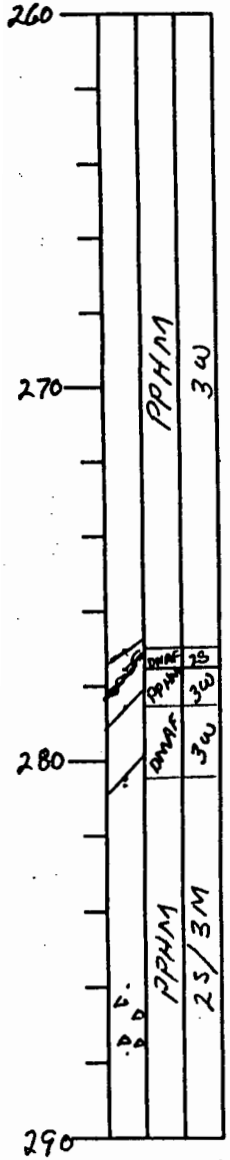
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 164
Logged By: J. DEIGHTON
Date: JULY 7/95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
			195.6	196.0				BRECCIA CRUSHED RX GOUGE & GYPSUM VEINS 45° TO CA															
			196.2 - 196.4					CRUSHED ROCK GOUGE & SHEAR PLANES. 45° TO CA.															
			202.3	5 cm OF LIGHT BROWN DYKE FINE GRAINED IRREGULAR CONTACTS.																			
			202.4	5 cm OF LIGHT BROWN FINE GRAINED DYKE WITH IRREGULAR TOP CONTACT AND FR/SHEAR LOWER CONTACT 75° TO CA.																			
			202.7 - 202.85	LIGHT BROWN FINE GRAINED DYKE AS ABOVE UPPER CONTACT 70° TO CA LOWER CONTACT 80° TO CA. BOTH CONTACTS ON FRACTURES																			
			208.0	209.2				DPFH DYKE UPPER CONTACT 70° TO CA. HEALED TO BRECCIA. LOWER CONTACT 35° TO CA HEALED TO BRECCIA.															
			212.0	LOWER CONTACT OF BRECCIA. ON QUARTZ CARBONATE VEINS 30° TO CA HEALED TO LOWER UNIT.																			
	212.0	230.55	PPHM	2	S	3	W.		6					M.	S	M		W	W	W	S		W
			LIGHT BUFF TO BROWNISH APHANITIC TO WEAKLY PORPHYRITIC MAIN PHASE HORNBLENDE - FELDSPAR PORPHYRY WITH GENERALLY STRONG GYPSUM VEINING ROCK COMPLETELY ALTERED TO SERICITE AND CLAY CONTAINING ~ 4% DISSEMINATED PYRITE. OCCASIONAL SMALL 5 cm OR LESS OF BLACKISH INTRUSIVE DYKE MATERIAL AND INTRUSIVE BRECCIA ZONES FOUND WITHIN SECTION. HORNBLENDES COMPLETELY ALTERED TO CLAY - FELDSPARS COMPLETELY ALTERED TO SERICITE BUT STILL RETAIN THEIR ORIGINAL TEXTURE & FORM. DARK DYKES ARE HARD SILICIOUS & CONTAIN PYRITE DISSEMINATED.																					

STAINING SHOWS STRONG TO MODERATE POTASSIC IN PATCHES.

DRILL HOLE NO. 95 -

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 164
Logged By: J. DEIGHTON
Date: JULY 7/95

Graphic Log (m): 290, 300, 310, 320

PPHM 25/3M

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				MINOR SHEARING FOUND IN SECTION VERY WEAK ALONG SOME FRACTURE PLANES.																			
	230.55	232.5	PBBM	3	W				6						S	S	S		W	W	M		W
				INTRUSIVE AND FAULT BRECCIA WITH INTRUSIVE CHARACTERISTICS. FRAGMENTS ROUNDED TO ANGULAR, MORE ANGULAR IN BRECCIAS WITH SILICEOUS BRACK MATRIX, AND FINE INTRUSIVE MIXTURE OF PYRITE AND QUARTZ IN BROWNISH OR GREYISH COLOR. THE LARGER FRAGMENTS OF ROCK MAY BE AS LARGE AS 15 CM ACROSS. BRECCIA MAY INCLUDE SEVERAL SHORT SECTIONS OF MAIN PHASE SURROUNDED BY BRECCIA. CONTACTS OF BRECCIA HEARED TO PREVIOUS & FOLLOWING UNITS. UPPER CONTACT 80° TO CA. LOWER CONTACT MAY BE 45° TO CA. IN ROCK FRAGMENTS THE ROCK IS COMPLETELY ALTERED TO SERICITE & CLAY MINERALS. SOME FELDSPAR PHENOS DISTINCT WITH SERICITE REPLACING COMPLETELY.																					
	232.5	277.1	PPHM	3	W				5						S	M	T	W	M	W	M		W
				LIGHT GREY TO MEDIUM GREY APHANITIC TO PORPHYRITIC MAIN PHASE HORNBLENDE FELDSPAR PORPHYRY WITH HORNBLENDES COMPLETELY ALTERED TO CLAY MINERALS AND FELDSPARS COMPLETELY OR PARTIALLY ALTERED TO SERICITE & PYRITE AS DISSEMINATIONS & VEINS. ROCK COMPETENT AND WEAKLY FRACTURED ONLY SMALL NARROW SHEAR ZONES EXIST WITHIN THE SECTION. QUARTZ & CARBONATE VEINING ARE WEAK. MINOR SECTIONS MAY BE SLIGHTLY BUFF IN COLOR AND OTHER SHORT SECTIONS MAY HAVE A SLIGHT WEAK GREENISH TINGE.																					
			239.6	7 cm GOUGE SHEAR STRESSED ZONE 60° TO CA.																			

DRILL HOLE NO. 95 -

Page 11 of 13

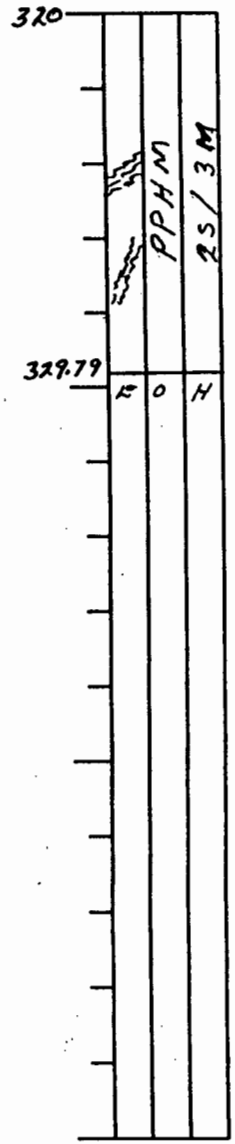
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 154
Logged By: J. DEIGHTON
Date: July 7/95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.	
			255.6	10cm		GOUGE		SLIP PLANE:			70°	TO CA											
	277.1	277.6	DMAF	2	S			0	0			W		S	S					W	P	M	
				DYKE OF BIOTITE-HYDROTHERMAL PORPHYRY WITH VERY FINE NARROW AMYGDULES OF CALCITE. LIGHT BUFF-TAN IN COLOR WITH OCCASIONAL DARKER STREAK ALONG FRACTURE, SILICIFIED AGGREGATES AND SMALL ROUGH PHENOCRYSTS ALTERED TO BUFF MINERALS GAUGE UP TO 3/4 cm LONG. FELDSPAR LATH SHAPE MAY BE PHENOCRYSTS LOCALLY SMALL Ca HORNBLENDE? BIOTITES. 13 TO TINY FLECKS RANK & RARE LIKE SPRIGGED WITH INTERSTITIAL MATRIX OF DYKE MATERIAL. DYKE ALSO SECONDARY BIOTITES. MINOR CONTEMPORANEOUS VEINING & CYANITE VEINING. FUSSY HAIR LIKE PHENOCRYSTS GUIDING FOCUS MINOR FRACTURE. MAY BE ANY DIP?? UPPER CONTACT OF DYKE IRREGULAR & JAGGED AT 53° TO CA LOWER CONTACT FAINT GOUGE & BROKEN STRESSED ROCK WITH CYANITE. 30° TO C.A.																						
		277.6		m	10cm	OF	BUFF	GOUGED	DYKE	&	CYANITE	VEINS	30°	TO	CA.								
	277.6	278.5	PPHM	3	W				4					S	M.					W		M	
				MAIN PHASE AS DESCRIBED ABOVE								232.5 - 277.1 m.											
	278.5	280.4	DMAF	3	W				0			W		·	S	S		·	Cb	W		M	
				AS DESCRIBED FROM 277.1 - 277.6 ABOVE. MOD FR.																			
				UPPER CONTACT REGAINS PHASE WITH IRREGULAR JAGGED CONTACT AT ~ 30° TO C.A																			

DRILL HOLE NO. 95 - [ ]

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 164
Logged By: J. DEIGHTON
Date: JULY 8/95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
				LOWER CONTACT AGAINST AGLO NICKED TO 1 PERPENDICULAR TO CA. CONTACT AT ~ 20° TO CA. CONTACT ALSO HAS VEIN AGGLOM. CONTACT WITH SILICIFIED									MAIN MINERALOGY SHOWING CHANGES & ABUNDANCE												
	280.4	329.79	PPHM	2	S	3	M	<1	4						S	S	T		W	W	M		W	
				LIGHT TO DARK GREY SILICIFIED PORPHYRY WHERE HORNBLENDE PHENOCRYSTS HAVE BEEN ALTERED TO SERICITE. FELDSPAR PHENOCRYSTS ARE GENERALLY SIZE WERE NOTED BUT ARE GENERALLY RUFF DISCOUS AND VALINE HOWEVER TO MATRIX POTASSIC ALTERATION). SERICITE VEINING OR ALTERATION THROUGHOUT HOST. PYRITE OCCURS WITH SPHALERITE MINERALIZATION WEAK WITH BUT ALSO FOUND AS NO QUARTZ VEINING OBSERVED									APHANITIC TO PORPHYRITIC HORNBLENDE - FELDSPAR PHENOCRYSTS HAVE BEEN CARBONATED AND FELDSPAR PHENOCRYSTS MAY APPEARANCE 4-5 mm IN OR HAVE FUZZY EDGES. THE MAY ALSO BE ALTERED TO A PALE GREEN CLAY MINERAL. SLIGHT TRACES ALSO OCCUR OVER SHORT SECTIONS DUE MODERATE GYPSUM VEINING OCCURS THROUGHOUT IN WITH OCCURS AS DISSEMINATIONS AND IN VEINS. CHALCOPYRITE IN SOME CARBONATE VEINS FOUND AS DISSEMINATIONS WITHIN FINE GRAINED MASSES (VOLCANIC SECTIONS).							
			286.0	- 287.9		- BRECCIATED SECTION CEMENTED BY ANGULAR FRAGMENTS ALTERED & MINERALIZED																		
			301.8	- 302.25		FAULT, GOUGE SLIP PLANES							CRUSHED ROCK WITH CHLORITE AND GYPSUM VEINS SLIP PLANES 50° TO CA.												
			324.0	- 324.1		GOUGE, CRUSHED BROKEN & STRESSED ROCK WITH GOUGE SLIP PLANES 50° TO CA																		
			326.6	- 327.2		GOUGE STRESSED AGGLOMERATE ROCK							WITH GOUGE SLIP PLANES ~15° TO CA												
		329.79	EOH.																					

DRILL HOLE NO. 95 - [ ]

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 165

AMERICAN BULLION MINERALS LTD.

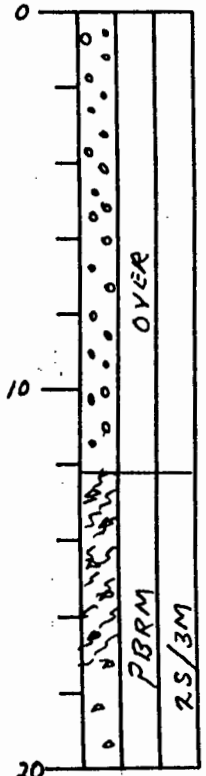
Location Sketch

DM

Grid Northing (m):	99850	Date Started:	July 8/95
Grid Easting (m):	46500	Date Completed:	July 10/95
Elevation (m):		Logged By:	J. DEIGHTON
Total Length (m):	343.51	Date Logged:	July 9 - 11/95
Casing Depth (m):	12.19	Data Entry:	
Reduction Depth:		Entry Date:	
Collar Core Size:	NQ	Casing (In/Out):	OUT

Survey	Depth	Azimuth	Dip
0	0	000	-60
1	166.73	003 1/2	-60 1/2
2	306.93	009 1/2	-62 1/2

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	0	12.19	OVER		OVERBURDEN.																		
	12.19	22.5	PBRM	2	S	3	M		1		3				S	S		W	W	W			S

LIGHT TO DARK GREEN APHANITIC MAIN PHASE BRECCIA. WITH ROUNDED TO SEMI ROUNDED FRAGMENTS UP TO 4 cm ACROSS CUT BY WEAK QUARTZ PYRITE AND CARBONATE VEINS. MUCH OF DISSEMINATED & SOME OF VEIN PYRITE HAS BEEN ALTERED TO HEMATITE. FAULTING IS STRONG IN SECTIONS AND VARIES IN WIDTH FROM A FEW MILLIMETER TO SEVERAL METERS? IN WIDTH. OXIDATION PENETRATES TO 20 m

12.19 - 17.0 m BROKEN ROCK, RUBBLE & SANDY MATERIAL

21.0 - 21.4 m - GOUGE & RUBBLE ROCK.

22.5 CONTACT FAULT WITH LOWER UNIT 40° TO CA

	22.5	26.52	FAUL																				

FAULT GOUGE, RUBBLE ROCK, LOST CORE SHORT SECTIONS OF SOLID ROCK UP TO 7cm IN CORE OF PPHM.

