quartz stringers to 4cm (average &lt; 1cm), generally 70°-80° EA.</p>																					
P	42.25	42.88	FAUL	4	M				+				M		M							I
	<p>LITHOLOGY: Greenish to black crush, gouge + rock fragments to 1cm. Shearing 60°.</p>																					
P	42.88	45.95	PPHM	4	M	3	W	0.6	2		3			M		W		VW				W
	<p>LITHOLOGY: Mottled light to medium greenish-grey medium-grained hornblende - feldspar plagioclase intrusion as seen above.</p> <p>ALT: Peruvian sericite - carbonate alt. Minor intervals with dark green sericite clots to 5mm.</p> <p>MINERALIZATION: 1-2% f-g dissemin PY. Sporadic dissemin hematite as black specks and in quartz stringers. Dissemin of qtz stringer-related CP.</p>																					

DRILL HOLE NO. 95 - 226

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 226

Logged By: G. ALLEN

Date: OCT. 14

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
				STRUCTURE: Weak quartz stockwork with stringers/m, 40-70° CA.											3-4		≤ 1cm					quartz/carb
P	45.95	49.05	FAUL	4	M			0.3	4					M		M	W	T			S	
				LITHOLOGY: Mottled beds to dark greenish-grey feldspar physis plutonic + cataclastic breccia. Interal sporadically crushed + sheared.																		
				ALT: Black mineral (tourmaline?) developed along fractures + pervasively. Overprinting pervasive sericite/carbonate.																		
				MINERALIZATION: 4% pyrom. dissem PY. Minor stringer PY. Trace to 0.3% CP, generally dissem but with obscure discontinuous quartz stringers + frags.																		
				STRUCTURE: Sporadic crush + shear throughout. Shearing 15° CA, 40° CA.																		
P	49.05	86.60	PPHM	4	M	I	VW	0.6	2		4			M		W				T	W	W
				LITHOLOGY: Mottled light greenish-grey to dark blue-grey to medium brownish-grey medium-grained feldspar physis intrusion. Fractures sporadically destroyed. Some weak plutonic breccia with frags to 1cm. Generally it looks like a inhomogeneously altered intrusion.																		
				ALT: Pervasive sericite - carbonate. Minor dark silicatic envelopes around fractures. 83-85 - brownish colour Very weak yellow stain with K Co Noz																		
				MIN: 2% dissem PY. 4-5% dissem f-g hematite + fracture-related hematite. 75-76.5 - Strong hematite stockwork.																		

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Liard Mining Division  
 British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 226

Logged By: G. ALLEN

Date: OCT. 14

Graphic Log  
 (m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	86.60	95.85	FAUL	A	M	3	W	0.3	3	4				M		M	W	W			M	

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

Graphic Log  
 (m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	95.85	131.80	PPHM	4	M			0.6	2.5		4			M		W	W	W	W		W	W
<p>LITHOLOGY: Mottled <sup>light</sup> medium to dark greenish-grey sporadically altered feldspar porphyry as above fault. Textures mostly obscure. Pseudobreccia textures from alteration to olive grey along fractures. Sporadic minor crush intervals with associated block mineral giving core an inhomogeneous appearance.</p> <p>AFT: Perovskite - carbonate. Minor black tourmaline associated with fractures.</p> <p>MIN: Average 2.5% PY, freedom dissemin + minor stringer-related PY. Sporadic f-g dissemin. hematite average - 4%. Hematite also in quartz stringers. Average 0.6% CP both disseminated and in quartz stringers.</p> <p>121-124 - Strong quartz stockwork with ~2% CP.</p> <p>STRUCTURE: Weak quartz stockwork with 3-4 blue-grey quartz stringers / m, average <math>\leq 1</math> mm. Qz 10-80°C, mostly <math>&gt; 45^\circ</math>.</p>																						
P	131.80	141.4	PPHM	4	M			1.2	3		5			M		M		W	T		W	
<p>LITHOLOGY: Freedom light to medium greenish grey aphanitic (due to alteration) to medium-grained feldspar porphyritic intrusion. Stubby to prism-shaped greenish grey colored to subhedral feldspar phenocrysts ~25-40%.</p> <p>140.2-141.4 breccia with grey aphanitic to m-g fsp physis subangular fragments to 1 cm. Quartz veins brecciated in a vaguely porphyritic groundmass. <math>\therefore</math> Post-mineralization tectonic breccia.</p>																						

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GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 226

Logged By: G. ALLEN

Date: OCT. 15

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining														
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.									
				ALTERATION: Pervasive sericite - carbonate				MINERALIZATION: Sporadic 3% dissemin. PY. 4-5% dissemin. hematite; very f. g. blade spec disse in host rock + in quartz stringers. Average 1-2% CP freedom in quartz stringers + local dissemin.				STRUCTURE: Medium quartz stockwork with several blue-grey quartz stringers per metre. Stringers up to 3cm (average 1-2cm) subparallel to 20° CA. Quartz typically has white carbonate core with PY. Quartz crosscut by white carbonate + rare gypsum.																			
P	141.4	142.6	FAUL	4	M			T < 1	4				M			VW						S									
				LITHOLOGY: Medium greenish-grey medium-grained fsp phytic plutonic. Much as above. Mostly homogeneous but some breccia. Rubble throughout. Blocky core.				ALT: Pervasive sericite - carbonate.				MIN: Traces CP in rare quartz stringer. 41% dissemin. PY. 4-5% dissemin. hematite.					STRUCTURE: Blocky core throughout. Show 0-20° CA. Minor gangue crush on fracture surfaces.														

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

Graphic Log  
 (m)

P S	Interval		Rock Code	Alteration Facies			Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	142.6	145.55	PPHM	+	M			1.5	3		+			M		M		W				W
<p>LITTOLOGY: Medium greenish-grey, roughly m-g felsic intrusion as above. Roughly 50% of interval is a breccia with subrounded aphanitic to f-g fsp phytic fragments to 1 cm in a fsp phytic intrusion matrix.</p> <p>ALT: Permin sericite - carbonate.</p> <p>M.I.: 3% PY predom in quartz stringers but also diatom. 4% f-g diatom blocks to dark red-grey spic &amp; mass to 2 mm. 1.5% diatom + quartz, stringer - related CP.</p> <p>STRUCTURE: Moderate quartz stockwork with several blue-grey py stringers to 1 cm / m. Orientation typically 20-40° cf.</p>																						
P	145.55	146.30	FAUL	+	M			0.6	2					M		W						S
<p>LITTOLOGY: Strong crush, rubble, blocky con. Medium greenish-grey, roughly fsp phytic intrusion &amp; some breccia, as above. Most of interval crushed &amp; rubble. Minor gangue. Sheared 30°. Chunks of quartz to 2 cm with 5% PY &amp; 2% CP.</p>																						
P	146.30	165.72	PPHM	+	M			0.8	1.5					M		W-M		W			VW	W
<p>LITTOLOGY: Mottled light to medium greenish-grey to dark grey to brown-grey (minor). 0% of interval massive roughly fsp phytic intrusion. Some parts require breccia with rounded fsp phytic frags to 2 cm in fsp phytic matrix. Some parts pseudobreccia due to alt around fractures &amp; veining.</p>																						



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British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 226

Logged By: G. ALLEN

Date: OCT. 15

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining				
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:
				ALT: Perovine sericite, carbonate.																	
				MINERALIZATION: 1-3% f-g dissemin + grey stringer-related PY. 4-8% f-g dissemin beds hematite giving rock a dark colour in some intervals. Average 0.8% CP (<1%) predom in + adjacent to quartz stringers. Some disseminated throughout. Minor CP lenses on fractures.																	
				STRUCTURE: Weak to moderate quartz stockwork ± 2-10 stringers of blue-grey quartz (+ white carbonate veins + PY) to 3cm wide. Generally hematitic. Stringers 30-80° ca. 165.6 - 165.72 - Blocky conc.																	
P	165.72	170.70	FAUL	F	M			0.5	1				M		W		W				S-M
				LITROLOGY: Mottled medium greenish-grey to dark grey sheared mylonitized feldspar porphyry as above. Most of texture obliterated. Some parts black (hematite?).																	
				ALT: Perovine sericite / carbonate																	
				MIN: 1% dissemin pyrite. Average 0.5% CP predom in quartz stringers + fragments of stringers																	
				STRUCTURE: Shear / crushed + sheared (conglomerate?) throughout. Shearing predom ~ 30° ca. Quartz or carbonate stringers fragmented by shearing.																	

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GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 226

Logged By: G. ALLEN

Date: OCT. 15

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	170.78	177.20	PPHM	4	M			0.5	1.5		S			M		M		W		W	W	
<p>LITHOLOGY: Medium grained - grey to red-orange feldspar phytic medium-grained intrusion. Textures obscured by alteration. Black spots of clots of 1cm of hematite, disseminated, along fractures, and in quartz stringers.</p> <p>ALT: Pervasive sericite &amp; carbonate.</p> <p>MINERALIZATION: Average 1.5% PY predom in quartz stringers. 5-7% hematite. Inverse relationship between PY &amp; hematite. ~0.5% CP predom in quartz stringers &amp; minor dissemin.</p> <p>STRUCTURE: Moderate quartz stockwork with several (4-10%) blue-grey hematite stringers to 1cm most commonly 30-40° CA.</p>																						
P	177.2	199.0	PPHM	4	M			0.6	1.5	T	S			M		W		W		W	W	
<p>LITHOLOGY: As above. Unit separated from above because of lesser amounts of quartz stringers.</p> <p>MINERALIZATION: 1.5% PY predom in quartz stringers. 5-7% hematite. 0.6% CP dissemin &amp; in quartz stringers. Trace hornite with CP in quartz stringers.</p> <p>STRUCTURE: 3-4 generally &lt; 0.5cm blue-grey quartz stringers / m. Stringers 30-90° CA but most commonly 35° CA ∴ probably vertical to BS°N if 90° to azimuth of hole.</p> <p>193.45 - 194.1 - strong quartz stringer zone 35° CA. 5% + CP.</p> <p>196.8 - 197 - cross zone - 30° CA.</p>																						

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GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 226

Logged By: G-ALLEN

Date: OCT. 15

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	199.0	200.05	FAUL	4	M			0.3	1		5			M		W		W				M
<p>LITTOLOGY: As above. Medium greenish - grey vaguely fsp phytic m-g intrusion. Blocky. Sporadic weak crush.</p> <p>200.4 - 200.05 - Mylonite / breccia 25°C. Quartz string fragmented :: post mineralization.</p>																						
P	200.05	206.15	PPHM	4	M			0.3	1	T	5			M		W		W		VW	W	
<p>LITTOLOGY: As units above. Medium greenish - grey vaguely fsp phytic fine medium - grained intrusion with 5-7% blade decuss f-g hematite. Some hematite clots to 1cm giving rock a mottled appearance.</p> <p>ALTERATION: Pervasive sericite - carbonate.</p> <p>MINERALIZATION: 12% PY freedom in quartz stringers. 5-7% f-g disc + clots of hematite. ~0.3% CP freedom in quartz stringers. Traces bornite with CP in quartz stringers.</p> <p>STRUCTURE: Weak quartz stockwork. Several (3-10) generally &lt;0.5cm blue-grey quartz stringers/m, 20-70°C.</p>																						

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GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 226

Logged By: G. ALLEN

Date: OCT. 15

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	206.15	242.93	FAUL	4	M			<0.3	4					M	M	W		W			S	
			E.O.H.	<p>LITHOLOGY: Greenish-grey to black medium-grained feldspar phytic intrusion. <u>VERY STRONG FAULT ZONE</u>. Unit sporadically intensely crushed to rubble or coarse-grained sand with gouge matrix.</p> <p>ALTERATION: Pervasive sericite - carbonate. Some parts have feldspar phase altered to black soft material. Black alteration most intense around fractures. Some gouge intervals also black. Mineralogy?</p> <p>MINERALIZATION: 2-4% f-g dissemin PY. Distinctly more pyrite rich than above. CP probably ~ 0.6% (at least in upper part) in chunks of blue-grey quartz. Overall CP ~ 0.3% in quartz stringers.</p> <p>STRUCTURE: Blue grey qtz stringers to 1cm in less sheared parts.</p> <p>206.15 - 206.65 - Crush, gouge cemented breccia 40°C</p> <p>206.65 - 213.8 - Sporadically crushed blocky. Shearing 40°C.</p> <p>213.8 - 214.4 - Greenish-grey to black gouge cemented crush zone, low 32°C.</p> <p>214.4 - 217.7 - Greenish to black sporadically crushed intrusion.</p> <p>217.7 - 219.45 - Black <sup>to dark grey</sup> gouge or gouge-cemented crush. Upper contact sharp at 35°C. Shear within at 20°C. Lower contact gouge / competent rock 50°C.</p> <p>219.45 - 220.3 - Dark grey host strong quartz stockwork. 5% PY. No CP noted</p> <p>220.3 - 226.87 - medium-grained medium greenish-grey feldspar phytic intrusion. Blocky, crushed. Wash qtz stockwork</p> <p>224 - 225 - sand &amp; gouge. Sand. Shear 28°C.</p> <p>226.87 - 234 - Dark grey to black fsp qtz as above but with patches of black alteration mineral (left). Pyrite? Tourmaline?</p>																		

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GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 226  
 Logged By: G-ALLEN  
 Date: OCT. 17

AMERICAN BULLION MINERALS LTD.

Graphic Log  
 (m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining														
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.									
										230-231																					
										- Strong crush. Fracture breccia of c-c sand & chunks to 5cm cemented by clay/gouge. Abundant quartz chunks & veins to 10cm. Looks like a strong qz stockwork. Veins to 10' ca, 20' ca, 45' ca. Massive of q Py between stringers to 5cm wide. Trace cp. Cp content low considering strength of stockwork.																					
										231-241																					
										Crushed - grey weak to strong crushed porphyry. Mod-w q stockwork.																					
										241-242.93																					
										Block diatitic (?) alt material. Crushed & cemented i gouge. Trace cp in quartz chunks.																					

E.O.B. 242.93

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British Columbia, Canada

**GEOLOGIC DRILL LOG**

**AMERICAN BULLION MINERALS LTD.**

**DRILL HOLE NO. 95 - 227**

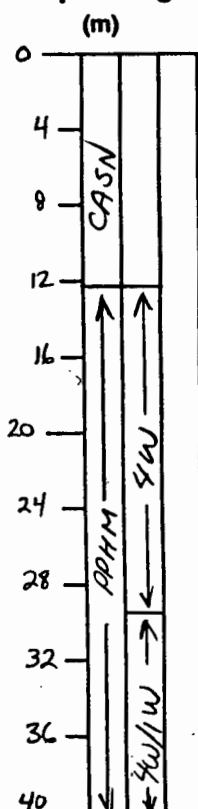
Location Sketch

Grid Northing (m):	99150 N
Grid Easting (m):	49050 E
Elevation (m):	
Total Length (m):	302.36 m
Casing Depth (m):	33.53 m
Reduction Depth:	-
Collar Core Size:	NQ

Date Started:	Oct 16/95
Date Completed:	Oct 18/95
Logged By:	T. Fraser
Date Logged:	Oct 17/95
Data Entry:	
Entry Date:	
Casing (In/Out):	Out

Survey	Depth	Azimuth	Dip
SS	154.5	181.5°	-62°
SS	289.6	184°	-63°

**Graphic Log**



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	0	12.19	CASN																			
	12.19	29.57	PPHM	4	W	-	-	40.3	3	0	0	0	0	VW	VW	0	TR	VW	TR	0	0	M
	<p>Lithology - Pale to medium grey. Main phase plagioclase hornblende porphyry. The unit is moderately porphyritic with 20-25% plagioclase phenocrysts (subhedral), 1-2 mm in length. Hornblende phenos comprise 5-8%, sub to euhedral 1-3 mm in size. Plagioclase phenos are pale green to grey in colour while hornblende phenos are beige. The groundmass is pale grey to buff. The unit is moderately fractured and is iron stained along joints/breaks.</p> <p>Alteration/Mineralization - Plagioclase phenocrysts are very weakly sericite and clay altered. Hornblende phenos appear to be carbonate-sericite altered. The unit is cut by very weak to weak pyrite veins. Disseminated pyrite is &gt; vein pyrite. Trace carbonate veinlets. Occasional pyrite veins have sericite-quartz envelopes (very thin, up to 3mm). Some phenocrysts appear to be weakly iron stained due to weathering.</p>																					

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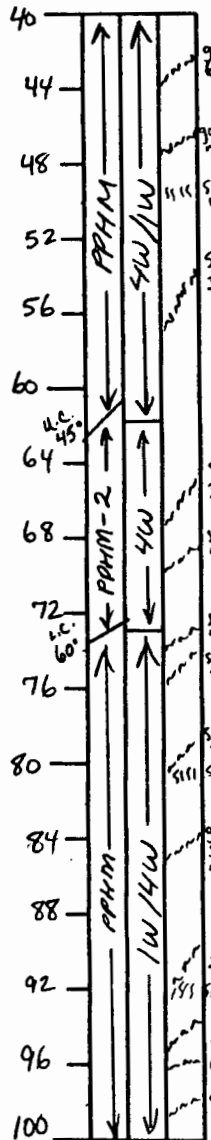
GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 227

Logged By: T. Fraser  
Date: Oct 17/95

Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.

Structure - 15.40 - 15.54m gouge  
24.00 - 24.10m gouge  
29.50 - 29.57 m gouge.

29.57-61.80 PPHM 4 W 1 W 0.35 3 0 TR 0 W W 0 0 Ws W TR 0 0 M  
Lithology - The lithology is pale grey-green to light orange in colour. The unit is moderately porphyritic in texture. Plagioclase phenocrysts predominate. Plagioclase phenos vary from 1-4mm, subhedral and are grey to orange-coloured. Plagioclase probably accounts for 25-35% by volume. Hornblende phenos comprise 3-8% sub to euhedral grains 1-2mm in length. The groundmass is grey to buff in colour.

Alteration/Mineralization - The unit has patchy Kspar alteration which is interstitial and weak to very weak in intensity. Some orange coloration may be due to very weak hematite staining. The plagioclase phenocrysts are weakly sericite altered. Hornblende phenos are carbonate-sericite altered. Disseminated fine grained pyrite is dominant over weak pyrite veinlets. There are trace to very weak carbonate veins. The unit is cut by trace to weak grey quartz veins. Quartz stockwork contains mostly disseminated pyrite and trace amounts of chalcopyrite. Trace disseminated red-purple hematite.

Structure - The unit is generally sheared throughout, with minor gouge.  
42.75 - 42.80m gouge @ 60°  
46.68 - 46.71 m gouge @ 70°  
50.18 - 50.90 m gouge/shear 0° to core axis  
59.40 - 59.90 m healed gouge.

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**GEOLOGIC DRILL LOG**

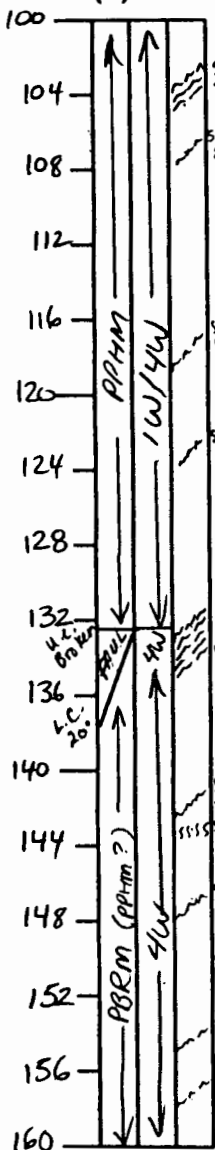
**AMERICAN BULLION MINERALS LTD.**

DRILL HOLE NO. 95 - 227

Logged By: T. Fraser

Date: Oct 17/95

Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.

54.60-55.10m shear @ 30°  
 @ 61.80m upper contact of PPHM-2 (dyke?) @ 45° to core axis.  
 61.80 72.77 PPHM2 4 W - - 0 0.5 0 0 0 0 0 0 M 0 0 TR TR M 0 0 W  
 Lithology - The lithology is pale green to very light orange in colour (dominated by green coloration). The unit is highly porphyritic, containing 25-30% subhedral apple green plagioclase phenos (1-3 mm in length). Hornblende phenos comprise 8-12% beige 1-2 mm and generally euhedral. Sometimes the mafics appear frothy. Locally there appears to be a very weak alignment of plagioclase and mafic constituents. The groundmass is fine grained, plagioclase-rich and is pale green.

Alteration/Mineralization - Plagioclase phenocrysts are moderately to strongly sericitic altered. The unit is cut by trace pyrite veins and contains trace to locally 1% finely disseminated pyrite. Moderate white to pinkish carbonate veins cut the dike-like body. Trace grey quartz-carbonate veins.

Structure - 63.70-63.75m gouge  
 66.03-66.05m Shear @ 35°  
 69.70m shear 40°  
 There are numerous mm-width slip planes which contain clay and trace gouge  
 @ 72.77m lower contact of PPHM-2 @ 60° to core axis.



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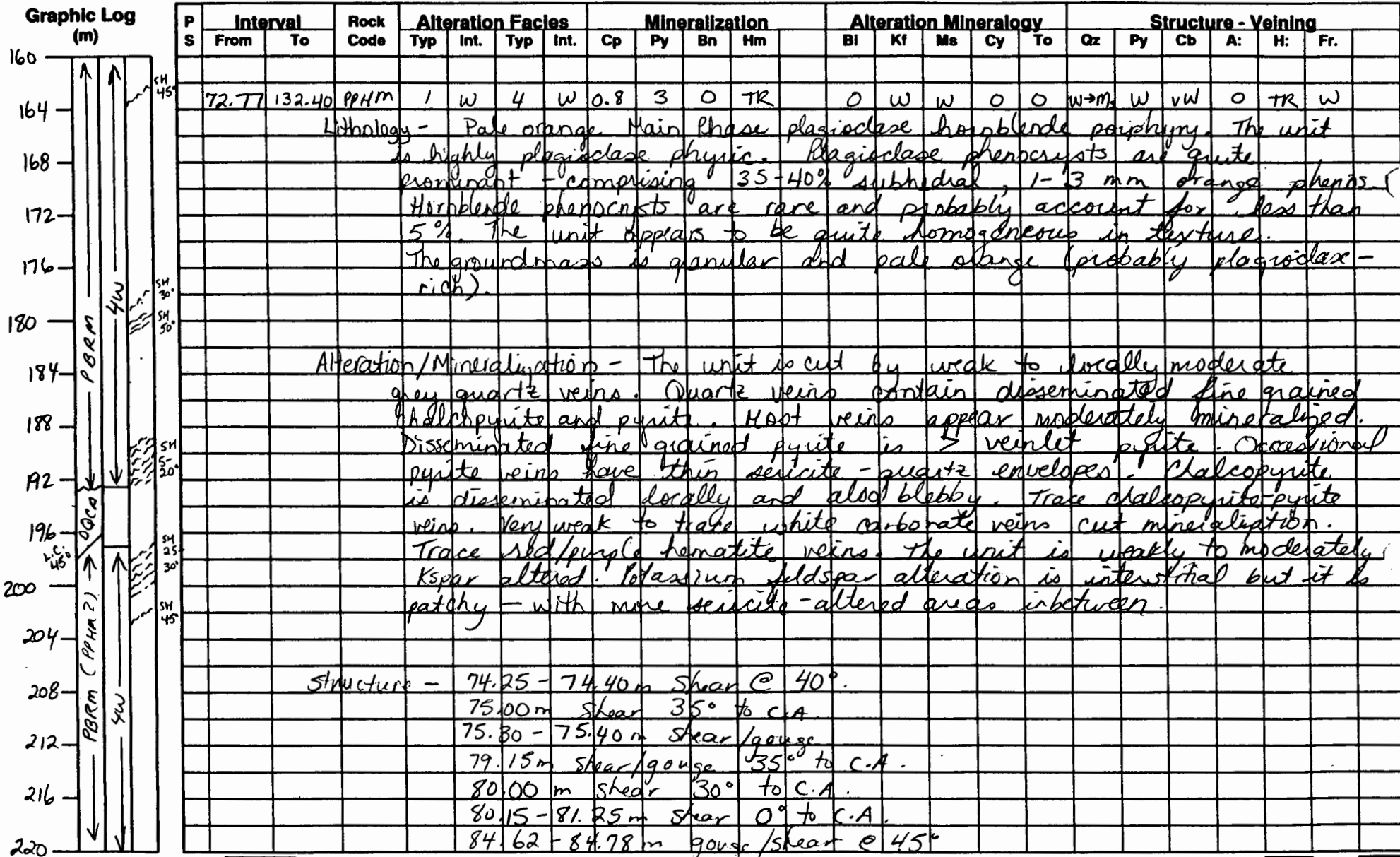
GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 227

Logged By: T. Fraser

Date: Oct 17/95





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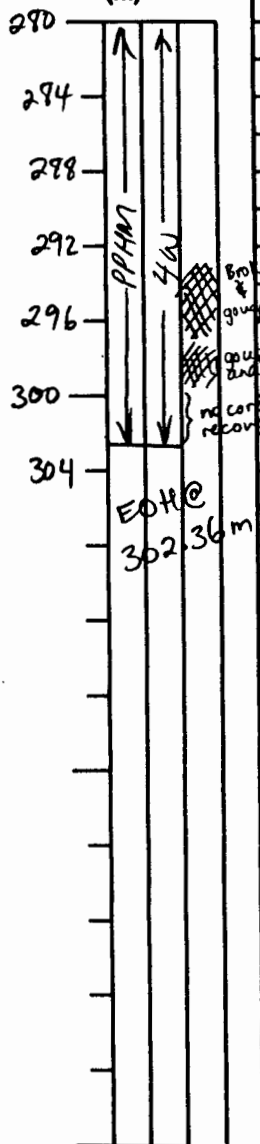
GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 227

Logged By: I. Fraser  
Date: Oct 18/95

Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A: (gyp)	H:	Fr.
	134.50	192.63	PBRM/	4	W	-	-	0.3	3.5	0	0	0	0	W	W	0	0	vW	TR	W→M	0	W
			(PPHM?)	<p>Lithology - Bleached, pale grey to buff coloured main phase unit. The majority of the interval appears to be brecciated containing 10-20% fragments. Clasts are subrounded to subangular, &lt; 2 cm on average. Several fragments are 5-15 cm in width. The unit is highly porphyritic (matrix as well as clasts). It is likely that the entire interval may be called PBRM (Main Phase breccia with PPHM matrix). But, locally, however there are sections which appear to be unbrecciated Main Phase. Plagioclase phenocrysts comprise near 30%; 1-3 mm (locally up to 5 mm). Plagioclase grains are subrounded, white to buff to grey in colour. Hornblende phenocrysts are obscured. Groundmass is pale grey to buff, fine grained.</p> <p>Alteration/Mineralization - Plagioclase phenocrysts are weakly sericite-clay altered. Pyrite is finely disseminated throughout and occasionally blebby. There are very weak to trace pyrite veinlets. Trace white carbonate veins. The unit is characterized by bleached appearance and weak to moderate grey-coloured quartzum stockwork. Trace disseminated and veinlet sphalerite. Trace carbonate-sphalerite veins.</p> <p>Structure - 142.15 m shear @ 50° to C.A. 142.90 - 143.03 m shear 0° to C.A. 147.40 m shear @ 55° to C.A. 154.65 m shear @ 50°.</p>																		

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British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 227

Logged By: T. Fraser

Date: Oct 18/95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
							157.56m	shear @ 45°															
							163.57-163.68m	gouge / shear @ 45° to C.A.															
							178.78m	shear @ 30°															
							180.68-181.13m	shear @ 50°															
							183.30-183.73m	sheared with gouge															
							184.30-184.40m	gouge															
							183.80-183.90m	KMAF with irregular contacts.															
							189.08m - 192.63m	sheared PBKM / PPHM, with minor gouge Shears @ 5-20° to C.A.															
							@ 192.63m upper contact of DOCA - irregular																
	192.63	196.93	DOCA	-	-	-	-	0.5	0	0		0	0	0	0	0		TR	W	0	0	W	
	Lithology - Buff to tan coloured quartz-carbonate amygdaloidal dike. The dike has sharp contacts with the host rock. The dike is fine grained and has a granular appearance / texture with the hand lens. The unit appears to be aphyric. Amygdules are approximately 0.5 - 1.5cm in diameter and are white carbonate-quartz filled. Amygdules are subround. The dike is cut by trace pyrite veinlets and weak carbonate veins.																						
	Structure - @ 196.93m lower contact DOCA @ 45° to C.A.																						
	196.93	254.24	PBK / PPHM?	4	W	-	-	0.3	3.5	0	0		0	0	W	VW	0	0	W	TR	M	0	W
	Lithology - same as interval 134.50 - 192.63m																						
	Alteration / Mineralization - same as interval 134.50 - 192.63m but the unit is cut by moderate grey and orange gypsum sturclowork. Trace chalcopyrite blebs. Trace sphalerite veins.																						

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

Graphic Log  
 (m)

P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining								
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Mag	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.			
				Structure -				197.77-198.15 m DOCA - sheared and fragmented																		
								198.60-201.38 m sheared 25-30° with small DOCA sheared slices.										5-10 cm								
								202.27-202.30 m shear @ 45°																		
								228.75 m shear @ 90°																		
								240.45-240.75 m DOCA - upper contact 40°, lower contact 35°.																		
								245.80-246.32 sliver of DOCA at 0° to C.A.																		
								252.73 m shear/gouge @ 30°																		
								@ 254.24 m upper contact PPHM @ 40° (marked by small shear).																		
								(MAG)																		
	254.24	302.36	PPHM	H	w	-	-	0.3	4.5	0	TR	TR	0	?	W	vW	0	TR	vW	TR	M	TR	M			
				Lithology -				Main phase plagioclase hornblende porphyry which is pale grey to deep orange in colour. The unit is moderately porphyritic with 20-35% subhedral white to orange-coloured plagioclase phenocrysts. Plagioclase phenos average 2-3 mm in length. Hornblende phenos are obscured locally, but may comprise up to 5% of 1-2 mm subhedral to anhedral dark-coloured (green?) phenos. The groundmass is pale orange to pale brown in colour. No core recovery 299.31-302.36 m.																		
				Alteration/Mineralization -				The unit is characterized by moderate gypsum stockwork and moderate to locally strong orange hematite staining. Pyrite is disseminated throughout and locally blebby. Trace carbonate veins. Trace magnetite and magnetite-hematite veins. Trace grey quartz-chalcopyrite-pyrite ± magnetite veins near the end of the interval. There are very weak to weak pyrite veins. Plagioclase phenocrysts are weakly sericitic to clay altered and may be hematite stained.																		



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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 228

AMERICAN BULLION MINERALS LTD.

Location Sketch

Grid Northing (m):  
Grid Easting (m):  
Elevation (m):  
Total Length (m):  
Casing Depth (m):  
Reduction Depth:  
Collar Core Size:

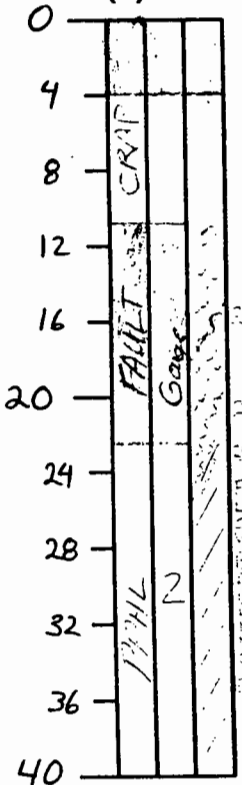
100 400
51 050
148.44
3.96
<i>OK</i>
HQ

Date Started:  
Date Completed:  
Logged By:  
Date Logged:  
Data Entry:  
Entry Date:  
Casing (In/Out):

Oct 17/95
Oct 18/95
B. Thurston
Oct 18/95
Out

Survey	Depth	Azimuth	Dip
1	148.44	182.5°	-61.5°

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	0.00	3.96	CASN																			
P	3.96	8.23	Float																			
P	8.23	11.28	Mud																			
P	11.28	22.40	FAUL	-	-	2	m	0	1.5	0	0	W	0	S	S	0	T	T	0	0	0	M
				Lithology:				Limonite stained (yellow-orange) fault gouge material w rock fragments < 1cm or > 10cm. Rock is strongly sericitized & clay altered. Solid core (clay alt'd) from 19.50 -> 21.70m is PPHL w increased py as diss & trace veins + carb. Strong shearing in this section w gouge on fractures. Qtz veins, actual broken/brecciated remnant Qtz in vein form is observed but no cpy assoc. w them. Limonite stain extends to 21m. Plag pheno's -> sericitized & clay alt'd are still visible down section. Minz: Py diss. ~95%. No Cpy. Strong Calcite pervasive in biotite altered fragments. No Calcite in Gouge or Late Phase Frags. Structure: * Mainly gouge & Rock contacts @ 25° -> 30°, including L.C. * Not Solid competent Rock.														
P	22.40	50.60	PPHL	2	S			0	4	0	0	W	0	S	M	0	0	T	T	0	0	M
				Lithology:				Medium grey colour to core w good porphyry texture preserved. in Plag & mafic pheno's. Core is strongly fractured throughout w														





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# GEOLOGIC DRILL LOG

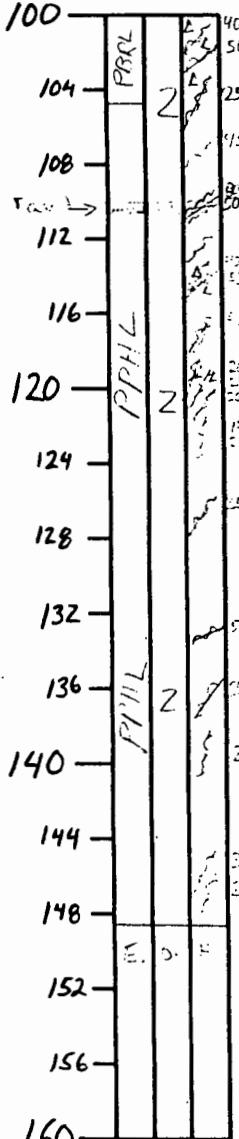
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 228

Logged By: B. Thurston

Date: Oct 18/95

### Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
				Structure cont'd:				* Solid homogeneous core. * No stockwork of any kind throughout. * L.C. w/ PBR L @ 35° shear + gouge sharp.															
	P	78.20	104.70	PBRL	2	S			0	5	0	0	0	0	S	M-S	0	0	T	T	0	0	W
				Lithology:				Same PPHL material described above makes up the matrix & fragments of this breccia unit. The matrix is slightly darker gray & less porphyritic in places. Fragments are generally 1-3 cm but larger & smaller ones occur. Frags are subangular mainly & constitute > 20% of the rock unit.															
				Alt'n:				Same Ser + Py + Clay alteration pervasive throughout unit.															
				Minz:				Py diss. ~ 95%. No Qz. No calcite. Trace Carb. & Py as fracture fillings.															
				Structure:				* Fragmental. * Minor shearing ± gouge ± clay alteration throughout. @ 15-30° * Fault @ 96.80 → 97.35m @ 45° W.C. & L.C. * Carb. + Shearing + fewer & indistinct fragments (gradational contact) from 100 → 104.70m SH @ 40, 50°, 50°, 0-5°, 25°.															
	P	104.70	148.44	PPHL	2	S			0	6	0	0	T	0	S	M	T	0	v	T	0	0	W-M
				Lithology:				Same PPHL material described up section. Grey, med Porphyritic, plus phen's Ser + Clay alt'd better preserved than matrix.															
				Structure:				* Strong to med. Shearing From 110 → 120m w/ breccia + Gouge + Clay alteration @ 80°, 55°, 50°, 40°, 45° & down @ L.C. 30°, 35°, 25° * Weak Shearing from 120 → E.O.H. @ 15°-75° common @ 35° - Biotite on some fractures @ 124 → 131m.															