DRILL HOLE NO. 95 -

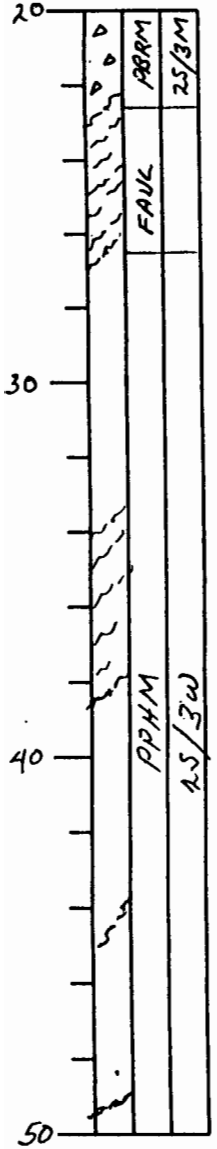
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 166
Logged By: J. DEIGHTON
Date: May 9/95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	26.52	133.3	PPHM	2	S	3	W		2-3%		1-3%	VW	W	S	S	T		W				W/Fr
				VARIOUS COLOURS OF BUFF TO BUFF BROWN, LIGHT GREEN TO LIGHT GREY PORPHYRITIC HORNBLENDE - FELDSPAR PORPHYRY WITH VERY SHORT SECTIONS OF APHANITIC PORPHYRY. PHENOCRYSTS ARE GENERALLY 2-4 mm IN LENGHT AND THE HORNBLENDES HAVE BEEN ALTERED TO GREY MINERALS WHILE THE FELDSPARS HAVE BEEN ALTERED TO VARIOUS SHADES FROM CLEAR APPLE GREEN, TO OCCASIONALLY WHITE TO SLIGHTLY BLEACHED IN APPEARANCE. WEAK PROPYLITIC FRACTURE CONTROLLED POTASSIC ALTERATION) HAS BEEN CONFIRMED BY STAINING. PYRITE IS FOUND THROUGHOUT THE SECTIONS AND VARY VARY IN INTENSITY BECAUSE OF ALTERATION AND VEINING INTENSITY. THE PYRITE HAS BEEN ALTERED TO VARIOUS INTENSITIES OF HEMATITE USUALLY AS DISSEMINATIONS BUT ALSO SOME VEINS AND COMBINATION VEINS. QUARTZ VEINING IS VERY WEAK AND CARBONATE VEINING IS WEAK AS OCCASIONALLY WEAK GYPSUM VEINING IS FOUND IN THE SECTIONS. TRACES OF BLACK TOURMALINE AS DISSEMINATIONS AND/OR VERY WEAK VEINLETS WERE ALSO NOTED OVER SHORT SECTIONS OF PORE CHARCOPYRITE WAS SEEN IN SOME QUARTZ AND/OR QUARTZ CARBONATE VEINS AS WEAK DISSEMINATIONS THROUGHOUT PORE, AND IN VEINLETS & FRACTURE FILLINGS THE CHARCOPYRITE MINERALIZATION IS GENERALLY LESS THAN 1% BUT MAY REACH 1% CHARCOPYRITE OVER SHORT SECTIONS. FAULTING AND OR BRECCIATION ZONES NOTED BUT ARE NOT STRONG IN ANY SECTION OTHER THAN THOSE NOTED BELOW. GYPSUM VEINING IS GENERALLY WEAK THROUGHOUT AND MAY BE ABSENT OVER SHORT SECTIONS.																					
			33.8	38.3	FAULTING, BROKEN ROCK WITH MINOR GOUGE SECTIONS AND SECTIONS OF SOLID PORE UP TO 30-40 CM WIDE.									LOW ANGLE FAULT PLANES 40° TO CA							

DRILL HOLE NO. 95 - [ ]

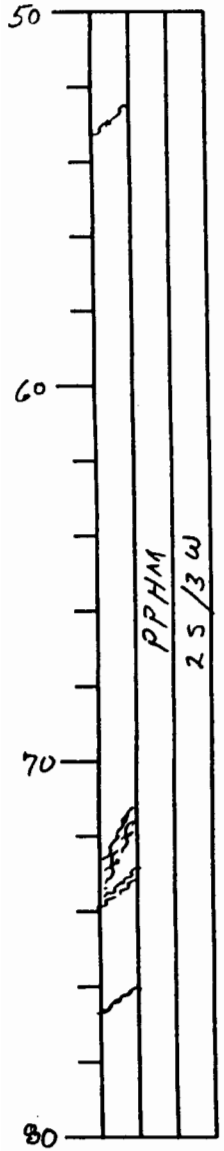
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 165
Logged By: J. DEIGHTON
Date: JULY 9/95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
			44.5 - 44.8	GOUGE STRESSED ROCK & CRUSHED HEALED ROCK WITH SLIP PLANES. 35° TO CA.																			
			49.2	- 10 cm OF CRUSHED ROCK GOUGE 60° TO CA.																			
			53.1	- 10 cm OF CRUSHED ROCK GOUGE & STRESSED ROCK ~ 50° TO CA ?																			
			72.0 - 72.6	- STRESSED ROCK, GOUGE SLIPS & BROKEN ROCK WITH HEALED GOUGE SLIP PLANES 25 - 35° TO CA.																			
			73.0 73.5	STRESSED ROCK WITH SLIP PLANES. 45° TO CA																			
			76.5	GOUGE CRUSHED ROCK & HEALED GOUGE 10 cm 60° TO CA.																			
			84.5 - 84.7	STRESSED ROCK GOUGE, HEALED GOUGE, SLIP PLANES & PYRITE VEINS CARBONATE VEINS AT 40 - 45° TO CA.																			
			89.9 - 90.1	STRESSED ROCK, GOUGE & HEALED GOUGE 30 - 35° TO CA																			
			107.7 - 109.7	APHANITIC BLACKISH - AND LIGHT TAN COLORED ROCK PROBABLY HORNBLENDE - FELDSPAR PORPHYRY, TAN SECTIONS BLEACHED ALONG FRACTURES AND MAY BE CHIEFLY POTASSIC AS WELL ?? SECTION DOES NOT STAIN.																			
	133.3	147.6	PPHM V. SEDS ?	2	S				3					VVW	M	M.			W		M/S		M.
				MAINLY APHANITIC TO VERY FINE GRAINED MAIN PHASE PORPHYRY OF VARIOUS COLORS FROM BLACKISH TO TAN TO SALMON PINK, AND LIGHT GREENS. COLOR VARIATIONS DUE TO BLEACHING, ALTERATIONS OF POTASSIC SLIGHT AND STRONG HEMATITIC TO WEAK TO NO HEMATITE ALTERATIONS. CYPSUM VEINING IS																			

DRILL HOLE NO. 95 -

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 165
Logged By: J. DEIGHTON
Date: JULY 9/85

Graphic Log (m)

80
90
100
110

PP/HM 25/30

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				MODERATE SILICIFICATION WITH A FRACTURE N/S° TO CA. PINKISM TO STAINING ON FRACTURES AND SOME SLIGHT POTASSIC ALTERATION. VERY SLIGHT ALTERATION TO ARGILLIC IN PATCHY STAINING. WEAK FOLIATION ALIGNMENT OF QUARTZ VEINING IN SECTION AS IS MOLYBDENITE. FRACTURE TO FAULT ONE SET OF WHICH IS MINERALIZED NOTED ON ONE FRACTURE SURFACE																		
				BANDING NOTED IN SECTION AT ~ 40° TO CA. CALCITE VEINING ALSO IN SECTION, AS IS CALCITE VEINING ALONG FRACTURED PLANES AT ~ 30° TO CA.																		
			136.14	137.0 FAULT & FAULT BRECCIA. SILICIFIED ROCK HEALED FAULT 50° TO CA.																		
	147.6	150.1	PBRM	A	S	2	M		2					S	M		S	W	W			W
				FAULT BRECCIA WITH STRONG QUARTZ VEINING TO ALMOST A QUARTZ VEIN ASSOCIATED AND FAULTED WITH SHARP INCLUSIONS OF WALL ROCK RANGE OF STRENGTH & AMOUNT OF QUARTZ. THIS SECTION IS GIVEN A HIGH RATING BUT ON COMBINED CONTENT AND QUALITY CONTENT IT DESERVES A LOWER ALTERATION) SECTION START BUT ON 10 CM OF GOUGE AND HEALED SILICIFIED ROCK WITH SLIP PLANES AT 55° TO CA. SECTION ENDED ON SLIP PLANE OF SILICIFIED ROCK WITH CRYSTAL CALCITE VEINING 45° TO CA. ONE 10 CM SHEAR OCCURS IN CENTRE OF SECTION AT 50° TO CA.																		

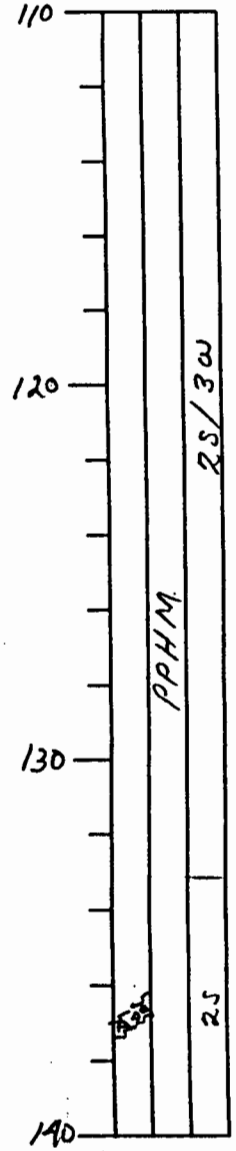
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 165
Logged By: J. DEIGHTON
Date: JULY 9/95

Graphic Log (m): 110, 120, 130, 140 — PPHM — 2S/3W — 2S



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	150.1	207.65	PPHM	2	S	3	W		3		<1%		VW	S	M	T	VW	W	VW	M		W

V. SEDS?

changed to USED JRD DEC '95

APHANITIC TO VERY SLIGHTLY PORPHYRITIC MAIN PHASE HORNBLENDE - FELDSPAR PORPHYRY. DARK GREEN - BLACK TO LIGHT GREEN TAN AND SALMON PINK - ORANGE AND BUFF COLOURS INTERMIXED AND IN SMALL ALTERATION PATCHES. COLOUR DIFFERENCES DUE TO SLIGHT ALTERATION DIFFERENCES AND TO STAINING BY HEMATITE. PINKISH COLOURS MAINLY DUE TO ALTERATION AND STAINING OF ROCK BY HEMATITE BUT MAY ALSO BE VERY SLIGHTLY DUE TO SOME POTASSIC ALTERATION ALONG FRACTURES. STAINING INDICATES SOME WEAK ALTERATION BY POTASSIC ALTERATION ALONG FRACTURES & BLOTCHY POTASSIC ALTERATION PATCHES ON ANOTHER STAINED PIECE. SECTION CONTAINS VERY WEAK QUARTZ AND CARBONATE VEINING AND WEAK PYRITE VEINING. GYPSUM VEINING VARIES FROM PLACE TO PLACE BUT IS CONSIDERED MODERATE THROUGHOUT SECTION. PATCHY ALTERATION POTASSIC, BREAKING MAYBE SLIGHT BIOTITE FRAMING IN VERY VERY FINE PATCHES OVER SMALL AREAS.

165.9 - 166.2 FAULT & STRESSED ROCK WITH GYPSUM VEINING LOW ANGLES TO 30° TO CA. SLIP PLANES.

170.0 - 171.0 FAULT STRESSED ROCK, HEALED GOUGE GYPSUM VEINING & SLIP PLANES. 45° ON UPPER SECTION 25° ON LOWER CONTACT

178.5 FAULT GOUGE & BROKEN STRESSED ROCK OVER 10 CM. 45° TO CA.

203.3 - 203.9 BRECCIA SOME MINOR SILICIFICATION OF FRAGMENTS IN BRECCIA.

DRILL HOLE NO. 95 -

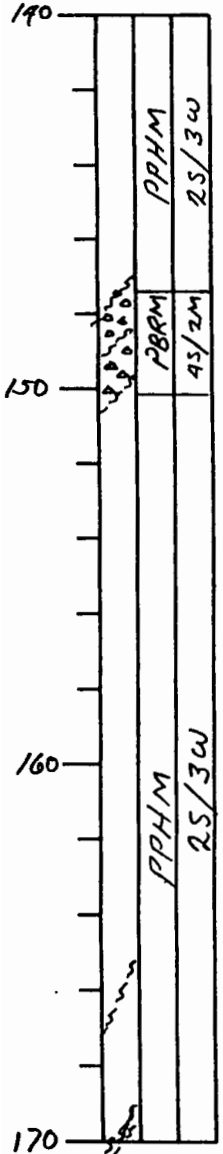
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 165
Logged By: J. DEIGHTON
Date: JULY 10/95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	207.65	208.4	DQCA.	2	S				O						M	M				W	W		W

DYKE IS DARK GREEN TO LIGHT GREEN IN COLOR HAVING BANDED CHILLED MARGINS FM UP TO 7-10 cm. SMALL ROUNDED AMYGDULES FILLED WITH CALCITE AND CUT BY OCCASIONAL CARBONATE AND GYPSUM VEIN. UPPER CONTACT 55° TO CA ON FRACTURE PLANE LOWER CONTACT 25° TO CA ON FRACTURE WHICH MAY BE SLIP PLANE. THE DYKE DOES NOT CONTAIN ANY SULPHIDE MINERALIZATION.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	208.4	214.9	PBRM	3	M	1	W		7					W	S	M				W	M		W

MAIN PHASE BRECCIA, ROUNDED TO SUB ROUNDED FRAGMENTS FROM mm TO 2 cm ACROSS WEAKLY TO MODERATELY ALTERED TO POTASSIC OR STAINING SOME FRAGMENTS AND SOME MATRIX PIECES. POTASSIC ALTERATION APPEARS TO BE PATCHY IN BRECCIA THAT IS MAINLY STRONGLY SERICIDIZED AND CLAY ALTERED. SOME SLIGHT SILICIFICATION PATCHES OCCUR LOCALLY IN THE BRECCIA AND ARE FRAGMENTS ?? WEAK GYPSUM AND CARBONATE VEINING OCCUR THROUGHOUT. SOME VEINING IS SEEN TO CUT FRAGMENTS BEFORE THE BRECCIATION TOOK PLACE. PYRITE OCCURS AS PART OF THE MATRIX OF THE ROCK.

209.4 - 209.55 DYKE OF DQAC? FAULTED AND VEINED BY GYPSUM 45° TO CA.

DRILL HOLE NO. 95 -

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

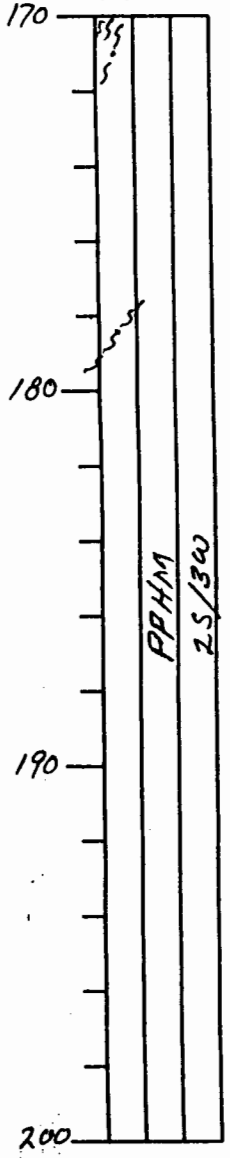
GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 165
Logged By: J. DEIGHTON
Date: JULY 10/95

Graphic Log (m): 170, 180, 190, 200

PPHM 2S/3W



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	214.9	217.8	DQAC	2	M										M	W				W	W		S

DARK GREEN AMYGDALE DYKE WITH WEAK COOLING ALONG EDGES FOR ~ 5-10 CM. CUT BY GYPSUM AND CARBONATE VEINS, AMYGDALES 1-2 MM ACROSS AND FILLED WITH CARBONATE. COAST FELDSPAR AND HORNBLENDE OR PYROXENE PHENOCRYSTS APPEAR TO BE IN THE INITIAL STAGES OF FORMING BUT THE DYKE IS ESSENTIALLY APHANITIC IN CHARACTER. NO SULPHIDE MINERALIZATION IS FOUND WITHIN THE DYKE. THE DYKE IS WEAKLY ALTERED TO SERICITE & CLAY. UPPER CONTACT 35° TO CA. ON A FRACTURE. LOWER CONTACT 25° TO CA ON AN IRREGULAR SURFACED FRACTURE.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	217.8	219.35	PPHM	1	M	2	W		3						S	M					M		M

V. Seds?

DARK BROWN TO PINKISH ORANGE APHANITIC TO FINE GRAINED FELDSPAR HORNBLENDE PORPHYRY THAT HAS BEEN STRONGLY TO MODERATELY ALTERED TO THE POTASSIC STAGE. SOME SHORT SECTIONS OF BRECCIATION SEEN IN THE SECTION. THE PORPHYRY IS CUT BY MODERATE GYPSUM VEINS AND WEAK CARBONATE VEINING. SULPHIDES ARE BETWEEN 2-3 % AND VIRTUALLY ALL PYRITE. PYRITE TAKES ON A CHALCOPYRITE COLOR WHICH MIGHT BE DUE TO ACID DEVELOPMENT ON CRUSHING OF GYPSUM BY DRILLING & THIS WASHING. PYRITE VEINING IS ALSO NOTED BUT IS WEAK. THE 1ST 20-30 CM OF SECTION BROKEN & WELL FRACTURED.