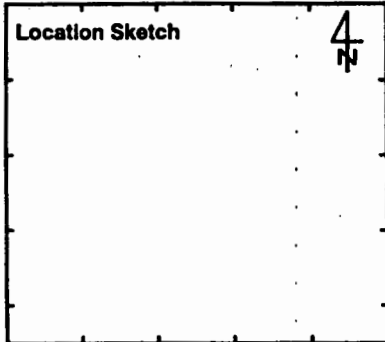
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GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 229

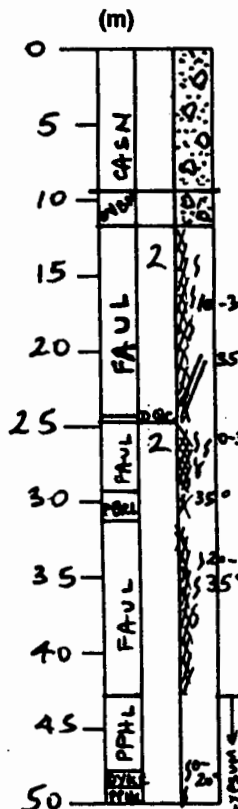


Grid Northing (m):	39100
Grid Easting (m):	49100
Elevation (m):	
Total Length (m):	197.21
Casing Depth (m):	9.14
Reduction Depth:	-
Collar Core Size:	NQ

Date Started:	OCT. 18
Date Completed:	OCT. 19
Logged By:	G. ALLEN
Date Logged:	OCT. 19
Data Entry:	
Entry Date:	
Casing (In/Out):	OUT

Survey	Depth	Azimuth	Dip
G.A. COLLAR		180	-60
S-S	99.67	177 1/2	-60
S-S	197.21	176 1/2	-61

Graphic Log



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	0	9.14	CASN																			
P	9.14	9.30	OV																			
				LITHOLOGY: Dark grey water boulder																		
P	9.30	12.00		No RECOVERY																		
P	12.00	24.35	FAUL	Z	M			A-S						M							S	
				LITHOLOGY: Medium blue-grey late phase gneiss abundant to rubble + gauge: Coarse-grained, crushed rock with a clear matrix. A few short pieces up to 10 cm with clear texture. Medium-grained feldspar phyric fragments (subangular to subrounded) to 2 cm with 30% blue-grey subhedral plagioclase to 2 mm in a lighter grey groundmass. Some frags with a dark blue-grey sericite alteration rim to 1 mm. Dark blue-grey aphanitic frag. to 5 mm. Matrix of vaguely fsp phyric sub-grained intrusion.																		
				ALTERATION: Peruvian sericite - carbonate.																		

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GEOLOGIC DRILL LOG

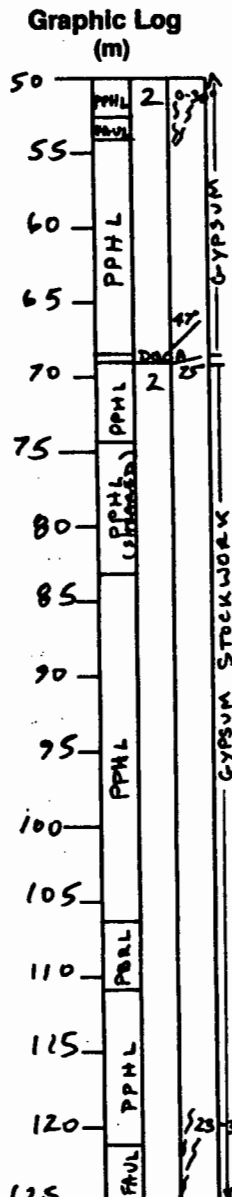
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 229

Logged By: G. ALLEN

Date: OCT. 19

Graphic Log (m)	P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy				Structure - Veining						
		From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
50																							
55																							
60																							
65	P	24.35	24.70	DQCA																			M
70																							
75	P	24.70	29.30	FAUL	2	M					4-5												I
80																							
85																							
90	P	29.30	31.78	PBR L	2	M					4-5												M
95																							
100																							
105																							
110																							
115																							
120																							
125																							



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GEOLOGIC DRILL LOG

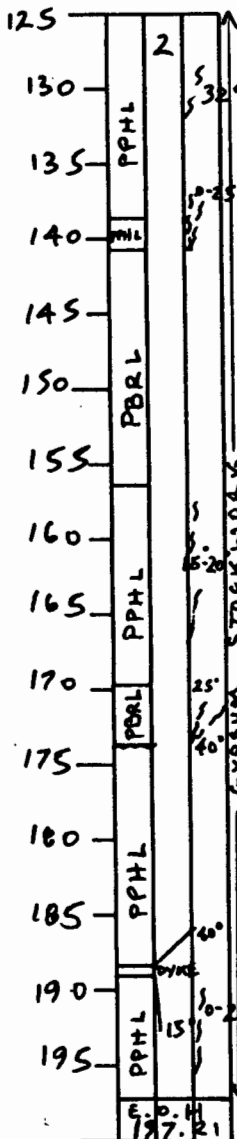
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DRILL HOLE NO. 95 - 229

Logged By: G. ALLEN

Date: OCT. 19

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	31.78	43.05	FAUL	L	M				4					M								S
				LITHOLOGY: An unit above sporadically crushed + sheared to gouge in intervals to 30cm																		
				MIN: 47. diam. PY																		
				ALT: Pervasive sericite / carbonate.																		
				STRUCTURE: 020-30° CA shearing.																		
P	43.05	47.85	PPHL	2	M				5-6				M								W	W
				LITHOLOGY: Medium grey to blue-grey inhomogeneous medium-grained feldspar phric intrusion with 30% subhedral to euhedral white to grey fep prisms to 2mm. Some short irregular intervals of darker blue-grey very f-g late phase intrusion. Whole interval weakly sporadically crushed. Fractures commonly obscured by alt + shear.																		
				ALT: Pervasive sericite - carbonate alt.																		
				MIN: 5-67. f-g diam PY.																		
				STRUCTURE: Weak shearing 40-45° CA. Weak gypsum stockwork with widely spaced (5-10/m) stringers up to 2mm generally 20-50° CA.																		

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GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 229

Logged By: G. ALLEN

Date: OCT. 19

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies			Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	47.85	48.55	DYKE	2	M				4-5					M						W		W
	<p>LITHOLOGY: Medium blue-grey very f-g fine phytic dyke? with distinct banding at 23°CA. Core of dyke is a breccia with vague blue-grey subangular frags. to 5mm. Looks like a f-g to c-g sediment but setting suggests otherwise. Probably a later stage intrusion. Chilled contacts. Upper contact 1 to 2 gypsum stringers at 60°CA. lower contact (banding) 35°CA. shallower of two contacts probably true.</p> <p>MIN: 4-5% very f-g PY. (Diagen)</p>																					
P	48.55	52.45	PPHL	2	M				5-6					M						W		W
	<p>LITHOLOGY: As above dyke. Vague lithic chert to 2cm in short intervals.</p> <p>MIN: 5-6% f-g disc PY.</p> <p>STRUCTURE: Specially weakly crushed. Shearing subparallel to 20°CA.</p>																					
P	52.45	54.30	FAUL	2	M				5					M						W-M		W
	<p>LITHOLOGY: Like phase as above but sheared or crushed to f-g sandy material with some frags to 3cm cemented by clay gouge.</p> <p>STRUCTURE: Shearing subparallel to 30°CA. Gypsum stringers to 5mm parallel shearing.</p>																					

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British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 229

Logged By: G. ALLEN

Date: OCT. 19

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	54.30	68.22	P#HL	2	M				5						M				VW	W		W
<p>LITHOLOGY: Inhomogeneous medium blue-grey to dark grey mottled fsp physis intrusion. More homogeneous parts are a medium-grained feldspar physis intrusion with 30% generally anhedral light blue-grey fsp phases to 2 mm in a darker grey f-g gr. Fractures obscured by alteration. Some intervals with subrounded lentic fragments (feldspar porphyry) to 2 cm of same material described above. Some darker blue-grey r-f-g intrusion sporadically occurring but is typical of both phases (B. Thurston).</p> <p>ALT: Pervasive sericite / carbonate.</p> <p>MIN: 5% f-g dissemin PY. Trace f-g sphalerite + galena in carbonate stringers.</p> <p>STRUCTURE: Whole gypsium stockwork (4-10/m; generally 1-3 mm wide) 15-40°C, most common 20-40°C. Minor stringing 40°C.</p>																						
P	68.22	69.00	DQCA												W				W			
<p>LITHOLOGY: Medium greenish-grey to dark blue-grey (along fractures) aphanitic dypse with 5% dark green-grey anhedral pyrite (fsp?) 4-5 mm + rounded white calcite amygdules to 4 mm. Blue-grey envelopes + patches related to fractures are probably due to sericite alt.</p> <p>STRUCTURE: Upper contact 47°C. Lower contact irregular 75°C. No gypsium observed ∴ post gypsium stockwork.</p>																						

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

Graphic Log  
 (m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining				
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:
P	69.00	74.68	PPHL	2	M				4-5					M				VW	W		W
<p>LITHOLOGY: As above DQCA. medium-grained fsp phytic intrusion cut by darker blue-grey f-g later intrusion in intervals to 20cm.</p> <p>STRUCTURE: lower part of interval weakly crushed. Gypsum stringers subparallel CA.</p>																					
P	74.68	83.47	PPHL	2	M				5					M				VW	W		W
<p>LITHOLOGY: As above. Unit separated due to sporadic crush zones + shearing. Not strong enough shearing to call a fault. Shearing subparallel CA. Gypsum stringers to 5mm follow shearing.</p>																					
P	83.47	106.63	PPHL	2	M				4-5					M				VW	W		W
<p>LITHOLOGY: As 54.30-63.22. Some intrusive breccia intervals + dark blue-grey dyalite, but mostly med-grained fsp phytic intrusion.</p> <p>ALT: Pervasive sericite, carbonate</p> <p>MIN: 4-5% f-g disseminated PY</p> <p>STRUCTURE: 2-10 x 1-5mm gypsum stringers / m, 20-70°C, mostly 20-40°C.</p>																					

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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 229

Logged By: G. ALLEN

Date: OCT. 19

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	106.63	111.10	PBR L	2	M				5-6					M					VW	W		W
<p>LITHOLOGY: <sup>to medium</sup> Dark, blue-grey f-g feldspar physis matrix hosting ~ 50% bimodal fragments (subangular to rounded) up to 8cm, average ~ 2cm. Fragments are f-g blue-grey fsp physis <sup>slightly</sup> medium-grained fsp physis intrusive fragments.</p> <p>ALT: Pervasive sericite, carbonate</p> <p>MIN: Fine-grained disseminated PY, ~ 5-6%</p> <p>STRUCTURE: 5-10 1-2mm gypsum stringers / m. Unshaded.</p>																						
P	111.10	121.70	PPH L	2	M				5-6				M						M			W
<p>LITHOLOGY: As 54.30 - 68.22. Subangular due to bimodal intrusion medium blue-grey m-g fsp physis intrusion sporadically &amp; irregularly cut by f-g darker blue-grey intrusions. Few distinct fragments as in interval above.</p> <p>ALT: Pervasive sericite / carbonate</p> <p>MIN: 5-6% f-g dia PY.</p> <p>STRUCTURE: Medium gypsum stockwork 8-12 gypsum stringers / m up to 5mm at all angles to EA but most commonly 30-50° CA. Unshaded.</p>																						



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British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 -

229

Logged By: G. ALLEN

Date: OCT. 12

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining							
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.		
P	121.70	125.05	FAVL	2	M				5-6						M							W	W	
						<p>LITHOLOGY: As above. Unit separated because of sporadic shearing + crush. Very weak fault with minimal movement. 23-30° shearing. Gypsum stringer parallel shearing.</p>																		
P	125.05	138.3	PPHL	2	M			6-7						M							VW	W	W	
						<p>LITHOLOGY: As above shear Mottled medium blue-grey medium-grained f-g pyritic intrusion (predom.) cut by minor amounts of darker blue f-g intrusion. Sillings indistinct suggesting that the later intrusion is part of the same intrusion event as the host. Both rock types altered to sericite / chlorite.</p> <p>MIN: 6-7% f-g disc PY.</p> <p>STRUCTURE: 5-15 &lt;1-5mm gypsum stringers / m. 60-70° CA. Minor shearing / crush zone 32° CA.</p>																		
P	138.3	140.77	PPHL	2	M			6-7						M							W	W		
						<p>LITHOLOGY: As above. Unit sporadically crushed or sheared throughout. Very weak fault. 0-25° CA.</p>																		

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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 229

Logged By: G. ALLEN

Date: OCT. 19

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	140.77	156.55	PBR-L	2	M				6-7					M				VW	VW	W		W
<p>LITHOLOGY: Medium blue-grey generally subrounded medium-grained fsp phytic intrusive fragments to 10cm, average 1-2cm. Spandic 0-50% in a darker blue-grey fine-grained fsp phytic matrix.</p> <p>ALT: Permissive sericite - carbonate.</p> <p>MIN: 6-7% f-g disseminated PY. Minor stringer-related PY.</p> <p>STRUCTURE: Weak gypsum stockwork.</p>																						
P	156.55	169.77	PBR-L	2	M			S					M					VW	VW	W		W
<p>LITHOLOGY: Relatively homogeneous vaguely med-grained fsp phytic intrusion. Medium blue-grey. 30-40% 1-2mm subhedral grains lighter grey fsp physis in a darker grey gm. Textures largely destroyed by alt. Probably Hb physis also but not distinct from fsp.</p> <p>ALT: Permissive sericite - carbonate.</p> <p>MIN: 5-7% f-g disseminated PY. Minor fracture-related PY.</p> <p>STRUCTURE: Weak shoring 5-20° CA.</p>																						

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British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 229

Logged By: G. ALLEN

Date: OCT. 19

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	169.77	173.55	PBR	2	M				S					M				VW		W		W
<p>LITHOLOGY: Late phase medium-grained fsp phytic intrusion as above with &gt; 50% intervals of intrusive breccia with dark grey matrix of f-g feldspar phytic intrusion ~ 50% &lt; 1-10cm (average &lt; 1-2cm) subangular to rounded m-g lithic frags. Some aphanitic frags also. Three phase intrusion.</p> <p>ALT: Perovskite - carbonate.</p> <p>MIN: 5-7% f-g disc &amp; minor fracture-related PY.</p> <p>STRUCTURE: Minor shearing subparallel CA. Shear along lower unit boundary 40° + 25° CA. Weak gypsum stockwork.</p>																						
P	173.55	187.90	PPH	2	M				S					M						W		W
<p>LITHOLOGY: As 156.55 - 169.77</p> <p>ALT: Perovskite - carbonate.</p> <p>MIN: 5-7% f-g disc PY.</p> <p>STRUCTURE: Weak gypsum stockwork.</p>																						
P	187.90	188.80	DYKE	2	M				S					M						W		W
<p>LITHOLOGY: Medium to dark blue-grey very f-g irregularly fsp phytic dyke. Aphanitic bands.</p> <p>Upper contact sheared 40° CA.</p> <p>Lower contact: Banded 15° CA. Flow-banding / chill.</p>																						

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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 229

Logged By: G. ALLEN

Date: OCT. 19

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
P	188.80	197.21	PP4L	2	M				5					M						W		W	
			E.O.H.	LITHOLOGY: Misc of medium-grained roughly peg phytic intrusion + intrusive breccia with fragments generally < 1cm. As units above																			
				STRUCTURE: Sporadically abundant throughout 0-20° CA. One at 40° CA Crack zone to 0.5m. Weak gypsum stockwork. Stringers to 5mm generally parallel zone																			
																						197.21	E.O.H.

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 230

\*Lost 20 rods & core tube

Location Sketch

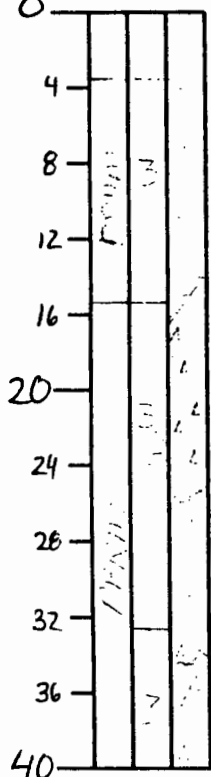
Grid Northing (m): 100 500  
 Grid Easting (m): 50 950  
 Elevation (m):  
 Total Length (m): 299.31m  
 Casing Depth (m): 3.66  
 Reduction Depth:  
 Collar Core Size: HQ

Date Started: Oct. 18/95  
 Date Completed: Oct. 22/95  
 Logged By: B. Thurston  
 Date Logged: Oct 19/95  
 Data Entry:  
 Entry Date:  
 Casing (In/Out): \*Lost Rods & Tube

Survey	Depth	Azimuth	Dip
1	152.4	152.5°	-60°
* S.S. taken pulling Rods up ∴ possible mistake on drillers part. on surface 180° @ -60°			

\* Not correct the after magnetite to no mag.

Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
P	0.00	3.66	CASN																				
P	3.66	15.65	PPHM	3	m			.45	35	0	0		0	0	M	W	0	T	VW	T	0	0	M
				Lithology:				Typical 3 altered PPHM. Light beige, grey, green colour to mottled core. Porphyritic texture is med w anhedral plag phenis. Trace Qtz veins w py cores ± carb. Carb. mainly as fracture fillings & in Qtz veins. No Calcite. Limonite to 3m.															
				Alt'n:				Ser + Py blabs & envelopes on Qtz-Py, Py veins & fractures.															
				Minz:				Diss. Cpy only visible when core is freshly broken Py diss > fractures & veins (~40%).															
				Structure:				* Blocky throughout. * L.C. w 20cm Fault @ 35°?															
P	15.65	32.61	PBRM	3	m	4	?	.45	5	0	T		T	0	M	m	?	0	W	W	0	0	M
				Lithology:				Same material as above but patchy sections of yellow-green weakly porphyritic fine grain PPHM occur as sections in the Braccia unit. The Fragments make up slightly > 10% of the rock and comprise rock fragments of the rock described above.															
				Minz:				Cpy is observed diss. in fragments as well as matrix & in Py veins. Py is diss to veins & fractures. He is diss.															

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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

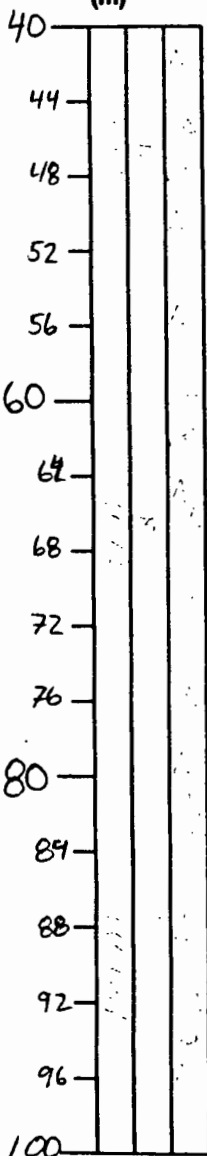
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 230

Logged By: B. Thurston

Date: Oct. 19/95

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining										
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	mdy	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.					
P	32.61	102.00	PBRM	3	S			.36	6	0	0	T	0	0	S	W	?	T	vW	vW	0	0	W					
				Lithology:		Medium to dark green grey rock. Porphyritic texture is mainly blown out; w remnant to anhedral plagioclase, cream to green in colour.																						
				Alt'n:		Matrix is strongly sericitized + diss, bleby & patchy py. Trace Qtz veins usually discontinuous or in fragment form. Fragments are commonly > 2cm rounded mottled PPHM the same as matrix and make up > 25% of rock. Carb. occurs mainly as fracture filling and w Py veins. Calcite is not observed. Py is described above diss 77																						
				Minz:		Veins & fractures (~35%). Cpy is diss. 90% & in Py fractures. Moly is diss in matrix & in 2mm wide Qtz veins. No Mag & He.																						
				Structure:		* Breccia. Fragments > 25% usually > 2cm. * Mainly small shears throughout this unit < 1cm ± gouge most commonly @ 50°-60°. * U.G. w PBRM/SHZN is gradational to fairly homogeneous PBRM unit. * Carb. Breccia Veins @ 20°-30°																						
S	102.00	168.00	PBRM	3	M	1	T	.36	4.5	0	T	T	T	T	S	M	T	T	vW	W	T	T	W					
				Lithology:		Same rock as above only core is more buff to light grey & beige in colour. Also fragments are mixed w those described above and Aphanitic brown/beige frags w diss py. Porphyritic frags described above are usually > 3cm rounded to more irregular in shape w poor porphyritic texture.																						
				Alt'n:		Same as above w small potassic patches consisting of diss. → patchy He up to 2%, No Magnetite, & pervasive mod. K-spar replacing matrix (plagioclase) & some plagioclase. Calcite is weak pervasive in Potassic areas but not observed elsewhere in the mottled phyllite.																						
				Minz:		Py is diss 70% & in fractures, veins & patches 30%. Cpy is assoc. w Py usually diss. but sometimes in Py blebs. Moly is observed only in Qtz veins as very tiny diss.																						



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GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

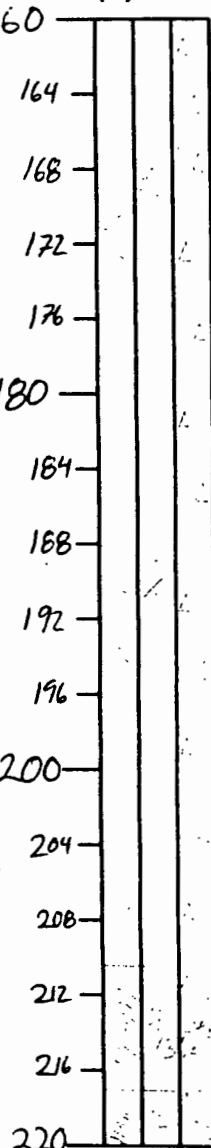
DRILL HOLE NO. 95 - 230

Logged By: B. Thurston

Date: Oct. 21/95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining									
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.				
P	230.73	242.35	PPHM	4	m	1	w	+3.0	3	0	T	w	w	s	w	0	s	vW	T	0	T	W				
				Lithology:				Green & Cream colour to core. Porphyry texture is weak. Mottled texture of green Sericitized blebs & envelopes. Matrix is mainly cream colour, clay & carb: ser altered. Strong Qtz veins throughout however ~80% of them are just fragments or discontinuous due to strong shearing + brecciation that has affected this unit. This unit is not called PPHM because there are very few actual rounded discernable fragments & frags are only of Qtz vein & matrix material. If any thing this is a healed SHZN of PPHM.																		
				Alt'n:				Strong Ser & clay alt'n: K-sp pervasive weak. Bio diss./phos & pervasive. He diss and as rare veins. No Mag.																		
				Min:				Bornite? Py is mainly in Qtz veins. Cpy is ~85% in Qtz Veins as diss. and micro-structure fillings. Possible bornite rimming Cpy but difficult to tell w/ He & fine grain nature. Calcite is trace in carb fracture fillings.																		
				Structure:				* Healed Shearing / Brecciation. * Solid competent core * L.C. w/ Fault Strong @ 35°																		
P	242.35	299.31	FAUL	4	m	1	w				T 1.5	vW	vW	s	s	0 m-s	0	vW	0	vW	m					
				Lithology:				* Fragments of above material (230-242m) in gouge. Approx 50% of the interval is good gouge material, cream to light green, w/ fragments ranging in size from 1mm to >5cm, some rounded & some angular. Most small fragments are Qtz Vein Material & the larger ones are host rock described above w/ Qtz veins / stockwork. 1-3% of fragments are Carbonate.																		
				Structure:				* Other 50% of unit is large fragments or rafts or PPHM units that are strongly fractured w/ gouge & shearing. * Shears Strong @ 35° w/ 20° - 40° shears observed.																		
				Min:				- Cpy + Bornite 85% diss. in Qtz Veins, less diss. in matrix of solid core.																		









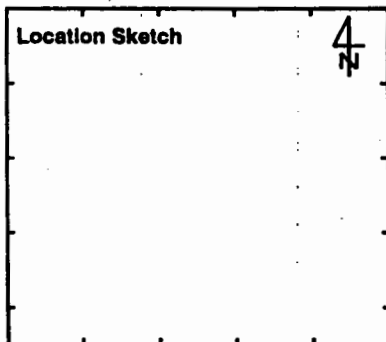
RED - CHRIS PROJECT

Llard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 231

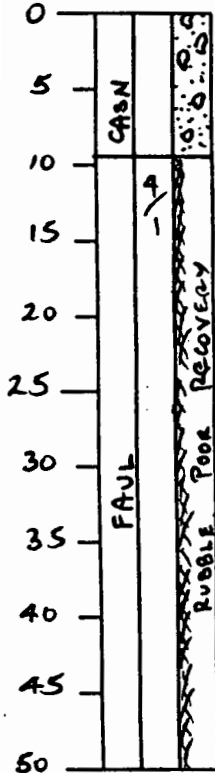


Grid Northing (m):	99 141
Grid Easting (m):	48 958
Elevation (m):	
Total Length (m):	297.79
Casing Depth (m):	9.14
Reduction Depth:	-
Collar Core Size:	NQ

Date Started:	OCT. 19
Date Completed:	OCT. 21
Logged By:	G-ALLEN
Date Logged:	OCT. 20, 21, 22
Data Entry:	
Entry Date:	
Casing (In/Out):	OUT

Survey	Depth	Azimuth	Dip
G.A. COLLAR		180	-60
S-S	152.4	179 1/2	-62 1/2
S-S	297.79	182 1/2	-64

Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	0	9.14	CASN																			
P	9.14	55.78	FAUL	4	M	1	M		A-S				M	M								
				<p>LITHOLOGY: Grey to brownish medium-grained feldspar physis intrusion. 30% vesicular to distinct anhedral to euhedral greenish-grey to cream-colored feldspar phenocrysts to 2mm. Some parts have distinct pinkish altered hornblende phase to 2mm. Possible late phase but potassic alt suggests PPHM.</p> <p>ALT: P-wasive amicta - carbonate, sporadic potassic alt. Yellow stain.</p> <p>MINERALIZATION: 4-S7. disseminated PY.</p> <p>STRUCTURE: Whole interval rubble. Very poor recovery. Fragments average 1-2 cm.</p>																		

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GEOLOGIC DRILL LOG

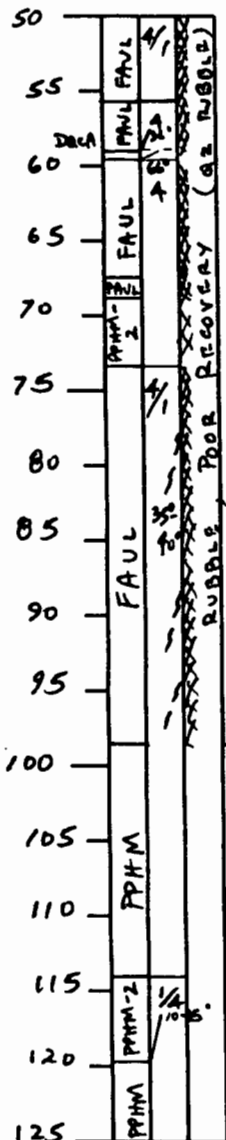
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 231

Logged By: G. ALLEN

Date: OCT. 20

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	55.70	58.95	FAUL	A	AA			0.6	S					M		←	VW	VW				S
	<p>LITHOLOGY: Medium blue-grey medium-grained feldspar phytic intrusion with 30-40% 1-2 mm anhedral blue-grey fsp phase. Intrusion largely obscured by alt + shearing. Probable PPHM</p> <p>ALT: Pervasive sericite/carbonates.</p> <p>MINERALIZATION: 5% disseminated minor fracture-related PY. 0.6% CP disseminated or on fracture.</p> <p>STRUCTURE: Most of interval rubble. Some fragments adjacent dyke showed subparallel CA. Trace quartz stringers to 1cm.</p>																					
P	58.95	59.55	DQCA																			M
	<p>LITHOLOGY: Medium greenish-grey to blue-grey (along fractures) aphanitic agn with sporadic 5% calcite amygdaloids to 2mm.</p> <p>Contacts showed: Upper 36° CA lower 66° CA</p>																					
P	59.55	67.50	FAUL	A	M			0.6	S					M								S
	<p>LITHOLOGY: Mottled dark blue-grey to brownish-grey medium to f-g feldspar phytic intrusion. Main phase (PPHM)</p> <p>ALT: Pervasive sericite - carbonates</p>																					

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Liard Mining Division  
British Columbia, Canada

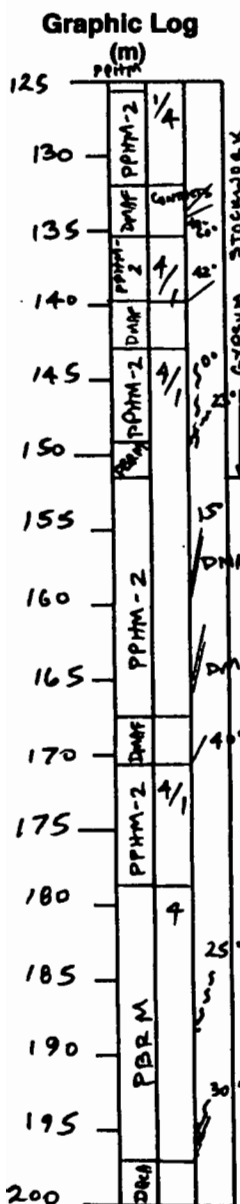
**GEOLOGIC DRILL LOG**

**AMERICAN BULLION MINERALS LTD.**

**DRILL HOLE NO. 95 - 231**

Logged By: G. ALLEN

Date: OCT. 20



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
				MINERALIZATION: 5% f-g dissemin or linear fracture - related PY. 0.6% CP dissemin with 8% + in quartz stringer rubble.																			
				STRUCTURE: Shallow to rubble. Blocky core. Poor recovery. Fragments blue-grey quartz indicating probable weak stockwork																			
P	67.50	68.88	FAUL	4	M	1	M	1	I			M	M									S	
				LITHOLOGY: light brownish-grey homogeneous medium-grained fsp phytic intrusion. 30-40% subhedral to anhedral chrome blue-grey fsp phases to 2mm. Some pinkish phases could be hornblende. Could be PPHM or PPHM-2. Potassic alt suggests PPHM-2																			
				ALT: Pervasive sericite/carbonate compared to unit above.																			
				M.I.V.: Distinct lack of PY. ~1-2% f-g dissemin PY. 2% f-g reddish areas of hematite.																			
				STRUCTURE: Blocky core.																			
P	68.88	73.46	PPHM-2	4	M	1	M	1-2	2			M	M									M	
				LITHOLOGY: Medium brownish to greenish-grey medium-grained feldspar phytic intrusion with 30% subhedral to prismatic - shaped coarse to grey-colored fsp phases to 4mm (average 1-3mm).																			
				ALT: Pervasive sericite/carb. Moderate yellow stain, i. potassic.																			
				M.I.V.: 1-2% w/g dissemin PY. 2% dark reddish-grey areas of hematite.																			

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 231

Logged By: G. ALLEN

Date: OCT. 20

Graphic Log (m)	P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
		From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
200																							
205																							
210																							
215																							
220																							
225																							
230																							
235																							
240																							
245																							
250																							
255																							
260																							
265																							
270																							
275																							

STRUCTURE: Blocky core. Shearing (w/abz 25° CA)

LITHOLOGY: Mottled dark blue-grey to brownish-grey (pink/brown) medium-grained feldspar physis brown to greenish-grey stubby to prismatic shaped fsp phens to 2mm (average <math>\leq 1\text{mm}</math>) ~ 30-40%. Textures largely obscured by alt. PPHM.

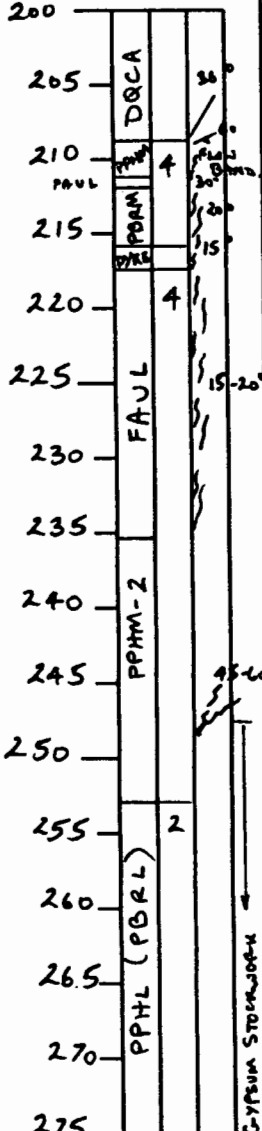
ALT: pervasive sericite/carbonate. Sporadic potassic alt judging by colour.

MINERALIZATION: 5% disseminated and lesser fracture-filling PY. Sporadic 0.2- >1% CP dissem & in quartz stringer fragments. Rare trace CP to 5mm x 1cm.

STRUCTURE: Entire interval subhedral. Some crush/gauge zones. Resolving very poor. Chunks of quartz in subhedral suggests at least a weak quartz stockwork. Shaded 40° CA, 35° CA.

LITHOLOGY: Probably as above. Mottled pinkish-brown to dark greenish-grey fine to medium-grained plutonic with 40% subhedral to subhedral brown square to prismatic shaped plag phens to 2mm, average <math>< 1\text{mm}</math>. Textures largely obscured by alteration.

ALTERATION: Relatively strong potassic alteration with pervasive sericite alt. Greenish-grey patches probably sericite overprint around fractures.



Graphic Log (m)	Interval From To	Rock Code	Alteration Facies			Mineralization				Alteration Mineralogy				Structure - Veining						
			Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	BI	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:
275			MINERALIZATION:			47%	f-g diasm	+ minor fracture		- related PY.				0-5% diasm						
280			quartz stringer			related CP.														
285			STRUCTURE:			Stockwork of blue-grey quartz, blue-grey gypsum & blue-grey carbonate. Intercal beds like moderate stockwork but individually (in quartz) weak stockwork. Stringer quartz to 1 cm, average 4-5 mm.														
290																				
295																				
	297.79m		P 11435	119.92	PPHM-2	1	S	4	M	5			S	M				VW	W	W
			LITTOLOGY: Medium brownish to greenish-grey homogeneous massive fine to medium-grained feldspar physis intrusion. 40% white spots < 1 mm possible alt fsp. 10% greenish-grey stubby to prismatic alt fsp phase. Unit has sharp contacts and is clearly a dyke. Distinct colour contrast & lack of quartz stringers. Thought to be PPHL except strong potassic alteration.																	
			ALT: Strong yellow staining, ∴ strong potassic alt. Peruvian mica alt.																	
			M.I.N.: 59% f-g diasm PY.																	
			STRUCTURE: Weak gypsum & carb stockwork. Sharp irregular lower contact - 10-15° CA.																	

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 231

Logged By: G. ALLEN

Date: OCT. 21

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	119.92	125.40	PPHM	1	S	4	M	0.3	S				S	M			VW	VW	W	W		W
				<p>LITHOLOGY: As 98.57 - 114.35. Predom pinkish-brown to greenish-grey fine to medium-grained fsp phytic intrusion with textures largely obscured by alt.</p> <p>ALT: Strong potassic alt. Pervasive sericite alt.</p> <p>MIN: 57% predom dissemin PY. 0.3% dissemin + quartz stringer-related chalcopyrite.</p> <p>STRUCTURE: Weak to mod gypsum stockwork. Very weak quartz.</p>																		
P	125.40	132.35	PPHM-2	1	M	4	M	2-3	2-3			M	M				VW	VW			W	
				<p>LITHOLOGY: Relatively homogeneous pinkish brown to brownish-grey medium-grained feldspar phytic intrusion. 30-40% brown to greenish grey anhedral to subhedral stubby to prismatic-shaped phases. Bimodal porphyry. Brown phases generally <math>\leq 1</math> mm. Greenish subhedral phases to 3 mm. Textures somewhat obscured by alt.</p> <p>ALT: Weak to moderate potassic alt. Pervasive sericite.</p> <p>MIN: 2-3% f &amp; dissemin PY. 2-3% dark grey to reddish hematitic spec.</p> <p>STRUCTURE: Widely spaced carbonate + gypsum stringers.</p>																		



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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 231

Logged By: G-ALLEN

Date: OCT. 21

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	132.35	136.36	DMAF															VW	VW		W	
<p>LITHOLOGY: medium to light greenish-grey aphanitic groundmass hosting fine to coarse-grained feldspar phenocrysts. Medium greenish-grey euhedral prisms &amp; shaped plugs to 7mm, up to 10%. 5% brownish prisms to 2mm (sparsely distributed) probably altered biotite. Sporadic white calcite amygdalae to 1cm (average 2-3mm), 0-20%.</p> <p>STRUCTURE: Very weak gypsum and carbonate stockwork. upper contact: Irregular ~ 25°C lower contact: Irregular ~ 50°C.</p> <p>Within dyke inclusions of host (or perhaps several parallel dykes) to 30cm. Contacts: (40, 60°) (30, 35°)</p>																						
P	136.36	139.87	PPHA-2	4	M	1	M	T	2			M	M				VW	W		W		
<p>LITHOLOGY: Homogeneous orange-brown massive medium-grained feldspar physis intrusion F-G orange brown matrix hosting 40% (rounded) generally euhedral prisms of plagioclase (greenish to brown-grey) up to 4mm. Bimodal 35% ≤ 1mm + 5% 2-4mm. 5-8% lighter grey brown laths to 3mm could be altered hornblende. Subvolcanic.</p> <p>ALT: Pervasive aphanitic. Colour suggests potassic alteration also, but not stained.</p> <p>M.W: Distinctive by its lack of mineralization. Only traces of Py. 2-3% f-g diagen. dark hematite. Minor dark sphalerite with carbonate stringer</p> <p>STRUCTURE: Weak gypsum stockwork. Gypsum stringers to 5mm 30-60°C</p>																						

RED - CHRIS PROJECT

Llard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 231

Logged By: G. ALLEN

Date: Oct. 21

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	139.87	143.00	DMAF															VW	VW		W	
	<p>LITHOLOGY: light to medium blue-green-grey aphanitic groundmass hosting 10-15% green to brown euhedral plagioclase prisms to 1 cm, average ~3-4mm. 5-8% dark brown lenticular phenocrysts to 3mm. Subvolcanic.</p> <p>STRUCTURE: Weak gypsum stockwork with stringers to 5mm. Upper contact irregular 42°C. Lower contact: irregular, sharp.</p>																					
P	143.00	149.1	PPHM- 2	4	M	1	M	3	2												W	
	<p>LITHOLOGY: Mottled greenish-grey to pinkish-brown medium-grained fsp phenocryst intrusions. Some parts have distinct cleats of fsp phenocryst intrusions to 2cm. Other parts homogeneous intrusions as 136.36-139.87. Unit is sharded &amp; crushed in part. Some carbonate stringer fragments.</p> <p>ALT: Perovskite + probably Kfs potassic.</p> <p>M.I.V: Minor disseminated PY, predom in sharded parts.</p> <p>STRUCTURE: Crust zone to 1m. Sharded subparallel CA. Lower contact along shad at 23°C.</p>																					
P	149.1	151.9	PBRM	4	M	1	M	0.3	S			M	M			T		T	W		W	
	<p>LITHOLOGY: Mottled dark grey to medium brown grey intrusive breccia. Breccial fragments: Dark grey-brown aphanitic fragments to 1cm, generally subangular. Dark grey med-grained subhedral intrusive fsp to 2cm. Host a brown-grey fsp phenocryst intrusions. Fragments commonly vaguely bounded.</p>																					

Graphic Log  
 (m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Oz	Py	Cb	A:	H:	Fr.
				ALTERATION: Pervasive sericite + probably potassic.																		
				MIN: 5% f-g dissemin PY. Minor f-g dissemin CP. Some CP associated with quartz stringers (irregular vuggy quartz flooded zone). Rare massive CP to 4mm adjacent to flooded zone.																		
				STRUCTURE: Very weakly developed quartz stockwork. Trace quartz.																		
P	151.9	167.60	PPHM-2	A	M	I	M					M	M			T		VW				W
				LITHOLOGY: Medium grained to coarse - brown - grey medium - grained feldspar physis intermix. 30-40% (clouded) greenish to cream subhedral to euhedral plagioclase to 5mm average 1-2mm. Some lighter grey prisms to 3mm could be altered hornblende. Much as sericite above PBM.																		
				ALT: Pervasive sericite, carbonate. Moderate yellow stain with K <sub>2</sub> CO <sub>3</sub> indicating potassic feldspar.																		
				MIN: Scattered 0-3% dissemin PY.																		
				STRUCTURE: Virtually no gypsum stringers. One stringer observed at 155.5m adjacent one of the low quartz flooded zones.																		
				158.0-158.3 - DMAP 15' ca. 10cm wide																		
				158.65-158.8 - DMAP 10' ca. 5cm wide																		
				164.75-165.40 - DMAP irregular contacts. S hollow to ca? zone includes some PPHM.																		

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 231

Logged By: G. ALLEN

Date: OCT. 21

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	167.60	171.00	DMAF																			
				<p>LITHOLOGY: Medium greenish grey, to blue-green to purplish-grey aphanitic groundmass with 10-15% subhedral plagioclase to 1cm. Crinoidally subhedral + average 3-4mm. 5-8% subhedral ilmenite to 2mm. Sporadic 0-10% white calcite amygdaloids to 2mm.</p> <p>STRUCTURE: Weak white carbonate stockwork. No gypsum noted. * Two triaxial samples taken from interval 168.2 - 168.5 170.4 - 170.7 lower contact sharp at ~40°. Irregular.</p>																		
P	171.00	172.65	PPHM- 2	4	M	1	M	1			1-2			M	M							
				<p>LITHOLOGY: Relatively texturally homogeneous orange-brown + blue greenish-grey medium-grained felsic intrusion with 40% subhedral plagioclase to 2mm. As previous units.</p> <p>ALT: Pervasive silicified-carbonate. Probably potassic judging from colour + similar units strand above.</p> <p>MIN: Traces to 2% f-g disseminated PY. 1-2% disseminated hematite.</p> <p>STRUCTURE: Weak white carbonate stockwork. Veins to 1cm 20-60°C.A. 171.85-172.10 - DMAF Upper contact 45°C.A. Lower contact 35°C.A. Contacts not close to parallel</p>																		

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 231

Logged By: G. ALLEN

Date: OCT. 21

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
P	170.65	197.20	PBRM	4	M			0.5	G					M			VW		VW			W	
<p>LITHOLOGY: Mottled dark grey to brown - grey to pinkish - brown matrix supported breccia with 60% rounded fragments to 2 cm (average <math>\approx 1</math> cm). Fragments have generally indistinct selvages. Fragments range from dark brown mod. hard aphanitic material to lighter grey - brown medium - grained vaguely foliated phytic intrusive material. Matrix is a brown medium - grained fsp phytic intrusion.</p> <p>ALT: Potassic aphanite - carbonate. No stain in CoNO solution <math>\therefore</math> apparently not potassic although it lacks potassic.</p> <p>MINERALIZATION: 6% generally disseminated pyrite. 0.5% diagen + brown QZ - related CP. <math>\Phi 190.1</math> - 10 cm qtz flooded zone = CP zone to 1 cm.</p> <p>STRUCTURE: Few stringers of any kind. A few quartz stringers to 2 mm. Some white carbonate stringers. No gypsum noted. 188.65 - 189.4 - Shear zone <math>25^\circ</math> CH. Part of interval is a block matrix cataclastic / mylonite. 194.68 - 197.20 - Wash creek zone. Shearing <math>30^\circ</math> to subparallel CH.</p>																							
P	197.20	208.73	DAcA																		W	T	W
<p>LITHOLOGY: Medium greenish - grey very f-g to aphanitic groundmass. 15% rounded white calcite angulose to 1 cm (average <math>\pm 5</math> mm). Amygdules sparsely distributed. 207.9 - 208.15 - PPHM. 208.15 - 208.73 - flow banded - <math>30^\circ</math> CH.</p> <p>Contacts: Upper 60' 207.9 - irregular ~ 70' 208.15 - 36' sharp ? 208.73 - 32' sharp } * dyke probably vertical.</p>																							

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

Graphic Log  
 (m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	208.73	211.40	PPHM	f	M			T	S					M				VW				W
<p>LIT: Inhomogeneous mottled medium to dark greenish-grey fine to medium-grained feldspar phytic intrusion. Contact area shows dykes is flow banded &amp; aphanitic. Looks like an intrusive contact which the DCA followed. Unit grades down hole into medium-grained feldspar phytic intrusion within 2m.</p> <p>ALT: Pervasive sericite - carbonate.</p> <p>MIN: 5% f-g disc PY. Trace CP.</p> <p>STRUCTURE: Very weak carbonate stockwork. Flow banding 60° CA.</p>																						
P	211.40	212.25	FAUL	f	M			G					M				W					M
<p>LIT: Strong crush zone. CG sandy + pebbly rubble poorly cemented with clay gouge. Discon + stringer PY. Shearing 30° CA, 26° CA.</p>																						
P	212.25	215.92	POPM	f	M			G					M				W	VW	VW			W
<p>LIT: Mottled dark to medium blue-grey plutonic breccia. Vague dark to green of medium-grained feldspar phytic intrusion. Groundmass on matrix texture dense, big shearing + alt. Brecciation could be due to shearing + alt.</p> <p>ALT: Pervasive sericite. No stain in K Co NO</p> <p>MIN: 6% disc + large stringer pyrite.</p> <p>STRUCTURE: Fragmented blue-grey quartz stringers to 1cm ~ 5%. Entire unit weakly crushed + sheared 20° CA.</p>																						

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

Graphic Log  
 (m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	215.92	217.5	DYKE																S			W
<p>LITHOLOGY: Medium grey to pinkish-grey aphanitic dykes. Some amygdaloidal to 1mm. Could be D.C.A. Unit bleached + floored by white carbonate. Shear contacts 15° CA.</p>																						
P	217.5	235.35	FAUL	4	M			4		1-2				M				NW			M	
<p>LITHOLOGY: Mottled dark grey to medium greenish-grey to pinkish-brown or tan medium-grained feldspar banded phytic intrusion. Unit sporadically sheared &amp; crushed, but appears to have been texturally homogeneous. Texture commonly obliterated but where apparent a f-g aphanitic grain hosts 30-40% generally anhedral + less subhedral + subhedral fsp plumes (square to prism-shaped) to 2mm. Anhedral nature of plume could be due to alteration making crystal edges obscure. 8-10% pinkish-grey carbonate at handblends to 3mm. Rock could be PPHM-2.</p> <p>ALT: Pervasive sericite-carbonate</p> <p>MIN: Sporadic 1-5% PY. PY mostly in sheared parts. Competent rock pyrite-poor.</p> <p>STRUCTURE: Crushed + sheared in 75% of interval. Shearing ranges from 15-25° CA.</p>																						
P	235.35	252.75	PPHM-	4	M			1		2				M				NW			W	
<p>(pinkish brown)</p> <p>LITHOLOGY: Tan to greenish-grey banded feldspar phytic intrusion as described above in fault zone. Some greenish fsp plumes to 5mm but average 1-3mm. Homogeneous (except for colour), massive.</p>																						

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 231

Logged By: G. ALLEN

Date: OCT. 22

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining								
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.			
				ALT: Peruvian sericite - carbonate. No stain ∴ not potassic.																					
				MIN: Very low pyrite content + sporadic dissemin. hematite up to 1-2% coincidental with reappearance of gypsum veins, possibly fracture system allowing influx of sulphide-bearing solutions.																					
				STRUCTURE: Very weak carbonate stockwork.																					
				* ~ 247.5 REAPPEARANCE OF GYPSUM STOCKWORK. Stringers to 1cm 20-90° ca. 248.12 - 248.65 - crush zone 45-60° ca. 8-10% f-g pyrite.																					
P	252.75	294.65	PPHL (PDR)	2	M			5-6									VW	VW	W			W			
				LITHOLOGY: Mottled medium to dark blue-grey fine to medium-grained feldspar physis intrusion. Some parts are homogeneous intrusion some parts (<50%) appear to be fragmental. Medium-grained fsp physis intrusion clearly cut by irregular f-g dark blue-grey intrusion. Contacts "softened" by alteration. Contact with unit above vague + hard on colour change + coincident change in PY content. Could be the same.																					
				ALT: Pervasive sericite. No stain. Column grades from blue-grey to dark bluish-greenish-grey down hole.																					
				MIN: 5-6% f-g dissemin. PY. been fracture-related PY																					
				STRUCTURE: Weak <sup>irregular</sup> gypsum stockwork with stringers to 1cm, average 2-5mm.																					



RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 231

Logged By: G. ALLEN

Date: OCT. 22

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	294.55	295.46	DMAF																			
				<p>LIT: Medium greenish to brownish-grey aphanitic gm with 20% subhedral greenish grey fsp phases to 5mm. Average 3-4mm. 5-8% subhedral biotite to 3mm. Contacts irregular but appear to be 70-80°C.</p>																		
P	295.46	297.79	PBRX	5	?	4	?														M	W
				<p>LIT: Dark greenish to brownish grey f-g fsp phytic matrix with 30% rounded medium-grained fsp phytic frags of intrusion up to 3cm. Could be relatively unaltered breccia. Edge of alt. system?</p> <p>ALT: Greenish colour suggests propylitic.</p> <p>MIN: 4-5% f-g fine PY.</p> <p>STRUCTURE: Weak geyser stockwork</p>																		

# RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

# GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 232

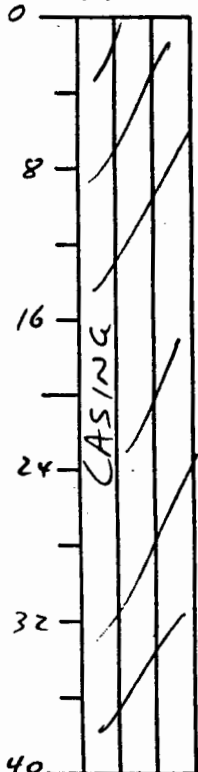
Location Sketch

Grid Northing (m): 99 100  
 Grid Easting (m): 49 000  
 Elevation (m):  
 Total Length (m): 157.58m  
 Casing Depth (m): 42.67m  
 Reduction Depth: /  
 Collar Core Size: NQ

Date Started: OCT 21 '95  
 Date Completed: OCT 22 '95  
 Logged By: JON FOREMAN  
 Date Logged: OCT 23 '95  
 Data Entry:  
 Entry Date:  
 Casing (In/Out): OUT

Survey	Depth	Azimuth	Dip
S.S.	154.53	176°	-61.5°

### Graphic Log



P S	Interval (m)		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
	0.0	42.67	CASN																				
	42.67	48.25	PBRL	2	m	3?	w	/	1.5	/	/	/	/	m	w	/	/	/	/	/	/	/	S

LITH + MIN:  
 The core is light grey throughout. The porphyritic texture is moderately well preserved through the matrix and very well preserved in the fragments. The matrix and fragments are of the same composition. An aphanitic pale to dark grey matrix with 20-25% cream to white 1-4mm sub to euhedral feldspars and 15-20% buff to grey <1-2mm sub to euhedral hornblendes. The fragments range from <1cm to 7cm and are typically subrounded. 75% of the fragments are lighter in colour, cream to pale grey, than the surrounding matrix.  
 No veining (gypsum carbonate or quartz) is through this unit. 1-2% pyrite occurs throughout as euhedral disseminations and 1-5mm irregular blebs.  
 L.C.:  
 in broken core.

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

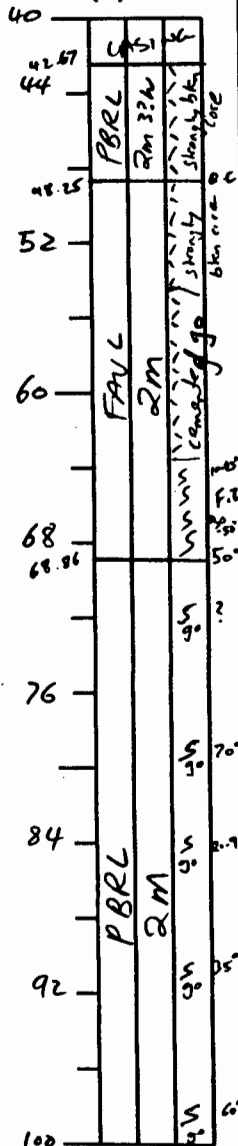
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 232

Logged By: JAN FOREMAN

Date: OCT 23 '95

Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy				Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	42.67	48.25	un'd	<u>ALTERATION:</u>																		
	The unit has pervasive sericite alteration. Locally the unit appears to have 2-3mm rounded translucent grey blebs which are probably sericite. These blebs commonly contain pyrite.																					
	<u>STRUCTURE:</u>																					
	- 42.67 - 48.25 → strongly bkn <1 to 8cm angular to subrounded core with gouge throughout																					
	48.25	68.86	FAUL	2	m			1.5					m						w		m	
	<u>LITH+MIN:</u>																					
	The top half of this unit is 100% gouge and thus the rock is unrecognizable. Below 63.86m the core is more competent. The zone is more like a shear zone with 0.5cm to 35cm shears separated by late phase. The shears locally contain gouge and or dark grey to black opionitic material. Locally, the larger shears contain 2mm to 3cm rounded late phase fragments.																					
	<u>L.I.:</u>																					
	Sharp @ end of shears @ 50°																					
	<u>ALTERATION:</u>																					
	moderate Qtz - Ser - Py alteration throughout																					
	<u>STRUCTURE:</u>																					
	- 48.25 - 54.15 → very strongly bkn <1-3cm angular to subrounded core to gouge throughout																					
	- 54.15 - 63.81m → cemented gouge to local bkn core																					
	- 63.81 - 68.86m → healed faults and shear zones @ 10-25° and 30-50°																					
	68.86	107.69	PBRL	2	m			2					m						m		w	
	<u>LITH+MIN:</u>																					
	This is not typical late phase breccia. This breccia contains 30-40% fragments surrounded by 2-9mm very dark grey																					

# RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

# GEOLOGIC DRILL LOG

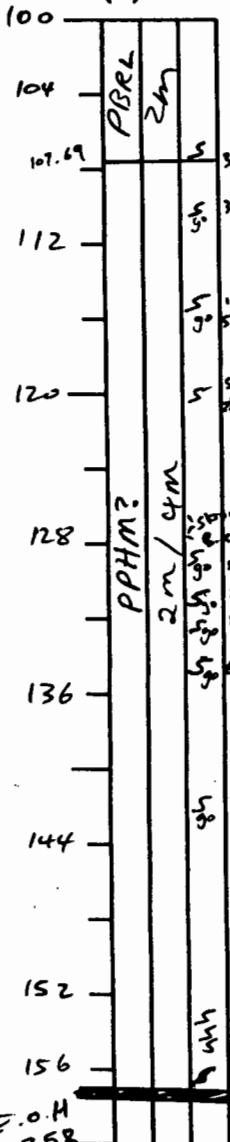
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 232

Logged By: Sawford

Date: Oct 23 95

## Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining							
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.		
	68.86	107.69	CONT'D																					
				<p>ophanitic matrix. The fragments range from 2mm to 10cm with the only exception being a fragment @ 92.0m which is 64cm wide. The fragments are typically angular to subangular and have very well preserved porphyritic texture. The feldspars are 2-4mm and typically white while the hornblendes are buff and often blend in with the groundmass. This results in a striking white and grey speckled appearance.</p> <p>Gypsum veins creates a moderate-stock work. The veins are both straight and irregular. No quartz veins and carbonate veins were noted.</p> <p>1-3% pyrite occurs as p'd disseminations and 1-3 mm blebs.</p> <p>Lic: Sharp @ shear @ 30°</p> <p><u>ALTERATION:</u></p> <p>The fragments have moderate Qtz-ser-Pz alteration.</p> <p><u>STRUCTURE:</u></p> <p>- 72.24 m → 2cm clay/gouge @ unknown angle.                      - 79.81 m → limonitized gouge and gypsum vein @ 70°                      - 84.72 m → gouge in centre of gypsum + talc (?) vein @ 80-90°                      - 91.43 m → gouge on gypsum vein @ 35°                      - 97.17 - 97.24 m → gouge and gypsum veins @ 60°                      - 107.69 m → 1cm shear @ 30°</p>																				
	107.69	157.58	PPHM?	2	m	4	m	Tr	1.5	/	Tr	/	/	m	m	/	/	/	w	w	/	w		
				<u>LITH + MIN</u>																				
				<p>This unit varies greatly in color. Generally the unit has a greyish green tint but locally it is green, greenish grey, grey and reddish brown and dark brown. The porphyritic texture is generally well preserved except locally it is obscured near small fault zones. The groundmass is ophanitic and surrounded.</p>																				

E.O.H  
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British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 232

Logged By: Tom Foreman  
Date: Oct 23 95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
	107.69	157.58	cont'd		25%	cream to light greyish green							1-fm			sub to euhedral feldspars							
					and 15-20%	< 1 to 3mm buff to light green										sub to euhedral bath-							
						shaped hornblendes. Rare feldspars are larger than 4mm.																	
						The unit resembles main phase in that the core is not pale grey and the feldspars appear sericite altered. Locally, though, the unit does appear to be late phase due to the greyish colour and white bleby feldspars. The reddish brown to brownish sections of this unit are very similar to main phase seen elsewhere in the early zone. These sections also have <1mm blebs of hematite and are weakly magnetic.																	
						One carbonate vein @ 113.95m may contain quartz. If so, this is the only quartz present in the unit. Carbonate is weak throughout as veins and fracture fill. Tr to weak gypsum veining occurs mostly assoc = FZ's																	
						Pyrite occurs throughout as fine disseminations and as 1-4mm irregular blebs. Chalcite pyrite occurs as 1-8mm elongate blebs (poss fracture fill) below a shear zone that ends @ 154.83m.																	
						<u>L.C.I.</u>																	
						<u>F.O.H.</u>																	
						<u>ALTERATION</u>																	
						" weak Qtz - Ark - Ser +/- Kao alteration with possible Qtz - Ser - Py alteration occurring locally. The reddish brown to brown section at the beginning of the unit does not stain and is probably due to pervasive hematite alteration.																	
						<u>STRUCTURE:</u>																	
						- 110.87m → gouge on break @ 30°																	
						- 115.40m → cemented gouge + rubble on slip @ 15°																	
						- 115.97m → gouge on slip @ 55°																	
						- 120.75m → shear @ 70°																	
						- 126.82 - 128.90m → strongly broken any core = gouge.																	
						- 128.10 - 128.23m → gouge @ 80-90°!																	



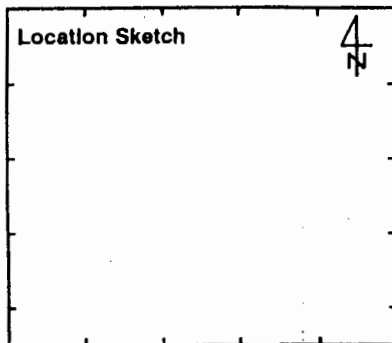
RED - CHRIS PROJECT

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British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 233

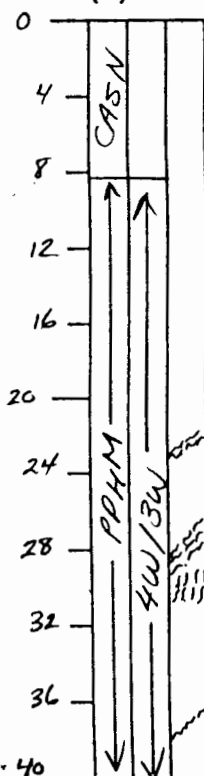


Grid Northing (m):	100350 N
Grid Easting (m):	50900 E
Elevation (m):	
Total Length (m):	212.45
Casing Depth (m):	8.84 m (29 ft)
Reduction Depth:	-
Collar Core Size:	HQ

Date Started:	Oct 22/95
Date Completed:	Oct 24/95
Logged By:	T. Fraser
Date Logged:	Oct 23/95
Data Entry:	
Entry Date:	
Casing (In/Out):	lost 3.66 m (12 ft)

Survey	Depth	Azimuth	Dip
SS	212.45	180.5°	-62°

Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
	0	8.23	CASN																				
	8.23	50.68	PPHM	4	W	3	W	0.4	2	0	2	0	0	W	W	TR	W	TR	0	0	M		
<p>Lithology - Buff to pale brown highly porphyritic plagioclase hornblende porphyry - Main Phase material. Plagioclase phenocrysts are pale green to tan coloured, subhedral to locally obscured (anhedral?). Plog phenos range from &lt;1mm - 3mm and comprise up to 35-40%. Hornblende phenocrysts are relatively rare - comprising only 5-8% 1-2 mm beige phenos. Hornblende phenos are sub to anhedral in morphology. The groundmass is aphanitic grey to brown. In places the rock appears to be brecciated and resembles late phase however due to the presence of trace grey quartz veins and abundance of hematite - the unit has been called Main Phase.</p> <p>Alteration/Mineralization - Plagioclase phenos are weakly sericite altered and occasionally sericite - clay altered. Generally the alteration consists of sericite - quartz - sulfide &amp; carbonate. Trace grey quartz veins contain disseminated pyrite, rare chalcocite and red hematite. The unit contains disseminated red hematite and its abundance may be up to locally 5%. Coverage is probably more</p>																							





RED - CHRIS PROJECT

Llard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

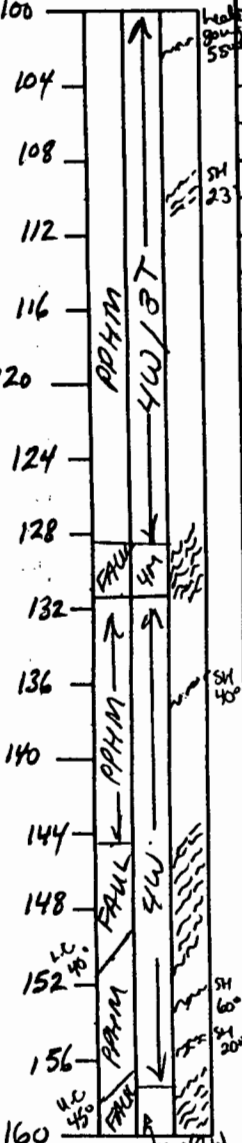
DRILL HOLE NO. 95 - 233

Logged By: T. Fraser

Date: Oct 23/95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining							
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.		
				grey to beige buff in colour.																				
				Alteration/Mineralization - The unit has undergone moderate quartz-sericite-pyrite alteration. Pyrite is disseminated throughout and is occasionally bbbby. Fragments contain grey quartz and disseminated pyrite and chalcopyrite. There are very weak to trace pyrite veins, and trace white carbonate blebs. Red hematite is disseminated and locally has concentrations up to 3%. Plagioclase and hornblende phenocrysts are moderately sericite-clay altered. There are weak to locally moderate grey quartz veins that cut the healed gouge and contain finely disseminated pyrite and chalcopyrite.																				
				structure - shears throughout are usually around 35°.																				
				@ 56.38 m lower contact of fault is somewhat gradational.																				
	56.38	71.70	PPHM	4	w	-	-	0.8	2.5	0	1	0	0	w	vw	0	Ws	TR	TR	0	0	w		
				Lithology - same as interval 9.23 - 50.68 m but hornblende phenocrysts comprise 10-15% euhedral, beige and are quite prominent. Locally the unit is dark grey and is highly porphyritic - with both plagioclase and hornblende phenos. The groundmass is brown to grey and aphanitic. Hornblende phenos range in size from 1-2 mm. Plagioclase phenocrysts are visibly zoned and average 1-3 mm in size.																				
				Alteration/Mineralization - The unit is weakly sericite-quartz-pyrite altered. Plagioclase phenos are weakly to moderately sericite-clay altered and hornblende are sericite-carbonate altered. Pyrite is dominantly found as fine disseminations and within Qtz veins.																				



RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

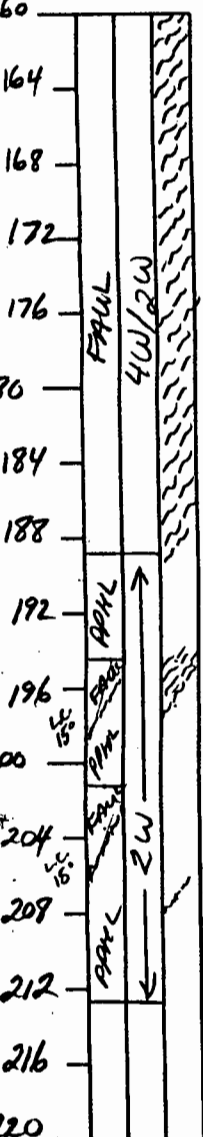
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 233

Logged By: T. Fraser

Date: Oct 23/95

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining												
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.							
																													Quartz veins vary in intensity from weak to moderate and generally contain fine-grained chalcopryite and pyrite. There are trace pyrite - chalcopryite veins. Red hematite is finely disseminated. Trace carbonate and carbonate-pyrite veins.
																													Structure - 57.27 - 57.40 m shear/broken rock @ 25-30° 58.35 - 58.95 m Shear/broken rock 62.20 - 62.80 shear with gouge 63.00 - 63.10 m healed gouge 65.00 m gouge 67.00 - 67.93 healed gouge/shear @ 55°
																													@ 71.70m upper contact fault @ 30° to core axis.
	71.70	76.45	FAUL	4	W	-	-	0.6	3.5	0	1	0	0	W	W	?	W	S	M	W	0	0	M					Lithology - The fault is notable due to its dark green to black colour. Plagioclase hornblende porphyry (Main Phase (Mm)) material is sheared and brecciated. Part of the fault is healed gouge with a high clay component. The majority of the black sections are brecciated and contain abundant disseminated pyrite associated with carbon? - rich (?) groundmass/matrix.	
																													Alteration/Mineralization - The unit is weakly silicate-clay-pyrite altered. Plagioclase phenocrysts are weakly to moderately silicified. Pyrite is disseminated and lobby throughout and comprises up to 8%. There are moderate pyrite veins cutting the fault breccia. Weak white carbonate veins cut pyrite veins. Quartz veins contain disseminated chalcopryite and pyrite (and trace hematite?). Local red hematite is disseminated (up to 5%). Pyrite is disseminated

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 233

Logged By: J. Fraser

Date: Oct 23/95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Oz	Py	Cb	A:	H:	Fr.	
				throughout.																			
				Structure - @ 76.45 m lower contact fault @ 45° to core axis.																			
	76.45	128.43	PPHM	4	w	3	T	0.5	3	0	2	0	0	w	vw	0	Ws	vw	vw	0	TR	M	
	Lithology - same as interval 8.23-50.68. The unit is highly porphyritic containing 25-35% 1-2 mm subhedral visibly zoned plagioclase phenocrysts. Plag phenos are pale green to white in colour. Hornblende phenocrysts are quite prominent and abundant. Hornblende phenocrysts comprise 8-12% 1-3 mm subhedral large phenos. Most mafics appear shaggy in texture. The groundmass is aphanitic tan to grey in colour.																						
	Alteration/Mineralization - Plagioclase phenocrysts are weakly sericite altered to very weak clay (kaolinite) altered. Hornblende phenocrysts appear to be partially carbonate-sericite and red hematite altered. Red hematite is disseminated throughout the groundmass (up to 3% locally). Chalcopyrite is locally disseminated and is present in grey quartz veins (also containing pyrite). Trace hematite veins (red) which have pyrite and chalcopyrite. Pyrite is finely disseminated throughout and its concentration is > veinlet pyrite. Trace to very weak carbonate veins. Trace quartz-chalcopyrite-hematite veins.																						
	Structure - 86.10 - 86.30 m crush/healed gouge @ 30° 88.75 - 89.90 m shear/gouge 90.20 - 90.30 m shear/gouge 94.90 - 95.10 m gouge broken 95.57 - 95.65 m gouge																						

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

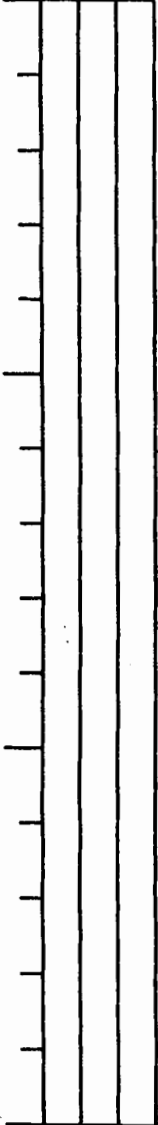
DRILL HOLE NO. 95 - 233

Logged By: T. Frasier  
Date: Oct 24/95

Graphic Log  
(m)

P	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining											
	S	From		To	Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.					
						99.40	99.10	m	shear	with	gouge	@	40°															
						99.33	99.76	m	broken	/	head	red																
						101.55	101.73	m	local	gouge	@	55°																
						100.40	100.90	m	sheared	and	broken																	
						103.77	106.12	m	local	gouge																		
						109.15	110.20	m	sheared	/	head	gouge	@	23°														
						112.15	112.65	m	sheared	PPHM	with	sheared	gouge															
						125.65	126.15	m	local	gouge																		
						@ 128.43 m upper contact fault/shear with a gradational contact.																						
						128.43	131.38		FAUL	4	M	-	-	0.6	3.5	0	TR	TR	0	0	M	W	0. w → m	VW	W	0	0	W
						Lithology - same unit as interval 76.45 - 128.43, however it is highly sheared and brecciated. The majority of the interval consists of quartz-reined Plagioclase hornblende porphyry (PPHM) fragments within a clay-rich (rock-flour?) matrix. Host rock fragments are 0.5cm to approximately 10cm in diameter. Most clasts are subrounded. There are several intervals up to 20-30cm which are competent rock (just slightly sheared).																						
						Alteration/Mineralization - The PPHM fragments in the fault breccia are veined by a weak to moderate quartz stockwork which carries fine grained pyrite and chalcopyrite mineralization. Several clasts display disseminated fine grained red hematite. Pyrite is disseminated throughout the interval (also within the matrix). Weak white carbonate veins. The clasts also display weak to moderate #4 alteration - with sericitized plagioclase phenos and quartz veins. There are very weak to trace pyrite veins. Trace carbonate-sphalerite veins.																						

Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
			Structure - @ 131.38m lower contact of fault is gradational.																			
	131.38	144.55	PPHM	4	W	-	-	0.7	3	0	1	0	0	W	VW	0	W-Ms	TR	VW	0	TR	W
			Lithology - same as interval 76.45-128.43m. The unit is buff to light grey colored.																			
			Alteration/Mineralization - The plagioclase phenocrysts are weakly relictified to very weakly clay altered (pale green colored). Hornblende phenocrysts are carbonate-sericite ± red hematite altered. Quartz veins are well-mineralized with chalcopyrite and pyrite (plus trace amounts of red hematite). Trace disseminated chalcopyrite, weak red hematite veins and up to 1-2% disseminated fine grained hematite.																			
			Structure - 136.20-136.35m shear/gouge @ 40° 136.95-138.45m sheared (gouged) PPHM 139.17-139.40m healed gouge 142.30-143.20m sheared PPHM with clay and gouge.																			
			@ 144.55m upper contact of fault.																			
	144.55	150.65	FAUL	4	W	-	-	0.7	4	0	TR	0	0	VW	W	0	Ws	VW	W	0	0	W
			Lithology - same as interval 128.43-131.38m but there are numerous black to dark grey thin shears which are approximately 5-30° to core axis. The host rock appears to be quartz-veined mafic phase unit, but some areas are particularly highly sheared and brecciated. These intervals contain PPHM fragments up to 2cm in size (surrounded clasts). The matrix consists of healed gouge and rock flour.																			