Changed to USED JRD DEC '95

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	219.35	220.5	DQCA	2	M				0						M	W				M			M

AS DESCRIBED FROM 214.9 - 217.8. DYKE IS HIGHLY CARBONACEOUS. UPPER CONTACT 60 TO CA. LOWER CONTACT ~40° TO CA. LOWER FRACTURE WITH GYPSUM.

DRILL HOLE NO. 95 -

Page 7 of 12

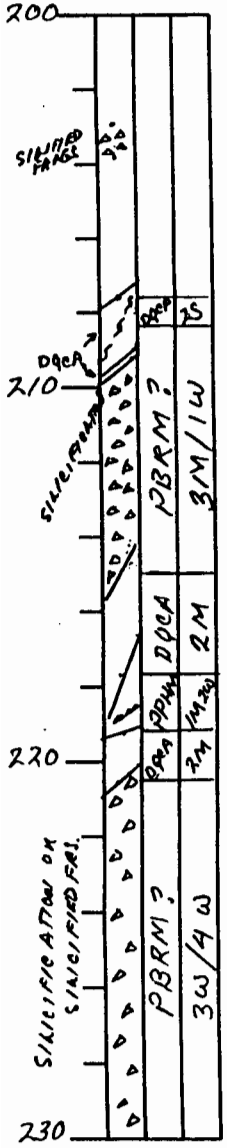
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 165
Logged By: J. DEIGHTON
Date: MAY 10/95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alt. Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	220.5	245.65	PBRX ?	3	W	M	W		6				W	M	M	M	T	VW/M	W/M	W	M		W
																		SILICIFICATION'S NO QUARTZ VEINS.					
				HOLOCRYSTALLINE - FELSITIC GROUNDMASS. ABUNDANCE OF MAIN PHASE. THE FRAGMENTS ARE GENERALLY ANGULAR TO SUBANGULAR FRAGMENTS. FRAGMENTS ARE GENERALLY ROUNDED TO SUB ROUNDED AND FROM 1MM TO SEVERAL CM ACROSS. AND MAY BE UP TO ±10 CM ACROSS. MATRIX COMPOSED OF ALTERED ROCK ALTERED TO VARIOUS SHADES AND IMPREGNATED WITH PYRITE ONLY RARELY WAS ANY CHALCOPYRITE SEEN. THE BRECCIA IS GENERALLY WEAKLY FRACTURED AND IS VEINED BY MODERATE GLASSY STOCKWORK VEINS 1-3 MM IN WIDTH. THE BRECCIA HAS A BLOTCHY APPEARANCE AND OFTEN VARY FROM DARKNESS TO PINKY BANDS, LIGHT AND DARKER BANDS, VARIOUS SHADES OF GREY. SOME OF THE SECTIONS MAY NOT ACTUALLY BE A BRECCIA BUT VARIABLY ALTERED THUS GIVING IT A BLOTCHY APPEARANCE WITH ALTERATION AND OR BLEACHING TAKING PLACE ALONG FRACTURES. SILICIFICATION OF SILICIFIED FRAGMENTS ARE FOUND IN THE BRECCIA STAINING OF THE BRECCIA SHOWS POTASSIC ALTERATION WITH ALTERATION OCCURRING ALONG OR ADJACENT TO SOME FRACTURES OR INCORPORATING SOME BLOTCHY SECTIONS WITHIN THE MATRIX OF THE BRECCIA. SECTIONS WITHIN THE BRECCIA ARE CUT BY W TO STRONG PYRITE - SILICIFICATION IN SOME CASES IN WHICH OR LESS UNIDIRECTIONAL AT 50° TO C.A. ACTION AXIAL VEINLETS ARE NOT FILLED TO VEINLETS ARE REMARKED MINERALIZATION) BECAUSE OF SILICIFICATION OR SILICIFIED SECTIONS THE BRECCIA COULD BE PUT INTO A HM CATEGORY BUT IT DOES NOT HAVE STRONG CHALCOPYRITE THE HIGH ORY TO PYRITE RATIO OR HIGH MAGNETITE/HEMATITE. THUS IT IS GIVEN A WEAKER ALTERATION																								

DRILL HOLE NO. 95 - [ ]

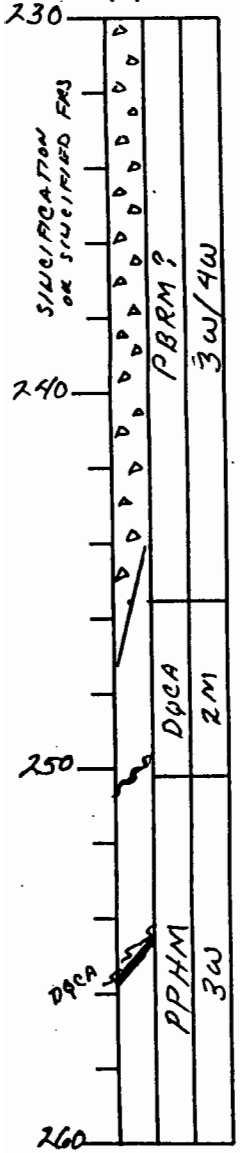
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 165
Logged By: J. DEIGHTON
Date: JULY 10/95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	245.65	250.3	DQAC	2	M				0						S	M				W	W		W
				LIGHT TO DARK GREEN APHANITIC AND SLIGHTLY AMYGDOIDAL DYKE AS DESCRIBED 214.9 - 217.8 DYKE IS HIGHLY CARBONACEOUS IN DARKER SECTIONS. UPPER CONTACT 20° TO CA ON IRREGULAR FRACTURE. LOWER CONTACT HEALED BUT WAVY SURFACE 45° TO CA.																				
	250.3	276.0	PPHM ?	3	W				3						S	M		VW	W	W	W		W
			V. Seds:	LIGHT GREY TO MEDIUM GREY WITH SLIGHT GREENISH TINGE OCCASIONALLY PORPHYRITIC HORNBLENDE FELDSPAR PORPHYRY WITH A VERY WEAK MOTTLED TEXTURE WITH SERICITE KNOTS WEAKLY FORMING AROUND PYRITE CRYSTALS OR CLUSTERS AND OCCASIONAL SERICITE FRACTURES. THE FELDSPAR PHENOCRYSTS ARE ALTERED TO VARIOUS DEGREES TO SERICITE. FRACTURING IS GENERALLY WEAK AS IS CARBONATE AND GYPSUM VEINING PYRITE VEINING IS WEAK. THE ALTERATION INTENSITY AND COLOR OF THE PORPHYRY TEND ONE TO THINK THAT THIS MIGHT POSSIBLY BE LATE PHASE PORPHYRY. A PORTION OF SECTION IS APHANITIC IN CHARACTER AND HAS BROTCHY ALTERATION PATCHES MENTIONED PREVIOUSLY AND SHORT SECTIONS OF BRECCIA.																					
			255.12 -	SHEAR GOUGE ZONE WITH 10 CM OF DQAC DYKE IN SHEAR AND BRECCIATED & BROKEN ROCK WITHIN THE DYKE AND IN THE ADJACENT ROCK WITH SOME HEALED SHEAR MATERIAL SLIP PLANES 45° TO CA																				
				PATCHY POTASSICALLY ALTERED SECTIONS OCCUR WITHIN THE APHANITIC PORTIONS OF THE SECTION. SECTIONS OF APHANITIC PORPHYRY AND FINE GRAINED TO PORPHYRITIC PORPHYRY GRADE INTO ONE ANOTHER OR ARE FOUND ON FRACTURE PLANES. SOME STRONG MOTTLED TEXTURES OCCUR IN SOME SECTIONS. APHANITIC AND FINE GRAINED COLORS VARY TO BROWNS & LIGHT GREENS & TANS.																					

CONTINUED

DRILL HOLE NO. 95 -

Page 9 of 12

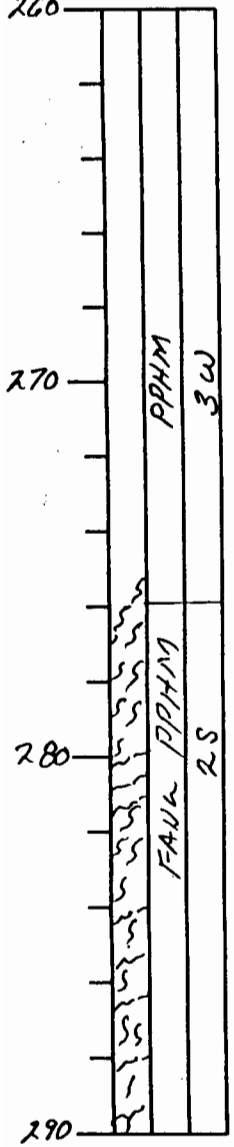
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 165
Logged By: J. DEIGHTON
Date: JULY 10/95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	276.0	291.1	FAUL PPHM	2	S				3						S	M.			W	W	W		S

LIGHT TO MEDIUM GREY PORPHYRITIC HORNBLENDE FELDSPAR PORPHYRY THAT HAS BEEN SHEARED TO VARIOUS DEGREES IN SECTION. PORPHYRY HAS BEEN ALTERED TO SERICITE AND CLAY MINERALS WITH NOT ALL OF THE FELDSPAR PHENOCRYSTS COMPLETELY ALTERED TO SERICITE. PYRITE IS MAINLY DISSEMINATED PYRITE BUT THE OCCASIONAL VEINS OCCURS THROUGHOUT. WEAK GYPSUM AND CARBONATE VEINING IS PRESENT WITH MORE CARBONATE VEINS THAN GYPSUM VEINS. LIGHT APPLE GREEN ALTERATION PATCHES UP TO 15 CM IS NOTED IN SECTION OF SHEARING. SHEAR GOUGE ZONES AND STRESSED ROCK ZONES VARY IN SIZE AND INTENSITY WITH THE LONGEST INTENSELY SHEARED & STRESSED ROCK BEING 2 1/2 M LONG. SLIP PLANES VARY FROM 30° TO 60° TO CA. SECTIONS OF RELATIVELY UNSTRESSED OR NON STRESSED ROCK OCCUR WITHIN THE SECTION. AND ARE UP TO 60 CM IN CORE LENGHT AND OCCUR NEAR BOTTOM OF SECTION GENERALLY. SECTIONS OF UNALTERED CORE AFTER MID POINT AND SOME BEFORE APPEAR TO BE LATE PHASE PORPHYRY RATHER THAN MAIN PHASE. I LEAN TOWARDS THIS BEING COMPOSED ESSENTIALLY OR PRIMARILY OF LATE PHASE PORPHYRY.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	291.1	318.9	PPHL	2	S				2-3						S	M.		VW	VW	VW			W

LIGHT TO MEDIUM GREY HORNBLENDE FELDSPAR PORPHYRY WITH LEUCE BUT FUZZY EDGED FELDSPAR PHENOCRYSTS. FELDSPARS UP TO 5mm IN SIZE AND IN VARIOUS STAGES OF ALTERATION TO SERICITE BUT NOT TURNING TO APPLE GREEN STAGE. HORNBLENDE PHENOCRYSTS COMPLETELY ALTERED TO CLAY MINERALS. FELDSPARS APPEARS FUZZY GHOST LIKE IN LIGHT TO DARKER MATRIX WITH 2-3% DISSEMINATED PYRITE. WEAK [illegible] AND ONE QUARTZ VEIN OCCURS IN SECTION.

DRILL HOLE NO. 95 -

Page 10 of 12

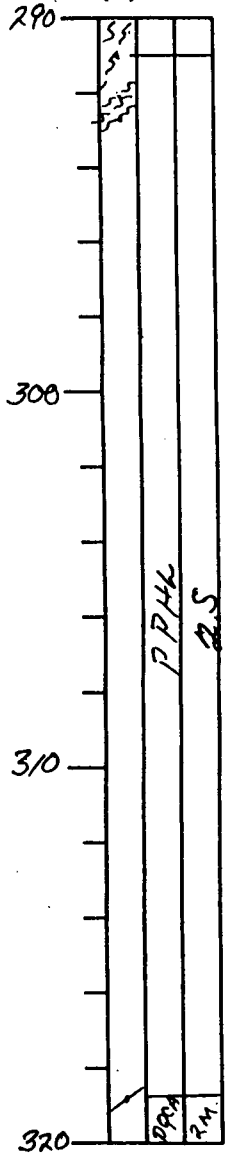
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 165
Logged By: J. DEIGHTON
Date: JULY 10/95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				292.1 - 292.7 SHEARED, GOUGE AND STRESSED RX WITH WEAK CARBONATE VEINING. AND SOME [illegible] 40° TO CA.																			
	318.9	325.25	DQAC.	2	M				0						S	M.			W	W			W/M
				LIGHT GREEN TO LIGHT GREY WITH GHOST RESIDUAL HORNBLENDE OR PYROXENE PHENOS UP TO 3 mm LONG IN AN APHANITIC GROUNDMASS. AND IN SPOTS GHOST PHENOS OF FELDSPARS ?. PHENOS INDISTINCT OUT UP TO 5 mm LONG WITH RAGGED FUZZY EDGES. PHENOS COMPLETELY ALTERED TO CLAY & SERICITE MINERALS. MATRIX SOFT AND ALTERED TO CLAY & SERICITE																					
	325.25	343.51	PPHL.	2	S	3	W		3						S	M			W	W			W
				LIGHT TO MEDIUM GREY HORNBLENDE - FELDSPAR PORPHYRY. AS DESCRIBED 291.1 - 318.9 m. WEAK CARBONATE VEINING. SOME VEINS WITH SPHALERITE AND GALENA AND SIDERITE? OVER .4 m SECTION. 7 CARBONATE VEINS FROM 2 TO 1.3 cm IN WIDTH. ~ 55° TO CA																					
	343.51		END OF HOLE																				

DRILL HOLE NO. 95 -

Page 11 of 12

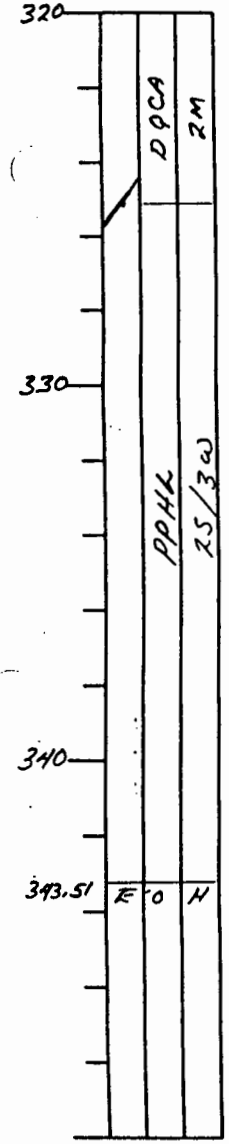
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 165
Logged By: J. DEIGHTON
Date: JULY 10/95

Graphic Log (m)



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

DRILL HOLE NO. 95 - ____

Page 12 **of** 12

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 166

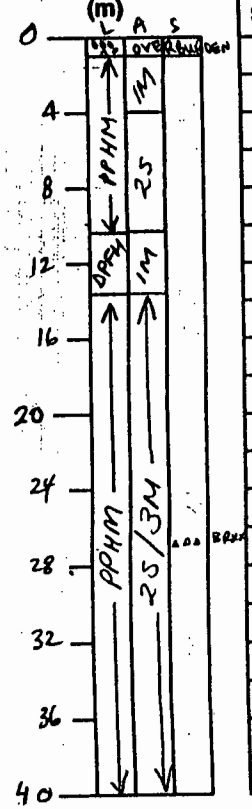
AMERICAN BULLION MINERALS LTD.

Location Sketch (N)

Grid Northing (m):	99900 N	**Date Started:**	JULY 9/95
Grid Easting (m):	49550 E	**Date Completed:**	July 15/95
Elevation (m):		**Logged By:**	J. DEVLIN/A. FRASER
Total Length (m):	514.20 m	**Date Logged:**	July 10/95
Casing Depth (m):	2.44 m	**Data Entry:**	
Reduction Depth:	—	**Entry Date:**	
Collar Core Size:	HQ	**Casing (In/Out):**	Out

Survey	Depth	Azimuth	Dip
0	0	180	-60°
1	157.58	173 1/2	-62 1/2°
2	309.98	178 1/2	-64°
3	508.10	182.5°	-63°

Graphic Log



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	0	0.7	OVER.		OVERBURDEN																	
	0.7	4.0	PPHM?	1	M				1		T	M	M									S
				DARK GREEN HORNBLENDE - FELDSPAR PORPHYRY DYKE. HIGH IN MAGNETITE AND HIGHLY POTASSIC ON STAINING. DYKE IS A PORPHYRITIC ROCK WITH FELDSPARS AND HORNBLENDE PHENOCRYSTS OXIDIZED. ALMOST AXIAL TO VERY FINE GRAINED ON STAINING QUITE MATRIX STAINS POTASSIC. THIS MAY NOT BE DPFM BUT BECAUSE OF MAGNETITE OF PPHM BUT BECAUSE IT IS DPFM																			
	4.0	10.4	PPHM	2	5				2		T			S	M		VW	M	M			S
				LIGHT GREY ALMOST APHANITIC TO FINE GRAINED HORNBLENDE — FELDSPAR PORPHYRY DYKE. ALTERED TO SERICITE AND CLAY WITH MINERALS QUITE VEINED BY CHLORITE AND PYRITE VEINLETS. MANY HAVE BEEN SILICIFIED & ALL FRACTURES ARE OXIDIZED. IT DISPLAYS SOME OF ROCK ROCK IS WELL CONTACTS W OF REST																			

DRILL HOLE NO. 95 - 166

Page 1 of 12

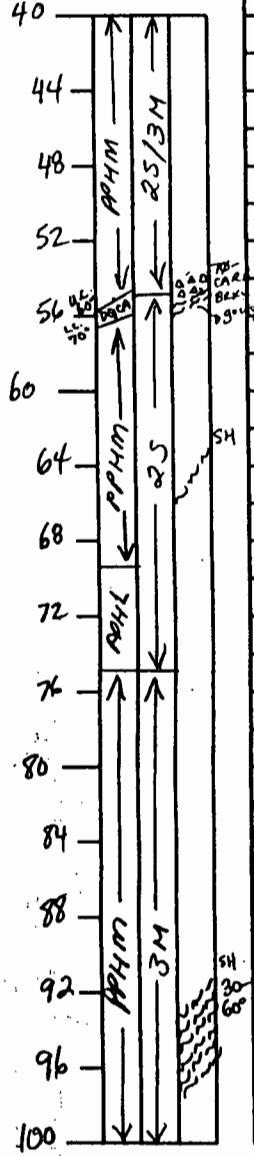
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 166
Logged By: J. DEVLIN
Date: MAY 4/95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	10.4	13.72	APHM	1	M				Z		T	M	M	W	W							

DARK GREEN APHANITIC HORNFELSED - FELSITIC MATRIX AS DESCRIBED IN
0.1 - 0.0 M. HIGHLY MAGNETIC + WEAK FRACTURED & MYRMEKITIC WITH FINER
1-2% DISSEMINATED PYRITE. FELSITIC ON BROKEN ROCK AS OXIDIZED
COMPLETE COATING ON VEINS WHERE MAGNETIC. WHERE ALSO RE-FRACTURED & PARTIALLY ALTERED APHM CUT DO NOT REACT CO. BECAUSE OF
MAGNETITE COATING. TRACE OF HEMATITE SEEN AS MINOR SPECKS IN
CUT CORE

	13.72	55.2	PPHM	2	S	3	M		3		T		W	S	S	T-W	VW	W	W			S

ROCK EXTREMELY OXIDIZED. ROCK OXIDIZED TO DEPTH OF 61 M. GYPSUM
VEINING NOT NOTED, QUARTZ VEINING VERY WEAK, CARBONATE VEINING WEAK
ROCK WAS FRACTURED AND BROKEN MAY HAVE FAULTING IN SECTIONS OF
EXTREME FRACTURING BUT BECAUSE OF EXTENT OF OXIDATION FAULTING IS
HARD TO NOTE EXCEPT WHERE GOUGE WAS SEEN. GROUNDMASS IS LIGHT TO
MEDIUM GREY IN COLOR WITH A SLIGHT MOTTLED TEXTURE AND WEAK
SERICITE FRACTURES OCCASIONALLY CERUSITE, MOTTLING CAUSED BY SERICITE
KNOTS FORMING AROUND PYRITE CRYSTALS TO CRYSTENS. OTHER SECTIONS OF
ROCK SLIGHTLY WEATHERED IN ALTERATION AND DOES NOT SHOW MOTTLED
TEXTURE AND MAY BE A LIGHT BROWN TO BROWN COLOUR. SOME SECTIONS
OF CORE A BROWNISH-ORANGE COLOR BECAUSE OF HEMATITE STAINING
AND/OR SLIGHT POTASSIC ALTERATION. CONTAINED IN STAINING WITH
MATRIX OF PORPHYRY STAINS IN PATCHES BUT DOES NOT CONTRAST THE
FELDSPAR PHENOCRYSTS. POTASSIC ALTERATION ALSO APPEARS TO BE PATCHY
IN NATURE.

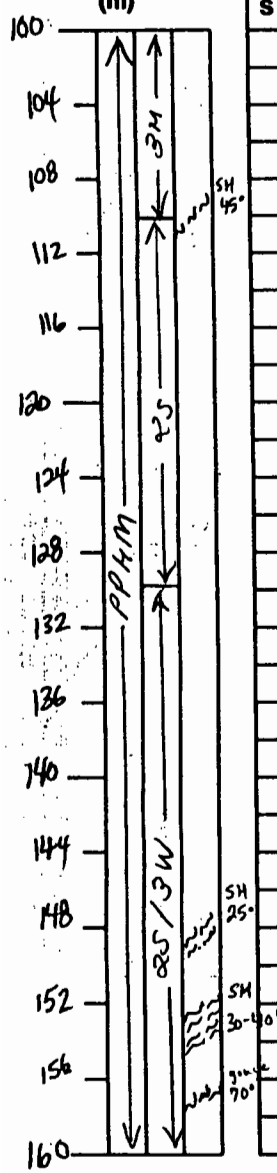
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 166
Logged By: J. DEIGHTON
Date: JULY 11/95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
			26.92	- 27.35	BRECCIA SECTION																		
			54.5	- 55.2	TOURMALINE & CARBONATE VEIN BRECCIA CEMENTING FAULTED & GOUGED MATERIAL																		
			55.2	- 55.3	FAULTED & GOUGED DYKE MATERIAL DQCA ? AT 60° TO CA.																		
	55.2	56.05	DQCA	2	S										S	M.				W			S
				LIGHT TAN TO LIGHT GREY IN COLOUR APHANITIC DYKE WITH A FEW AMYGDULES FILLED WITH CALCITE. A WEAK SERICITE / TOURMALINE FRACTURE SYSTEM CUTS THE ROCK. ROCK IS STRONGLY CALCAREOUS, AND WEAKLY VEINED BY CALCITE. CONTACTS TO DYKE ARE BOTH FAULTS OR SHEARS. THE UPPER CONTACT SHEAR IS 15 cm WIDE AND APPEARS TO BE 60° TO CA. THE LOWER CONTACT IS A SHEAR PLANE 70° TO CA.																				
	56.05	69.75	PPHM ? (PPHL.)	2	S				2						S	M.	T-W	VW	W	W	W		S
				LIGHT TO MEDIUM GREY APHANITIC TO FINE GRAINED WEAKLY PORPHYRITIC HORNBLENDE FELDSPAR PORPHYRY. IDENTIFIED AS MAIN PHASE ONLY BY THE VERY WEAK QUARTZ VEINS OCCASIONALLY SEEN IN THE SECTION AND BY THE ALTERATION INTENSITY. IN PLACES. TOURMALINE IS SEEN IN FRACTURES IN PLACES QUITE STRONG. TRACE TOURMALINE IS FOUND THROUGHOUT THE ROCK. OCCASIONAL SERICITE FRACTURES ARE NOTED. VERY WEAK GYPSUM AND CARBONATE VEINING ARE SEEN IN THE SECTION. THIS SECTION MAY BE LATE PHASE ??																				
			65.15	5 cm SHEAR GOUGE ZONE 30° TO CA.																			

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

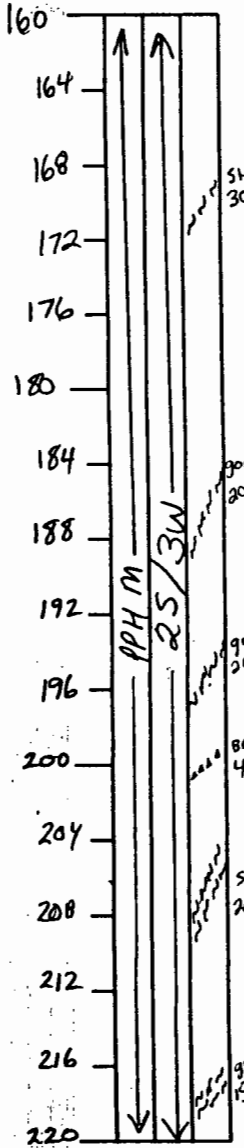
AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 166
Logged By: J. DEIGHTON
Date: JULY 11/95

Graphic Log (m): 160, 164, 168, 172, 176, 180, 184, 188, 192, 196, 200, 204, 208, 212, 216, 220

PPHM — 25/3W

SH 30°; gouge 20°; gouge 20°; BRK 40°; SH 20°; gouge 15-30°



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	69.75'	75.3	PPHL DYKE	2	S				2						S	M.			VW	VW			W
				LIGHT BROWN FINE GRAINED TO SMALL PHENOCRYST HORNBLENDE FELDSPAR PORPHYRY WERE THE HORNBLENDE AND FELDSPAR PHENOCRYSTS ARE 2-3 mm IN SIZE AND ALTERED TO CLAY AND SERICITE. SMALL KNOTS OF LIGHT APPLE GREEN ALTERATION PATCHES ARE SEEN IN CORE UP TO 1 cm IN SIZE, WERE PROMINENT THE FELDSPAR PHENOCRYSTS ARE WHITE IN COLOR AND HAVE FUZZY INDISTINCT EDGES. THE UPPER CONTACT OF THE DYKE IS A SHEARED SECTION 20 cm WIDE WITH SLIP PLANES AT 30-40 @ 45° TO CA. THE CONTACT BETWEEN THE TWO RELATIVELY INDISTINCT BUT RECOGNIZABLE DIFFERENT ROCK UNITS IS WITHIN THE SHEAR. THE LOWER CONTACT IS A WAVY HEALED FRACTURE WITHIN A SMALL SHEAR PLANE 40° TO CA. WAVY CONTACT ~ 15° TO CA.																					
	75.3	110.4	PPHM? (PPHL?)	3	M.				3		T				S	M	T	VW	M/W	W			W
				LIGHT TO MEDIUM GREY APHANITIC TO SMALL WEAKLY PORPHYRITIC HORNBLENDE - FELDSPAR PORPHYRY WITH A SLIGHT TO MODERATELY MOTTLED TEXTURE. THE PORPHYRY IS MODERATELY VEINED BY PYRITE WITH SERICITE SALVAGES. PORPHYRY PHENOCRYSTS ONLY FELDSPAR PHENOCRYSTS ARE RECOGNIZABLE AS INDISTINCT FUZZY EDGED WHITE 2-3 mm SPECKS WITHIN THE GENERAL GREYISH MATRIX																					
			92.6	-96.7 FAULT SHEARING & GOUGE, CRUSHED & STRAINED ROCK. SHEAR PLANES. 30, 45 & 60° TO CA. SHOW SECTIONS OF UNSTRESSED ROCK OCCUR WITHIN THE FAULTED SECTION.																				
			110.4	SHEAR GOUGE 45° TO CA. 5 cm WIDE - CONTACT WITH LOWER ALTERATION.																				

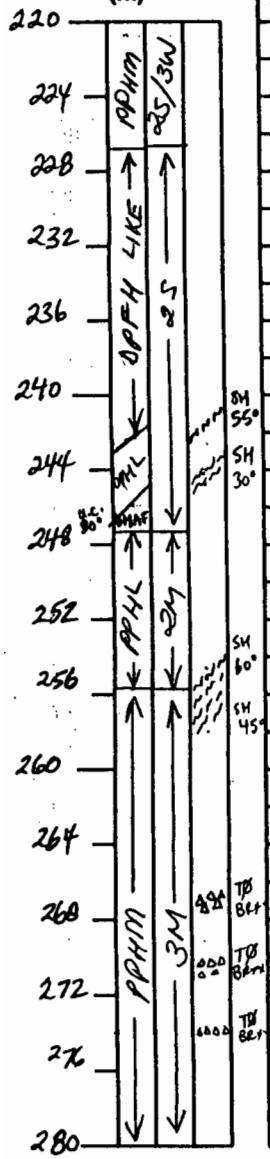
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 166
Logged By: J. DEIGHTON
Date: JULY 11/85

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	110.4	130.3	PPHM	2	S				2		W			S	M	T		W	W	VW		W/M

LIGHT BROWN TO LIGHT TO MEDIUM GREY ANKERITE TO SPARSE PINKISH-BROWN FELDSPAR PHENOCRYSTS UP TO 3 mm LONG IN DARKISH GREY SUBSOLIDUS-HYDROTHERMAL MATRIX. BROWNISH COLOUR DUE TO HEMATITE STAINING OF ROCK. NOT DUE TO POTASSIC ALTERATION (CHECKED BY STAINING) ROCK HAS DISSEMINATED AND OCCASIONAL BLACK TOURMALINE VEINLETS. WEAK PYRITE AND CARBONATE VEINLETS ARE PRESENT AND THE OCCASIONAL PYRITIC VEIN OCCURS IN THE SECTION PYRITE IS 2-3 % THROUGHOUT. W % THROUGHOUT.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	130.3	227.3	PPHM	2	S	?	(W)				(W)					T/W	(W)	W	(W)	VW		M-W

LIGHT TO MEDIUM GREY ANKERITIC TO WEAKLY DOLOMITIC HORNBLENDE FELDSPAR PORPHYRY WITH OCCASIONAL GRADATION TO PINKISH-BROWN-TAN DOLOMITIC AREAS. THE PHENOCRYSTS ARE FELDSPARS UP TO 3 mm LONG WITH IRREGULAR EDGES WITH SPARSE MOTTLED TEXTURE CAUSED BY CONCRETE FORMING AGGREGATE PYRITE CRYSTALS. SEMI-PERVASIVE ENVELOPES OCCUR AROUND SPARSE PYRITE FRACTURES AND VEINS IN SPOTS IN THE PORPHYRY. NO POTASSIC ALTERATION WAS NOTED ON STAINING EVEN IN SPOTS WHERE THE PORPHYRY LOOKED PINK IT STAINED RE POTASSIC TO SLIGHTLY POTASSIC.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
			148.4 - 149.0																			

FAULT & GOUGE CARBONATE VEIN GAUGE UP TO 10 cm OCCUR IN THE FAULT. ~~HORIZ~~ CONTACT SHEAR PLANE ~~HORIZ~~ 25° TO CA.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
			152.4 - 154.3																			

SEVERAL SMALL SHEARS WITH GOUGE AND GOUGE SHEARS UP TO 7 cm WIDE SHEAR PLANES 30°, 70° 040° TO CA.