RED - CHRIS PROJECT

Llard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 233

Logged By: T. Fraser

Date: Oct 24/95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
				Alteration/Mineralization - The PPHM host unit is weakly sericite-quartz-chalcopyrite-pyrite altered. The PPHM unit contains grey quartz veins with disseminated chalcopyrite; chalcopyrite-hematite and pyrite-chalcopyrite. Pyrite is finely disseminated throughout. There are weak white carbonate veins and very weak pyrite veins. The matrix of the fault breccia/healed gouge is clay altered. Trace disseminated hematite.																			
				Structure - @ 150.65m the lower contact of the fault is @ 40°.																			
	150.65	157.73	PPHM	4	W	-	-	0.7	2.5	0	1	0	0	W	vw	0	ws	rw	W	0	0	W	
				Lithology - same as interval 76.45-128.43																			
				Alteration/Mineralization - same as interval 76.45-128.43 but the unit probably averages only 1% disseminated hematite. There are weak carbonate veins. Pyrite is disseminated throughout. Weak quartz veins contain disseminated chalcopyrite. Trace disseminated chalcopyrite.																			
				Structure - 152.94-153.30m shear/healed gouge @ 60° 155.15-155.80m shear @ 20° to C.A.																			
				@ 157.73m upper contact fault @ 45° to core axis																			
	157.73	188.70	FAUL	4	W	2	W	0.35	4	0	2	0	0	W	W	0	TR	vw	TR	0	TR	W	
				Lithology - The unit contains highly sheared and brecciated PPHL/PPHM material. Dominant clasts are sub rounded to sub angular and generally contain only trace quartz veins. Part of the fault is very distinctive and is comprised of black shears, which may be																			

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 233

Logged By: T. Fraper  
Date: Oct 24/95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining							
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.		
				carbon-rich (the material does not appear to be tourmaline since it is relatively soft. The unit is brecciated locally and contains 70% fragments within a clay-rich matrix. These intervals tend to be grey to greenish-buff in colour and fine material (matrix) has been washed away.																				
				Alteration/Mineralization - Since the host rock may have been late phase to relatively unmineralized main phase, it contains trace grey quartz veins. Plagioclase phenos are sericite to clay altered. Quartz veins generally contain disseminated pyrite. Trace disseminated chalcopyrite and pyrite throughout. Red hematite is disseminated and found in trace veins. Very weak to trace pyrite veins and trace white carbonate veins. Trace chalcopyrite blebs.																				
				Structure - The shears throughout range from 20-60°, however the shears probably average 30-40° to core axis. @ 188.70m the lower contact of the fault is gradational.																				
	188.70	194.16	PPHL	2	W	-	-	50.3	5	0	0	0	0	vw	W	0	0	VW	TR	0	0	W		
				Lithology - Pale grey late phase plagioclase hornblende porphyry. Plagioclase phenocrysts comprise approximately 25-30%, subhedral 1-3mm. Plagioclase phenos are white to pale green in colour. Hornblende phenos are pale beige in colour, euhedral and 1-3mm in size. Hornblende phenos comprise 5-12% by volume.																				
				Alteration/Mineralization - The unit contains very weakly sericite altered plagioclase to weakly kaolinite altered (clay altered). Hornblende,																				

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

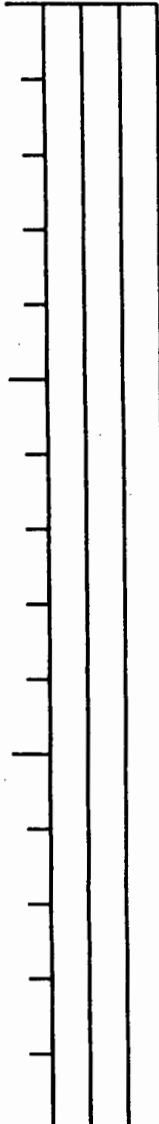
GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 233

Logged By: T. Frazer  
Date: Oct 24/95

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining							
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.		
				phenocrysts are very weakly carbonate-sericite altered. Pyrite indissiminated and occasionally blebby throughout. There are trace white carbonate veins and very weak pyrite veins.																				
				Structure - @ 194.16m upper contact fault is gradational																				
	194.16	195.70	FAUL	2	W	-	-	0.3	2.5	0	0	0	0	W	W	0	0	TR	0	0	0	W		
				Lithology - the fault is dominantly sheared and brecciated late phase material from the interval above (188.70 - 194.16m). The unit contains subrounded PPHL fragments (1cm - 10cm) in a white/grey clay-rich matrix																				
				Alteration/Mineralization - Pyrite is finely disseminated throughout and rarely blebby. There are trace pyrite veins. Alteration of the PPHL fragments are the same as interval 188.70 - 194.16m.																				
				Structure - @ 195.70m the lower contact of the fault is @ 15° to core axis																				
	195.70	201.20	PPHL	2	W	-	-	<0.3	5	0	0	0	0	W	W	0	0	TR	TR	0	0	W		
				Lithology - same as interval 188.70 - 194.16m																				
				Alteration/Mineralization - same as interval 188.70 - 194.16m																				
				Structure - 200.00 - 200.20m healed gouge. @ 201.20m upper contact of fault is sheared at 0-5° to core axis.																				
	201.20	203.45	FAUL	2	W	-	-	0.3	4	0	0	0	0	W	W	0	0	0	TR	0	0	W-M		
				Lithology - same as interval 194.16 - 195.70m																				
				Alteration/Mineralization - same as interval 194.16 - 195.70 but there is a higher concentration of disseminated pyrite. Trace white carbonate blebs and no pyrite veins																				



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British Columbia, Canada

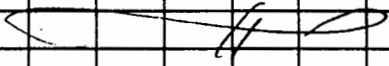
GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 233

Logged By: T. Fraser  
Date: Oct 24/95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
				Structure - @ 203.45 m the lower contact of the fault is @ 20° to CA.																			
	203.45	212.45	PPHL	2	W	-	-	40.3	5	0	0	0	0	vW	W	0	0	TR	W	0	0	M	
				Lithology - same as interval 188.70 - 194.16 m																			
				Alteration/Mineralization - same as interval 188.70 - 194.16 m but there are trace pyrite veins and weak white carbonate veins.																			
				Structure - 207.42 - 207.45 m Shear @ 20° to core axis 207.87 - 208.50 m Shear/gouge																			
				EOHE 212.45 m																			
																							

RED - CHRIS PROJECT  
 Liard Mining Division  
 British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 234

AMERICAN BULLION MINERALS LTD.

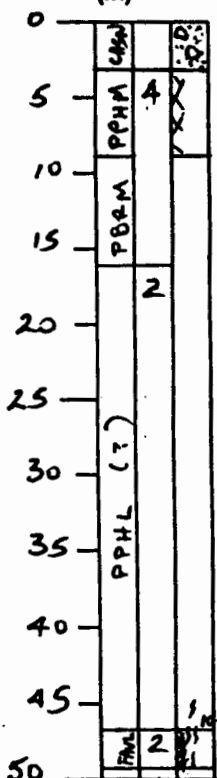
Location Sketch 4  
N

Grid Northing (m):	99900
Grid Easting (m):	49950
Elevation (m):	
Total Length (m):	252.07
Casing Depth (m):	3.05
Reduction Depth:	-
Collar Core Size:	NQ

Date Started:	OCT. 22
Date Completed:	OCT. 24
Logged By:	G. ALLEN *
Date Logged:	OCT. 24, 25
Data Entry:	
Entry Date:	
Casing (In/Out):	OUT

Survey	Depth	Azimuth	Dip
G.A. COLLAR		180	-60
S-S	152.40	182 1/2	-62 1/2
S-S	252.07	181 1/2	-63 1/2

Graphic Log (m)



\* AZ. QUESTIONABLE DUE TO MAGNETITE

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	0	3.05	QSN																			
P	3.05	8.90	PPHM	A	M			0.5	3		1-2			M							VW	M
	<p>LITHOLOGY: Medium bluish-grey to pinkish-grey fine to medium-grained feldspar physis intrusion. FOG grey groundmass of sericite with 25% vague to distinct anhedral (due to alt?) to subhedral square to prisms - shaped pinkish fsp phases average <math>\leq 1</math>mm. Size of phases increasing down hole to 2mm. Some parts with 1-2mm anhedral greenish plagioclase. Some of the phases probably altered hornblende.</p> <p>ALT: Perovskite sericite</p> <p>MIN: 3-5% f-g diorite P.T. Trace to 1% CP, average ~0.5% if-g disseminated. SO sporadic hematite to 2%, diorite.</p> <p>STRUCTURE: Blocky core. Very weak carbonate stringers. Trace quartz stringers to 2mm.</p>																					

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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 234

Logged By: G. ALLEN

Date: OCT. 24

Graphic Log  
(m)

50	2/1	vw 8% STOCKWORK
55	PPHL (?)	
60	4	
65	5	
70	5	
75	PPHM	vw 8% STOCKWORK
80	4	
85	5	
90	2/3	
95	1/1	
100	PPHM	vw 8% STOCKWORK
105	4	
110	1/1	
115	PPHM	
120	20'	
125		

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	8.90	16.46	PBRM	4	M			0.5	3		2			M					VW			W
<p>LITHOLOGY: Mottled medium grey to brownish grey sporadic intrusive breccia. Matrix of medium-grained hornblende-feldspar porphyry with green to brown f-g sericite groundmass and 30-40% 1-2mm subhedral to anhedral greenish-grey stubby to prismatic feldspar. Some parts have 15% pinkish included altered hornblende prisms. 5-10% angular to subrounded dark grey to light greenish-grey fgy phytic intrusion fragments to 5cm.</p> <p>ALT: Potassic sericite. Possible potassic in brownish parts although no stain with KCNO.</p> <p>MIN: Sporadic 1-5% PY with up to 5% hematite. Inverse relationship between PY &amp; hematite. Sporadic CP up to 0.6%, generally disseminated.</p> <p>STRUCTURE: Blocky core (weakly fractured). Weak carbonate stockwork.</p>																						
P	16.46	47.00	PPHL	2	M			T	S				M					T	VW	W		W
<p>(PPHM?) LITHOLOGY: Mottled medium to dark bluish-grey + minor pinkish-grey medium-grained hornblende feldspar phytic intrusion. Some parts vaguely brecciated, possibly pseudo breccia caused by inhomogeneous alt. Texture largely obscure. Where apparent 30% dark-grey anhedral phg phases to 2mm. 15-20% pinkish included alt. hornblende to 6mm (average 1-3mm). Vein could be main phase. Colour suggestive of PPHL.</p> <p>42.95 - 47.0 - Pinkish-grey.</p>																						

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

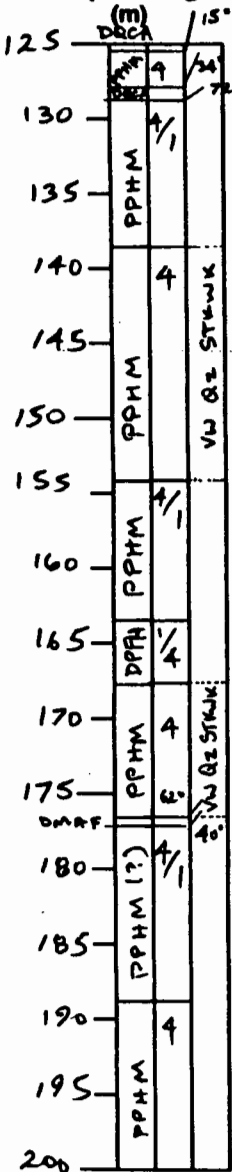
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 234

Logged By: G. ALLEN

Date: OCT. 24

Graphic Log



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining							
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.		
				ALT: Peruvian sericite. Pinkish parts (+ brown) not potassic (no stann). MIN: 5-6% f-g diagen + lesser fracture - related PY. Trace Cf. diagen or related to same quartz stringer. STRUCTURE: Very weak carb. stockwork. Trace quartz stringer.																				
				27.0 - 2cm gouge on shear 47° CA.																				
	P 47.00	49.50	FAU	2	M					5			M					VW	W			S		
				LITHOLOGY: As above but shear 32° CA to 10° CA. Blocky core. Rubble. Shear + gouge to 2cm. Weak fault																				
	P 49.50	64.84	PPHL	2	M	1	W			5			W		M				VW			W		
			(?)			(?)																		
			(PPHM?)	LITHOLOGY: As above fault. Predom medium blue-grey to dark blue-grey mottled roughly med-grained fsp phytic intrusion. Minor vague breccia. 57-64.84 - Medium grey to brownish-grey more homogeneous medium-grained feldsp phytic intrusion. Presence of f-g limonite suggests possible potassic alteration. Main phase?																				
				ALT: Peruvian sericite. 57-64.84 limonite. MIN: 5% f-g diagen + clots of PY to 1cm x 3mm. STRUCTURE: Very weak carbonate stockwork. Relatively massive.																				

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

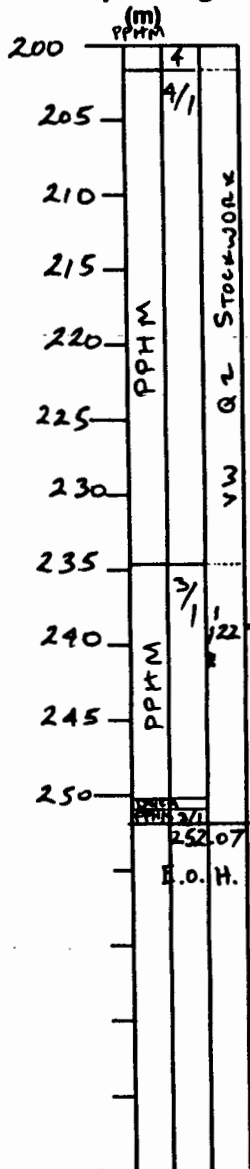
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 234

Logged By: G. ALLEN

Date: OCT. 24

Graphic Log



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining									
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.				
P	64.84	78.60	PPHM	4	M			0.5	4		2			M		VW	VW	v				W				
								<p>LITHOLOGY: Mottled light, grey to bluish-grey to greenish-grey fine to medium-grained feldspar physis intrusion with up to 30% blue-green feldspar phenocrysts up to 2mm. Textures largely obscured by alteration. Appears aphanitic in parts due to alteration.</p> <p>73.53 - 74.86 - Dark green magnetite main phase.</p> <p>ALT: Perovskite. No stain on that piece.</p> <p>MIN: 4-5% epidote, diagen + lesser fracture filling (stringers) PY. Up to 3% diagen CP, but average ~ 0.5% epidote diagen. Some cp with rare quartz stringers. 2% diagen hematite.</p> <p>STRUCTURE: Widely-spaced quartz stringers (&lt;1/m) up to 1cm wide generally at a shallow angle to core axis.</p> <p>71.0 - 71.2 crush zone + gouge 47° CA.</p>																		
P	78.60	87.48	DPFH	4	M	S	W		S				M	M							T	W				
								<p>LITHOLOGY: Gradational contact with above. Relatively homogeneous, medium-grained roughly equigranular intrusion. Biotite - hornblende - plagioclase crystals. 40% + medium greenish-brown subhedral plg phase to 4mm average ~ 2mm. 15% dark greenish-grey subhedral hornblende phase to 3mm average ~ 2mm. 5-8% brownish biotite to 1mm. Primary? This rock may be a relatively unaltered Red Stone. Non magnetic. (PPHM?) (DPFH?)</p> <p>BIOTITE PARADOX: → ALT: Perovskite. Column suggests potassic alt but no stain.</p> <p>MIN: 5% perovskite f-g diagen. PY.</p> <p>STRUCTURE: Very little stringer activity of any kind.</p>																		

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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 234

Logged By: G. ALLEN

Date: OCT. 24

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	MX	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	87.48	92.75	PPHL	2	M	3	VW		S						M				T	T			W
<p>LITHOLOGY: Medium to light grey homogeneous medium-grained feldspar physis intrusion. Gradational contact with above. Two units texturally similar &amp; separated on basis of colour. If the two units are the same, alteration has obliterated signs of banding &amp; listric.</p> <p>ALT: Pervasive sericite. Very weakly developed dark green chlorite sericite to 4mm.</p> <p>MIN: 5% diagen. &amp; lesser stronger PY.</p> <p>STRUCTURE: Very few stringers of any kind. Massive.</p>																							
P	92.75	101.4	PPHM	4	M	1	M	0.2	4		1	W		M	M			VW	VW			W	
<p>LITHOLOGY: Mottled dark grey to greenish-grey to red-brown medium-grained feldspar physis intrusion. Alteration has obscured feldspar phenocrysts but where apparent they are anhedral blue-green to grey phenocrysts up to 2mm. Alteration has made the unit look fine-grained, distinct from unit above.</p> <p>ALT: Pervasive sericite &amp; potassic (moderate stain).</p> <p>MIN: 4-5% diagen &amp; fractures-related PY. Sporadically weakly magnetic. Magnetite partly altered to hematite. Up to 5% iron oxide (limonite).</p> <p>STRUCTURE: Very weak carbonate &amp; pyrite stringer sets.</p>																							

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 234

Logged By: G. ALLEN

Date: OCT. 24

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	MAG	BI	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	101.4	106.5	PPHM	4	M			T	S		2				M				VW	W			W
<p>LITHOLOGY: Mottled medium to light grey to greenish-grey fine to medium-grained feldspathic plutonic or above. Gradational contact with unit above. Units differentiated on basis of colour. Textures largely destroyed &amp; appear fine-grained.</p> <p>ALT: Potassic sericite</p> <p>MIN: 5% discm + fracture - related PY. Traces CP to 0.5%. Int generally not apparent.</p>																							
P	106.5	124.65	PPHM	4	M	1	M	0.2	4		2	2-3		M				VW	VW				W
<p>LITHOLOGY: Mottled dark greenish-grey to red-brown fine to medium-grained feldspar phytic intrusion. Textures largely destroyed by alteration. Large subhedral greenish-grey feldspar to 2mm. Unit looks fine-grained, probably due to alteration.</p> <p>ALT: Potassic sericite. Moderate yellow stain indicating potassic alt. Unit becomes less potassic down hole.</p> <p>MIN: 4-5% f-g discm + fracture - related PY. 5% f-g spec of magnetite partly altered to hematite. Sporadic fine-grained discm CP up to 1% mixed with PY. CP not apparent in most parts. Some CP with rare quartz stringers.</p> <p>STRUCTURE: Very weak quartz stockwork with <math>\leq 1</math> quartz stringer/metre. Blue-grey quartz stringer with white carbonate core, PY + minor CP. Stringers 30-60° CA.</p>																							

**RED - CHRIS PROJECT**

Liard Mining Division  
British Columbia, Canada

**GEOLOGIC DRILL LOG**

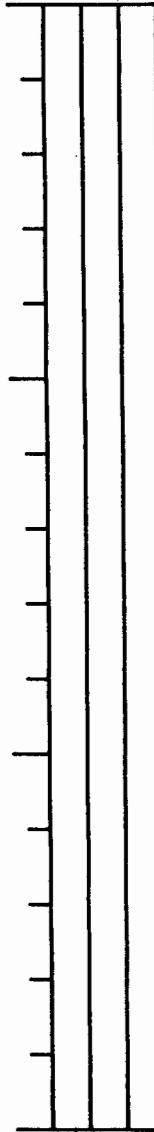
**AMERICAN BULLION MINERALS LTD.**

**DRILL HOLE NO. 95 - 234**

Logged By: G. ALLEN

Date: OCT. 24

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Mk	Bl	Kf	Ms	Cy	To	Oz	Py	Cb	A:	H:	Fr.	
P	124.65	125.48	DQCA																	W				W
				LITHOLOGY: light to medium greenish-grey aphanitic dyke. With up to 10% <1mm rounded calcite amygdulae. Flow - banded near upper contact. Upper contact 20° CA. lower contact 15° CA.																				
P	125.48	127.8	PPHM	A	M			T	3						M					T			W	
				LITHOLOGY: Mottled light to dark grey fine - grained fsp physis intrusion. 37% Py (dissemin + fracture). Traces of dissemin.																				
P	127.8	128.45	DQCA																					W
				LITHOLOGY: As 124.65 - 125.48. Upper contact sharp at 34°. lower contact 72°.																				
P	128.45	138.41	PPHM	A	M		W	T	5		2	2			M					T	W	W		
					(?)																			
				LITHOLOGY: As 106.5 - 124.65. Mottled light grey to dark greenish-grey to red-brown roughly medium-grained fsp physis intrusion. Fractures largely destroyed & the unit appears to be aphanitic. Vague greenish fsp phase. up to 3mm apparent in some places.																				
				ALT: The unit looks like it is potassic, but no stain obtained. Perovskite scarce.																				
				MIN: 5% f-g dissemin + fracture - related Py. 3-5% f-g black oxide mix of hematite + magnetite.																				
				STRUCTURE: Traces quartz stringers to 2mm.																				



RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 234

Logged By: G. ALLEN

Date: Oct. 24

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining				
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	MAE	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:
P	138.41	154.35	PPHM	A	M			0.3	A		1				M		VW	VW	W			W
<p>LITHOLOGY: Mottled medium to dark bluish to greenish-grey medium-grained feldspar physis intrusion. Texture largely destroyed. Vague greenish plug phase to 3mm.</p> <p>ALT: Peruvian sericite.</p> <p>MIN: 4% f-g diagen + stringer PY. Minor diagen hematite. Sporadic diagen + qtz - stringer - related CP to 3%, average = 0.3%.</p> <p>STRUCTURE: Very weak quartz stockwork with <math>\leq 1</math> stringer / m. Stringers to 1cm wide + generally at shallow angle to core axis.</p>																						
P	154.35	169.0	PPHM	A	M	1	W	0.5	A		2			M		T	VW	VW			W	
<p>LITHOLOGY: As 128.35-138.41. Mottled dark greenish to brownish grey medium-grained fsp physis intrusion.</p> <p>ALT: Peruvian sericite. Column suggests potassic alt, but no stain.</p> <p>MIN: 4% f-g diagen + fracture-related PY. Diagen CP up to 1%, average <math>\leq 0.5%</math>.</p> <p>STRUCTURE: Few quartz stringers lower in sect.</p>																						

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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 234

Logged By: G. ALLEN

Date: OCT. 29

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	163.0	167.64	DPFH	I	M	f	M	T	Z				M	M			T		VW			M
				<p>LITHOLOGY: Homogeneous dark brownish to greenish-grey intrusion with vague anhedral plagioclase to 2mm (~40%). 10% dark green-grey clots after surface. S. probably weakly magnetic.</p> <p>ALT: Moderate potassic. Moderate strain. Fsp mod soft &amp; probably sinistral.</p> <p>MIN: 2-3% f-g pyrite; diagen &amp; coating fractures. Rare CP also on fractures.</p> <p>STRUCTURE: Blocky core throughout.</p>																		
P	167.64	176.73	PPHM	f	M			T	S				M				VW					W-M
				<p>LITHOLOGY: Medium grey to pinkish-brown fine-grained feldspar plagioclase intrusion with vague feldspar plagioclase average ~1mm. Some parts have distinct pinkish-grey skeletal laths to 1mm, probably altered hornblende.</p> <p>ALT: Probably pervasive sinistral. Pinkish-brown parts look potassic but no strain.</p> <p>MIN: 5% f-g diagen PY or lesser PY on fractures &amp; in stringers.</p> <p>STRUCTURE: Very weak <sup>most structural with</sup> 1-3mm quartz stringers, generally <math>\leq 1/m</math></p>																		

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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 234

Logged By: G. ALLEN

Date: OCT. 24

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining				
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:
P	176.73	177.18	DMAF															W			W
	<p>LITHOLOGY: Medium greenish - grey aphanitic groundmass with 15% - 25% stubby greenish subhedral plg phenos + 8-10% dark brown biotite phenos to 2mm. Upper contact sharp, irregular ~ 65° CA. Lower contact - 40° CA.</p>																				
P	177.18	189.02	PPHM	4	M	1	W	T	3		2			M				T	W	T	
	<p>LITHOLOGY: Mottled medium to dark greenish to brownish - grey medium-grained feldspar physis intrusion. Texture somewhat obliterated. 30% - 40% subhedral prisms of fsp to 3mm, average 1-2mm + 10% 1-2mm dark green clots of altered mafics. Rock is probably a less altered variety of PPHM. Non magnetic.</p> <p>ALT: Pervasive sericite. Column suggests potassic alt. but no stain in either the brownish or greenish parts.</p> <p>MIN: 3% f-g diagen PY + sporadic hematite to 4%. Trace CP on fracture + disseminated.</p> <p>STRUCTURE: Rare quartz stringers to 5mm mixed with white calcite + PY.</p>																				
P	189.02	201.80	PPHM	4	M				0.3	5		2		M				T			W
	<p>LITHOLOGY: Mottled dark blue-grey to light grey to greenish - grey fine to medium-grained feldspar + somewhat physis intrusion. Distinctly finer-grained than above, with different column. 30% vague subhedral green-grey fsp prisms to 2mm, average 1mm. 10-15%.</p>																				

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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 234

Logged By: G. ALLEN

Date: OCT. 25

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining							
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.		
						pinkish-grey		altered			subhedral											also ~ 1 mm.		
						ALT: Pervasive micrite																		
						MINERALIZATION: 5% fine-grained disseminated and fracture-related pyrite; sporadic CP to 0.6%, generally disseminated with CP.																		
						STRUCTURE: Very rare quartz stringers to 1 cm. Irregular selvages 195.8 - 200 - moderate white carbonate stochwork / breccia flooded zone.																		
P	201.80	234.83	PPHM	+	M	1	W	0.25	S		1-2			W	M			rw	W	W		W		
						LITHOLOGY: Relatively homogeneous, orange-brown to brown to brown & leucorquinish to brownish-grey fine to medium-grained vaguely feldspar phytic intrusion. Light-colored grey subhedral masses to 2 mm (average 1-2 mm) in a red-brown to orange-brown aphanitic groundmass.																		
						ALT: Pervasive micrite. Colour in part due to hematite. Some patches stain yellow & some don't, ∴ weak sporadic potassic alt.																		
						M.I.W: 5% disseminated & fracture-related PY. Sporadic disseminated to 5% average 1-2% hematite. CP general disseminated but also in & adjacent to quartz stringers. CP up to 0.6% but average much less																		
						STRUCTURE: Very weak (< 1-2/3m) quartz stringers generally ≤ 5mm, 0-60° EA. Weak white carbonate stochwork.																		

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 Lard Mining Division  
 British Columbia, Canada

GEOLOGIC DRILL LOG  
 AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 234  
 Logged By: G. ALLEN  
 Date: Oct. 25

Graphic Log  
 (m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
P	234.83	250.50	PPHM	3	M	I	M	0.2	4					M	M			VW	VW			U-M	
	<p>LITHOLOGY: Dark to medium grey to blue-grey to grey medium-grained feldspar plagioclase intrusion with 40% subhedral sparse to prism-shaped plagioclase phenos to 3mm, average ~ 2mm in a dark grey aegirine groundmass. Dark aegirine clots ~ 20% up to 4mm, possibly nucleated around hornblende. Some potassic alteration breccia.</p> <p>Alt: Type 3 aegirine alt. Moderate yellow stain indicating potassic alt.</p> <p>MIN: 4% diam or fracture-related PY. Sporadic diam CP up to 1% but average very low.</p> <p>STRUCTURE: Sporadic weak crush throughout.</p> <p>241.3 - 241.6 - Crush/gouge zone, 22° CA.</p>																						
P	250.50	251.25	DRCA																			VW	
	<p>LITHOLOGY: light greenish-grey to dark grey aphanitic dyke with 10% white alkali amygdaloids up to 5mm. Upper contact irregular ~ 80° CA. Lower contact irregular.</p>																						
P	251.29	252.07	PPHM	3	M	I	M		4					M	M							VW	W
	<p>E.O.H.</p> <p>As 234.83 - 250.50. Random red-brown-grey medium-grained feldspar plagioclase intrusion.</p>																						


RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 235

AMERICAN BULLION MINERALS LTD.

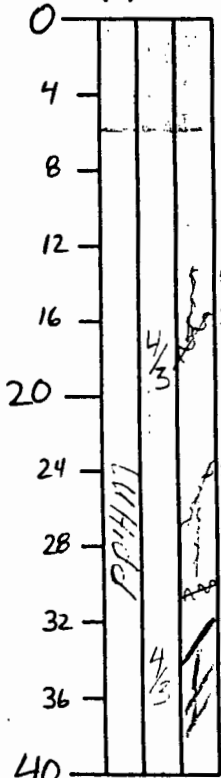
Location Sketch 

Grid Northing (m):	100 300
Grid Easting (m):	50 050
Elevation (m):	
Total Length (m):	440.14
Casing Depth (m):	5.79
Reduction Depth:	351.13 m
Collar Core Size:	HQ

Date Started:	Oct. 24/95
Date Completed:	Oct. 28/95
Logged By:	B. Thurston
Date Logged:	Oct 25/95
Data Entry:	
Entry Date:	
Casing (In/Out):	Out

Survey	Depth	Azimuth	Dip

Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	poly MAG	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
P	0.00	5.79	CASN																				
P	5.79	94.15	PPHM	4	W	3	W	.72	4.5	0	<1	T	0	vW	S	W	vW	vW-W	W	W	0	T	W
P	94.15	96.40	DMAF																				
P	96.40	151.30	PPHM	4	W	3	W	.90	4.5	0	T	T	0	T	M-S	W	vW	W-M	W	W	0	0	W
<p><b>Lithology:</b> Altered PPHM is the main rock type for the first 150m of this hole. Besides slight variations in colour/alteration &amp; degree of Qtz stockwork/cpy this unit is fairly homogeneous. Increased shearing/faulting is observed in the first 30m of core and then solid, competent rock is intersected to 151m. The core is light, pale grey to green → med. green and a pale orangey-brown-yellowish colour in potassic areas. Porphyritic texture is trace to very weak upsection through the faulting but increases to very weak to weak before DMAF and after DMAF to 151m. Plag. phenocrysts are most often preserved in patches. These phen's are generally anhedral and strongly sericitized. Matrics are seldom observed. They occur as ratty, buff coloured grains often partially replaced by Py. Qtz stockwork is T → W to DMAF &amp; W → M after DMAF. The quartz veins are 1mm → &gt;2cm in size but most common 0.2 → 1cm. Carb veining occurs mainly in areas of shearing. It occurs as fracture filling &gt; veins.</p> <p><b>Alt'n:</b> Core is strongly sericitized in matrix &amp; phen's ± Ank ± Qtz ± Kao ± Py disseminations. Weak mottled Amyllic blebs are observed throughout but mainly as ser + Py (Amyllic)</p>																							



RED - CHRIS PROJECT

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GEOLOGIC DRILL LOG

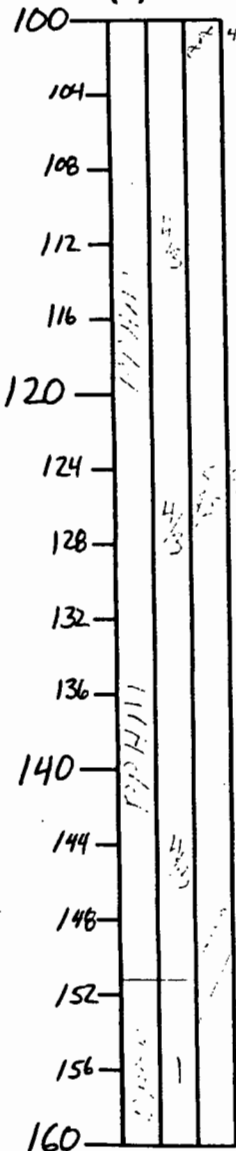
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 235

Logged By: B. Thurston

Date: Oct. 26/95

Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining														
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	MAG	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.									
P	151.30	177.35	DPFH	1	S	4	W	0	0.5	0	1	M	0	S	M	W	0	0	0	W	0	0	M									
				Lithology:				Typical DPFH requiring No description but I'll humor you. 151 → 163m is Intensely Potassic. It is Dark red-brown w very good euhedral phenocrysts and a good porphyritic texture preserved. Mafics are chloritized, plag is sericitized, Matrix is potassichly (k-sp pervasive) altered. He & mag. v pervasive and disseminated. No Qtz stk-wrk. Carb. as fracture filling (weak) and less as veining. Py is trace to 163m where Potassic alt'n becomes secondary to Ser + Py ± Ank + KAO alt'n. No Cpy. Calcite is strong in Potassic areas mainly as phenocryst replacement along w the chloritized mafics. Where chlorite is pervasive in groundmass so is calcite. Mafics are a light green to buff colour in (4) alt'n areas.																								
				Alt'n:																												
				Structure:				* Shears in Lower section of Dyke @ 30° * U.C. & L.C. both assymilated in No degree to C.A.																								
P	177.35	273.00	PPHM	4	M	3	W	1/2	4	0	T	0	0	T	S	W	vW	W-M	W	T	0	0	vW									
				Lithology:				I hate not to write a long description but... This unit is exactly the same rock type as described from the beginning of the hole! light to med. green colour to core w patchy yellowy-buff colour & the odd grey patch. Qtz Veining may be slightly more intense, slightly more moderate than last section.																								
				Minz:				Cpy is noted as being >90% diss. in matrix and ground Qtz veins but not necessarily in the Qtz veins. It is also easier to distinguish the Cpy from the Py starting @ ~ 192m. Py is 60% diss & 40% as veins / structure fillings.																								
				Alt'n:				Same as previous but Potassic is much less and not as strong.																								
				Structure:				* 30cm shearing @ 196m @ 40° & 65° * 10cm shear @ 215m @ 40° * 18° & 48° 2cm sh's @ 248.50m * Partially heated shearing + clay alt'n @ 255 → 264m @ 30°, 30°, 40°, 30°, 30°																								



RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

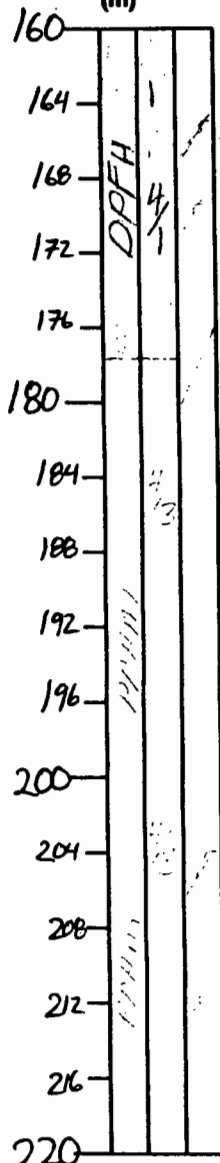
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 235