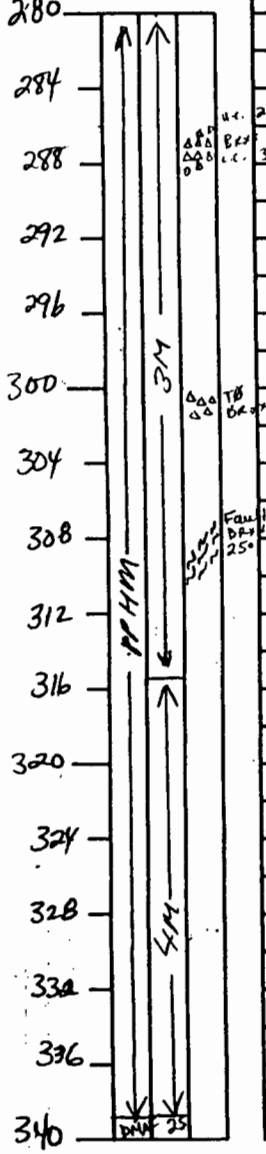
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 166
Logged By: J. DEIGHTON
Date: JULY 12/95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
			157.0 - 157.3 - GOUGE AND CRUSHED ROCK STRESSED ROCK SLIP PLANE 70° TO CA.																				
			170.9 10 CM SHEAR GOUGE & STRESSED RX SLIP PLANE 30° TO CA.																				
			183.85 - 184.75 BRECCIA FAULT CEMENTED UPPER CONTACT 40° TO CA LOWER CONTACT 20° TO C.A. HEALED TO SURROUNDING UNIT. NOT A CURRENT FAULT																				
			186.9 - 187.7 GOUGE, CRUSHED ROCK, STRESSED ROCK UPPER SLIP PLANE 20° TO CA.																				
			194.7 - 195.65 STRESSED ROCK, HEALED GOUGE & CRUSHED HEALED ROCK SLIP PLANES 20° TO CA.																				
			200.25 - 200.6 BRECCIA SECTION HEALED TO SURROUNDING ROCK LOWER CONTACT 40° TO CA.																				
			205.9 - 208 - SHEAR, CRUSHED & STRESSED ROCK WITH SLIP PLANES UPPER 20° AND LOWER 20° TO CA.																				
			213.8 15 CM OF [illegible] HEALED ON [illegible] SLIP PLANE WHICH IS ALSO HEALED TO SURROUNDING ROCK @ 20° TO CA.																				
			217.5 - 218.2 BROKEN RX WITH GOUGE SLIP PLANES 15 & 30° TO C.A.																				
			219.5 - 223.5 BROKEN ROCK WITH LARGE SECTIONS OF COMPETENT ROCK AND SMALL SECTIONS OF GOUGE SLIP PLANES 70° 15° AND UNDETERMINED ANGLES.																				

DRILL HOLE NO. 95 - 166

Page 6 of 12

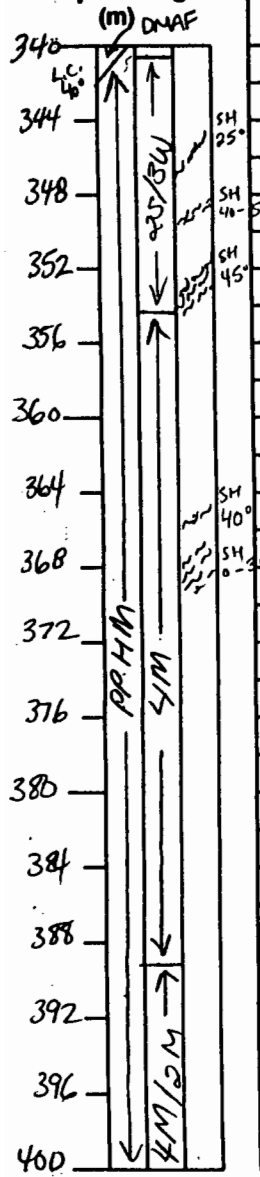
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 166
Logged By: J. DEIGHTON
Date: JULY 12/95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
			226.2	-226.5	BRECCIA	FAULT	HEALED	+ CEMENTED	& RE	BROKEN	CONTACT	EDGES	ARE										
				HEALED @ 60° TO CA.																			
	227.3	242.95	DPFH LIKE	2	S				2						S	M	1%			W			W
				NOT DPFH BUT LOOKS LIKE DPFH IS A DYKE THOUGH WITH A ASSIMILATED CONTACT ON UPPER SIDE AND A SLIP PLANE CONTACT ON LOWER SURFACE AT 55° TO C.A. DYKES IS A CROWDED HORNBLENDE FELDSPAR PORPHYRY WITH WHITE ANHEDRAL FELDSPAR PHENOCRYSTS IN A DARKER MATRIX OF APHANITIC MATERIAL THAT HAS TURNED TO SERICITE + CLAY. FELDSPAR PHENOCRYSTS AND NOT COMPLETELY ALTERED TO SERICITE GOAST HORNBLENDE PHENOCRYST ARE SEEN OCCASIONALLY AND ARE COMPLETELY ALTERED TO CLAY MINERALS. 1-2% PYRITE IS DISSEMINATED THROUGH OUT THE DYKE. THE COLOR OF THE DYKE VARIES FROM LIGHT GREEN TO GREY TO BROWNISH TAN. MOST OF BROWNISH COLOR DUE TO STAINING OF FELDSPARS & MATRIX BY HEMATITE HEMATITE ALTERATION NOTED IN CORE OF PYRITE. THE DYKE IS CUT BY WEAK CARBONATE VEINING AND IS WEAKLY FRACTURED. TOURMALINE OCCURS DISSEMINATED THROUGHOUT THE PORPHYRY UP TO 1%. NO QUARTZ VEINING OCCURS. VERY OCCASSIONAL SMALL SPECKS OF A BRIGHT METALLIC MINERAL SEEN WHICH MIGHT BE MAGNETITE?																						
	242.95	245.9	PPHL	2	S				3						S	M	T			VW			W
				LIGHT TO MEDIUM GREY TO SLIGHTLY GREENISH TINT SALT & PEPPER APPEARING HORNBLENDE - FELDSPAR PORPHYRY. THE PORPHYRY IS FAIRLY CROWDED WITH WHITE FELDSPAR PHENOCRYSTS UP TO 5mm LONG. THE PORPHYRY CAN APPEAR TO BE A CROWDED PORPHYRY IN PLACES. THE FELDSPAR PHENOS ARE ANHEDRAL IN SHAPE AND PREDOMINATE THE PORPHYRY. FELDSPARS ARE NOT COMPLETELY ALTERED TO SERICITE - HORNBLENDE PHENOCRYSTS ARE ALTERED																						

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 166
Logged By: I. DEYCHTON
Date: JULY 12/95

Graphic Log (m): 400, 404, 408, 412, 416, 420, 424, 428, 432, 436, 440, 444, 448, 452, 456, 460

PPHM

4m/2M

gouge 25°

gouge 45°

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				TO CLAY MINERALS FELDSPARS STAND OUT IN A DARKER MATRIX BACKGROUND OF SERICITE CLAY AND PYRITE PYRITE CONTENT 2-4% . THE PORPHYRY IS WEAKLY FRACTURED AND ONLY THE OCCASIONAL CARBONATE VEIN CUTS THE CORE.																			
			244.4	-245.9 - SHEAR ZONE CRUSHED ROCK HEALED GOUGE AND STRESSED ROCK WITH SLIP PLANE AT 30° TO CA.																			
	245.9	247.5	DMAF?	2	S										S	M				W			M.
				PYROXENE - BIOTITE - FELDSPAR DYKE LIGHT CREAM IN COLOR AND SLIGHTLY AMYGDOIDAL. BIOTITES PYROXENES COMPLETELY ALTERED TO CLAY AND HAVE EUHEDRAL GHOST OUTLINES WHILE FELDSPAR PHENOS ARE ANHEDRAL AND NOT DISTINCT IN OUTLINE OR VISIBLE AS ARE MUCH SMALLER THAN THE 1/2-1cm BIOTITE - PYROXENE PHENOS. DYKE IS CUT BY CARBONATE VEINS BUT CONTAINS NO SULPHIDES. AMYGDULES ARE FILLED WITH CALCITE DYKE UPPER CONTACT 30° TO CA SHEAR LOWER CONTACT																			
	247.5	255.8	PPHL	2	M				3						M	W	TR.	VV W	VW	W			W
				AS DESCRIBED ABOVE FROM 242.95 - 245.9 THIS MAY ACTUALLY BE A VERY WEAKLY ALT PPHM. AS ONE QUARTZ VEIN IS SEEN JUST BEFORE END OF SECTION AND SECTION APPEARS TO GRADE INTO FOLLOWING MAIN PHASE.																			
			255.6	SMALL SHEAR. 5cm 60° TO CA.																			

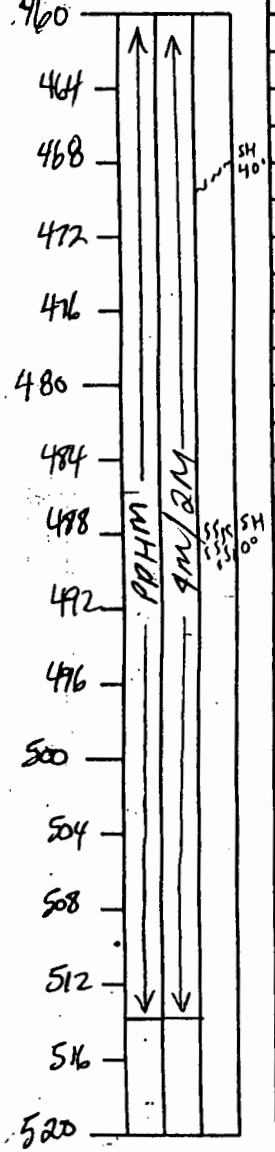
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 166
Logged By: J. DEIGHTON
Date: JULY 13/95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	253.8	315.5	PPHM	3.	M.				3		TR.			S	S	TR-W	W	M	W			W
				APPEARING TO REPLACE AND/OR FILL VUGS. TRACE GREY MOLYBDENITE ALSO OCCURS IN THE GOUGE WHICH CONTAINS ~ 2-5% PYRITE THROUGHOUT. BRECCIATED SECTIONS WITHIN THIS ZONE ARE LIGHT TO VERY LIGHT GREY COLOUR. SERICITE VEINING PROMINENT THROUGHOUT ONLY WEAK TO MODERATE SILICIFICATION IS SEEN IN AREAS OF WEAKLY VEINED ROCK BY SERICITE. BRECCIATION MOSTLY HEALED WITH ANGULAR PIECES OF ONLY SHORT SECTIONS OF GOUGE LESS THAN 1 cm. SHEARING IS NOTED IN SEVERAL PLACES IN THE SECTION																	
	257.5	258.1		S BASALT SHEARS FROM 1 TO 10 cm. 40 - 45° TO C.A.																		
	259.0			ROCK OF GOUGE & CRUSHED BROKEN AX 45 & 30° TO CA.																		
	259.5	259.6		CRUSHED & BROKEN AX 45° & 60° TO CA. SLIP MARKS.																		
	267.3	268.0		WEAKLY ORANGE BRECCIATED BY TOURMALINE SERICITE & PYRITE																		
	270.7	271.0		BRECCIATED ORANGE BY TOURMALINE SERICITE & PYRITE VEINS.																		
	271.1	271.8		3-4 cm WIDE GOUGE ZONE & AFFILIATED BROKEN ROCK PARALLEL TO SHEAR. SHEAR ~ 10° TO CA.																		
	273.8	274.2		BRECCIA CEMENTED BY PYRITE TOURMALINE & SERICITE.																		
	286.8	288.3		BRECCIA. UPPER CONTACT 25° TO C.A. LOWER CONTACT 30° TO CA. ANGULAR TO SUB ROUNDED FRAGMENTS UP TO 5 cm LONG IN A GROUND MASS MATRIX WITH PYRITE & TOURMALINE AND SERICITE.																

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 166
Logged By: J. DEIGHTON
Date: JULY 13/95

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
			301.3 - 302.2	BRECCIA CEMENTED FAULT BRECCIA. TOP CONTACT 45° TO CA. LOWER CONTACT 15° TO CA.																			
			308.2 - 309.6	FAULT BRECCIA CEMENTED BY CALCITE VEINING AND REFAULTED WITH UPPER CONTACT @ 25° LOWER CONTACT @ 10° TO CA.																			
	315.5	339.1	PPHM.	4	M			1	3-4						S	S	Tr-W	M.	M	W			W
				DARK GREY TO SLIGHTLY BUFF COLORED FINE GRAINED - FELDSPAR PORPHYRY COMPLETELY ALTERED TO SERICITE AND CLAY MINERALS AND CUT BY MODERATE QUARTZ STOCKWORK. PORPHYRY IS WEAKLY PORPHYRITIC TO APHANITIC IS CALCAREOUS IS GENERALLY WEAKLY FRACTURED AND ONLY SMALL SHEARS OCCUR OCCASIONALLY LOWER CONTACT IS A HEALED CARBONATE CEMENTED FAULT GOUGE AT 45° TO CA. MODERATE QUARTZ STOCKWORK.																				
			323.6	SMALL SHEAR 25° TO CA.																			
			322.5	SHEAR ZONE 20° TO CA. WITH MINOR GOUGE.																			
			331.5	SHEAR PLANE 30° TO CA																			
	339.1	340.9	DMAF	2	S										S	M				W			M.
				PYROXENE FELDSPAR DYKE WITH PYROXENES OR BIOTITES TO CLAY AND FELDSPARS TO SERICITE APPLE GREEN IN COLOR. WEAKLY VEINED WITH CALCITE. DYKE IS LIGHT GREEN GREY BUFF COLOR. UPPER CONTACT BRECCIATED & CEMENTED TO OVERLYING ROCK BY CALCITE VEIN BRECCIA OVER 20 cm @ 45° TO CA. LOWER CONTACT 40° TO CA. ON HEALED FRACTURE TO NARROW 5 cm CEMENTED BRECCIA																				

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 166
Logged By: J. Deighton
Date: July 13/95

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	340.9	354.0	PPHM	2	5	3	W		2					S	M		VW		W	W		

LIGHT GREEN-GREY HIGHLY PORPHYRITIC (CROWDED) AS DESCRIBED 227.3 TO 242.95 LOOKS LIKE DPFH BUT IS PROBABLY MAIN PHASE AS IT HAS THE OCCASIONAL QUARTZ VEIN PRESENT AND IT APPEARS TO GRADE IN AND OUT OF GOOD APHANITIC TO FINE GRAINED MAIN PHASE NEAR THE CENTER OF SECTION WHERE MOD TO STRONG SERICITE-PYRITE VEINING IS PRESENT. MINOR SHEARING SUB PARALLEL TO THE CORE AXIS OCCURS AT 345.8 m. WEAK GYPSUM VEINING & CARBONATE VEINING PRESENT. PYRITE CONTENT IS LOW @ ~2% DISSEMINATED PYRITE AND ONLY SMALL PYRITE VEINLETS OCCUR LOCALLY.

346.0 SHEAR & STRESSED ROCK 7 cm 25° TO CA. 2 SHEARS.

349.5 - 349.6 SHEAR GOUGE ZONE AND CARBONATE VEINS FROM 40 TO 50° TO CA.

352.65 - 354.0 SHEAR GOUGE ZONE WITH CARBONATE VEINS & SOLID ROCK CHUNKS. GOUGE ZONES FROM 1 cm TO UP TO 10 cm WIDE. UPPER SHEAR 45° TO CA. AND LOWER SHEAR AT 70° & 45° TO CA.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	354.0	389	PPHM	4	M	—	—	0.6	3	0	TR	0	0	M	0	0	Ws	W	W	0	0	W

MAIN PHASE PORPHYRY LIGHT GREENISH TINGE TO LIGHT GREY COLORED PORPHYRITIC HORNBLENDE FELDSPAR PORPHYRY. THAT HAS A SLIGHT MOTTLED APPEARANCE IN PLACES WHILE OTHERS IT HAS ALMOST LATH LIKE LINIATION TO FELDSPARS & HORNBLENDES WHERE FELDSPARS & HORNBLENDE RETAIN CRYSTAL STRUCTURE BUT ARE COMPLETELY ALTERED TO CLAY & CLEAR GREEN SERICITE.
Unit is highly porphyritic with remnant hornblende phenos that appear to be ankerite (dark) - sericite altered

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 166
Logged By: T. Fraser
Date: July 15/95

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				Plagioclase phenos are from 1-3 mm, somewhat fuzzy grain boundaries																		
				Hornblende phenos are approx 1mm - 2mm euhedral.																		
				Mineralization/Alteration - weak to moderate carbonate veining. Pyrite																		
				is disseminated and as weak veins. Trace red hematite																		
				and minor hematite staining. Trace molybdenum within																		
				qtz veins. Intensity of qtz veins increases downward																		
				from very weak to weak to moderate. Qtz veins carry																		
				disseminated pyrite and chalcopyrite																		
				Structure - 365.45 - 365.62 shear 40° to C.A.																		
				367 - 371 Sheared 0-30° to C.A.																		
				371.65 m shear plane 5-10° to C.A.																		
				383.27 - 383.62 shear/pyrite veins 70° to C.A.																		
	389.0	514.20	PPHM	4	M	2	M	0.6	4	0	TR	0	0	M	M	0	Ms	Ws	TR	0	0	M
				Lithology - Main phase plagioclase porphyry unit with 5-10% euhedral																		
				beige hornblende phenos 1-2 mm. Plagioclase phenos are subhedral																		
				and blurry boundaries. Plag grains 1-4 mm and light green																		
				to opaque white.																		
				Alteration/Mineralization - Disseminated pyrite > vein pyrite. Pyrite is																		
				also blebby. Chalcopyrite is finely dissem. and also in																		
				qtz veins. Plag phenos are dominantly kaolinite altered																		
				and locally moderately sericitized. Trace carbonate veins																		
				and carb-qtz-py ± cpy veins. Trace dissem/vein red																		
				hematite. Moderate to strong qtz veins 1mm - 1cm. Qtz veins																		
				contain dissem pyrite + cpy.																		
				Structure - 389.75 - 389.95 m DMAF																		
				407.10 - 407.52 m broken with minor gouge																		
				444 - 445.62 m gouge/SH 25° to C.A.																		
				446.7 m gouge 45° to C.A.																		
				469.25 - 469.40 m SH 40° to C.A.																		
				487.50 - 489.81 m SH with minor gouge 0° to C.A.																		

EOH 514.20 m

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 167

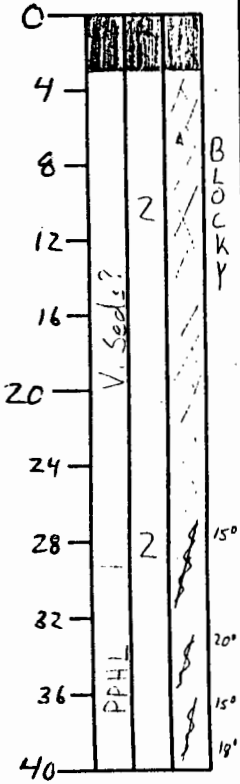
AMERICAN BULLION MINERALS LTD.

Location Sketch

Grid Northing (m):	99 700	Date Started:	July 10/95
Grid Easting (m):	48.300	Date Completed:	July 14/95
Elevation (m):		Logged By:	B Thurston
Total Length (m):	410.57	Date Logged:	July 11/95
Casing Depth (m):	3.05	Data Entry:	
Reduction Depth:	—	Entry Date:	
Collar Core Size:	NQ	Casing (In/Out):	Out

Survey	Depth	Azimuth	Dip
1	154.53	001°	-61.5°
2	306.93	008.5°	-63°
* 3	410.57	014.5°	-63°
→ Mag	30 m up section	@	
~ Vertical?	Dyke.		

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	0.00	3.05	CASN																				
P	3.05	29.35	?V.Sed	2	m			<.10	2.5	o	o		o	o	M	W	o	o	o	T	o	o	m

Lithology: Some of this core looks porphyritic (very fine grain), possibly PPHM? and ~50% looks like the aphanitic material (sed's stuff?) from the Far east of one 94-115, 94-116, 94-118 and from the hole to the NE 95-165 @ ~200+ meters. Grey to light beige in colour, the core is mod → strongly sericitized & the aphanitic sed's? stuff is v. weakly silicious. Some, <1%, carb. fracture filling is throughout. Py is diss & as diss blebs. The aphanitic material is observed as a 5cm dyklet? @ 5.3m in the very weakly porphyritic material, as well as patchy segments throughout the unit. Trace cpy diss. small bleb is observed.

Min'z:

Alt'n: Ser - Py ± Qtz (very fine). Phyllic.

Structure: * Blocky throughout w̄ gouge? or clayey material on the fractured surfaces. 7° but low angle ~25°?

* Small Breccia or fragmental units.

* L.C. w̄ PPHL is ~15° SH <1cm then ~1m of light green rock to a small 20° SH <1cm.

DRILL HOLE NO. 95 - 167

Page 1 of

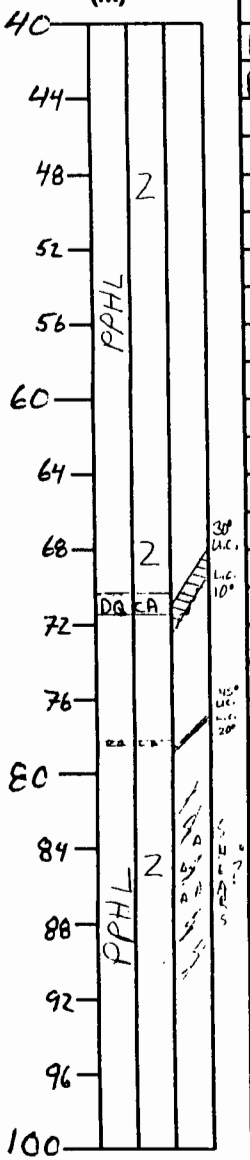
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 167
Logged By: R. Thurston
Date: July 11/95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	29.35	70.80	PPHL	2	m			<.10	2	o	o		T	o	M	W	o	o	o	T	o	o	W
P	70.80	71.80	DQCA																				
P	71.80	127.50	PPHL	2	m			<.10	2	o	o		T	o	M	W	o	o	o	T	o	o	W

Lithology: Grey to light or pale green colour to core. Well preserved porphyritic texture in both plag & (weak) mafic pheno's. This rock seems to be more crowded porphyry than usual. Rock is mod → strongly sericitized. Plag pheno's are anhedral → subhedral ~ 2 → 3mm, Mafic are very ratty & almost obliterated. Py is observed diss in patches or blebs ~ 1-2mm. Cpy is observed in carb filled shears. Carb. fracture filling / veins <1% over all. Calcite is weak → patchy Mod pervasive. Trace Bio. on fracture selvages @ U.C. area. Black diss. material ~ 72 → 76m after Dyke.

Minz:

Alt'n:

Structure: * Very little structure throughout this unit. Very homogeneous.

Dyke → * DQCA dyke cuts @ 70.8 → 71.8 m & 78.43 → 78.63 m

U.C. 30°, L.C. 10° U.C. 45°, L.C. 20°

all contacts are fairly sharp shears < 0.5cm & healed solid & competent often w/ carb. Small irregular carb. amygdaloids in beige fine grain dyke w/ grey envelopes on fractures. Carb fracture filling in dyke.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	127.50	152.30	?V.Sed	2	W			<.10	2	o	o		o	o	M	W	o	o	o	T	o	o	W-m

Lithology: Same material as 0 → 30m. Different shades of beige & grey to aphanitic unit. Partially sericitized. Mostly solid healed SH'd or B'd looking rock. * Banding is @ 38° → 40° * the same in all sections down the hole. * U.C. @ 35° is < 1cm SH., * L.C. 50 → 60° 20cm SH.

Structure:

DRILL HOLE NO. 95 - 167 Page 2 of

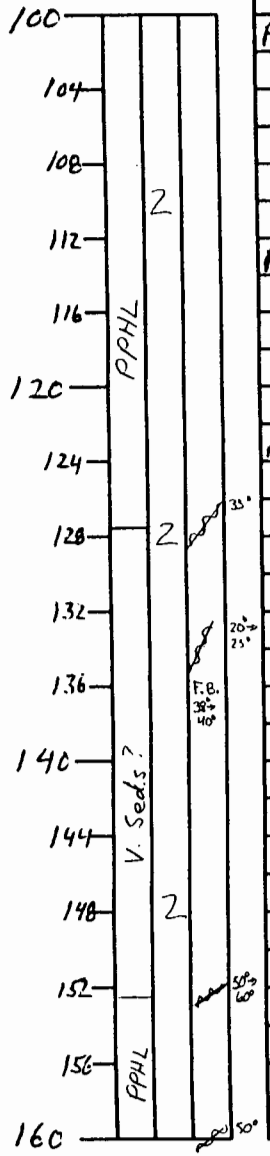
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 167
Logged By: B. Thurston
Date:

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	152.30	160.38	PPHL	2	m			<.10	2.5	o	o		o	o	m	w	o	o	T	T	o	o	W
				Lithology:				Same as PPHL 30→130m w a slightly greener (mod green)															
								overall colour. Cpy in Carb. vn?															
				Structure:				* L.C. @ 50° (same as L.C.) < 1cm SH.															
								* 45° ~5cm Bx dyhlet in unit.															
P	160.38	164.00	?V.Sed	2	w			<.10	3	o	o		o	o	W	w	o	o	o	o	o	o	S
				Lithology:				Same as 0→30m & 130→152m. Very Blocky & Porous. What															
				Structure:				has been leached out? L.C. hidden in Rubble & approx @															
								164m?															
P	164.00	195.25	PPHL	2	m			<.10	2.7	o	o		o	o	m	w	o	o	T	T	o	o	W
				Lithology:				Same as 30→130m. Slightly less porphyritic, but homogeneous															
								core.															
				Structure:				* Fault ~50cm from 166.73→167.25m all Black SH/Gouge															
								material.															
								* 20cm DQCA @ 172.62m w undulating ~65° contacts															
								* L.C. ~1cm SH @ 50°															
P	195.25	272.50	?V.Sed	2	w			<.10	3	o	T		o	o	m	w	o	o	o	W	T	o	W
				Lithology:				Same as 0→30m again. Good Banding/Foliation @ 38°→40°.															
								+1% carb. fracture filling. 216.5m															
				Structure:				* Section (w possible U.C. ?°C & L.C. @ 220m @ 50° SH.) of core															
								that when wet looks Identicale to other core but when															
								dry shows off Qtz Fragment pheno's?. Small mostly angular															
								Qtz fragments 2→5mm are ~2% of the Rock. Never seen															
								this Here before. Wondering if it is a breccia? → Breccia-like.															
								* 43° SH over 80cm @ 232.4m.															
								* Overall unit is SH'd & brecciated to some degree.															
				~241.55→265m				is very fine grain (Aphanitic) beige to Gray Green (Dark) rock. U.C. 50°→30° L.C. 40°→45°															

DRILL HOLE NO. 95 - 167

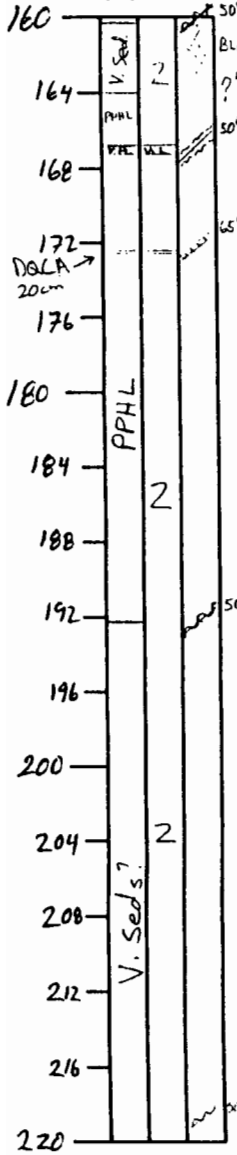
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 167
Logged By: B. Thurston
Date: July 13/95

Graphic Log (m)



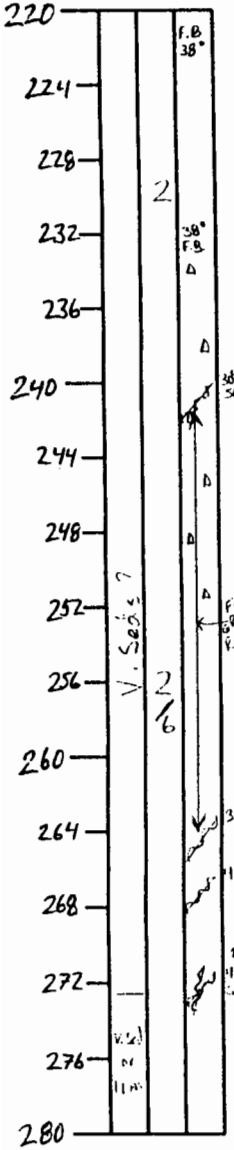
P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				Structure:			*	Brecciated silica frags 233 → 252m															
							*	267m 50cm SH'+Gouge @ 40°→45° then fract'd, SH'd to L.C. @ 272.5m															
								where 30cm F/gouge @ 40° & 25°.															
P	272.50	288.35	PPHM?	2	m			.4	2	o	<1		o		M	W	o	T	T	T	o	T	T
				Lithology:			272.5 → 279m is Sed's looking light green to beige w̄ very aphanitic																
				Minz:			SH'ed fragment looking patches but porphyritic texture is rarely observable																
							∴ PPHm? 279 → 288.35m is Dark green to light green almost beige & very																
							good but blurry porphyritic texture observable in first 5m. Homogeneous																
							section. Qtz veins occure w̄ carb cores. usually veins ~3mm.																
							Py is mainly diss. Cpy is diss on Py fractures.																
				Alt'n:			Ser, Py, Qtz W → M Phyllic. Hematite veins from 272 → 279m ~10°																
							w̄ carb. Chloritic? mafics. Calcite is T or Non-existent pervasive.																
				Structure:			* first Sed's part is weakly SH'd or Bx'd looking, Solid core																
							* Second part Homogeneous Solid core.																
							* L.C. is ambiguous but 2 Undulating 10° SH's make a possible cut off.																
P	288.35	312.40	V. seds?	2	w			.30	2	o	T		S		W-M	W	o	T	o	T	o	o	W
				Lithology:			Seds? or PPHM? Loss of porphyritic texture. Trace Qtz + Carb. veins.																
				Minz:			Homogeneous looking core. Wierd alteration patches. Biotite is																
				Alt'n:			in matrix from 296 → ~304m making core a dark brown colour.																
							Carb/Calcite is <1% as fracture filling & has cpy on some fractures.																
							Calcite is Trace to non existent pervasive. Py is diss & less on fracts.																
							He is trace in late carb veins. Sericitization.																
				Structure:			* minor sh'ing w̄ beginning.																
							* 45° structures throughout																
							* L.C. SH'ed & Green colour, possible 45° contact <0.5cm fract/SH.																