Logged By: B. Thurston

Date: Oct. 27<sup>th</sup> 95

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining										
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	MAS	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.					
P	273.00	273.65	DLAT					0	T	0	0	0	0	0	?	S	0	0	0	0	0	0	M	Lithology: Cream to light buff colour w grey envelopes on Py fractures (0.5mm). Ser? blks filling fractures. Structure: * 5°-10° in 15° for U. & L. contacts. ? sheared sharp & Broken.				
P	273.65	287.10	PPHM	4	m	3	w	1.2	3	0	T	0	0	T	S	W	vW	MS	W	W	0	0	W	Lithology: Same as before DLAT. Alt'n: Strong clay alteration of matrix (Plag → clay) Minz: Cpy is becoming more difficult to distinguish from Py Structure: * L.C. w DQCA @ 45° sharp				
P	287.10	288.15	DQCA					0	T	0	T	0	0	0	?	S	0	0	0	T	0	0	vW	Lithology: very fine grain Cream to light buff w <1% 3-7mm Qtz-Carb & Carb amygdals. Py on fractures w grey selvages. Hem stain pervasive and patchy. Structure: * U.C. & L.C. Sharp @ 45° SH'd.				
P	288.15	302.15	PPHM	4	m	3	w	1.3	5	0	T	0	0	?	S	S	vW	S-m	W	T	0	0	vW	Lithology: Same as 273 → 287 m. Alt'n: Strong clay alteration of matrix Minz: Cpy is becoming difficult to distinguish from Py. Structure: * L.C. w DQCA @ 45° sharp, shear.				
P	302.15	304.87	DQCA					0	T	0	?	M	0	0	S	S	0	0	0	W	0	0	vW					
P	304.87	306.93	PPHM	4	m	3	w	1.2	5	0	0	0	0	0	m	m	0	W	T	0	0	0	W					
P	306.93	320.40	DQCA					0	T	0	?	M	0	0	S	S	0	0	0	W	0	0	vW	Lithology: PPHM is same as above unit, possibly a ralt caught up in dyke. DYKE Lithology: Dyke is Med to dark green → med. to dark red → purplish brown → light grey green. Although colour is varied Dyke is homogeneous. 1-2% Carb and Quartz-Carb amygdals 1mm → 5mm throughout a fine grain to				



RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

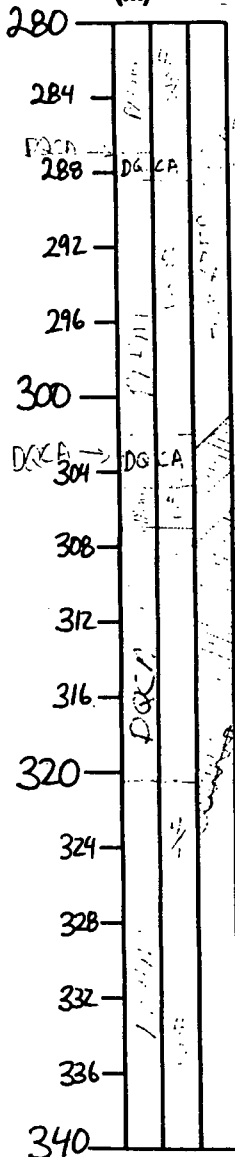
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 235

Logged By: B. Thurston

Date: Oct. 28/95

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining								
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Moly MAG	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.		
P	362.00	425.35	PPHM	4	m	3	m	1.3	4	o	T	*Moly	o	o	S	W	vW	W	vW	W	o	o	W		
				Lithology:		One again same as 96 → 151 m on almost all accounts except that the Qtz stk-work is weak and ** the unit, especially from 362 → 402 m looks fragmental. Qtz <sup>sub-</sup> angular fragments are observed along w discontinuous Qtz veins and other PPHM frag <sup>s</sup> .																			
				Mineral:		This is not strong enough to call PBRM but mineralization is noted to be stronger in the matrix of this unit w less Qtz veins. Cpy is 90% diss. Py is diss = fractures/veins. He diss as dark red spots. Tourmaline diss. rosettes up to 1% locally. Tr Moly diss.																			
				Structure:		* except for the fragmental appearance up section this core is solid w out any significant structure. * L.C. w PPHM-2? unit is healed Qtz/assym SH @ 16 angle? but grade and Qtz are cut off abruptly @ 425.35 m.																			
				* DYKE *		* DQCA 363.55 → 363.75 m @ 30° W.E. Dyke very small ∴ not broken out as unit.																			
P	425.35	440.14	PPHM	4	m	1	W	.45	2.5	o	<1	T	T	M	W	T	TW	W	W	o	o	W-M			
				Lithology:		This unit is described from 320.40 → 362.00 m. They are the same.																			
				Altn:		Potassic is slightly more dominant in this section possibly because it is a smaller unit. May + He + Bio ± K-sp is observed. Elsewhere Ser = Ank ± Kao ± Qtz + Py is pervasive.																			
				Structure:		* Core is slightly more fractured and ∴ more blocky. * 20cm SH breccia + gouge @ 70° @ 433.3 m * Small SH's @ 60°																			





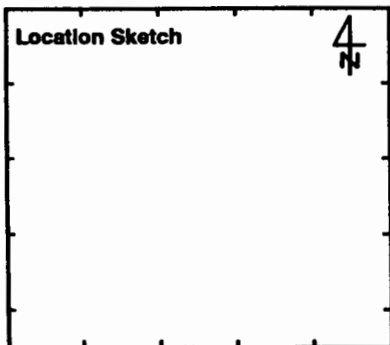
RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 236

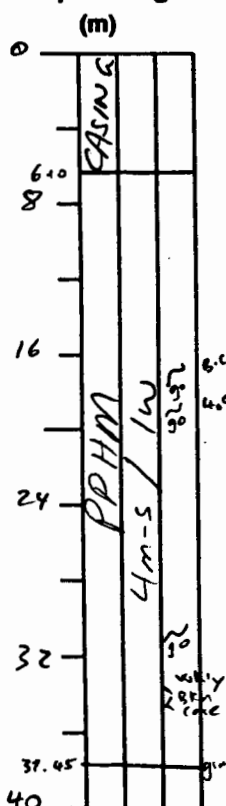


Grid Northing (m):	99 950
Grid Easting (m):	50 000
Elevation (m):	
Total Length (m):	332.84
Casing Depth (m):	6.10
Reduction Depth:	/
Collar Core Size:	NQ

Date Started:	OCT 24 '95
Date Completed:	OCT 26 '95
Logged By:	JAN FOREMAN
Date Logged:	OCT 25 '95
Data Entry:	
Entry Date:	
Casing (In/Out):	OUT.

Survey	Depth	Azimuth	Dip
S.S	152.4	180°	455°
S.S.	300.84	184.5°	-47°

Graphic Log



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
	0.0	6.10	CASN																				
	6.10	37.45	PPHM	4	m-S	1	w	0.4	3.5	/	2	/	w	m-S	m-S	Tr	VW	/	w	/	/	w	
				LITH+MIN:																			
				The porphyritic texture is well preserved throughout the unit. The core is generally greyish green but it is locally reddish brown, grey and cream. The appearance of the unit varies but in general it contains 20-25% white to translucent greyish green sub-embellated, locally rounded, 1-3mm feldspars and 10-15% <1-2mm sub to embellated buff to cream, locally green, hornblendes. The feldspars are very distinctive and create the obvious porphyritic texture.																			
				No gypsum veins noted through the unit. Carbonate is weak, locally moderate, as veins and fracture fill. Trace to weak quartz stockwork as 1-5mm veins. The quartz veining increases to a moderate stockwork over 10-15cm sections.																			
				Mineralization is predominantly associated with the quartz veining. 0.3-0.45% chalcopyrite occurs in the quartz veins and only locally occurs as fracture fill, in carb veins and as disseminations and blubs within 1cm of veins.																			

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

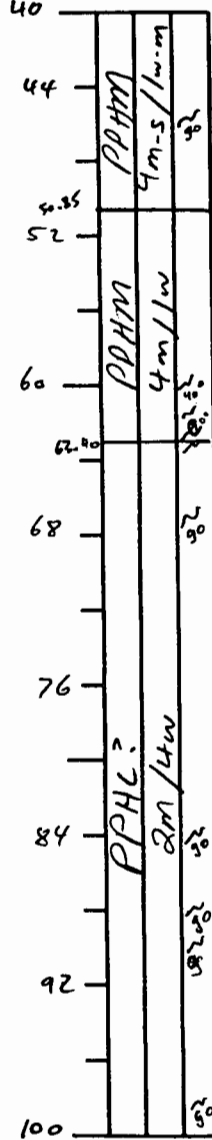
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 236

Logged By: IAN FOREMAN

Date: OCT 25 '95

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	6.10	37.45	contb		3-4%																	
	<p>pyrite occurs throughout as fgd disseminations, 1-4mm irregular blebs, in both carbonate and quartz veins and as fracture fill.</p> <p>1-3% hematite occurs throughout the unit predominately as &lt;1-3mm subrounded to subangular blebs. Hematite also rims phenos, occurs as 0.5-1cm irregular massive blebs, in quartz veins, fracture fill and as pervasive v.f.g'd staining of the groundmass.</p> <p>Between 12.70m and 13.25m the unit contains rare fragments. These fragments are typically 0.5-1.5cm subangular and massive.</p> <p>gradational. Made at a slight increase in Qtz veining and a 1.5m zone of weak to moderate potassic alteration.</p> <p><u>ALTERATION:</u></p> <p>The unit is pervasively mod to strongly Qtz-Ank-ser-Kao altered. Locally though, the unit is reddish brown to brownish green as a result of weak potassic alteration. Often, this is rimmed with an increase in pervasive hematite staining. Local limonitic staining on breaks in the top 2.0 meters.</p> <p><u>STRUCTURE:</u></p> <ul style="list-style-type: none"> <li>- 17.62 - 17.65m → gouge in washed rock</li> <li>- 17.97m → trace gouge on edge of carb/Qtz vein @ 40°</li> <li>- 31.00m → gouge on irregular bkn surface followed by gouge on slope?</li> <li>- 34.91 - 35.09m → weakly bkn core</li> </ul>																					
	37.45	50.85	PPHM	4	m-s	1	w-m	0.5	4	/	2.5	/	w-m	m-s	m-s	Tr	w	/	w	/	w	
	<p><u>LITHOMIN</u></p> <p>This is the same main phase unit that is described between 6.10 and 37.45m except that the quartz stockwork is stronger. BUT</p>																					







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British Columbia, Canada

GEOLOGIC DRILL LOG

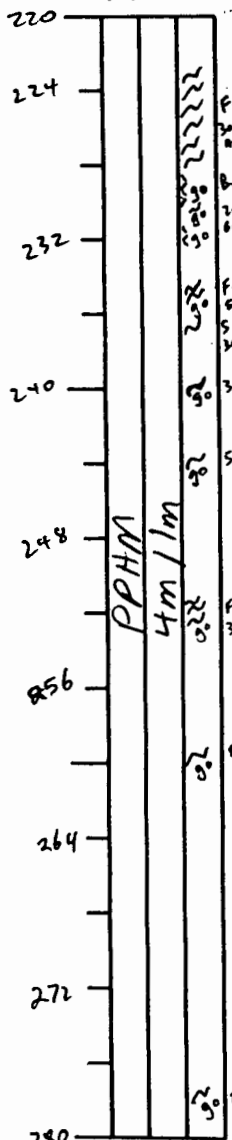
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 236

Logged By: Jan Foreman

Date: Oct 25 '95

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining							
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.		
	63.40	147.61	COMB		-	84.70m		→	gongle on edge of sheared carbonate vein @ 45°															
					-	88.90m		→	gongle in bkn core and on slip @ 50°															
					-	89.68m		→	2cm gongle and slip @ 65°															
					-	97.12m		→	gongle on slip @ 50°															
					-	102.00m		→	4-6mm gongle on slip @ 50°															
					-	102.78m		→	1cm cemented gongle, gongle and rubble @ 40°															
					-	102.76m		→	2mm gongle in slip @ 45°															
					-	117.78m		→	Fz2. w crushed rock and gongle @ 40°															
					-	119.79m		→	3-6mm gongle on slip @ 40°															
					-	131.90-132.00m		→	gongle in wtkly bkn core															
					-	135.90-136.25m		→	gongle in mid bkn core															
					-	141.38m		→	1.4mm gongle on slip @ 25°															
	147.61	149.08	DQCA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				<u>LITHOLOGY:</u>																				
				olive green to greenish grey with an aphanitic matrix w 5-10% 4mm white specs (plens?) and 3-8% 1-5mm rounded carbonate omphacites. weak carbonate veining throughout																				
				<u>L.C.:</u> Sharp @ 40°																				
	149.08	153.10	PPHL?	2	m			2.5	/	/			/	/	m	m	/	Tr	/	Tr	/	/	w	
				<u>LITH + MIN:</u>																				
				This is the same possible, late phase unit that occurs above the dyke and is described between 63.40 and 147.61 metres																				
				<u>L.C.:</u>																				
				contact is gradational																				
				<u>ALTERATION:</u>																				
				The alteration is similar to the continuation of the unit above the dyke but there are no sections that are potassically altered																				

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

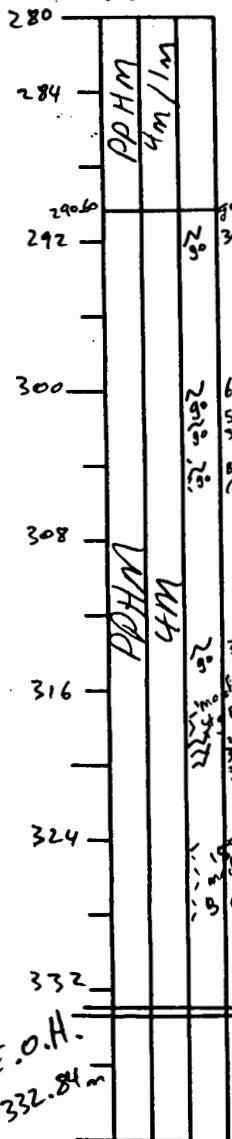
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 236

Logged By: JAW FOREMAN

Date: OCT 26 '95

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	149.08	153.10	10P10																			
	STRUCTURE: - No visible structures																					
	153.10	192.90	PPHM	1	w-m	4	W	Tr	3	/	10	/	w-m	W	W	/	Tr	vw	Tr	/	/	W
	LITHOLOGY: The unit is mottled brown and tan with a well preserved porphyritic texture. 20-25% cream to translucent brown <1-3mm subhedral $Pd_{25}S_{75}$ and 15% buff to dark brown <1-2mm sub to euhedral hematites. Locally the hematites are very difficult to distinguish from the groundmass. Rare (5%) quartz veins are poorly mineralized. Trace carbonate veining and possible fracture fill. No gypsum veins occur through this unit. 3% pyrite occurs throughout as rigid disseminations, 1-4mm rounded and irregular blobs as well as frac fill and veins. Trace chalcopyrite occurs as v.f. rigid specs in the rare quartz veins Tr to 3% hematite occurs throughout as rigid dissem, 1-3mm irregular blobs and as pervasive staining of the groundmass. The hematite is, locally, only evident on the stained surface and L.C. Slap in 10cm fault zone @ 50°																					
	ALTERATION: Weak to moderate potassic alteration throughout results in a mottled stain. Locally, the core does not stain. These sections are weakly Qtz-ser-Ank + Ksp altered and the colour must be due to hematite.																					
	STRUCTURE: - 181.71m → gouge on break @ 50° and moderately bkn core - 192.90m → 10cm fault zone with gouge @ 50°																					

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

Graphic Log  
 (m)

P S	Interval		Rock Code	Alteration Facies			Mineralization				Alteration Mineralogy					Structure - Veining							
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
	192.90	290.60	PPHM	4	M	1	m	0.3	3.5	/	1.0	/	m	m	m	Tr	Tr-Vw	Vw	Vw	/	/	w	
					<u>LITH+MIN:</u>																		
					<p>This unit is quite variable. It is generally green with sections that are reddish brown, brownish green, grey and light brown. The porphyritic texture is well preserved throughout. 20-25% cream to translucent light green to pinkish brown, &lt;1-3mm sub to euhedral feldspars and 15-20% buff to dark green &lt;1-2mm, rarely &gt;4mm, sub to euhedral hornblende. Locally, the unit expresses aphanitic. These sections are commonly in the reddish brown portions of the unit.</p> <p>The quartz stockwork varies from trace to weak and is locally absent. The quartz stockwork is strongest between 200.25 and 239.27 meters and decreases down hole to being non-existent. Trace to weak carbonate throughout as veins and fracture fill. This unit contains no gypsum veins.</p> <p>3-4% pyrite occurs throughout primarily as lig'd dissemin and as 1-4mm irregular and rounded blebs. Pyrite also occurs in quartz and sub veins as well as fracture and veins. 20.8 to 0.45% chalcopyrite almost exclusively occurs within quartz veins and as disseminations within 1-2cms of quartz veins.</p> <p>Hematite occurs as 1-3mm blebs, pervasive staining of the general mass and on rare fractures. Hematite varies from trace to 3%.</p> <p>Tourmaline occurs locally as a lig'd dissemin and associated with fractures.</p> <p><u>i.e.:</u></p> <p>gradational - marked by a change in appearance (coarser) and the presence of weak stockwork.</p> <p><u>ALTERATION:</u></p> <p>The alteration varies throughout the unit. It is predominantly moderately Qtz-Ser-Ank-Fab altered. Locally the unit has</p>																		





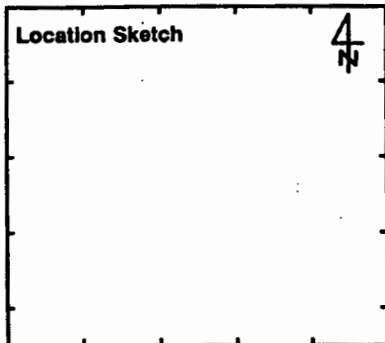
RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 237

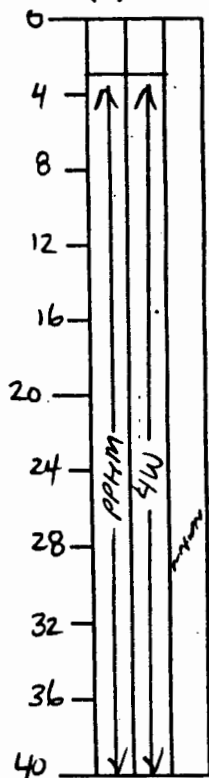


Grid Northing (m):	99900 N
Grid Easting (m):	50300 E
Elevation (m):	
Total Length (m):	286.82 m
Casing Depth (m):	3.05 m
Reduction Depth:	-
Collar Core Size:	NQ

Date Started:	Oct 26/95
Date Completed:	Oct 28/95
Logged By:	T. Fraser
Date Logged:	Oct 27/95
Data Entry:	
Entry Date:	
Casing (In/Out):	lost 3.05 m

Survey	Depth	Azimuth	Dip
SS	154.5	181.5	-62°
SS	283.8	182.5	-62°

Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	0	3.05	CASN																			
	3.05	64.87	PPHM	4	W	-	-	0.45	4	0	2	0	0	W	vW	TR	Ws	M	W	0	0	W
	<p>Lithology - Medium grey to greenish buff-colored Main phase plagioclase hornblende porphyry. The unit is moderately porphyritic with approximately 25-30% subhedral plagioclase phenocrysts. Plag phenos vary in size from 1mm - 2mm. Dominantly the plag phenos are pale to medium-colored green. Hornblende phenos appear to be obscured, but locally are somewhat notable - beige phenos comprising 8-10%. Hornblende phenos are euhedral, 1-3mm. It would appear that the unit is inhomogeneous with respect to the distribution of hornblende phenocrysts.</p> <p>Alteration/Mineralization - The unit is weakly altered to carbonate-sericite ± clay-pyrite and quartz. Pyrite is finely disseminated throughout and occasionally blebby. Pyrite veins are dominantly moderate in intensity and locally weak. There are trace carbonate-quartz-pyrite veins. Locally 1-3% red hematite is finely disseminated. Biotite phenocrysts are sericite altered and occasionally clay altered. Some sections appear to be carbonate-sericite altered. A weak to very weak quartz stockwork contains disseminated CPY and pyrite.</p>																					





RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

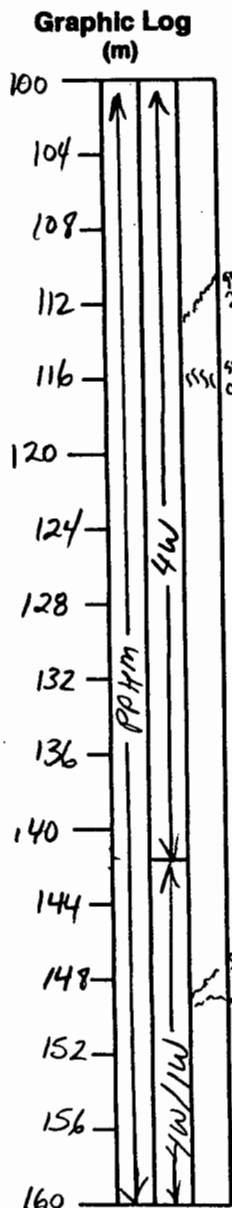
GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 237

Logged By: T. Frazer

Date: Oct 28/95



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
				Structure -				64.87-65.23 m broken with gouge														
								66.37 shear @ 60°														
								81.95-82.03 m sheared														
								96.45-96.80 m shear 40-45°														
								100.98-101.15 m gouge														
								108.50 m gouge														
								111.75-112.13 m healed gouge 20°														
								115.90-116.40 m sheared with gouge 0° to core axis														
								129.41-129.75 m gouge/broken rock														
								@ 141.67 m alteration of the PPHM unit changes														
	141.67	145.90	PPHM	4	W	1	W	0.35	3	0	TR	W	TR	W	TR	0	TR	vw	W	0	0	M
				Lithology - The main phase plagioclase hornblende porphyry is light brown/tan to grey in colour. The unit is highly porphyritic, with notable hornblende phenocrysts. Plagioclase phenocrysts are subhedral to euhedral. Sometimes the phenocrysts are visibly zoned. Plagioclase grains are pale apple green and comprise 30-35% of 1-4 mm phenocrysts. Hornblende phenocrysts are distinctive since they are light brown to black and have a shaggy appearance. Mafic phenocrysts are euhedral, comprise 8-12% and range in size from 1-2 mm. The groundmass is tan to pale orange.																		
				Alteration/Mineralization - Plagioclase phenocrysts are weakly sericitic altered, with trace amounts of clay/karinite. Hornblende phenocrysts appear to be weakly biotite altered - giving them a shaggy texture. The groundmass colour is due in part to hematite staining but also trace to weak amounts of Kspar alteration. Pyrite is finely disseminated and in very weak veinlets. Quartz veins are generally trace to very weak in intensity and carry																		

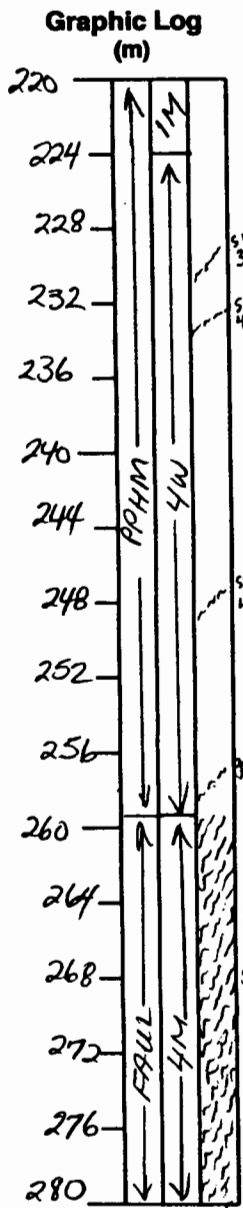


GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 237

Logged By: J. Frazer  
 Date: Oct 29/95



P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining							
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	MAG	BI	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.		
				Alteration/Mineralization - The unit is variably hematite and Kspar altered. (dominantly within groundmass material). Locally, though clasts and matrix are moderately to strongly biotite altered. Plagioclase phenos are weakly to very weakly sericitized. Locally some matrix material is clay altered. Dark veins are brecciated and also appear late, occasionally mineralized with chalcopyrite. Pyrite is finely disseminated and blebby throughout. There are weak pyrite veins and carbonate veins.																					
				Structure - 205.98 - 206.10 m healed gouge 206.42 m shear @ 50° 207.42 - 207.55 m shear/gouge.																					
				© 211.68 m sheared (?) upper contact with PPHM																					
	211.68	224.00	PPHM	1	M	-	-	0.3	2.5	0	0	TR	TR?	M	VW	0	0	TR	VW	WEM	0	0	W		
				Lithology - Dark brown main phase plagioclase hornblende porphyry. The unit appears to be fine grained, but on closer inspection is moderately porphyritic - the phenocrysts tend to blend in with the groundmass colour. Plagioclase phenos probably comprise 25-35%, 1mm average, and are hematite stained orange. Hornblende phenos appear pristine, comprising 5-10% 1-2mm grains, dark green to brown in colour. The groundmass is brown to orange and aphanitic.																					
				Alteration/Mineralization - The groundmass is moderately Kspar altered. Some of the phenocrysts (matrix) may be biotite altered (?). The unit is weakly magnetic - probably finely disseminated magnetite. Trace quartz veins contain white carbonate and pyrite. Pyrite is finely disseminated as well as very weak veins. White carbonate veins are present from weak to moderate intensity. Plagioclase phenos may be very weakly sericitized.																					





# RED - CHRIS PROJECT

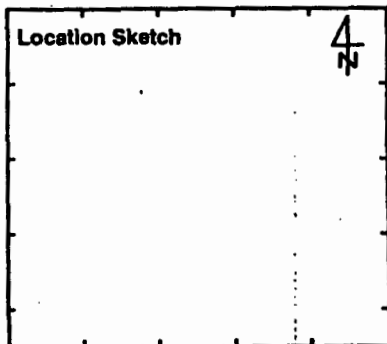
Liard Mining Division  
British Columbia, Canada

# GEOLOGIC DRILL LOG

GH

DRILL HOLE NO. 95 - 238

## AMERICAN BULLION MINERALS LTD.

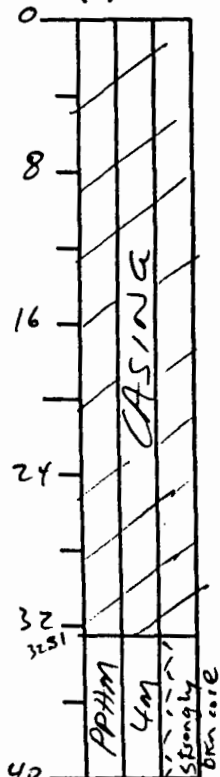


Grid Northing (m): 99 250  
 Grid Easting (m): 49 050  
 Elevation (m):  
 Total Length (m): 216.41  
 Casing Depth (m):  
 Reduction Depth: /  
 Collar Core Size: NQ

Date Started: Oct 28 '95  
 Date Completed: Oct 31 '95  
 Logged By: Jan Foreman  
 Date Logged: Oct 31 '95  
 Data Entry:  
 Entry Date:  
 Casing (In/Out): OUT

Survey	Depth	Azimuth	Dip
S.S	114.91	78.5°	-59.5°?
S.S	216.41	80.0°	-6.0°?

### Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Oz	Py	Cb	A:	H:	Fr.	
	0.0	32.31	CASN																				
	No core recovery due to TRICONING through soft intervals layers.																						
	32.31	44.84	PPHM	4	M			0.6	4.0	/	1.0	/	/	m	m	/	m	/	Tr	/	/	S	
	LITH+min																						
	The core has a grey green appearance and the porphyritic texture is generally well preserved. 15-20% 1-3mm sub to embedded veins to light translucent green feldspars and 10-15% 1-2mm sub-embedded buff hornblenders.																						
	Moderate quartz stockwork as moderately well mineralized 3mm to 2.5cm grey to white veins. Trace carbonate veins and no gypsum veining.																						
	0.6% Chalcopyrite is predominantly as disseminated grains in the groundmass near quartz veins and fractures. Cp also occurs as blebs, fracture fill and in quartz veins. 4.0% pyrite occurs primarily as Ag'd disseminations as well as 1-4mm irregular blebs and as frac fill and in veins.																						
	Hematite occurs throughout as 1-5mm blebs and frac fill l.c. in the core.																						

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 238

Logged By: JAN FOREMAN

Date: OCT 31 '95

Graphic Log  
(m)

40			
44	PPHM	4m	30°
44.88			
52	VSED	4m	45°
60			
60.47			
66.05	PPHM	4m	30°
68.05			
71.00	PPHM	4m/1m	30°
73.77			
76	USED	4m	30°
78.24			
80.47	PPHM	4m	30°
84	USED?	4m	30°
86.55			
92	PPHM	4m/1m	30°
100			

P S	Interval		Rock Code	Alteration Facies			Mineralization				Alteration Mineralogy					Structure - Veining							
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
	32.31	44.88	CONT'D																				
	<p><u>ALTERATION:</u> Locally the unit is strongly sericitized. Throughout though the unit is moderately Qtz-Ank-ser +/- Kao altered.</p> <p><u>STRUCTURE</u> - 32.31 - 44.88m - Strongly bkn cl-8cm ang scale to local jugs.</p>																						
	44.88	59.82	VSED	4	M			0.45	4.0	/	/	/	/	M	M	/	M	/	Tr	/	/	S	
	<p><u>LITH+MIN:</u> The unit is predominantly yellowish green with green and greyish brown patches. The unit is ophanitic and massive except for rare 1-3mm subrounded translucent crystals. 5-10cm patches have a mm scale striped appearance as chlorite is replacing grains etc... and/or chlorite is fracture filling. Chlorite makes up 75% of the rock as rigid disseminations, discrete 1-3mm blabs, and as fracture fill. This can also create a mottled appearance.</p> <p>Moderate quartz stock work as 1-15mm straight and irregular moderately well mineralized quartz veins. Trace carbonate as both veins and fracture fill. No gypsum veining.</p> <p>0.45% Chalcopite as rigid disseminations and 1-4mm rigid blabs which are commonly associated with chlorite. Cpy also occurs in quartz veins and as fine fill. 4% Pyrite predominantly occurs as rigid disseminations and 1-4mm irregular blabs as well as in veins and fine fill.</p> <p><u>L.C.</u> in bkn core</p> <p><u>ALTERATION:</u> This unit is strongly sericite altered (resulting in the yellowish green color) and therefore is put into the moderate Qtz-ser-Ank +/- Kao alteration scheme.</p>																						

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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

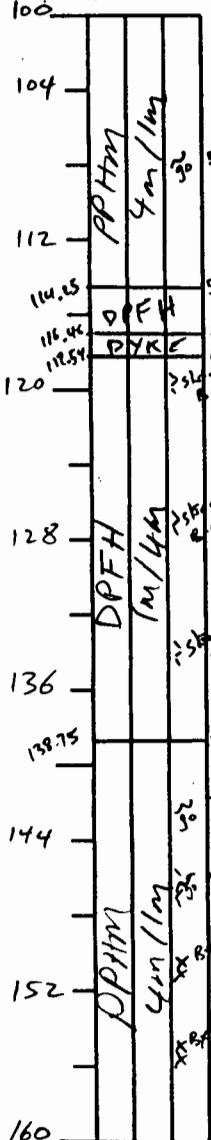
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 238

Logged By: Ian Foreman

Date: Oct 31 '95

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Oz	Py	Cb	A:	H:	Fr.
	44.89	59.82	Cont'd	STRUCTURE																		
				- 44.89-59.82m →				Strongly blk				<1-6cm ang core to local gouge.										
	59.82	66.05	PPHM	4	m			0.45	4.0	/	1.0	/	/	m	m	/	m	/	Tr	/	/	S
				LITH+MIN+ALT:																		
				This is the same main phase unit that occurs above																		
				the volcanic sediments and is described between 32.31 and 44.88m																		
				L.C.:																		
				lower contact in a 10cm gouge and rubble zone @ 60°																		
				STRUCTURE:																		
				- 59.82-66.05m →				Strongly blk				<1 to 8cm angular with local gouge.										
	66.05	73.77	PPHM	4	m	1	m	0.36	3.0	-	1.0	/	m	m	m	/	w	/	Tr	w	/	w
				LITH+MIN:																		
				60% greyish green and 40% light reddish brown with a																		
				moderately well preserved porphyritic texture throughout. 15-20%																		
				1-3mm sub-euhedral cream to translucent reddish brown to green																		
				epidotes and 10-15% <1-2mm sub-euhedral cream to buff																		
				hornblende. The ground mass is aphanitic and locally appears																		
				to be translucent.																		
				Weak quartz veining and trace carbonate veins and																		
				fracture fill. This unit has weak gypsum veining. The																		
				gypsum is both white and orange.																		
				0.36% chlorite is predominately in the quartz veins																		
				but also occurs as fine disseminations and 1-3mm irregular blebs within																		
				1-3cm of the quartz veins as well as fracture fill. 3% pyrite																		
				occurs predominately as fine disseminations and 1-4mm																		
				irregular blebs throughout the ground mass as well as in the																		
				veins and fracture fill. Relative to the above units																		
				there is an increase in pyrite fracture fill. Tr & 2% hematite																		



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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

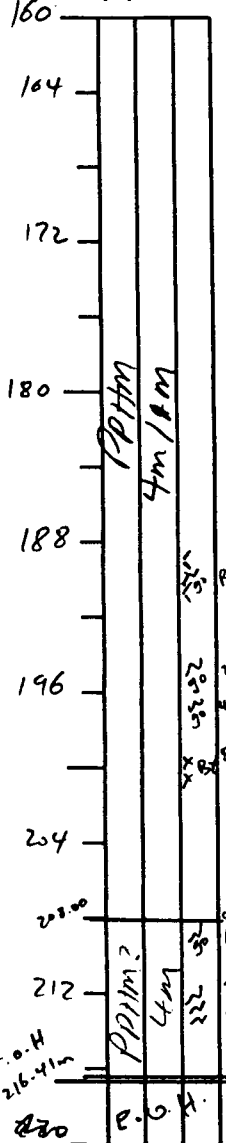
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 238

Logged By: Jan Foreman

Date: OCT 31 '95

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy				Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	66.05	73.77	Cont'd		occurs			sparsely throughout				predominately				as pervasive staining.						
					<u>L.C.:</u>			The lower contact is indistinct and possibly @ 30-40°														
					<u>ALTERATION:</u>			The unit is predominately moderately Qtz-Ser-Ank <sup>+</sup> -Kfs altered. Although a portion of the reddish brown sections is due to pervasive hematite staining of the ground mass, the rest of the unit is weakly to moderately potassic altered.														
					<u>STRUCTURE:</u>			- 66.05 - 66.13m → gauge and rubble @ 60°														
								- 68.07m → 1-2cm cemented gauge and rubble along a gypsum vein @ 25°														
								- 68.18 - 68.46m → Breccia with 2mm - 1.5cm subangular fragments. The contacts are @ 30°														
								- 70.72 - 70.76m → gauge around gypsum vein @ 80-90°														
	73.77	78.29	USED	4	m			0.6	4.0	/	/	/	/	m	m	/	w	Tr	Tr	/	/	w
					<u>LITH + MIN:</u>			The unit is greenish grey throughout. It appears aphanitic and massive throughout but rare 1-3mm subrounded translucent crystals are noted. The core has a mottled appearance due to chlorite throughout as fine fill, and 1-2mm blebs which often surround pyrite and/or chalcopyrite. Locally, 2-3cm patches are speckled as 1-2mm irregular angular translucent to clear specks surrounded by massive aphanitic greenish grey matrix. These may also be crystals.														
								Weak quartz veining and trace carbonate on both veining and fracture fill. No gypsum veins were noted.														
								0.6% Chalcopyrite occurs primarily as fine disseminations and 1-3mm rounded blebs which are commonly surrounded by														

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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 238

Logged By: Tom Foreman

Date: OCT 31 '95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	73.77	78.29	CONT'D																			
	<p>chlorite. Chalcopysite also occurs as fracture fill associated with pyrite and in quartz veins. 4% pyrite is throughout the unit and occurs in the same manner as chalcopysite as well as 1-3 mm irregular veins</p> <p>L.C.: sharp with fault @ 55°</p> <p>ALTERATION: Moderate Qtz-Ank-Ser +/- Kao alteration throughout.</p> <p>STRUCTURE: -76.57m → 2cm cemented gouge @ 70-80°</p>																					
	78.29	80.47	FAVL					0.45	4.0	/	Tr	/	/	/	/	Tr	/	Tr	/	/	/	W
	<p>LITH+MIN: 70% Cemented gouge and rubble surrounding 0.5-bcm subrounded fragments. The fragments are typically grey and often contain quartz blebs and/or veins and rarely carbonate veins. Chalcopysite and pyrite occur throughout the gouge and also in the fragments. Rose hematite occurs as 1-4mm blebs.</p> <p>L.C.: in bkn core</p> <p>STRUCTURE: Dominant trend of the gouge ranges from 40 to 60°</p>																					
	80.47	86.55	USED?	4	M			0.7	4.0	/	1.0	/	/	M	M	/	W	M	/	Tr	/	W
	<p>LITH+MIN: This is a confusing unit. It locally has the characteristics of both USED and PPHD. Generally it is brownish grey with patches of reddish brown and green. A majority of the unit is ophanitic while &lt;10% appears porphyritic. The sections that appear to be</p>																					

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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 238

Logged By: Ian Foreman

Date: Oct 31 '95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	80.47	86.55	CONT'D																			

volcanic sediments are brownish grey and aphanitic. with a  
hardness, however, crystals can be seen. They are typically  
1-2mm angular and translucent. These crystals occupy up to 5-10%  
of the rock. These sections also contain chlorite as 1-4mm blobs  
and as fracture fill. Trace 0.5-2cm subrounded dark grey  
fragments occur throughout.  
The sections that are possibly PPHM are typically  
pale green to greenish grey and are porphyritic with up to  
25-30% phenocrysts. The surrounding groundmass is aphanitic.  
These may be fingers of the intrusive or crystal  
rich sections of the volcanic sed. Other other hard the sections  
that appear to be USZDS may possibly be very altered  
sections of PPHM!  
Weak to moderate quartz stockwork as 2mm - 2.5cm  
dark grey to white moderately well mineralized quartz veins.  
Trace carbonate as veins and fracture fill. No gypsum veining.  
0.45-0.7% Chalcopyrite occurs throughout the vein as  
fine disseminations and 1-4mm irregular blobs as well as  
fracture fill and in quartz veins. 4% pyrite occurs in the same  
zones as Chalcopyrite.