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 167
Logged By: B. Brewster
Date: July 13/95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Mag	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
P	312.40	374.87	FFHM	G	S			.6C	2	c	T		S	S	m	w	c	m	T	T	c	T	W	
				Lithology: Various shades of brown & beige depending on hi content. Some sections have 0.5-1% Py & hi-spec. Still small fragments of V. Seds? Usually in <5cm breccia zones. Qtz-Sericite is usually w→strong & irregular boundaries & very dark to almost black. Hi dens Qtz veins & fx & cpy ± Carb fx veinlets & fractures < 1cm cpy dissem & Qtz veins. Rock looks sheared throughout & in places loses porphyritic texture & looks like (V. Seds?).																	
				*				~364.4m 60° breccia SH ~5cm strand of FFHM material. Very porphyritic crowded, plag phenos stand out nicely. Strong Sericitization. L.C.?																
				Structure: *				L.C. in DMHF ~50°																
P	374.87	383.30	DMHF					c	T	c	T	m	m		w	w	c	c	c	T	c	c	T	
				Lithology: Very dk green to black, Carb Amygdules, Phenos of Bio←Primary? plag, pyroxene?, carb veining throughout, alt'n Patches or fragments? (Think this is Healed Breccia?) pervasive mag mtx.																				
				L.C. 56° b.c. ?° Bx SH.																				
P	383.30	398.00	V. Seds?	G	W			.35	2	c	T		S		W	W	c	T	T	T	W	c	W	
				Lithology: Same as previous									V. Seds w/ weak					~1→2% Gypsum veining.						
				No significant structures.																				
P	398.00	398.80	DQCH					L.C.	50°	sm.	L.C.		50→60° 4cm sHB followed by lots sHing.											
P	398.80	405.50	V. Seds	G	W			.35	2	c	T		S		W	M	c	T	T	T	W	c	W	
				Same as Above!																				
				Structure:				398.80→401.2m is very sheared ~40°? green & clay altered.																	
F	405.50	410.57	SHZN																					
				Structure & *		Lo Ang		SH'ing throughout, green material, friable Py, 55° SH,																	
				Lithology:		45° SH, 40cm DQCH							4.C @ 40° in C 60°					L.C.? SH'd. Assy with altered Pyke etc.						

DRILL HOLE NO. 95 - 167

Page 5 **of**

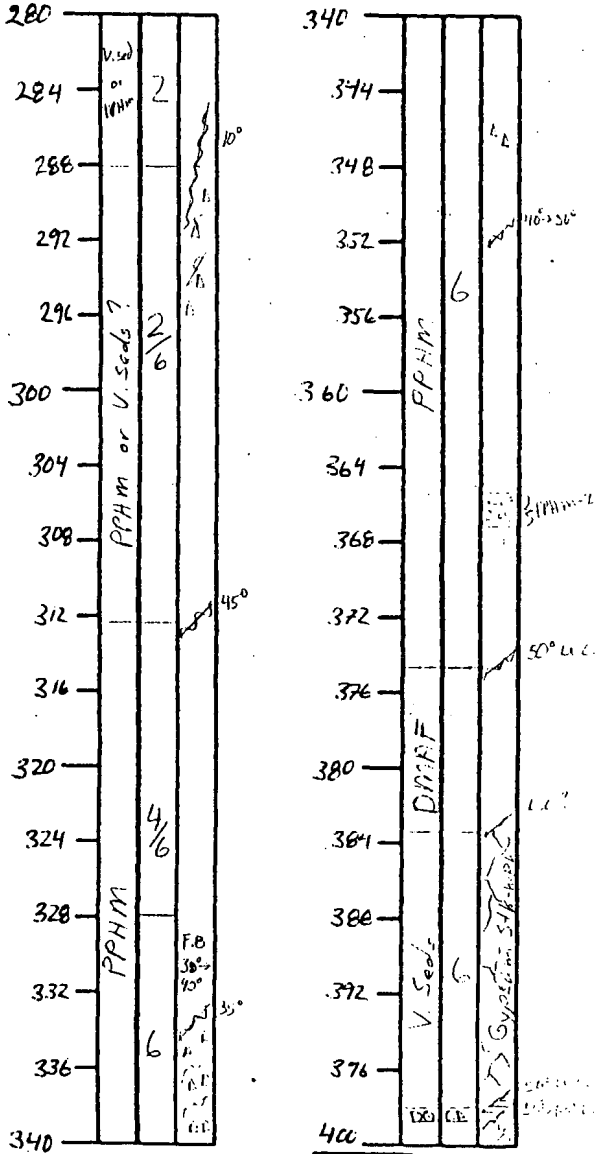
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 167
Logged By: B. Newsten
Date: July 14/95

Graphic Log (m)



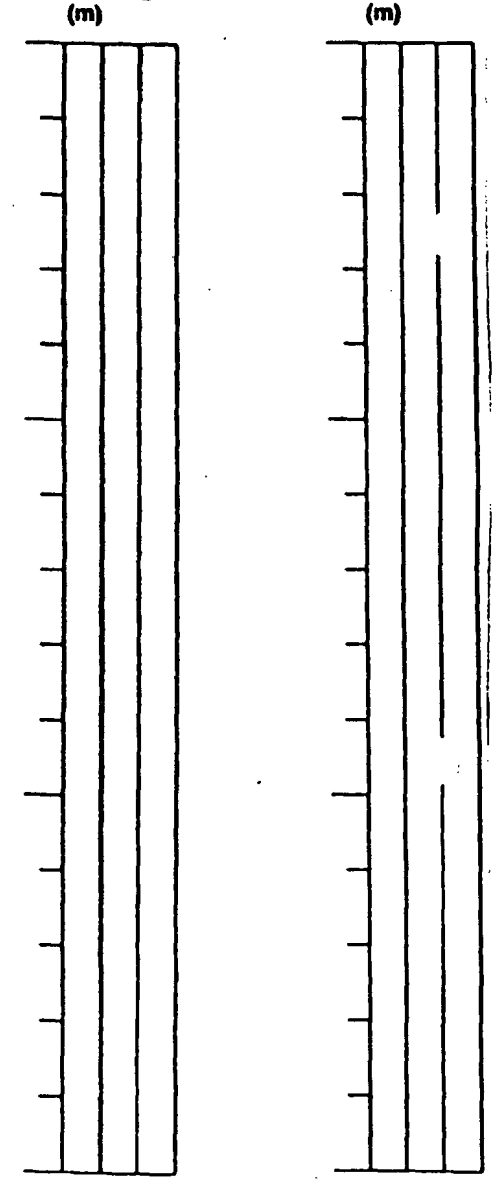
Graphic Log (m)

Graphic Log (m)

Graphic Log (m)

Graphic Log (m)

Graphic Log (m)



DRILL HOLE NO. 95 - 167

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 168

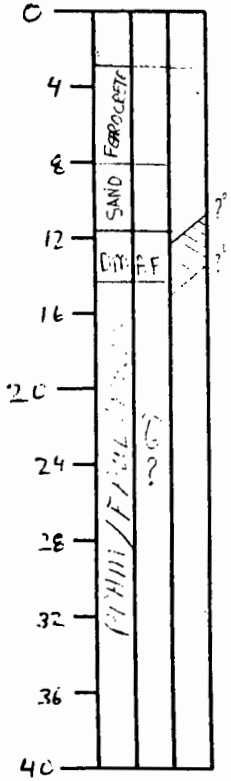
AMERICAN BULLION MINERALS LTD.

Location Sketch: 4 N

Grid Northing (m):	99 200	Date Started:	July 15/95
Grid Easting (m):	48 900	Date Completed:	July 20/95
Elevation (m):		Logged By:	B. Thurston
Total Length (m):	388.00m	Date Logged:	July 16/95
Casing Depth (m):	(3.05)→(91.44)	Data Entry:	
Reduction Depth:		Entry Date:	
Collar Core Size:	NG	Casing (In/Out):	240' Left in Hole.

Survey	Depth	Azimuth	Dip
1	154.53	181.5°	-57°
2	304.80	182°	-55°

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	0.00	3.05	CASING																			
P	3.05	8.23	Ferrocrete																			
P	8.23	11.28	'B' quality Kitty Litter (sand)																			
P	11.28	14.33	D MAF	6	m																	
P	14.33	20.42	PPHIII / FAULT																			
				Lithology: Rubble, very minor to no Gouge Porphyritic																			
				E.O.H. @ this point. Next hole is 1m over. Same place w/ casing to 36.58m																			
P	36.58	87.48	FAULT/MAIN					.4	3	c	T	c	?	m	m	c	T	o	c	T	c	I
				Lithology: Faulted / Rubble of PPHIII. No large gouge sections in fact to																			
				observe any angle. Rubble ~ 1→2 cm d.a. Cpy observed on fractures.																			
P	87.48	91.44	Trenched for Recovery																			
P	91.44	168.96	PPHIII	6	S			.8C	2.5	o	<1	T	S	m	w	T	vw-M	o	o	w-m	o	W
				Lithology: Creamy White → light Green → Salmon pink colour to core, very patchy.																			
				Mineral: Mostly there is no obscurable porphyritic texture, but plag phenos																			
				are seen throughout. Gypsum stock work is weak → mod. ~ 3%																			
				of rock. Gypsum is Cloudy white to Pink (possibly Hz-stained).																			
				Qtz stk-wrk is very weak to weak often ≅ py ± cpy cores and																			
				good vein boundaries. Py is dist ↑ along fractures. Cpy is assoc.																			

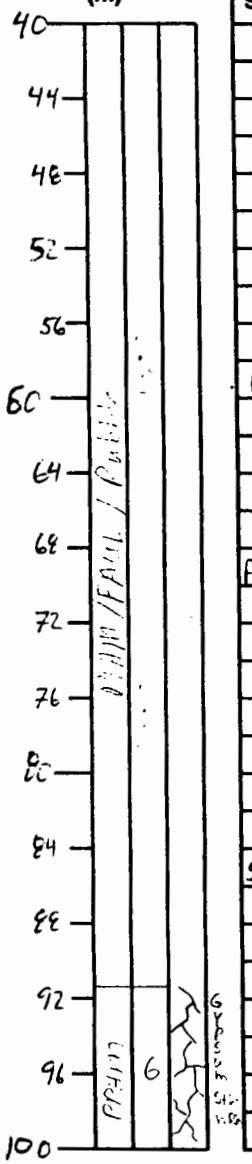
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 168
Logged By: B. Thurston
Date: July

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				w̄ diss. py & dark green sections / patches of core where py content increases ~ 3 times. He is diss & in Qtz veins No Magnetite but it looks like it should be magnetic (martite?). Dark splotchy ser ± chlorite sections (rare). Calcite is very weak as fractures / pervasive.																			
				Alt'n: Strong Potassic → pervasive K-spar, bio, Gypsum, He after Mag? ± Chl?																			
				Structure: * small insignificant structures @ 45°																			
				* L.C. w̄ DQCA @ ~50° (2 angles both sharp?)																			
P	108.90	109.70	DQCA					o	T	o	o		o	?	M	M	o	o	o	T	o	o	T
				Lithology: Typical aphanitic light grey to beige w̄ mostly elongate carb amygdaloids ~ 1% of rock.																			
				Structure: L.C. ~ 5 cm SH @ 35° → 40°																			
P	109.70	125.70	PPHM	6	S			2.4	4	o	<1		T	S	M	W	o	S-I	T	T	T	o	W
				Lithology: Same core as before dyke but only 1 gypsum vein & Qtz Stk-wrk is S → Intense. Cpy is diss in groundmass & in Qtz vns. Both Py & Cpy has increased (due to Qtz Stk wrk?).																			
				Structure: * Core looks mod. SH'd or Brecciated around the intense Qtz Stk-wrk areas.																			
				* L.C. of Gypsum Zone is a 30 cm 60° @ 125.70 m																			
S	125.70	143.75	PPHM	6	S			1.5	3	o	T		T	S	M	W	o	S-I	T	T	M	o	W
				Lithology: Same as above w̄ mod. Gypsum veining / Stk-wrk & a slight decrease in overall copper content. Cpy diss																			
				Structure: L.C. of Gypsum Zone is @ a larger SH? zone of broken / blocky porous rock w̄ Intense Qtz Stk wrk.																			

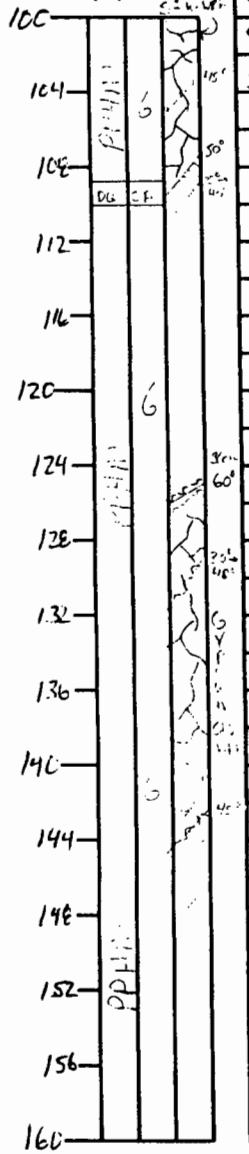
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 168
Logged By: B Thurston
Date: July

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	Description
S	143.75	178.00	PPHM	6	S			1.5	2.3	T	<1	W	S	m	w	T	S	T	T	a	c	w	
S	178.00	195.00	PPHM	6	S			0.66	4	a	<1	T	S	m	w	T	W-III	T	T	a	c	w	
				Lithology:				Core grain same as previous sections. Orange → light green → cream colour core. Porphyritic texture is obscured but quite altered, phen's blend in to groundmass. Less visible phen's seen. Qtz is strong to ~178 m then Rock is stressed, various shing ± Brecciation to 195 m. Cpy drops off considerably & Py picks up. *Cpy is very flashy to 178 m, as diss, large blebs, fracture fillings 1→3 mm, and veins up to 1.5 cm usually, 12°→15°. Calcite is mainly in microfractures, weak throughout in patches of sheared rock that is mod. K-spar is strong pervasive. Bt is very fine grain in groundmass giving a brown colour to core. Bt is trace in fractures & Qtz veins. (Bornite in Qtz ± on Fractures) No Mag. Tourmaline rosettes are rare but observed.									
				Alt'n:																			
				Structure				* 178→196 is Sh'ed & Fr'ed throughout.															
								* 143→178 No major structures.															
								* L.C. w next unit is @ 10°→12° to CA over ~50 cm.															
P	195.00	208.00	V. Seds	4	m	2	?	.45	3.5	o	c	c	c	m	w-m	c	vw	T	W	o	c	w	
				Lithology:				Some cgl'd; 214→237 m. But looks in places like a pebble															
				Structure:				micro breccia. Very fine grain rounded fragments? or phen's of Qtz? (is possibly PPHM in PPHK). Overall v. Seds.															
								* No clear upper contact.															
								* L.C. consists of Shing & Breccia followed by 4% cm Intense Qtz Veining then PPHM.															
P	208.00	214.00	PPHM	4	m	2	?	.40	3	o	T	c	c	m	w	o	o	c	T	c	c	w	
				Lithology:				Brown cut porphyritic texture in light Green-brown core. Very Homogenous. Minor Carbonate stringers. very fine Py diss. Lower																
				Structure:				* Half is strongly sheared @ 25°, 30°, 55°, 10°, 45°, 55°															

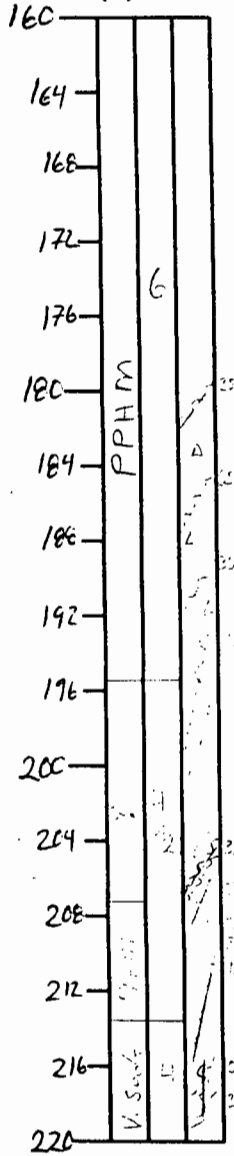
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 168
Logged By: T Tinsley
Date: July