Indistinct? - gradational?  
**ALTERATION**  
Moderate Qtz-Ank-Ser +/- Kao alteration is assumed  
to be throughout the unit.

**STRUCTURE**  
- 80.47-81.15m -> med bkn core & fine gouge - 50cm CORE LOSS  
- 84.83m -> gouge on Slip @ 30°

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 238

Logged By: *Joe Freeman*

Date: *OCT 31 '95*

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Oz	Py	Cb	A:	H:	Fr.
	86.55	114.25	PPHM	4	m	l	m	0.8	3.5	/	1.0	/	m	m	m	/	w	/	Tr	/	/	w
				<p><u>LITHOM:</u></p> <p>Medium green with a very well preserved porphyritic texture. 15-20% 1-4mm sub-embedded green to light brown to grey feldspar and 10-15% 1-3mm sub-embedded cream to buff lath shaped hornblende.</p> <p>Locally the unit is aphanitic with a massive appearance. Elsewhere the veins which feldspars are irregular and appear to fade into the ground mass. Base (41%) 0.5-20cm subrounded brownish grey fragments appear to be volcanic sediments.</p> <p>Weak quartz stockwork throughout as irregularly spaced 3mm-4mm poorly mineralized grey quartz veins. Trace carbonate as veins and fracture fill. No gypsum veining.</p> <p>The amount of chalcopyrite throughout this unit is deceptive. On closer inspection there is more than is apparent due to the amount of fine grained disseminated grains. The rest of the 0.6-0.9% chalcopyrite occurs as 1-4mm blebs, fracture fill and in quartz veins. Chalcopyrite also occurs on slip surfaces. 3.5% pyrite occurs in the same manner as CPY. Trace to 2% hematite occurs throughout as 1-8mm blebs, fracture fill and in quartz veins. Hematite also occurs as staining of the matrix.</p> <p><u>L.C:</u></p> <p>Sharp irregular contact with DPEH @ 55'</p> <p><u>ALTERATION:</u></p> <p>The unit is predominately moderately Qtz-Ank-Ser<sup>+</sup>-Kao altered as the feldspars are altered to sericite and the hornblende are altered to Ser-Ank<sup>+</sup>-Kao. Patches of this unit up to 1.5 meters are moderately potassic altered.</p> <p><u>STRUCTURE:</u></p> <p>- 11.06 - 91.16m → gauge on slip @ 40' followed by 30cm of wdy bit use</p>																		





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British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 238

Logged By: Jan Forsman

Date: Oct 31 '95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	138.75	208.00	LPTB		-	151.3m	-	152.20m	→	breccia with fragments.	0.2-1.5cm				subangular to subrounded							
					-	156.65	-	158.95m	→	Breccia with to brown (and rare light green + mal. posite?) fragments	0.2-2.8cm				subangular to subrounded							light grey
					-	163.08	-	163.11m	→	rubble + gouge												
					-	190.68	-		→	gouge in bkn core												
					-	191.52	-	191.56m	→	gouge + rubble												
					-	195.25	-		→	2mm gouge on slip @ 25°												
					-	196.24	-		→	2mm - 3cm gouge @ 40°												
					-	200.94	-	201.31m	→	Breccia in a porphyritic matrix					2mm-2cm rounded fragments							
	208.00	216.41	PPHM	4	m				25						m	m						w
	LITH + MIN: light grey green with a very well preserved porphyritic texture. 15-20% stream to light grey green 1-3mm sub-irregular feldspars and 15-15% buff sub-irregular lath shaped hornblende. The unit is very homogenous and is probably a dyke (PPHm2?). Moderate carbonate veining throughout and no Qtz and gypsum veins. 25% pyrite or P-gil disseminations as well as fracture fill and in carbonate veins																					
	L.C: E.O.H. ALTERATION: Moderate Qtz - Ank - Ser +/- Koa alteration throughout with sercite envelopes (up to 2cm wide) around fractures.																					
	STRUCTURE: 209.60m → 2mm gouge on slip @ 65° 212.70 - 213.51m → Fract. zone w cemented gouge and rubble in bkn core @ 40°																					

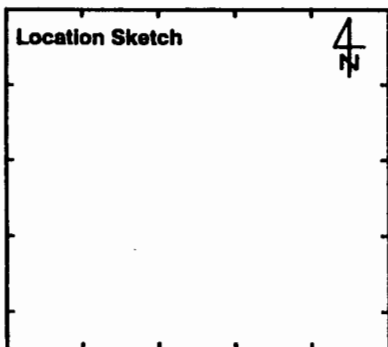
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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 239

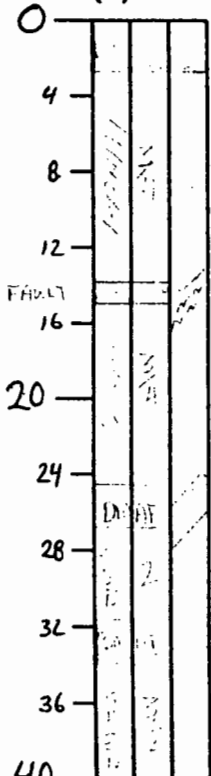


Grid Northing (m):	99 800
Grid Easting (m):	50.050
Elevation (m):	
Total Length (m):	63.09
Casing Depth (m):	3.05
Reduction Depth:	<i>[Signature]</i>
Collar Core Size:	HQ

Date Started:	Oct. 28/95
Date Completed:	Oct. 29/95
Logged By:	B. Thurston
Date Logged:	Oct. 29/95
Data Entry:	
Entry Date:	
Casing (#/Out):	Out

Survey	Depth	Azimuth	Dip

Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
P	0.00	3.05	CASN																				
P	3.05	14.00	PPHM	3	m	4	w	.36	4.5	0	0	0	0	M-S	W	0	T	rw	T	0	0	M	
P	14.00	15.00	FAUL					.65	4	0	0	0	0	M	M	0	0	0	0	0	0	rw	
P	15.00	24.50	PPHM	3	m	4	w	.36	4.5	0	0	0	0	M	W	0	0	W	T	0	0	vw	
P	24.50	26.72	DMAF					0	T	0	0	vw	0	M	M	0	0	T	W	0	0	M	
P	26.72	31.85	SHZN	2	w			.30	4	0	0	0	0	M	M	T	0	T	T	0	0	W	
P	31.85	33.80	DMAF					0	T	0	0	vw	0	M	M	0	0	T	W	0	0	M	
P	33.80	47.25	SHZN	3	w	2	w	.36	5	0	0	0	0	M	M	0	0	W	T	0	0	S	
P	47.25	63.09	PPHM	3	m			.45	3.5	0	T	0	0	M	W	T	TW	W	rw	0	0	T	
			Lithology: PPHM is the only rock type intersected in this hole other than mafic dykes. It is consistently a light grey-green colour. Mod. porphyritic texture is preserved w/ ragged butt colour ~ from mafic phenos (altho); and subhedral, partially sericitized, occasionally zoned 1-2mm plg phenos (crowded porphyry). Fairly typical PPHM. Qtz veining is inconsistent throughout hole however it is more prominent in the less sheared/more competent units.																				
			Alti: Entire unit (3.05-63.09) is strong to moderately sericitized + py. The sheared sections are also strongly clay altered. Ser. bebs 1-3mm give core a mottled appearance and ser + py occurs and envelopes on fly veins/fractures. Hornblite is d.ss. down section <1%. Tourmaline is																				

DRILL HOLE NO. 95 - 239



RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

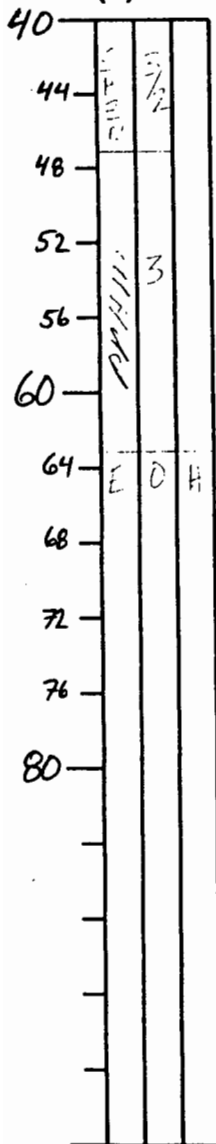
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 239

Logged By: B. Thurston

Date: Oct. 29/95

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
				Alt'n:																			
				Minz:																			
				Structure:																			

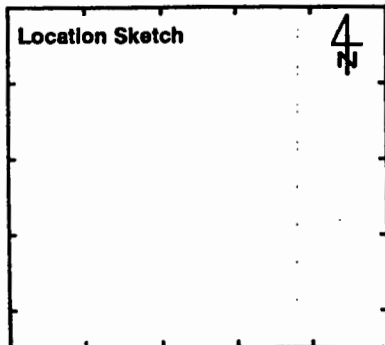
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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 240

AMERICAN BULLION MINERALS LTD.

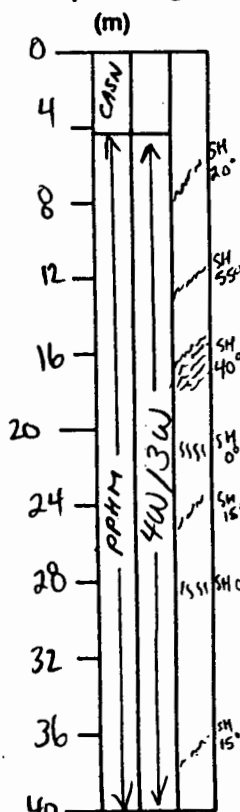


Grid Northing (m):	99850 N
Grid Easting (m):	50100 E
Elevation (m):	
Total Length (m):	406.91m
Casing Depth (m):	4.27 m
Reduction Depth:	NQ @ 337.72 m
Collar Core Size:	HQ

Date Started:	Oct 29/95
Date Completed:	Nov 2/95.
Logged By:	T. Fraser
Date Logged:	Oct 30/95
Data Entry:	
Entry Date:	
Casing (In/Out):	Out

Survey	Depth	Azimuth	Dip
SS	152.4	184.0°	-61°
SS	309.1	18.5°	-61°
			↑ magnetite in potassic altered zone.

Graphic Log



P S	Interval (m)		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	*Sph	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
	0	4.27	CASN																					
	4.27	71.85	PPHM	4	W	S	W	0.5	3.5	0	1.0	TR	?	0	W	VW	0	TR	W	VW	0	0	M	
	<p>Lithology - Pale grey to locally buff-coloured Main Phase plagioclase hornblende porphyry. The unit resembles Waste Phase, but on closer inspection trace quartz veins and disseminated mineralization indicate more Main Phase affinity. The unit is moderately porphyritic with plagioclase and hornblende phenocrysts. Plagioclase phenocrysts comprise 25-35%, 1-2 mm pale green to white grains. Hornblende phenocrysts are pale beige to cream coloured and appear shaggy. Hornblendes comprise 5-10%, 1-4 mm sized subhedral phenocrysts. The groundmass is pale grey, aphanitic.</p> <p>Alteration/Mineralization - The plagioclase phenocrysts are weakly sericite altered to locally very weak to weakly argillic altered (kaolinite). Hornblende phenos are altered to probable carbonate-sericite (biotite?). The unit is cut by weak to very weak pyrite veins and very weak white carbonate veins. Trace grey quartz veins cut the lithology and contain disseminated chalcopyrite and pyrite. Trace disseminated fine grained chalcopyrite. There are rare quartz-carbonate-pyrite veins. Locally red hematite is disseminated (upto 2%), and the unit is very weakly hematite stained at the beginning of the hole. Trace carbonate-sphalerite-pyrite veins.</p>																							

RED - CHRIS PROJECT

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British Columbia, Canada

GEOLOGIC DRILL LOG

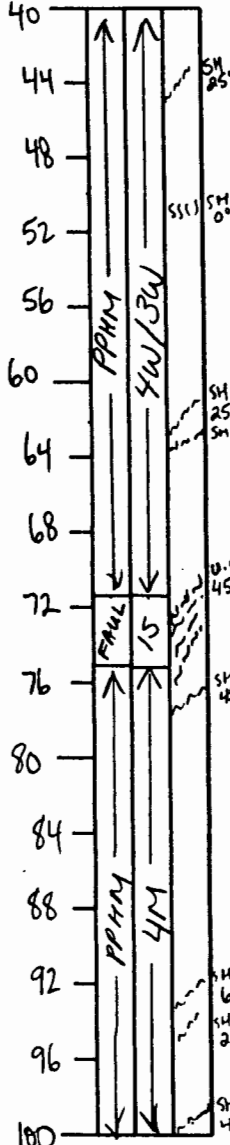
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 240

Logged By: T. Fraser

Date: Oct 30/95

Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining								
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	*Sph	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.			
				Structure -				6.00m Shear 0° to core axis.																		
								6.60 - 7.07m gouge/shear 5-15° to c.A.																		
								7.55 - 7.90m Shear/gouge @ 20°.																		
								11.90 - 12.00m gouge																		
								12.29 - 12.38m Shear/gouge 55°.																		
								15.50 - 15.61m Shear/gouge																		
								16.10 - 17.27m Healed gouge with shears @ 40°.																		
								20.00m gouge seam 0° to c.A.																		
								20.72 - 22.25m broken with shears 0° to c.A.																		
								24.69 - 25.05m Shear/gouge @ 15°.																		
								28.65 - 28.85m Shear 0° to c.A.																		
								37.10m gouge seam @ 15-20°																		
								42.73 - 43.05m Shear/gouge @ 25°																		
								44.17 - 44.33m sheared @ 25°																		
								51.30 - 51.50m Shear 0° to c.A.																		
								62.55 - 62.75m Healed gouge @ 25°																		
								62.88 - 62.98m Healed gouge @ 45°																		
								70.45 - 70.48m Shear @ 25°																		
								@ 71.85m upper contact fault @ 45°.																		
	71.85	74.85	FAUL	1	S	-	-	0.6	6	0	0	TR	S	0	W	0	0	WS	W	TR	0	0	W			
				Lithology - The original host rock has been strongly altered and it is difficult to identify the lithology. However, several small streaks appear to be plagioclase physis and are plausibly main phase material which is above and below the shear/fault. The unit is dark brown to black and contains silicified fragments of host rock 1-3cm in diameter. The fault is healed and contains minor to trace gouge. Shears throughout the unit are approximately 10-30°. Both upper and lower contacts are distinct and sharp.																						

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

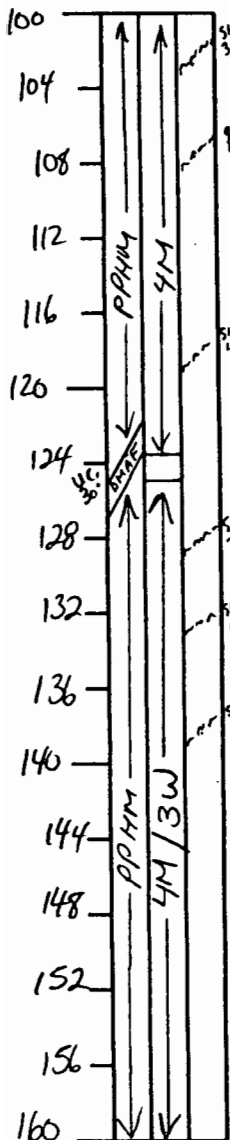
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 240

Logged By: T. Fraser

Date: Oct 30/95

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
				Alteration/Mineralization - The unit is strongly biotite altered. Biotite alteration appears to follow shears and is disseminated - dark brown to black in colour. There are weak quartz veins and silicified fragments. Pyrite is finely disseminated throughout, along with occasionally blobby chalcopyrite. Trace chalcopyrite-pyrite veinlets. Trace carbonate Hbs. Trace disseminated 1mm sphalerite grains.																			
				Structure - @ 74.85m Luxr contact FAUL @ 10° to core axis.																			
	74.85	123.45	PPHM	4	M	-	-	1.2	4	0	1.0	0	0	M	W	0	Ws	W	VW	0	0	W	
				Lithology - same as interval 4.27-71.85m																			
				Alteration/Mineralization - The unit is very well mineralized, containing finely disseminated chalcopyrite throughout. Quartz veins are occasionally sharp to somewhat obscured and contain disseminated chalcopyrite and pyrite. Trace to very weak quartz-carbonate-chalcopyrite-pyrite veins. Locally, the unit may have a silicified groundmass. Plagioclase phenocrysts are weakly to moderately sericitized and locally weakly kaolinite altered. Very weak to locally moderate intensity white carbonate veins. Locally, fine grained red hematite is disseminated (up to 5%), but probably averages < 1.0%. Pyrite is disseminated and is weak to locally moderate veins. Trace chalcopyrite-pyrite veins.																			
				Structure - 76.95m Shear @ 45°. 92.67m gouge ram @ 60° 93.90-94.13m Shear @ 25° 94.72-95.62m Sheared 0-40° 98.96-99.01m Slip/gouge @ 40° 102.32-102.47m Shear @ 30° 107.63-107.66m healed gouge @ 45°																			

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

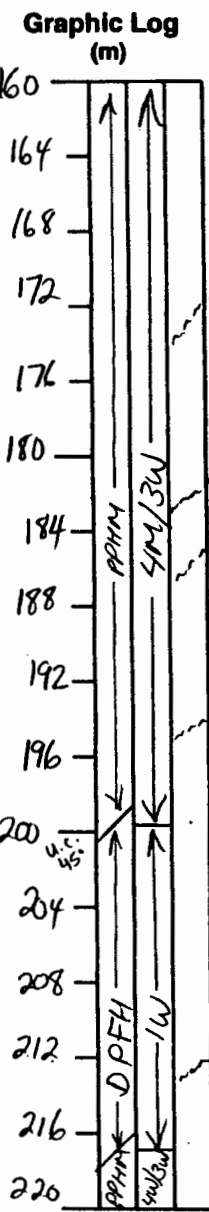
GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 240

Logged By: T. Fraser  
Date: Oct 30/95

Graphic Log (m)	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
160																						
164																						
168																						
172																						
176																						
180																						
184																						
188																						
192																						
196																						
200																						
204																						
208																						
212																						
216																						
220																						



112.02 - 112.12 m gouge  
113.53 m gouge  
118.06 m shear @ 45°

@ 123.45 m upper contact DMAF @ 30° to CA.

123.45 124.90 DMAF - - - - 0 0.5 0 0 0 0 W 0 0 TR TR W 0 0 VW

Lithology - pale Buff/tan to pale grey pyroxene-biotite phytic mafic dike. Biotite phenocrysts are medium brown to tan colored and appear shaggy textured. Biotite phenos range from 1-4mm in length and comprise 10-15%. Pyroxene phenocrysts are euhedral, comprise 5-10%. Generally pyroxene phenocrysts are pale apple green and range from 1-3mm. The groundmass is aphanitic to a somewhat sugary texture locally and is tan to grey in colour.

Alteration/Mineralization - pyroxene phenocrysts are weakly to moderately sericite altered. The dike is cut by carbonate and carbonate-quartz veins. The Qtz-carbonate veins are late unmineralized and open-space filling. Trace pyrite veinlets.

structure - @ 124.90m lower contact DMAF is irregular.

124.90 199.75 PPHM 4 M 3 W 0.75 3.5 0 2 0 0 W M 0 VW\*W W VW 0 0 W

Lithology - Grey to buff-greenish and locally brown-colored main phase plagioclase hornblende porphyry. The unit is highly porphyritic containing approximately 30% subhedral 1-3 mm sized plagioclase phenocrysts. Plagioclase grains vary in colour from pale blue-green to white/gray. Hornblende phenos comprise 10-15% 1-2 mm subhedral grains beige in colour. Occasionally mafic phenos are up to 4-5 mm in length. The groundmass is grey/brown in colour and is plagioclase-rich.

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GEOLOGIC DRILL LOG

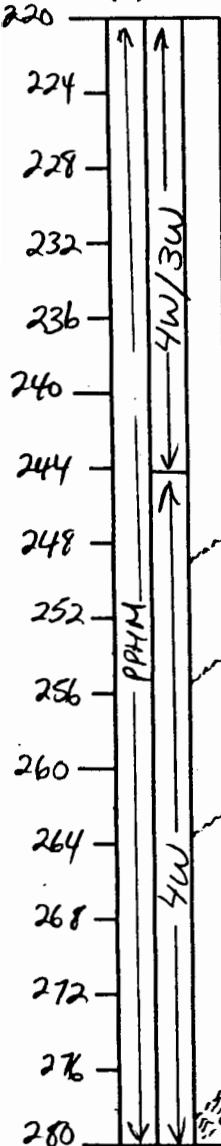
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 240

Logged By: T. Fraser

Date: Oct 31/95

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
				Alteration/Mineralization - Plagioclase phenocrysts are weakly sericitized and locally are moderately to strongly clay altered (dominantly Kaolinite). Locally red hematite is disseminated up to 5-10% but probably averages 1-2% in small sections. Short intervals are weakly hematite stained. Hornblende phenos are sericite-pyrite-carbonate altered. Pyrite is finely disseminated and present as weak to moderate veinlets. Trace quartz-carbonate-chalcopyrite-pyrite veins and weak quartz-chalcopyrite-pyrite veins. Locally chalcopyrite is finely disseminated. Very weak to trace white carbonate veins. Trace chalcopyrite veinlets.																			
				Structure - 128.65m shear @ 35° 132.95-133.35m Shear @ 60° 139.53m Shear @ 32° 173.80m Shear/gouge @ 45° 181.97-182.19m Shear @ 75° 185.80m gouge @ 40° 185.98-186.04m gouge 75° 187.70m gouge 65° 194.52m shear @ 70°																			
				@ 199.75m upper contact of DPFH @ 45° to C.A.																			
	199.75	216.70	DPFH	1	W	-	-	50.3	1	0	0	0	W	VW	0	0	0	TR	W	0	0	VW	
				Lithology - The plagioclase Hornblende porphyry dike varies in colour from buff to pale orange to dark brick red/brown. The lithology is highly porphyritic, containing prominent mafic phenocrysts. Hornblende phenos vary in colour from light tan to pale green to dark green. Hornblendes comprised 15-20% euhedral phenos from <1mm - 1cm in length. Plagioclase phenos are indistinct and																			



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GEOLOGIC DRILL LOG

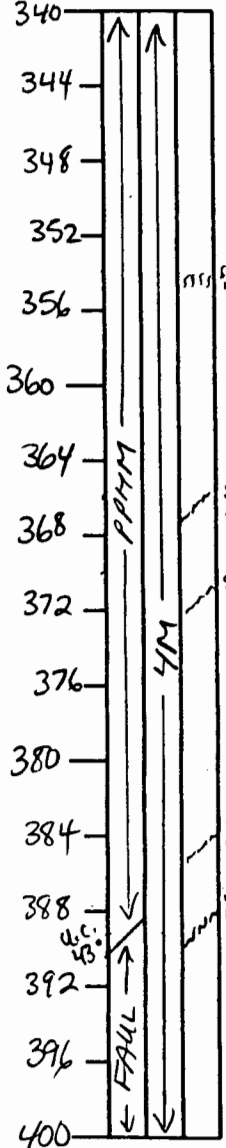
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 240

Logged By: T. Fraser

Date: Nov 1/95

Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
				Alteration/Mineralization - Hornblende phenocrysts are carbonate-sericite-pyrite altered. Plagioclase phenos are moderately sericitized to weakly kaolinitized. Locally quartz vein intensity increases to weak. Quartz stockwork contains disseminated chalcopyrite-pyrite. Trace chalcopyrite and CPY-Hematite-quartz blebs. Locally up to 5-10% blebby red hematite. Trace chalcopyrite veins. Trace quartz-carbonate-CPY-PY veins. Weak pyrite veins and disseminated mineralization.																			
				Structure - 244.20-244.70 m carbonate breccia 248.20-248.26 m shear @ 35° 254.93-255.00 m shear @ 50° 257.88-257.91 m gouge 262.95-263.22 m shear/healed gouge @ 45° 263.87-264.00 m 278.25-279.50 m shear @ 20-25° 279.50 m shear 0° to CA. 282.65-282.75 m shear @ 10° 286.70-287.78 m shear 0° to CA. @ 289.00 potassic alteration begins (gradational contact)																			
	289.00	305.90	PPHM	1	M	-	-	0.5	6	0	TR	0	M	rw	0	0	vw	w	M	TR	0	0	W
				Lithology - Dark brick red plagioclase hornblende porphyry. The plagioclase phenocrysts are subhedral and have a blurred look to them. Phenocrysts average 1-2 mm in length and are orange hematite stained. Plagioclase phenocrysts comprise approximately 30%. Mafic phenocrysts are abundant and likely represent < 5% by volume. The lithology has a granular appearance. The groundmass is orange-brown in colour.																			
				Alteration/Mineralization - The unit has a moderately Kspar altered groundmass. Plagioclase phenos are very weakly sericite altered																			



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GEOLOGIC DRILL LOG

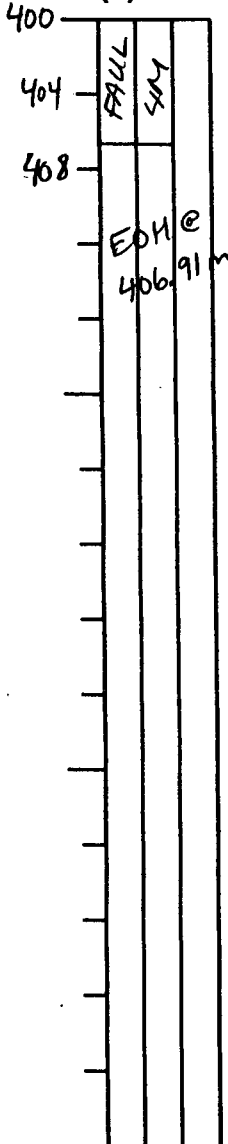
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 240

Logged By: J. Frazer

Date: Nov 1/95

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
				but one orange hematite stained. Pyrite is finely disseminated and present as weak to moderate veins. Chalcopyrite is finely disseminated. Quartz veins contain finely disseminated chalcopyrite - pyrite. Quartz vein intensity increases downward. Trace carbonate veins.																			
				Structure - 305.90-306.10m Shear/minor gouge @ 25° @ 305.90m - gradational lower contact - as alteration changes.																			
	305.90	388.92	PPHM	4	M	-	-	1.2	5	0	TR	0	0	M	W	0	MS	M	TR	0	TR	W	
				Lithology - Grey-green Plagioclase hornblende porphyry = Main Phase. Plagioclase phenocrysts comprise 20-30% subhedral 1-3mm. Plag phenos are apple green to opaque white. Hornblende phenos are bright brown and are subhedral - 1-2mm. Matrix comprise 5-8%. The unit is moderately porphyritic but primary texture is somewhat obscured locally. The groundmass is beige/grey and appears granular in texture.																			
				Alteration/Mineralization - Plagioclase phenocrysts are moderately sericitized and hornblendes are sericite-carbonate altered. Trace to 1-2% red hematite is disseminated locally. Locally the unit is opaque white and is dominated by moderately clay altered plagioclase. Quartz veins are grey and vary from 2mm - 1cm in width. Vein boundaries are distinct. Quartz veins carry disseminated chalcopyrite and pyrite. Chalcopyrite is finely disseminated. Locally hematite stained. Pyrite is also disseminated and occurs as moderate veinlets. Trace hematite veins and carbonate veins.																			
				Structure - 325.60m gouge 15° 335.60m sheared 337.70-337.90m Shear/gouge																			

# RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

# GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 240

Logged By: I. Fraser

Date: Nov 2/95

## Graphic Log (m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining																								
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.																			
								339.13-339.50 m																																	
								346.85-347.02 m																																	
								354.45-354.65 m																																	
								354.79-355.05 m																																	
								366.43-366.65 m																																	
								371.67-371.73 m																																	
								385.13-385.33 m																																	
								386.27-386.78 m																																	
								388.92-406.91	FAUL	4	M	-	-	0.3	4	0	0	0	0	M	vw	0	TR	W	TR	0	0	M													
								<p>Lithology - Medium grey-coloured Main phase which is sheared and contains minor gouge. PPHM is fairly typical with approximately 30% subhedral fresh plagioclase / phenocrysts → 1-2mm in length. Plagioclase phenocrysts are blurred and indistinct. Mafic phenocrysts are rare but &lt; 2mm. Shears throughout vary from 20-45°.</p> <p>Alteration/Mineralization - Pyrite is disseminated throughout as well as occurring as weak veins. Trace quartz-cyanite ± Chalcopite veins. Trace white carbonate veins. Plagioclase phenocrysts are moderately sericitized. The unit contains very weak clay alteration with gouge.</p> <p>Structure - none... but upper contact is sharp @ 388.92 m @ 43°</p>																																	
								EOHC 406.91 m																																	

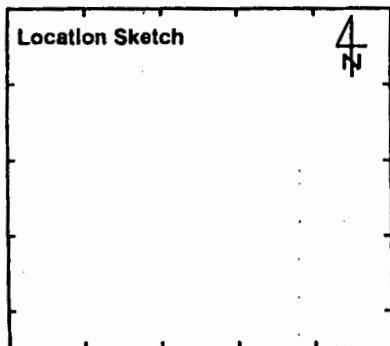
RED - CHRIS PROJECT

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British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 241

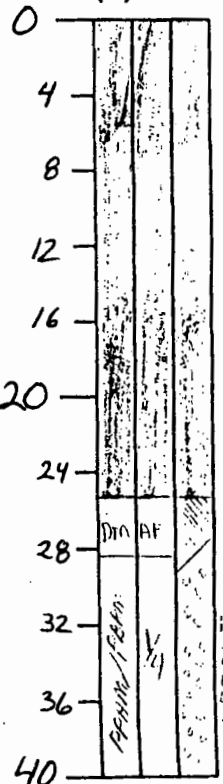


Grid Northing (m):	99 150
Grid Easting (m):	48 850
Elevation (m):	
Total Length (m):	404.47 m
Casing Depth (m):	(25.30) (
Reduction Depth:	<del>                    </del>
Collar Core Size:	NG

Date Started:	Oct. 31/95
Date Completed:	Nov. 4/95
Logged By:	B. Thurston
Date Logged:	Nov. 1/95
Data Entry:	
Entry Date:	
Casing (In/Out):	IN; Lost 160'

Survey	Depth	Azimuth	Dip
1	154.53	79°	-61°
2	306.93	82.5°	-60.5°
3	404.47	63.5	-61
		↑ ↗ Hard to read.	

Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining								
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	MAG	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.			
P	0.00	25.30	CASN																							
P	25.30	28.20	DMAF					o	T	o	?	W		m	M	o	o	o	T	o	o	o	S			
				Typical DMAF: Pale green to purple to upto 5mm Biotite phen's, hbl'd. phen's, plag. phen's. Carb. fracture filling. * L.C. Blocky ?																						
P	28.20	98.50	PPHM	1	m	4	w	.30	2	o	T	T	o	w	m	w	o	T	o	o	o	o	I			
				Lithology: Extremely blocky, only rubble left but up section fragments are observed in the PPHM :: is it PPHM or PBRM. This core may be blocky & have poor recovery because (1) Gyp/Anhydrite fractures/veins were dissolved (2) poss. brecciation of rocks has something to do w it but unlikely because w usually have good solid recovery in breccia. (3) Something other than Gyp. eg. Carb? has filled fractures & been dissolved as noted by pieces of rock that aren't totally rounded. - Core is pinkish orange to light green, porphyritic w plag & occasionally mafic phen's. Core is same as the solid unit that will be described next.																						
				Alt'n: Potassic → diss He ± Mag on Fractures & ss veinlets; K-sp. pervasive Strong sericite alt'n of phen's & matrix. Calcite Trace to Not observed.																						
				Minz: Py diss. Cpy diss. especially on shear structures. & down section.																						

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Llard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

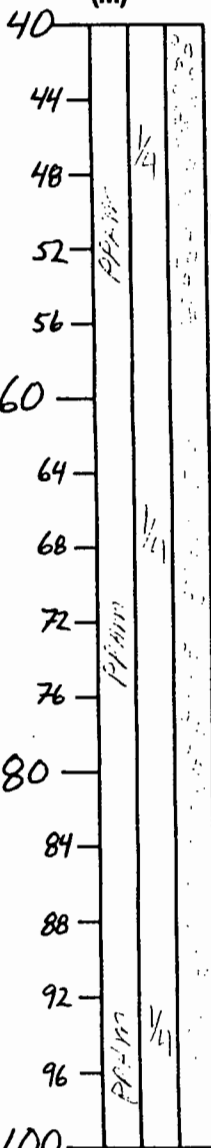
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 241

Logged By: B. Thurston

Date: Nov. 2/95

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining								
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	MAC	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.			
				Structure: * only Rubble, rounded fragments of rock. * 120m in 2 boxes. * possible gauge in places but impossible to tell.																						
S	98.50	119.50	PPHM	1	m	4	w	.75	3.5	0	T	0	0	S	SA	w	0	w-m	vW	0	M	0	w-m			
P	119.50	120.60	DQCA					0	T							m	m			vW			vW			
				Lithology: This area is mainly porphyritic w/ strongly sericitized ph. phos. + Ksp. is strong pervasive and in areas this alteration has wiped out the porphyritic texture giving the section the appearance of the volcanic unit, but there is no banding & the fine grain nature is patchy & in splotches. - Core is light → med. green mixed w/ pale orange → pink sections. - white & pink Gypsum veins are observed cutting the core & each other. Qtz Stk-wrk is also cut by the Gypsum veins. Qtz is in veins 2m → >2cm. - small patches usually 2 → 5cm seem brecciated (headed shearing) w/ volcanic sed. as matrix? possibly potassic alt'n. Alt'n: K-spar strong pervasive, trace He, possible mag? trace. Sericite is strong both in matrix & phos. Calcite is not observed. Minz: Py occurs mainly diss & in Qtz vein cores & fractures, and less as vein. Epy is diss 80% & is often in Qtz veins. Epy is assoc. often w/ py but is most often observed by itself. Structure: * Solid core. * fractures on gypsum veins. * No significant structure. * u.c. of DQCA @ 40°; L.C. @ 40°. Typical DQCA w/ ~1% carb. Amygd duals light buff to green color w/ gray envelopes on each fractures.																						

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British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 241

Logged By: B. Thurston  
Date: Nov. 2/95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining									
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.				
P	120.60	163.00	PPHM	1	M	4	W	2	4	0	T	0	0	5	5	W	T	SI	0	T	0	0	M-W			
				Lithology:				PPHM - Perphyritic sericitized plag phen's in a strongly potassic matrix. Mainly a medium green-grey colour w/ orange patches. Up section there is Vol. sold looking rock for ~ 1m w/ fragments? alt'n?																		
				Min:				Strong Cpy diss in matrix & in Qtz veins. In the Qtz veins Cpy is on micro fractures throughout not just the core. Qtz veins are generally 72cm up to 60cm long w/ Qtz. Py is in Qtz veins & diss in matrix & equal. Trace only observed diss in matrix. He diss trace in matrix. Tourmaline diss. very trace as rosetts.																		
				Alt'n:				Strong, K-spar pervasive, strong sericitization & clay alt'n b/w large Qtz veins. Trace to very weak calcite in strong potassic areas.																		
				Structure:				* Core is broken up due to intense Qtz veining. * 139 → 139.7m is $25^{\circ}$ → $32^{\circ}$ Fault * Small $30^{\circ}$ → $35^{\circ}$ < 1cm gauge filled fractures. * L.C. w/ PPHM-2 @ $40^{\circ}$ over 35cm SH gauge. * 155 → 156m is PPHM-2 w/ U.C. & L.C. @ $45^{\circ}$ sheared in gauge No Qtz in that zone																		
P	163.00	167.40	PPHM-2	1	M	4	M	4.3	1.5	0	0	0	0	M	S	W	0	0	0	T	T	0	M-W			
				Lithology:				Perphyritic (Plag + mafic phen's) rock. Not an excellent example of PPHM-2. The mafic phen's are strongly alt'd (clay = Carb) buff colored & are almost gone, unlike the fresher looking PPHM-2 where the mafics are prominent. Is this PPHM w/ no Qtz veining? Strong sheared contacts lead to the PPHM-2 theory. Good sericitized plag phen's. K-sp pervasive. Rock alternates b/w pale orange & pale green colour. Py is only diss & not patchy. No or little diss. Cpy. Carb on fractures. Possible Cyp. on fractures.																		
				Structure:				* U.C. $40^{\circ}$ 35cm sh / L.C. Questionable 3cm Breccia @ $45^{\circ}$ .																		

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Liard Mining Division  
British Columbia, Canada

# GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 241

Logged By: B. Thurston

Date: Nov. 2/95

## Graphic Log (m)

P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining								
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	MAG	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.			
				Structure:				* only difference to rock type after contact? is Qtz veining & blurred / less pronounced plag phen's that blend into groundmass.																		
P	167.40	179.40	PPHM?	1	m	4	m	.45	1.3	0	T	0	0	M	S	W	T	T-w	T	T	W	0	W			
				Lithology:				This unit is similar to unit 98.50 → 119.50m but also has characteristics of above unit. Qtz in this unit is trace as veins and in mod. areas Qtz is more as flooding & looks sheared? into irregular form. Cpy still increases as Qtz increases but Cpy is low in this unit. Mainly light green colour to core w grey selvages on py veins & fractures. Gypsum veins locally Moderate (white).																		
				Alt'n:				Same as all previous units. Slightly more clay altered as we become closer to SHZN.																		
				Minz:				Cpy still dominantly diss. by same. and along fractures.																		
				Structure:				* Small breccia zones. * L.C. w SHZN 1m 5° SH to a 28° SA																		
P	179.40	186.80	SHZN	1	m	4	m	.60	1.7	0	T	0	0	M	S	S	0	M-m	0	T	0	0	S			
				Lithology:				Same material as described above w strong clay alt'n & shing.																		
				Structure:				Strong shing b/w 35° & 50° mainly 50° but no really strong shears. L.C. 50° clam weak Qtz becoming more veins than Qtz flooding or irregular Qtz blebs.																		
				Minz:				Cpy still strongest where Qtz is strongest.																		
P	186.80	196.05	PPHM-2	1	m	4	m	.40	1	0	T	0	0	M	S	W	T	T-w	0	W	0	0	W-w			
				Lithology:				Same PPHM-2 unit as 163 → 167m. Mainly Pink/Orange to Pale green w pronounced or prominent plag. (sericitized) phen's. Mafic phen's are quite alt'd. Diss. Hematite (0.5mm diss) locally may be 0.5%. This looks more like PPHM-2 but is still strongly altered.																		
				Alt'n:				Strong Sericitization & K-sp. pervasive. Weak clay alt'n. Still no calcite. Carb. as veins > fracture filling.																		

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GEOLOGIC DRILL LOG

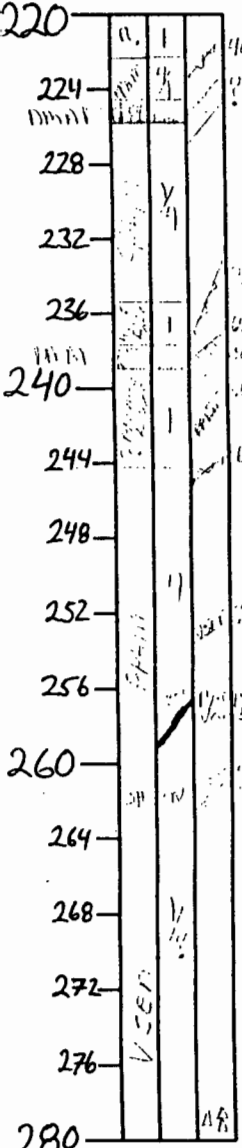
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 241

Logged By: B. Thurston

Date: Nov. 3/95

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	MAG	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
				Minz:																			
				Structure:																			
P	196.05	214.90	PPHM	1	m	4	w	.90	2.5	0	T	T	vW	m	m	m	T	m	0	w	0	0	w
				Lithology:																			
				Alt'n:																			
				Minz:																			
				Structure:																			

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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 241

Logged By: B. Thurston

Date: Nov. 3/95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining							
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	WAG	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.		
P	214.90	222.25	DYKE?	1	S	4	T	<.30	1.5	0	<.5	0	0	S	M	W	0	0	0	vW	0	0	W		
				Lithology:								Very orange colour to core. No Qtz Stk-Wk. Carb. only as fracture filling but calcite is weak pervasive. Remnant porphyritic texture observed by preserved sericitized plagioclase phen's for blebs and altered (chloritized, Ark=clay) mafics, pale buff col. Relatively homogeneous core. Py on fractures are highlighted by diss. pyrite envelopes.													
				Structure:								* solid core. * L.C. is partially assimilated but fairly sharp @ 40°.													
P	222.25	224.60	PPHM	1	M	4	W	1.20	3.5	0	T	W	W	M	M	W	0	M-S	T	T	0	0	vW		
P	224.60	225.50	DMAF	1	S			0	T	0	stain	S	M	M	M	W	0	0	0	T	0	0	T		
P	225.50	235.50	PPHM	1	M	4	W	0.90	2.5	0	T	W	W	M	M	W	T	M	T	T	0	0	W		
				Lithology:								This is the same unit as described before the dyke? @ 214 → 222m. Some sections are very orange in colour & overall the phenocryst size has increased to ~ 1mm.													
				Structure:								* DYKE → DMAF * cuts this unit but both u.c. & L.C. are asym close to 90° * L.C. @ sharp 0.5cm Black Shear @ 20° Typical DMAF w/ large phen's up to 1cm of Bio, Plag, all'd. Mag? w/ strong pervasive magnetite & Hem staining.													
P	235.50	237.80	DYKE?	1	M	4	W	<.30	1.5	0	0	0	0	M	M	M	0	0	T	T	0	0	vW		
				Lithology:								Same description as 214 → 222 DYKE? Orange colour tapers off 1/2 way through dyke to a pale green. Sulphide (Py) patches near end of dyke.													
				Structure:								* u.c. @ 20°, L.C. w/ DMAF @ 65° * Strong 20° 0.5cm Black SH.													
P	237.80	238.80	DMAF	-	-	-	-	0	T	0	0	0	?	0	S	S	0	0	0	W	0	0	W		
				Lithology:								Originally this dyke was thought a DQCA because of its pale buff colour, fine grain nature, & apparent carb amygduals. The amygduals													

280  
284  
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292  
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320  
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328  
332  
336  
340

USED  
PPHM-2  
PPHM-2



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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 241

Logged By: B. Thurston

Date: Nov. 3/95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	MAG	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
				Dyke could be actually clay carb alt'd phen's. Remnant Bsp clusters the same as DMAF up section are observed. Plag + mafic phen's are strongly altered & ratty.																			
				Structure: * L.C. @ 50°.																			
P	238.80	240.25	DYKE?	1	m	4	w	4.30	1.5	0	0	0	0	m	m	m	0	0	T	T	0	0	vw
				Same as above DMAF.																			
				Structure: * L.C. w PPHM @ 18° SH.																			
P	240.25	240.90	PPHM	1	w	4	w	1.2	5	0	0	0	0	w	m	w	0	m	0	w	0	0	w
				Lithology: described same as unit at the end of this DYKE? @ 242.10 → 262m * L.C. @ 53° to 60° SH																			
P	240.90	242.10	DYKE?	1	m	4	w	4.30	1.5	0	0	0	0	m	m	m	0	0	T	T	0	0	vw
				Same as Above DMAF.																			
P	242.10	260.90	PPHM	4	m			1.2	3.5	0	T	mult	0	T	S	m	T	m	vw	T	0	0	m
				Lithology: Once again, same unit from 196 → 214m, except for the alteration. PPHM w inter-mixed sections of VSEDS.																			
				Alt'n: Strong sericitization of phen's i main x. Py diss. Lack of Potassic alt'n																			
				* Once again as in last PPHM unit the phen's (plag + mafic) are larger (1 → 2mm) than unit 196 → 214m.																			
				Minz: Cpy diss 80% in matrix, grey sulphide patches i in & around Qts veins.																			
				* 70cm Massive Sulphide Vein @ 258.3m w u.c. 35° SH < 1cm and (~65% Py & 25% Cpy & 10% Qtz ± Carb.) L.C. 30° 5cm SH + gneiss.																			
				Structure: * VSED ~ 1.5m but asym. contacts ; ?																			
				* u.c. w VSED from 260.90 → 262m, Strong SH'ing or Faulting @ 40° to 45°																			
				* 60 → 80cm Dyke material? assimilated @ ~ 256m. Strong.																			
P	260.90	289.73	VSED	1	w	4	?	.80	2.7	0	T	To	0	w	S	m	T	vw	vw	w	0	0	w-m
				Lithology: Buff to orange (pale) to beige colour to core. Looks mottled on a large scale like possibly due to alteration. Very fine grain nature to patchy VSEDs. Small scale mottled appearance to core is due to Py + Ser																			



Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization					Alteration Mineralogy					Structure - Veining								
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Mag	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.			
				<p>Lithology: potassic, w K-spar as envelopes &amp; fracture-controlled &amp; pervasive. Very fine grain to aphanitic. Most core is orange-brown in colour. Py occurs as blebs 1-4mm</p> <p>Alt'n: more than diss. and fractures or veins. Qtz veins are usually only 1-3mm wide w Py + Carb. cores. Cpy is diss. in Qtz veins. ~1m breccia w fragments of angular Qtz (veins?) pieces. The alteration is potassic w trace He; K-spar; chl and biotite. Some areas up section &amp; down section are more strongly sericitized w only trace potassic. No Calcite. Carb. veining is mainly as fracture filling. Tantalite &amp; Moly are diss. &lt; 1%; moly is usually in Qtz veins. Cpy is mainly diss. &amp; assn w py.</p> <p>Structure: * PPHM-2 clay alt'd &amp; SH'd is assimilated/rattled @ contacts w PPHM-2 @ ~331m @ 350m @ 398.5-402m w PPHM-2</p> <p>* PPHM-2 Dyke cuts @ u.c. 25° sharp 1cm SH @ L.C. 45° assym</p> <p>This is a typical PPHM-2 similar to the beginning of PPHM-2 unit @ 291m. Alt'n is strong potassic w pervasive K-sp, diss. He + Mag. Trace Py, No Cpy.</p> <p>* 398.5-402.30m is a shear zone w u.c. a 20cm gauge w u.c. of gouge @ 38° sharp &amp; L.C. @ 15° sharp. Middle shearing @ 25° throughout. Multiple shearing + very strong clay alt'n. Trace Qtz veins assym w cpy. Strong Carb. Fracture filling ~ 4%.</p>																						
P.	402.30	404.47	PPHM-2?	1	S			0	1.5	0	7	0	0	S	M	W	0	0	0	T	0	W	w.m			
				<p>Lithology: Strong potassic alt'n w 5-10% Hematite gives core a dark red to orange colour. Mafics seen chloritized, clay is orange but not potassic. 1.5% diss. py. No cpy. Trace calcite in carb. fracture fillings. No Mag or Ta.</p> <p>Structure: KSHEN &amp; assym. u.c. w V.Sed. Solid &amp; competent core into dyke. * this is different than most PPHM-2?</p>																						

Fin

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British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 242

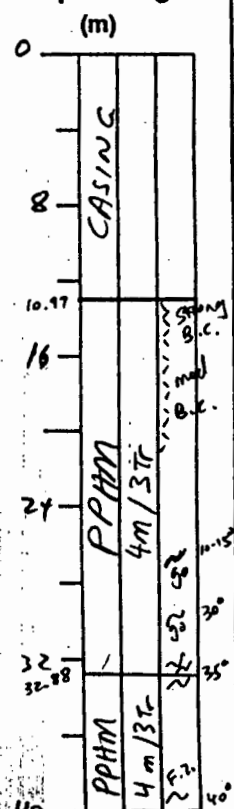
Location Sketch 4  
N

Grid Northing (m): 100 100  
 Grid Easting (m): 49 800  
 Elevation (m):  
 Total Length (m): 398.07m  
 Casing Depth (m):  
 Reduction Depth:  
 Collar Core Size: HQ

Date Started: NOV 03 '95  
 Date Completed: NOV 06 '95  
 Logged By: JAN FOREMAN  
 Date Logged: NOV 04 '95  
 Data Entry:  
 Entry Date:  
 Casing (In/Out): OUT

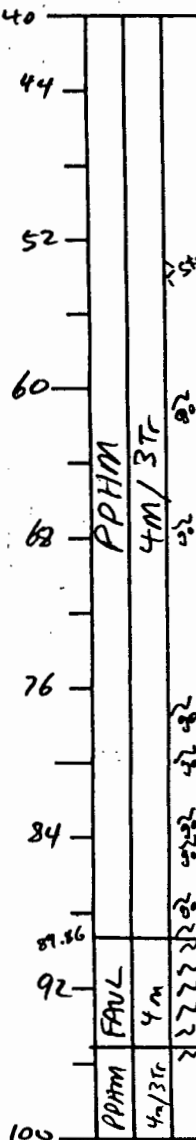
Survey	Depth	Azimuth	Dip
S.S.	154.53	178.5°	-63°
S.S.	303.89	181.5°	-64°
S.S.	396.24	180.0°	-64.5°

Graphic Log



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
	0.0	10.97	CASN																				
	10.97	32.88	PPHM	4	M	3	Tr	0.3	2.5	/	1.0	/	/	m	m	/	/	/	Tr	/	/	m	
				<p><u>LITH+MIN:</u></p> <p>The unit is grey to light brownish grey and does not have a well preserved porphyritic texture. A majority of the feldspars are difficult to differentiate from the ground mass. The feldspars are &lt;1-3mm, sub-ehedral and light brownish grey to grey to cream. It is assumed that there is 15-20% although only &lt;10 are visible. The hornblendes are buff to sandy brown, &lt;1-2mm, subtoehedral and make up 15% of the rock. Locally the unit has an ophanitic appearance due to alteration. No quartz veins were noted but there is trace carbonate as 1-8mm veins. The unit is weakly mineralized with 0.3% chalcopyrite occurring primarily as fracture fill and rarely as rigid disseminations. 2-3% Pyrite occurs throughout as rigid disseminations, 1-4 mm blebs as well as fracture fill. Trace to 2% hematite occurs as rigid disseminated 1-3mm blebs as well as fracture</p>																			

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	10.97	32.88	CONT'D																			

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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

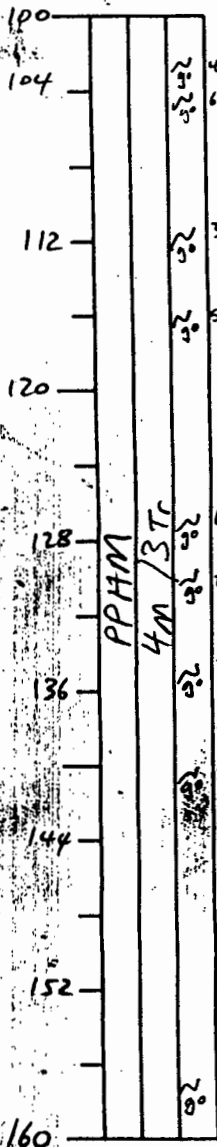
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 242

Logged By: JAN FOREMAN

Date: NOV 4/95

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	32.88	89.86	CONT'D		veins	NO	gypsum	veining	and	Weak	carbonate	as	veins	and	fracture							
					fill																	
					<p>0.3-0.6% chalcopyrite occurs throughout the unit. The amount of CPY is deceptive due to the majority occurring as rigid disseminations and irregular &lt;2mm blebs. The CPY commonly occurs with pyrite making it that much harder to spot. CPY also occurs in the quartz veins, as fracture fill and on slip surfaces. 3% pyrite occurs as rigid disseminations and 1-5mm blebs throughout the groundmass as well as in veins and as fracture fill. 1-2% hematite occurs throughout the unit in the same manner as pyrite. Rare carbonate veins contain blebs of sphalerite and molybdenite.</p>																	
					<p>Sharp with Fault Zone @ 30°</p>																	
					<p><u>ALTERATION:</u></p> <p>Moderate Qtz-Ank-Ser+Kao alteration throughout as the phylloids are altered to sascite+Kao (as in the groundmass) and the hornblendes are partially replaced by Ank-Ser and Kao. Locally the unit is mottled as a result of mottled Qtz-Ser-Ank-Kao alteration.</p> <p>Locally the core is very hard as a result of the unit being possibly silicified.</p>																	
					<p><u>STRUCTURE:</u></p> <ul style="list-style-type: none"> <li>- 39.89-40.40m → cemented gouge in Fault zone @ 40°</li> <li>- 54.97-55.16m → strongly broken core with gouge.</li> <li>- 61.15m → gouge on slip @ 20°</li> <li>- 67.47m → gouge on slip @ 40°</li> <li>- 76.97m → 1cm cemented gouge on slip @ 40°</li> <li>- 79.47m → 2cm cemented gouge and rubble @ 25°</li> <li>- 83.75m → gouge on slip @ 25°</li> </ul>																	

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Liard Mining Division  
British Columbia, Canada

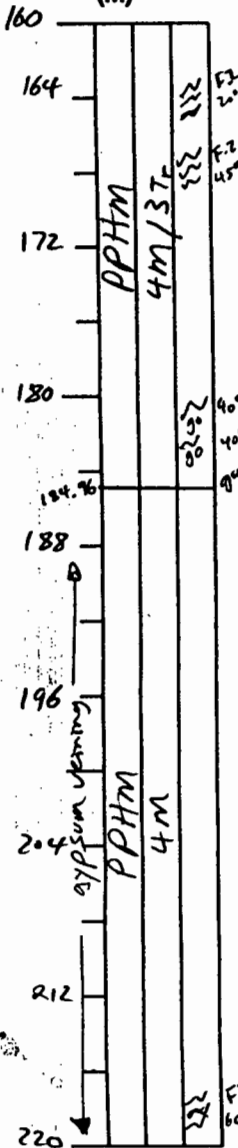
GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 242

Logged By: Jan Forsman  
Date: Nov 4 '95

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
	32.88	89.86	cont'd		- 84.82 m				1cm gouge on Slip @ 20°														
					- 84.92 m				thin core in gouge														
					- 85.05 - 85.69 m				mid thn 2.6cm org core in gouge														
					- 87.48 m				gouge on Slip @ 50°														
	89.86	95.17	FAUL	4	m			0.6	3.5	1.5			m	m		tr		tr			m		
					LITH+MIN+ALT: 5-20cm sections of cemented gouge and rubble surrounding blocks of dark grey to brownish grey PPHM which is described between 32.88 and 89.86m. 10-15% of the fault is made to strongly thin <1-3cm angular case in abundant gouge. L.C:																		
					Sharp @ end of fault zone @ 30° STRUCTURE: - trend through the fault zone is @ 30°																		
	95.17	184.96	PPHM	4	m	3	tr	0.8	3.5	1.5			m	m		w		w			w		
					LITH+MIN+ALT: This is the continuation of the dark grey to brownish grey main phase that is above the fault and is described between 32.88 and 89.86m. Quartz stockwork is locally moderate. The mineralization is the same except that locally over 5-15cm sections it is very strong. A majority of the chalcopyrite occurs as small disseminations which make grade estimation difficult. L.C:																		
					indistinct - muted by 1 <sup>st</sup> gypsum vein. Possibly @ STRUCTURE: - 105.12 - 103.27m → cemented gouge @ 45° - 105.44 m → 2mm gouge on Slip @ 60°																		

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Liard Mining Division  
British Columbia, Canada

## GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 242

Logged By: JAN FOREMAN

Date: Nov 4th 95

### Graphic Log (m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
220	95.17	184.96	cont'd		-106.18	-106.28m	→	gouge on parallel slip @ 30°														
224					-111.97	-112.08m	→	pyrite rich cemented gouge mat rubble @ 25°														
225.74					-116.92m		→	3mm gouge on slip @ 55°														
					-127.85m		→	gouge on slip @ 40°														
232					-131.35m		→	gouge on slip @ 25°														
233.67					-132.23m		→	3-8mm gouge on slip @ 35°														
					-135.73m		→	1cm gouge on slip @ 30°														
					-141.03m		→	gouge on slip @ 80°														
					-157.15m		→	gouge on slip @ 65°														
240					-164.90	-165.17m	→	Fault zone @ 20°														
					-169.77	-170.15m	→	Fault zone @ 45°														
					-182.68m		→	3-8mm gouge on slip @ 40°														
					-182.99m		→	2mm gouge on slip @ 40°														
249	184.96	220.98	PPHM	4	M			0.8	3.5	Tr			M	M	Tr	W		vw	M		W	
								LITH MIN: dark grey to brownish grey. The top of the unit is very similar to the above Main phase but it grades into a coarser grained unit. 15-20% cream to translucent brownish grey 1-4mm sub to euhedral Feldspar and 15% white to buff <1-3mm sub to euhedral, typically lath shaped, hornblenders. A majority of the feldspar do not have distinct edges and apparently fade into the ground mass. This unit is strongly cross-cut by fractures and veins. The weak quartz stockwork is made up of irregularly spaced grey and white moderate to poorly mineralized quartz veins. Moderate gypsum veining as 1mm-2cm straight and irregular white and orange gypsum veins. Trace to weak carbonate as fracture fill and veins.														





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British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 242

Logged By: Ian Foreman

Date: Nov 5 '95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization			Alteration Mineralogy					Structure - Veining									
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.			
	225.74	233.67	CONT'D		220.98 meters																				
					L.C:																				
					Sharp in Shear @ 35°																				
					ALTERATION:																				
					The alteration is similar to the brownish grey main phase above the dyke except that this portion of the unit has 5-10cm sections of mottled Qtz-Ak-ser-tao alteration.																				
					STRUCTURE:																				
					-230.81m → zone on Slip @ 40°																				
	233.67	297.73	PPHL?	2	m				Tr	3.0	/	/	/	/	M	W	Tr	/	/	w	M	/	w		
					LITH + MIN:																				
					The unit is typically light to dark grey and has a poorly to moderately well preserved porphyritic texture. Locally the unit appears aphanitic due to alteration.																				
					15-20% light translucent grey to cream 1-3mm subh. euhedral feldspars and 10-15% cream to buff 1-3mm euhedral to subhedral, lath shaped, hornblenders. Rare hornblenders are >4mm.																				
					No quartz veins and moderate white gypsum veining throughout.																				
					Trace to weak carbonate as fracture fill and veins.																				
					Trace chloropyrite @ 260.0 meters. No other chloropyrite was noted. 3.0% pyrite as frigid disseminations, 1-4mm irregular blebs as well as fracture fill and in rare veins.																				
					At the end of fault zone @ 60°																				
					ALTERATION:																				
					Moderate phyllic (Qtz-ser-Py) alteration throughout. Veigid formazine is in fractures and locally within 1cm of the fractures.																				



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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 242

Logged By: Tom Foreman  
Date: Nov 5 95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	297.73	305.09	CONT'D																			
	<p>quartz veining as gypsum veining 2.5% pyrite occurs throughout as fine disseminations and 1-8mm irregular blebs as well as fracture fill. L.C: Sharp with dyke @ 70° ALTERATION: Moderate phyllic (Qtz - Ser - Py) alteration throughout STRUCTURE: - 300.70m → 2-3mm gouge on break @ 50°</p>																					
	305.09	308.85	DYKE	Z	M	-	-	2.0	/	/	/	/	M	W	/	/	/	Tr	/	/	W	
	<p>LITHOLOGY: A porphyritic grey to green dyke with chilled margins. 10-15% white to creamy grey blebbly 1-3mm plagioclase and 15-20% 1-4mm sub to euhedral, lath shaped, buff to cream hornblende Pegmatites are surrounded by an aphanitic matrix This does resemble late phase. Trace 1-3mm carbonate veining 2% pyrite as fine disseminations and 1-3mm irregular blebs throughout. L.C: sharp @ 60°</p>																					
	308.85	313.45	PBR L	Z	M			2.5	/	/	/	/	M	W	/	/	/	W	Tr	/	W	
	<p>LITH + MIN + ALT: This is a continuation of the late phase breccia that is above the porphyritic dyke and is described between 297.73 and 305.09m except this portion has trace clear gypsum veins L.C: contact with fault zone is in bkn core.</p>																					

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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 242

Logged By: Tan Foreman

Date: Nov 6 '95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
	308.85	313.45	CONT'D																				
						STRUCTURE:																	
						-309.40m																	
						-310.53m																	
						-311.72m																	
	313.45	317.75	FAUL	2	m			Tr?	2.5	/	/	/	/	M	w	/	Tr	/	Tr	/	/	M	
						LITHOLOGY:																	
						5 to 20 cm zones of cemented gouge, rubble and/or mud - strongly bks core separate 10-30cm sections of pale greenish grey late phase. Rare quartz fragments are contained within the cemented gouge.																	
						Trace chalcopyrite possibly occurs within these fragmented quartz veins. Sphalerite and galena in a carb vein 316.77m																	
						L.C:																	
						Slap @ 40°																	
						ALTERATION:																	
						The alteration is assumed to be the same as the surrounding units (Moderate phyllic - Qtz-Ser-Py)																	
						STRUCTURE:																	
						- Trend of the majority of the gouge is 40°																	
	317.75	345.26	PPHL	2	m	3	W	/	3	/	/	/	/	M	w	/	/	/	vw	/	/	w	
						LITH MIN:																	
						The unit is pale greenish grey and does not have a well preserved porphyritic texture. The peldspars are difficult to distinguish as they blend in with the ground- mass. 10% (assumed to be 15-20%) pale grey to translucent green 1-3mm anhedral to euhedral peldspars and 15% buff to pale green <1-3mm, rarely 74mm, sub to euhedral hornblenders.																	

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 242

Logged By: Iron Foreman  
Date: NOV 6 '95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	317.75	345.26	CONT'D																			
				<p>The unit has a blotchy appearance due to 5% sericite blebs. 2-13mm rounded</p> <p>No quartz or gypsum veins but very weak carbonate as both veins and fracture fill. No chalcopyrite was noted through the unit. 3.0% pyrite occurs primarily as fold disseminations and 1-8mm irregular and rounded blebs throughout the groundmass. Pyrite also occurs in carb veins and as fracture fill. Sphalerite occurs as a 2.5mm ribbon in a 2cm carbonate vein 336.5m.</p> <p>Two light grey aphanitic dykes (or same dyke?) crosscut the core @ 30° and subparallel to the core axis. The 1st contains a 1x4cm quartz fragment.</p> <p>Slip @ 60°</p> <p>ALTERATION:</p> <p>Moderate phyllic (Qtz-ser-Py) alteration throughout with patches of weak mottled phyllic alteration indicated by the sericite +/- pyrite blebs.</p> <p>STRUCTURE:</p> <p>- 318.70 - 319.13m → 1.5cm light grey aphanitic dyke subparallel to C.A.</p> <p>- 319.50 - 319.7m → light grey aphanitic dyke @ 15°</p> <p>- 321.18m → 1cm gouge and rubble @ 60°</p> <p>- 325.10m → gouge on two parallel slips @ 65°</p> <p>- 328.50 - 328.67m → cemented gouge and thin core @ slip @ 60°</p> <p>- 329.31 - 329.59m → gouge in thin core @ slip @ 60°</p> <p>- 331.65 - 331.84m → strongly thin core between slips @ 35°</p> <p>- 337.65m → 4cm cemented gouge @ 50°</p> <p>- 340.46 - 340.96m → strongly thin core = rubble and trace gouge</p> <p>- 344.0 - 344.27m → cemented gouge and 0.5-4cm fragments @ 40°</p>																		

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 242

Logged By: Jan Foreman  
Date: Nov 6 '95

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining														
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.									
	345.26	398.07	PPHL?	2	m			Tr	4	/	/	/	/	m	w	/	Tr	/	vw	/	/	w									
								LITH + MIN:																							
								The unit is grey to greenish grey and has a moderately well preserved porphyritic texture throughout. Locally, the texture is absent due to alteration.																							
								15-20% 1-3mm antedrad to subhedral cream to translucent greenish grey feldspars and 15-20% 4-3mm, rarely 7-4mm, buff to dark greenish brown sub to antedrad lath shaped hornblende. The groundmass is aphanitic and locally has a mottled appearance.																							
								No gypsum veins and <5 white 2-6mm quartz veins around 386.0m elev. Trace to weak carbonate as veins and irregular fracture fill.																							
								4%, possibly greater, pyrite occurs primarily as disseminations and 1-8mm rounded and irregular blebs as well as fracture fill. Trace chalcopyrite was noted in one carbonate vein.																							
								L.C:																							
								E.O.H.																							
								ALTERATION																							
								Moderate phyllic (Qtz-Ser-Py) alteration throughout.																							
								STRUCTURE:																							
								- 346.15m → 2-3cm gouge and rubble @ 40°																							
								- 348.49-349.52 → light grey aphanitic dyke @ 60°																							
								- 349.80m → 2-3mm gouge @ 65°																							
								- 356.03m → 1cm gouge @ 65°																							
								- 363.83-363.92m → strongly bkn core w gouge																							
								- 367.89-368.01m → cemented gouge @ 40°																							
								- 370.09-381.31m → 5-10cm shear zones and cemented gouge @ 20-60°																							
								- 388.94-389.23m → cemented gouge @ 40°																							

RED - CHRIS PROJECT

Llard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 243

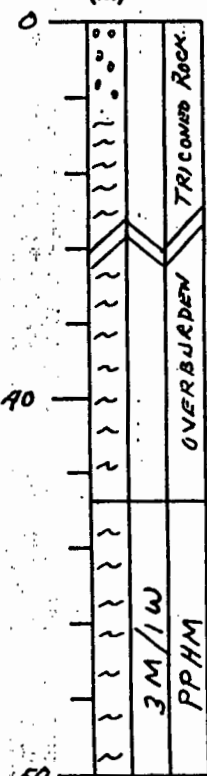
Location Sketch

Grid Northing (m):	99 200
Grid Easting (m):	48 900
Elevation (m):	
Total Length (m):	340.16
Casing Depth (m):	79.25
Reduction Depth:	
Collar Core Size:	NQ

Date Started:	NOV 4, 95
Date Completed:	NOV 9, 95
Logged By:	J. DEIGHTON
Date Logged:	NOV 5 - NOV 9/95
Data Entry:	
Entry Date:	
Casing (In/Out):	

Survey	Depth	Azimuth	Dip
0	0	090	-60
1	203.30	080.5	-59
2	306.93	081.5	-59

Graphic Log (m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining							
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.		
	0		OVER.		OVERBURDEN.																			
	42.67 (36.95)	47.80	PPHM FAUL?	3.	M	1	W	.5	3-5															
	<p>TRICOMED TO 42.67 M NOT ALL OVERBURDEN</p> <p>MAIN PHASE HORNBLENDE - FELDSPAR INCLINATED IN A RUBBLE ZONE OF VERY SMALL FRAGMENTS RECOVERED APPROXIMATELY 3.5 M OF RUBBLE ROCK RECOVERED FROM + 50 M OF COLLAR. FRAGMENTS OF ROCK INDICATE THAT THE ROCK IS VEINED BY QUARTZ AND PYRITE - CHALCOOPYRITE BY SERICITE AND PYRITE AND IN PLACES MOYSDENITE IS NOTED. THE ROCK ALSO SHOWS A SLIGHTLY PINKISH COLOR IN PLACES INDICATING THAT THE COMPOSITION IS SLIGHTLY POTASSIC IN PLACES. THE ROCK IS HIGHLY ALTERED TO SERICITE AND CLAY MINERALS. THURBERGITE. THE ROCK CONTAINS BETWEEN 3 AND 5 % PYRITE THROUGHOUT. STRUCTURE IN THIS SECTION IS IMPOSSIBLE TO IDENTIFY. (CONTINUED ON PAGE 2)</p> <p>NOTE - ASSAYS TO 117.04 M ARE VIRTUALLY MEANINGLESS BECAUSE OF THE POOR CORE RECOVERY. EXPERIENCE TELLS US THAT PORTIONS OF THE ABOVE ZONE SHOULD HAVE ORE INTERSECTIONS OF ONE GRADE MATERIAL</p>																							





RED - CHRIS PROJECT

Llard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

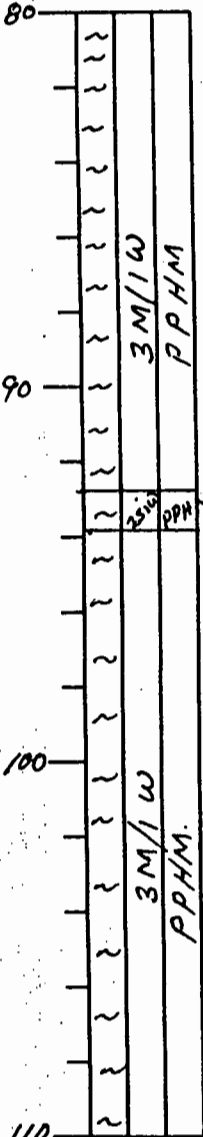
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 243

Logged By: \_\_\_\_\_

Date: \_\_\_\_\_

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	117.04	138.25	PPHM	1	M	2	M	<.5	2		TR		M	M	M	TR	TR	TR	TR	TR		M
	LIGHT FINNISK BROWN HORNBLENDE - FELDSPAR PORPHYRY WITH PHENOCRYSTS OF HORNBLENDE AND FELDSPAR UP TO 3mm IN SIZE IN ANHARTITE MATRIX. MATRIX EQUALS APPROXIMATELY 30% OF MASS. ALL PHENOCRYSTS AND MATRIX APPARENTLY ALTERED TO SERICITE AND CRYL WINKENAS. SOME OF SERICITE ALTERS TO LIGHT APPLE GREEN COLOR. VEINING BY ANYTHING IN THIS SECTION IS IN ONLY TRACE AMOUNTS. BE IT QUARTZ, CARBONATE OR CYPSELIN. CYPSELIN IS THE LOWEST AMOUNT OF VEINING. FRACTURING IS MODERATE THROUGHOUT SECTION. PYRITE IS ALSO IN LOW CONCENTRATIONS IN SECTION. MINOR MASS FRACTURES ARE NOTED TO OCCUR. BUT ARE ONLY 1-3mm THICK. TRACES OF URECHALITE, ALABAND FROM PYRITE OCCUR THROUGHOUT AS DOES TRACES OF TOLIMALINE																					
	138.25	139.60	DBCA	2	S								S	S				U				M
	DYKE OF CARBONATE FILLED FRACTURES FROM 2m TO ALMOST 10m IN SIZE DYKE LIGHT GREEN ANHARTITE QUARTZ MASS. UPPER CONTACT 53° TO GA. LOWER CONTACT 63° TO P.A. DYKE IS NOT IN JURAL CARBONATE VEINS.																					
	139.60	156.75	PPHM	1	M	2	M	<.5	2		TR		M	M	M	TR	U	U	U	U	U	RS
	BUFF BROWN TO SLIGHTLY DARK HORNBLENDE - FELDSPAR PORPHYRY SIMILAR TO THAT DESCRIBED FROM 117.04 - 138.25m. PORPHYRY APPARENTLY ALTERED TO SERICITE AND CRYL WINKENAS. AND CONTAINS 2-7% PYRITE AND CONTAINS LESS THAN 1% COPPER AS PHALOPYRITE OCCURRING AS MINOR DISSEMINATIONS AND IN THE WEAK QUARTZ VEINING OCCURRING THROUGHOUT SECTION. THIS SECTION ALSO CONTAINS LOCAL NEMATITE STAINING PROBABLY ALTERATION FROM PYRITE. TRACES OF TOLIMALINE OCCUR AS DISSEMINATIONS. V. V. CARBONATE AND CYPSELIN VEINS OCCUR THROUGHOUT.																					

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

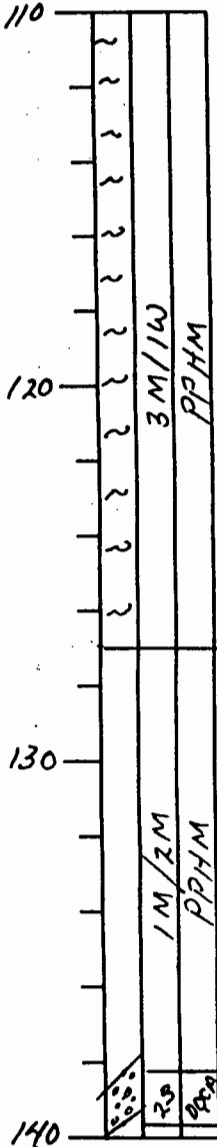
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 144

Logged By: \_\_\_\_\_

Date: \_\_\_\_\_

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	156.75	162.60	PPHM	3	M			1	3		TE			S	S		W-M	U	V	TR		M.
	LIGHT TO MEDIUM GREEN HORNBLENDE - FELDSPAR / QUARTZ / WITH PHENOCRYSTS OF HORNBLENDE AND FELDSPAR UP TO 3 CM IN SIZE THAT ARE COMPARABLE ALTHOUGH TO GRAY AND GREEN. SOME SPALLS LIGHT TO DARK AMBLE GREEN IN COLOR. MINOR QUARTZ VEINING. SOME MINOR VEINING WITH SOME MINOR WHITE - HYDRATE VEINING. VEINING AND TRACES OF GYPSUM VEINING WITH SOME 'BARROQUATE' VEINING. PYRITE OCCURS TO 5-10% OF THE ROCK AND COARSE PYRITE UP TO 1/2 OF THE ROCK.																					
	156.75	158.9																				
	158.6	158.25																				
	160.0	160.63																				
	162.60	165.3	FAUL	2	S	3	M	2	3					S	S		YU	VU	M.		S	
	SHEARING IN PPHM. THIS PHASE POSSIBLY OCCURRED MAINLY IN GANGE IN THE PARAGONITE STAGE. FELDSPAR UP TO 1 CM IN SIZE. PHENOCRYSTS MINOR QUARTZ VEINING. MINOR VEINING. SHEAR VEINING BY GYPSUM VEINING UP TO 2 CM IN SIZE. MINOR VEINING. MINOR VEINING. MINOR VEINING. MINOR VEINING.																					

RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

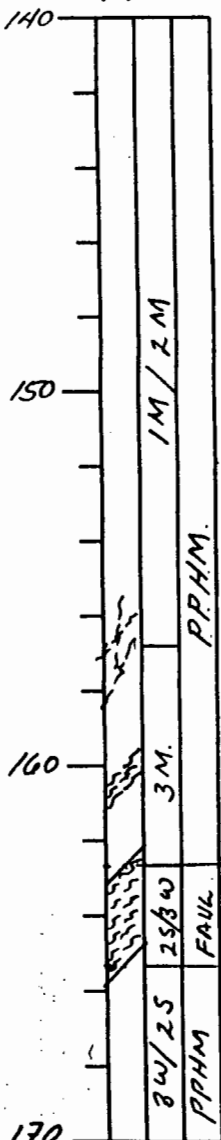
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 212

Logged By: \_\_\_\_\_

Date: \_\_\_\_\_

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	165.3	182.00	PPHM	3	W	2	S	~1	5					5	5		W-M	W	W	W		M.
	<p>TAKE VERY HOBBLEND FELDSPAR PORPHYRY PHEOPHOSITS UP TO 3mm IN SIZE                      COMPLETELY ALTERED TO SERICITE AND VERY MINORALS. CARBONATE OCCAS AS                      DISSEMINATED AND IN QUARTZ VEINS AND PYRITE OCCURS SPHERULICALLY WITH CONTENT OF                      PYRITE ~ 3% OF ROCK. THE PORPHYRY IS COMPLETELY ALTERED TO CLAY AND                      SERICITE.</p>																					
	182.00	188.66	PPHM	1	M	2	M	1	3				M	M	M		M	M-S	W	W		M
	<p>PINKISH BROWN PORPHYRATIC HOBBLEND - FELDSPAR PORPHYRY WITH WENIG TO MODERATE                      GYPSUM VEINING. SECTION OTHERWISE SIMILAR TO SECTION FROM 139.60 -                      156.75M. QUARTZ VEINING IS MICROCRITIC AND PYRITE AND CARBONATE                      VEINING ARE WEAK. SOME SERICITE - PYRITE FRACTURES AND FAIRLY STRONG                      IN PLACES</p>																					
	188.66	194.45	FAUL																			
	<p>CHEMICAL ANALYSES SA TO 60° TO CP IN APPARENTLY MAIN PHASE PORPHYRY                      ZONE VEINING TO CLAY AND CARBONATE VEINS. SOME PYRITE AND SERICITE                      PYRITE IN SERICITE AND CARBONATE VEINS. GYPSUM VEINING TO 150% STAIN</p>																					

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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

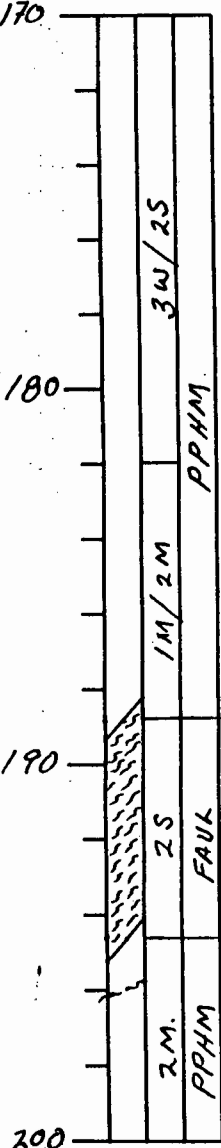
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 213

Logged By: \_\_\_\_\_

Date: \_\_\_\_\_

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining									
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.				
	194.45	207.65	PPHM	2	M								M	M												
				<p>NEAR GALEY. ... BY YOUR VEINING ... SOME PARTS THE POORLY TAKES ON A SLIGHTLY (MERIDIAN) TENSE. SOME (NARROW) STRIPS FOLIES AND SHEAR FOLIES ... SECTIONS ARE VERY WEAK ...</p>																						
				196.0 - 5' ... 75° to 90°.																						
				200.85 - 201.80 STRIPES AND ... 55° to 90°.																						
				203.0 - 204.0 - SHEAR ... 50° to 90°.																						
				206 - 207.65 ... MAY BE V. SEDS??																						
	207.65	214.70	VSEDS	3	W			1	3-4	<1			S	S		W	W	M							M	
				<p>GENERALLY LIGHT GREEN TO BLUE ... OR VOLCANIC (MAGNETITE). WITH WEAK STREAKY AND SPECKLED hematite STAINING. CUT BY WEAK QUARTZ VEIN STOCKWORK AND SOME MODERATE CARBONATE VEIN STOCKWORK. THE VOLCANIC SEDIMENTS ARE ... AFTER ... SONNITE AND ... PYRITE CONTENT VARIES BETWEEN 3 AND 4%, ... QUARTZ AND DISSEMINATED IRREGULARLY THROUGHOUT SEDIMENTS BY MAINLY DISSEMINATED ... CONSISTENT OF QUARTZ VEINS.</p>																						

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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

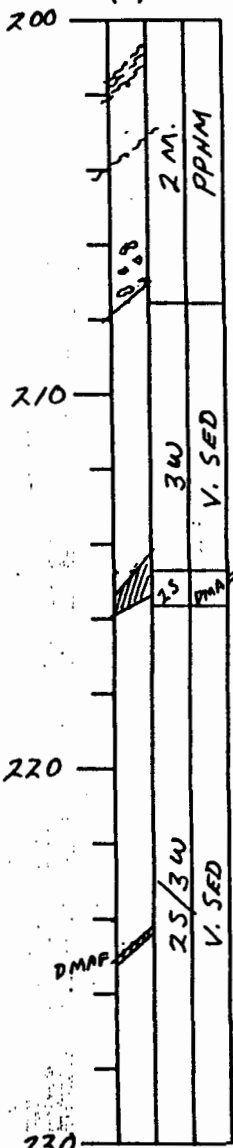
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 243

Logged By: \_\_\_\_\_

Date: \_\_\_\_\_

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	214.7	215.8	DPMAF	2	S								S	S				W				M.
	<p>PURPLE TO BUFF COLOURED MAFFIC DYKE. BUFF COLOUR FORM BLEACHING BY CIRCULATING WATERS AND CARBONATE GAS. RICH COEAL NEAR STRONG PARAGONITE VEINS. MAFFIC PHENOCRYSTS FROM 3 mm TO 1 cm IN DENSITY AND RADIATING CAUSING MAFFIC PHENOCRYSTS OR HORNBLANDIDES THAT WEATHER TO A BRICK CANY COLOUR AND MINERAL PHENOCRYSTS 5-10% OF ROCK MASS FADING IRREGULARLY IN APHANITIC GROUNDMASS.</p>																					
	215.8	243.6	V. SEDS	2	S	3	W	1	3-7	TR		S	S			W	W	M.				M.
	<p>GENERALLY A LIGHT GREY BUT MAY VARY TO A BUFF OR LIGHT GREY AND TO SLIGHTLY PURPLISH COLOUR. THE SEDIMENTS ARE FINE GRAINED TO APHANITIC CONTAINING WEAK TO MODERATE QUARTZ STOCKWORK AND MODERATE CARBONATE VEIN STOCKWORK. MINOR HEMATITE STAINING OCCURS IN PLACES THROUGHOUT THE SEDIMENTARY PACKAGE. PYRITE VARIES FROM 3 TO 7% IN THE SEDIMENTS WITH STRONG PATCHES OF PYRITE. CHALCOPYRITE OCCURS IN QUARTZ VEINS AND AS DISSEMINATIONS IN THE SEDIMENTS. SOME TIMES A QUITE LARGE PLEKERS UP TO 3-4 mm ACROSS. MINOR MOLYBDENITE IS NOTED IN QUARTZ VEINS AND IN SEDIMENTS ADJACENT TO QUARTZ VEINS.</p>																					
	224.25 - 224.45		DPMAF	DYKE 45° TO CA. UPPER CONTACT, 70° TO CA. LOWER CONTACT																		
	232.45 - 232.60		RABOCIA ZONE ~30° TO CA.																			

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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

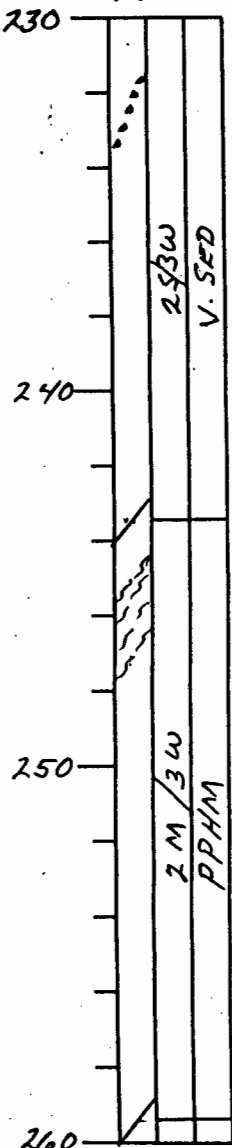
DRILL HOLE NO. 95 - 243

Logged By: \_\_\_\_\_

Date: \_\_\_\_\_

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	243.6	259.60	PPHM	Z	W	Z	W	<1	3		TR			S	S	TR	W	W	M			M
	<p>LIGHT GREY TO SLIGHTLY BUFF COARSED HORN BLLENDE - FERDS/AM ADJACENT OR THE MAIN PHASE VARIETY. COMPLETELY ABSENT TO SULFIDE AND OXY MINERALS WITH WEAK QUARTZ VEINING AND MODERATE CARBONATE VEINING. TRACES OF HEMATITE ALTERATION - STAINING OCCUR LOCALY. WOLFRAMITE WAS NOTED IN SOME QUARTZ VEINS. PYRITE OCCURS MAINLY AS DISSEMINATIONS BUT CAN ALSO OCCUR IN QUARTZ VEINS AND V. OCCASIONALLY IN CARBONATE VEINS. CHALCOPYRITE OCCURS AS DISSEMINATIONS AND IN QUARTZ VEINS. AS DISSEMINATION THE CHALCOPYRITE OCCURS MOST STRONGLY ADJACENT TO THE QUARTZ VEINS TRACES OF TOURMALINE OCCUR VERY LOCALY</p> <p>245.15 TO 247.85. SHEAR ZONE WITH GOUGE UP TO 20 CM IN WIDTH, SMALLER SHEARS 45° TO (RD) AND ROCK FRAGMENTS OCCUR BETWEEN THE NARROW SHEARS.</p>																					
	259.60	261.67	V. SEDS	Z	S			<1	3		TR			S	S	W	W	M			M	
	<p>GENERALLY A LIGHT GREEN BUT MAY VARY IN COLOR TO BUFF TO LIGHT GREY BUT MAY CONTAIN SMALL PATCHES OF REMNANT GREEN PHASE. (SERPENTINE AND/OR GREEN OXIDE) MAINLY HEMATITE STAINING NOTED LOCALY. QUARTZ VEINING IS VERY WEAK WHILE CARBONATE VEINING IS MODERATE. PYRITE OCCURS IN CONCENTRATIONS AROUND 3% MAINLY AS DISSEMINATIONS. CHALCOPYRITE OCCURS IN QUARTZ VEINS AND AS DISSEMINATIONS. WOLFRAMITE WAS NOTED IN QUARTZ VEINS BUT IS MAINLY CONSTITUENT.</p>																					







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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

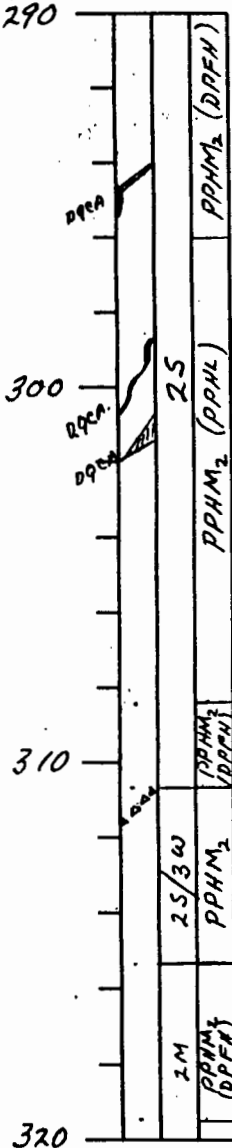
DRILL HOLE NO. 95 - 243

Logged By: \_\_\_\_\_

Date: \_\_\_\_\_

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	273.20	276.85	PPHM <sub>2</sub> (DPEH)	2	S						T			S	S				M			W
	VARIOUS COLORED DYKE FROM LIGHT GREY AND BROWNISH - BLUE TO LIGHT PURPLISH COLORS. PATCHY AND IRREGULAR MINERALS TO CONTACT. UPPER CONTACT IS IRREGULAR AT ~30° TO CA LOWER CONTACT AT 30° TO CA. PHENOCRYST OF HORNBLENDE AND FELDSPAR UP TO 0.6 CM IN LENGTH. GOOD DEVELOPMENT OF PHENOCRYSTS WITH ~5-10% OF RICH PHENOCRYSTS IN ANHASTIC MATRIX. THE ROCK IS COLLAGNERALY ALTERED TO SERICITE AND CLAY MINERALS. VERY LITTLE OF THE ORIGINAL POTASSIC COMPOSITION OF MATRIX IS LEFT, OCCASIONAL SPECKS OF HEMATITE ARE SEEN THROUGHOUT.																					
	276.85	283.35	PPHM <sub>2</sub> (PPH <sub>2</sub> )	2	S					2				S	S				M			W
	LATE PHASE PORPHYRY AS DESCRIBED PREVIOUSLY FROM 266.20 - 273.20 M.																					
	283.10 - 283.35 RALTY IN ZONE 30° TO CA. FORMS LOWER CONTACT OF PPH <sub>2</sub> WITH THE FOLLOWING LARGE DYKE OF DPEH.																					
	283.35	296.00	PPHM <sub>2</sub> (DPEH)	2	S					0				S	S				M			M
	VARIOUS COLORED DYKE FROM BLUE TO LIGHT GREY - GREEN, BROWNISH, PURPLISH AND DARK GREEN COLORS. TEXTURES TWO VARY FROM ANHASTIC TO VERY PORPHYRYIC WITH FELDSPAR AND HORNBLENDE PHENOCRYST UP TO 5 CM LONG. ROCK IS COLLAGNERALY ALTERED TO SERICITE AND CLAY MINERALS. SPOTS OF LIGHT APYRIC GREEN SERICITE SEEN THROUGHOUT. NOTED COLORED SECTIONS																					









RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 243

Logged By: \_\_\_\_\_

Date: \_\_\_\_\_

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Oz	Py	Cb	A:	H:	Fr.	
	330.10	338.00	DQCA (DMAF)	2	S								S	S				W				W	
				PIVOTAL TO RIFT DEVELOPMENT. ALKALINE MAFIC DYKE WITH CALCITE - QUARTZ? FILLED FRACTURES FROM 1/2 MM TO 1/2 CM IN SIZE. THE DYKE IN CONTACT WITH CARBONATE VEINS OR NEAR FRACTURES IS BLENDED FROM THE DARK PHASE OUTSIDE TO A BUFF TO LIGHT GRAY BROWN PORPHYRY. THE DYKE IS ALTERED OR SOFT SO IS PROBABLY ALTERED TO CLAY AND SERICITE MINERALS. THE DYKE CONTAINS NO SILICIDES. THE UPPER CONTACT IS HEATED TO THE UNIT ABOVE AND HAS AN UPTAKE UNDERLAINING CONTACT. THE LOWER CONTACT IS A SHEAR ZONE AT 17° TO P.A. UPPER CONTACT 5 TO 10° TO P.A. OCCASIONAL SMALL 1-2 MM MAFIC PHENOCRYSTS ARE NOTED IN THE DYKE. THE DYKE IS SHEARED AT LOW ANGLES TO THE CORE 5-10° TO P.A. FROM 332.70 TO 334.1.																			
				337.45 - 337.6 m (100%) PROBABLY SHEAR ZONE OF PPHM IN THE DYKE																			
	338.00	340.16	PPHM	3	M.			1	3-4				S	S			W-M	W	M			M	
				DARK GRAY HORNBLENDE FERROAN PORPHYRY OF THE MAIN PHASE PORPHYRY IS COMPLETELY ALTERED TO SERICITE AND CLAY MINERALS. THE PHENOCRYST ARE RADIAL AND FROM 2-3 MM IN SIZE. THE PORPHYRY IS WEAKLY TO MODERATELY VEINED BY QUARTZ AND MODERATELY VEINED BY CARBONATE. IT IS ALSO WEAKLY VEINED BY PYRITE. CHALCOPYRITE & NYNITE OCCUR AS DISSEMINATIONS AND IN QUARTZ VEINS. PYRITE ALSO OCCURS IN NARROW 1-2 MM VEINS.																			
	340.16		E.O.H.	HOPE SHUT DOWN AS ROCK SPALLING AND SOME BARRE STUCK.																			

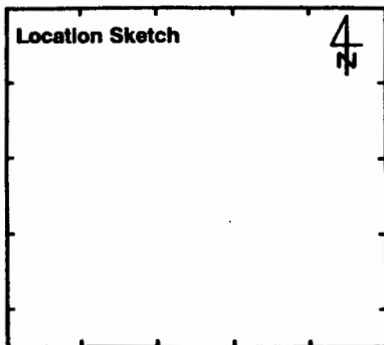
**RED - CHRIS PROJECT**

Liard Mining Division  
British Columbia, Canada

**GEOLOGIC DRILL LOG**

**AMERICAN BULLION MINERALS LTD.**

DRILL HOLE NO. 95 - 244



Grid Northing (m):

100 050 N

Grid Easting (m):

50450 E

Elevation (m):

Total Length (m):

300.53 m

Casing Depth (m):

4.87

Reduction Depth:

—

Collar Core Size:

HQ

Date Started:

Nov 6/95

Date Completed:

Nov 8/95

Logged By:

T. Fraser

Date Logged:

Nov 7/95

Data Entry:

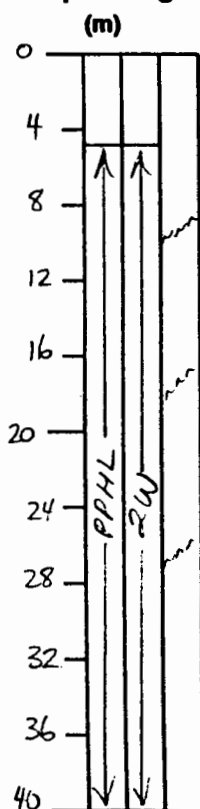
Entry Date:

Casing (In/Out):

Out

Survey	Depth	Azimuth	Dip
SS	152.4	180.5°	-62°
SS	285.3	184°	-62°

**Graphic Log**



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	0	4.87	CASN																			
	4.87	71.15	PPHL	2	W	-	-	0.3	6	0	0	0	0	W	W	TR	0	W	TR	0	0	VW
	<p>Lithology - Highly porphyritic buff to pale grey late phase plagioclase hornblende porphyry. Plagioclase phenocrysts are subhedral, cream to white in colour. Plagioclase phenocrysts comprise 35-40% and vary from 1mm - 4mm in size. Hornblende phenocrysts comprise approximately 5-8% shaggy but euhedral grains up to 6-8 mm in length. The groundmass is pale grey and aphanitic. This unit appears to have fairly typical late phase characteristics. There are small (1cm - 10cm) dark grey PBRL veins cutting the unit.</p>																					
	<p>Alteration/Mineralization - Plagioclase phenocrysts are weakly clay altered and very weakly sericite altered. Hornblende phenocrysts appear to be carbonate-sericite-pyrite altered. Pyrite is blebby and disseminated throughout. There are weak pyrite veins and trace to locally weak white carbonate veins. Very thin (mm-sized) black tourmaline (?) veinlets are throughout. Trace Chalcopyrite blabs.</p>																					
	<p>Structure - 8.00 - 8.23 m healed gouge 9.65 m gouge/shar @ 30° 17.50 - 17.60 m black shar @ 30°</p>																					



RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

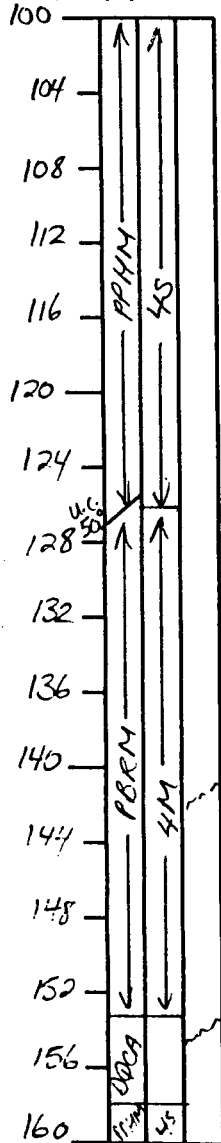
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 244

Logged By: T. Fraser

Date: NOV 7 1995

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
	79.30	81.54	PBRL	2	M	-	-	0.3	8	0	0		0	0	VW	W	0	0	TR	0	0	0	VW
	Lithology - Pale grey Late Phase breccia dike. The unit is clast-supported and contains angular to subrounded Late Phase fragments. Clasts vary from <0.5 cm to 3.5 cm in diameter. Most clasts are highly porphyritic and contain plagioclase and hornblende phenocrysts similar in abundances and alteration as interval 4.87-71.15m. The matrix is pale grey and appears intrusive (contains plagioclase phenocrysts?). Clasts comprise 50%. Green fragments may be monzonite-altered (?).																						
	Alteration/Mineralization - The unit appears to have weak to moderate phyllite alteration. Pyrite is disseminated throughout the matrix and is present as trace veinlets. The unit is late and contains no quartz veins. Plagioclase phenocrysts are weakly to moderately clay (kaolinite) altered. Hornblende phenos are sericite-carbonate ± pyrite altered.																						
	Structure - 80.00m gauge seam @ 15-20° to C.A. @ 81.54m lower contact of PBRL is @ 45°																						
	81.54	84.57	PPHM	4	S	-	-	1.8	6	0	TR		0	0	S	W	0	S-I	M	TR	0	0	VW
	Lithology - same as interval 71.15-79.30m																						
	Alteration/Mineralization - same as interval 71.15-79.30m																						
	Structure - @ 84.57m upper contact of PBRL @ 45°																						



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Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

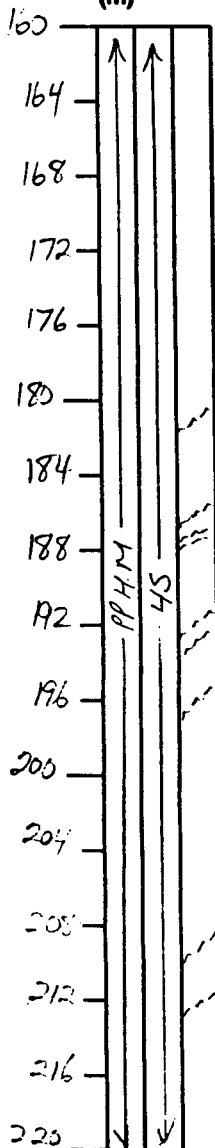
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 244

Logged By: T. FRASER

Date: Nov 7/95

Graphic Log  
(m)



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining					
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.
	84.57	100.22	PBRL	2	M	-	-	0.4	8	0	0	0	0	vW	M	0	TR	TR	TR	0	0	vW
	Lithology - same as interval 79.30-81.54m but the clast size tends to be somewhat larger (up to 6 cm).																					
	Alteration/Mineralization - same as interval 79.30-81.54m but there is trace disseminated chalcopyrite in the matrix of the breccia. Trace quartz-chalcopyrite-pyrite bearing fragments. There are rare unmineralized grey quartz veins. Pyrite is disseminated and blubby throughout the matrix. Trace pyrite and carbonate veins.																					
	Structure - 86.00-86.30m PPHM fragment within the Late Phase breccia - it is mineralized and similar in characteristics/alteration to interval 71.15-79.30m																					
	85.70m Shear @ 35°																					
	98.00m Shear @ 45°																					
	@ 100.22m lower contact of PBRL @ 60° to CA.																					
	100.22	126.14	PPHM	4	S	-	-	4.0	6	0	TR	0	0	S	W	0	I	M	W	0	0	M
	Lithology - same as interval 71.15-79.30m but there is only minimal host rock left.																					
	Alteration/Mineralization - same as interval 71.15-79.30m but the banded/laminated quartz veins are considerably larger in width. The largest vein cuts main phase material from 100.22 → 103.60m (a 3.38 meter vein). Quartz veins are very well mineralized and contain disseminated pyrite and chalcopyrite. Quartz veins are cut by moderate pyrite veins and chalcopyrite-pyrite veins. The carbonate veins cut mineralization. The PPHM host is strongly pyrite-carbonate altered and contains disseminated red hematite and blubby pyrite.																					

**GEOLOGIC DRILL LOG**

**AMERICAN BULLION MINERALS LTD.**

Graphic Log (m)	Interval	Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining									
			From	To	Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.		
220																									
224																									
228																									
232	126.14	153.23	PBRM	4	M	-	-	0.9	4	0	0	0	0	vW	M	0	Ws	TR	TR	0	0	vW			
236						Lithology - The unit is a clast supported breccia with spectacular angular 1cm - 10 cm fragments of main phase material. The main phase fragments are plagioclase and hornblende phyrics - containing approximately 35% subhedral white to grey plagioclase phenocrysts 2 mm in length. Hornblende phenocrysts are subhedral beige 2-3 mm in length and comprise 5-8% by volume. The main phase fragments are cut by grey quartz veins. The matrix consists of grey, fine grained material and is moderately to weakly mineralized. The unit is grey then are approx 5-10% green/yellow altered fragments.																			
240						Alteration/Mineralization - Plagioclase phenocrysts are moderately kaolinite altered and occasionally very weakly sericite altered. Hornblende phenocrysts are carbonate-buscite-quartz altered. The PPHM fragments display typical alteration type 4. Quartz veins contain disseminated pyrite and trace chalcocite. The matrix contains blabby pyrite and trace chalcocite blebs. Trace white carbonate blebs exist the breccia. Quartz veins are well serrated/buscited. Several quartz vein fragments were noted.																			
244																									
248																									
252																									
256																									
260																									
264																									
268																									
272						Structure - 141.79m gouge @ 40°																			
276						148.44 - 148.78m Sharp/broken @ 153.23m the upper contact of DOCA is broken.																			
280																									

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Liard Mining Division  
British Columbia, Canada

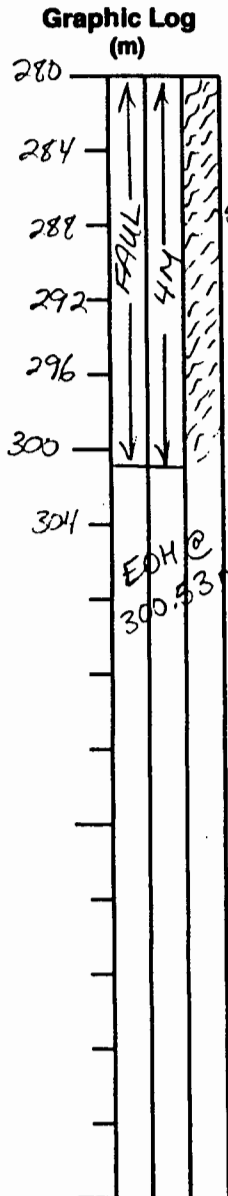
GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 244

Logged By: T. Fraser

Date: Nov 8/95



P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy				Structure - Veining							
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bl	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
	153.23	158.02	DOCA	-	-	-	-	0.5	-	-	-	-	-	-	-	-	-	TR	W	-	-	VW	
	Lithology - Olive green to dark brown aphanitic DOCA dike. The groundmass has a granular texture and varies in colour from brown/purple to olive green/tan. The dike contains 2-5% white carbonate amygdules. Amygdules vary from 1mm - 0.5cm. The dike is cut by pyrite veinlets and weak carbonate veins. Essentially the dike is fresh and unaltered.																						
	Structure - 154.85m gouge seam @ 40°.																						
	@ 158.02m the lower contact of DOCA is broken																						
	158.02	223.40	PPHM	4	S	-	-	0.5	4.5	0	3	0	0	S	VW	0	W	S	W-M	TR	0	TR	VW
	Lithology - The unit varies from pale/medium green to brownish yellow. The entire lithology varies in colour considerably - depending on the intensity of alteration. In some places the unit's primary texture has been obliterated, whereas some texture remains locally - illustrating a moderately porphyritic main phase unit. Plagioclase phenocrysts comprise 25-35% subhedral green, 1-3mm grains. Hornblende phenocrysts are obliterated locally but generally comprise 8-10% large to cream coloured, subhedral 1-2mm phenos.																						
	Alteration/Mineralization - The unit is generally strongly sericite-carbonate altered. Plagioclase phenocrysts are weakly to moderately sericitized. Occasionally plagioclase phenocrysts are kaolinite lined. Hornblende phenos are sericite-carbonate-pyrite altered. Red hematite is disseminated throughout the Main Phase unit and comprises 3-5%.																						



RED - CHRIS PROJECT

Liard Mining Division  
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 244

Logged By: T. Fraser

Date: Nov 8 1995

Graphic Log  
(m)

P S	Interval		Rock Code	Alteration Facies				Mineralization				Alteration Mineralogy					Structure - Veining						
	From	To		Typ	Int.	Typ	Int.	Cp	Py	Bn	Hm	Bi	Kf	Ms	Cy	To	Qz	Py	Cb	A:	H:	Fr.	
				Alteration/Mineralization - The groundmass of the PPHM unit is weakly K-shear altered. Some of the hornblende phenocrysts appear to be biotite altered. There are very weak quartz veins which contain weak hematite, pyrite and chalcopyrite. Red hematite is locally disseminated (up to 3%) and occurs as trace veins. Trace white carbonate veins. Pyrite is disseminated. There is possible magnetite associated with hematite veins. Plagioclase phenocrysts are weakly to very weakly sericite altered.																			
				Structure - 234.60 - 234.65m shear @ 45° 246.27 - 246.43m shear DCA @ 50° 249.02 - 249.05m gouge @ 40° 249.80 - 249.92m gouge @ 30° 252.50 - 252.67m gouge @ 35° 252.95 - 253.37m gouge @ 45°  @ 258.50m upper contact of fault @ 15°																			
	258.50	300.53	FAUL 4	M	-	-	0.3	3	0	TR	0	0	W	W	0	TR	VW	TR	0	0	M		
				The unit is dominantly highly sheared Main Phase plagioclase hornblende porphyry. The fault is commonly healed shears with gouge and clay slips. Fragments of PPHM vary from 40.5cm to 10cm, along with several large blocks of relatively unaltered material. Shears throughout vary from 30-45° and are marked by clay slips and slickensides.																			
				Alteration/Mineralization - The main phase unit has weak sericite altered plagioclase phenocrysts. Clay/kaolinite alteration is common. Pyrite is finely disseminated throughout. There are trace quartz - pyrite veins and occasional pyrite clots.																			