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Magn	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	214.00	237.00	V. Seds	4	m			.60	2.5	o	o	*	c	c	m	w-m	o	w	c	w-m	o	c	w-m
				Lithology:			Pale C. cream → lighter cream → pale orange in colour. Mostly aphanitic w/ minor flow banding developed. Py is disseminated 80→90% & fills fractures, blebs, veins & patches. Cpy assoc. w/ Py & lesser in Qtz veins. Qtz stockwork veins are white w/ med. sharp boundaries & Sulphide bands. No porphyritic texture.															
				Alt'n:			Ser + Clay + Med Carb + Py.																	
				Structure:	*		Strong to med. shearing throughout either parallel to C.A. or smaller ice sheets @ 35° → 45° throughout.																	
					*		All rock has been movement & deformation.																	
					*		L.C. is fault 23m → 24cm @ 45° sharp shears + Ba & minor Gouge.																	
P	237.00	240.00	FAUL					1.00	3	o	c	*	c	c	m	S	o	w-m	o	T	c	c	m
				Lithology & Structure:			Very little gouge but mod. → Strong clay altered, fissured rock in places. Most blocky / rubble. U.C & L.C. @ 45° sharp on shears + minor gouge. Qtz stockwork is broken & brecciated as well as intact ← (possibly large breccia fingers?)																	
P	240.00	258.00	PPHM	4	S			.30	1.5	o	c		c	c	S	w	o	T	o	T	c	c	w
				Lithology:			Light to med Green colour. Core is strongly silicified both fine grained groundmass. Sometimes phenos ~1→2mm are dark green sericitized and stand out on the dry core surface. Matic phenos are salty & blend into the groundmass but to green colour. Py is 90% disseminated very fine grained, very Homogeneous core. Weak → trace Carb veining. Rare Calcite fizz. Approx. 80cm Qtz fragment @ 246.2m in Cpy. *** Not your typical PPHM ***																	
				Alt'n:			Strong Ser + Py + Arg ± Clay																	
				Structure:	*		Low angle shearing throughout commonly 25→35°.																	
					*		L.C. w/ V. Seds is obscure ?c																	
					*		Seems to be a transition to phenos of this section in places																	

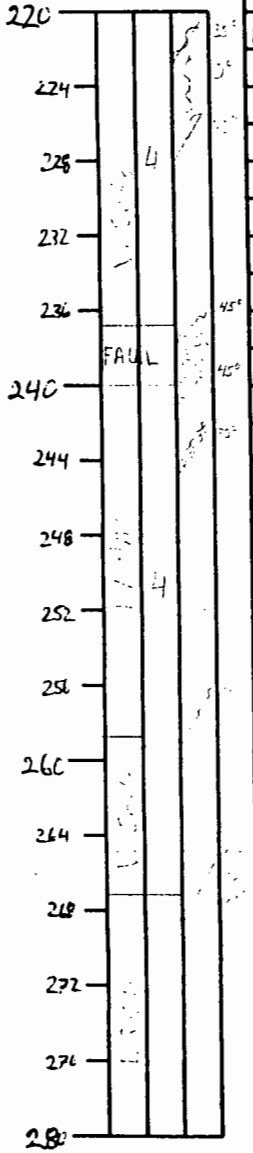
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 168
Logged By: B. Thurston
Date: July 19/95

Graphic Log (m)



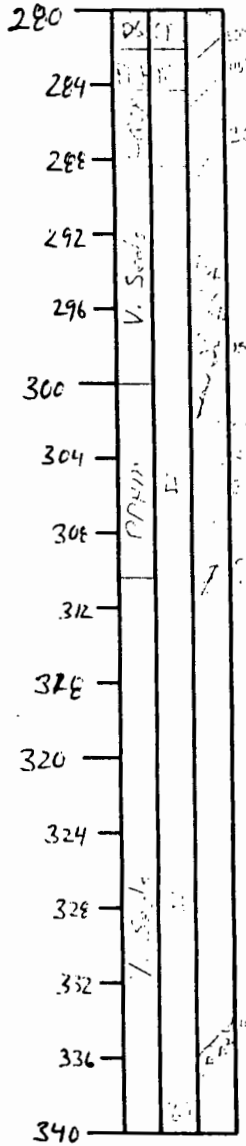
P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Moly	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	258.80	267.00	V. Seds	4	m			.60	2.5	c	c	*	c	c	M	W	c	W	c	W-M	c	c	W
				Lithology:				Same as 214→237 only tan or beige in colour. w̄ Fragments of V. Seds															
				Structure:				* L.C. w̄ DQCA is Blocky ?°															
								* SH'ing strong @ 20°, 35°, 0°.															
P	267.00	288.15	DQCA					c	Tr	c	c	c	c	c	?W	M	c	c	c	W	c	c	W
				Lithology:				Typical DQCA. Tan or beige in colour. Very fine grain → aphanitic w̄ ~1→2% spheroid carb. amygdaloids up to .7mm in dia. Carb. veining → Stk-wrk is ~2→3% throughout. Py along fractures.															
				Structure:				* 282 → 284.5m is PPHM Breccia material w̄ Qtz fragments															
								* Contacts for Tabore are sharp @ 45° & 50°															
								* L.C. w̄ V. Seds is @ 30° Sharp.															
P	288.15	300.00	V. Seds	4	m			.85	1.7	c	c	*	c	c	M	W	T	W	c	W-M	c	c	M
				Lithology:				Same as 214 → 237															
				Structure:				* Strong Carb. Healed Shearing & Brecciation throughout unit.															
								* L.C. 15° Sharp w̄ 0.5cm gouge.															
P	300.00	310.70	PPHM	4	S			.45	2	c	T	*	c	c	S	W	c	W	c	T	c	c	W
				Lithology:				Same as 240→258...! Strongly sericitized plag. phenos stand out in dry core.															
				Structure:				* L.C. w̄ Seds is Brecciated & sheared ?°															
								* Small shears throughout @ 20°→35°															
P	310.70	349.80	V. Seds	4	M	6	T	.50	2	c	T	*	c	T	M	M	c	T	c	W	c	c	W-M
				Lithology:				Once again the same as 214→237m. However, From 344.7m → 349.8cm Rock is a bright green colour w̄ blebby py, Carb. veining/stk-wrk ~2→3%, weak → mod. Qtz veining. This is exactly the Volc rock observed near the contact of Main phase North of the East Zone in the Dynamite Hill Vol's. (ie 95-145 @ 71m)															

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 16E
Logged By: B. Thurston
Date: July 25/95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	mdy	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				Structure:		*	Possible Bedding @ 20°																
						*	"Green" Rock Vein? contacts @ 35°, 40°										Breccia + Shearing.					
						*	Small shears ~ 35°→45°.																
						*	L.C. w Fault @ 30° SH + Limonite & Carb.																
C	349.8	351.0	FAULT																				
				Structure:			Contact b/w V. Seds & PfHm, Carb. healed, U.C. @ 20° sheared, SH'ing parallel to C.A throughout. Similar Rock to above.																
P	351.0	362.0	PfHm	G	m	4	m	.45	3	o	T	*	T	m	m	w	o	T	T	W	o	c	T
				Lithology:			Pale orange colour. Very fine grain porphyritic texture; plag phenos <1mm, mafic phenos observed. Py is very finely diss. Cp also very fine. mdly diss & along fractures.																
				Alt'n:			Ser-(?)-Hem±Clay, K-spar, Hem, Bio.; Pervasive K-spar.																
				Structure:		*	Strong Breccia for first few meters, rock types, V. Seds fragments, Qtz fragments etc.																
						*	35° L.C. w DGCA.																
P	362.0	365.0	DGCA					o	T	c	c		c	?	W	m	o	c	c	T	c	c	W
				Lithology:			Typical DGCA. Fine grain buff to beige colour w < 1% carb fragments/vein; carb veinings. Trace fg dkgy fractures.																
				Structure:		*	U.C. sharp 5cm Fault w 2cm Graphite/Sulphide black SH. + Carb. @ 25°																
						*	M.C. 30cm of faulted/SH'd Dyke @ 30°																
						*	L.C. @ 365 sharp SH/Fault @ 45°.																
F	365.0	369.0	FAULT	G	m			.40	3	o	T		c	m	m	m	c	o	c	o	?	o	S
				Lithology & Structure		*	Blocky, Clay altered, Gouge, SH'ed, fractured, mostly healed core.																
						*	No angles to measure.																
						*	L.C. grades into competent Rock.																

DRILL HOLE NO. 95 - 16E

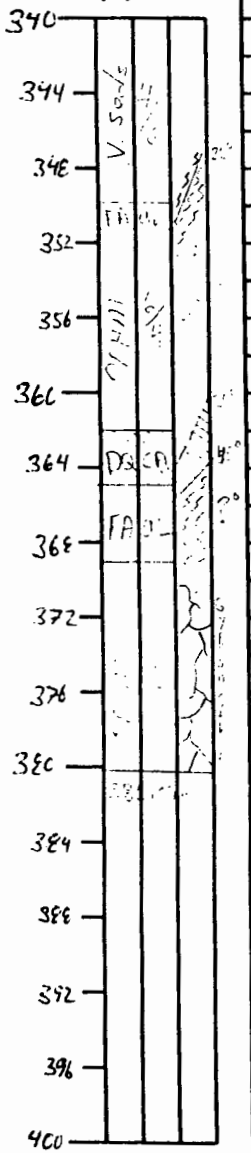
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 16
Logged By: B Thurston
Date: July 20/95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Mineralization mag moly	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
P	364.00	380.00	PPHM	6	S			.90	2.5	0	<1	*	T	S	M	M	T	W	T	T	M	0	W

Lithology & Minz: Dominantly orange colour w̄ green clay altered patches. Mod to Strong Gypsum Stk-WRK (Gypsum is milky white). Very little carb. veining. Porphyritic texture is very weakly preserved in small patches by plag phenc's. Mostly all phenc's blend in groundmass. He is very weak & mainly diss. Trace Magnetite in Qtz vein. Moly is very strong as diss, on fractures & sometimes w̄ cpy. Py is 50/50 along fractures & diss (very fine). Cpy is usually *very finely diss but occasionally is blebby w̄ py. Calcite is trace to non-existent, pervasive.

Alt'n: K-spar pervasive, mag, He, trace bio, Mod → Strong Gypsum veins.

Structure: * W → Mod. shearing throughout.
* Small patches / shears w̄ high % clay alteration.

* Hole shut down on visual field inspection of .3% Cu due to poor Cu up section. (bad .3% Cu)

DRILL HOLE NO. 95 - 168

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

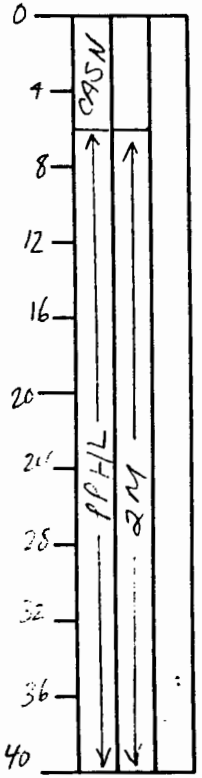
DRILL HOLE NO. 95 - 169

Location Sketch

Grid Northing (m):	99700 N	Date Started:	July 16/95
Grid Easting (m):	49550 E	Date Completed:	July 20/95
Elevation (m):		Logged By:	T. Fraser
Total Length (m):	389.23 m	Date Logged:	July 17/95
Casing Depth (m):	6.10 m	Data Entry:	
Reduction Depth:	—	Entry Date:	
Collar Core Size:	HQ	Casing (In/Out):	Out

Survey	Depth	Azimuth	Dip
SS	154.5	330.5°	-60.0
SS	319.1	330.5°	-61.5

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	0	6.10	CASN																	(gypsum)		
	6.10	111.95	PPHL	2	M	—	—	TR	5	0	0	0	0	M	TR	0	0	W	TR	W	0	W
				Lithology - Late Triassic sheared hornblende porphyritic monzonite. Pale green in colour. Medium grained rock. Phenocrysts are 1-3mm. Possible remnant hornblende phenocrysts are rare. Groundmass is dominantly plagioclase-rich. Rock often has a fine-grained, pale green to white matrix. Alteration/mineralization - Disseminated pyrite => veinlet pyrite. Fine-grained pyrite commonly with quartz. Weak to moderate 1-5mm white to transparent quartz veinlets with fibrous margins. Trace white carbonate veinlets with traces of chalcopyrite and pyrite. Possible disseminated pyrite, chalcopyrite and molybdenite. Rock is cut by numerous dark grey/black shear/fault zones. Fine-grained clayey gouge.															
				Structure - 6.10 - 32.61 Highly fractured and altered rock. Many gouge zones.																		
				35.66 - 35.74 m gouge/altered rock																		
				43.60 m gypsum vein 62° to C.A.																		
				67.00 m gouge																		
				69.00 2 cm pyrite vein																		
				72 - 75 m quartz veins 15 - 45° to C.A.																		
				76.90 - 77.05 m brecciated vein in 10% py (diseminated) 30° to C.A.																		
				78.47 m mud seam																		

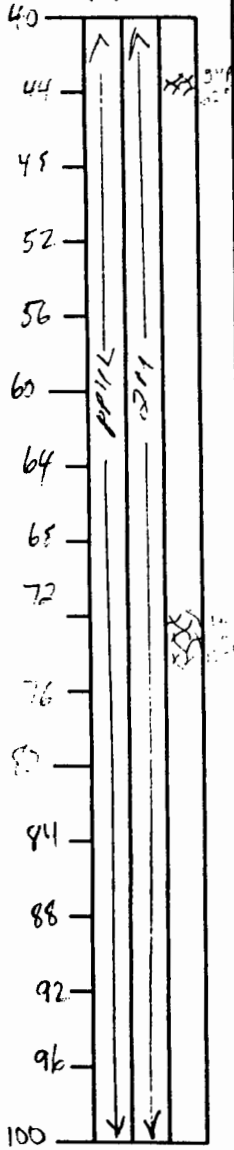
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 169
Logged By: T. Pauwer
Date: Jun. 15/95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
					83.80 m			qtz carb vein (4 cm)					15° to C.A.									
					90.0 - 90.15			PGRL	prod zone				contacts									
					98.10 - 98.25			PGRL	25° to C.A.													
					92.35 - 92.67			PGRL														
					102.50 - 102.72 m			0.5 - 2 cm qtz carb vein					0° to C.A.									
					109.04 m			1cm	Shear			40° to C.A.										
					109.23 m			"	"			45° to C.A.										
					109.60 m			"	"			52° to C.A.										
					111.78 - 111.95 m			Shear				60° to C.A.										
	111.95	202.75	PPHL	4	W	2	W	<0.3	6	0	TR	0	0	M	M	0	TR	W	TR	M (pervasive)	0	W

Lithology - Late Triassic plagioclase hornblende porphyry; light/pale grey to buff colours. The unit is weakly to moderately porphyritic with 0.5 cm bleached white anhedral plagioclase grains and 1-3 mm 2% fine-medium subhedral hornblende crystals, set in a fine-grained, siliceous groundmass. Texture is flow-banded in parts and locally shows trachytic texture.

Alteration/Mineralization - The unit has undergone pervasive weak to moderate sericitization. Plagioclase grains are commonly sericitized, but in some areas the groundmass is also sericitized and bleached. Very patchy < 1 cm diameter clots of chlorite. Trace chalcopyrite in chlorite clots and in fine disseminations. The unit is cut by a 10% stockwork of 0.5-2 cm thick calcite veins. Trace pyrite associated with carbonate veins. Locally, hematite (stained) fracture surfaces.

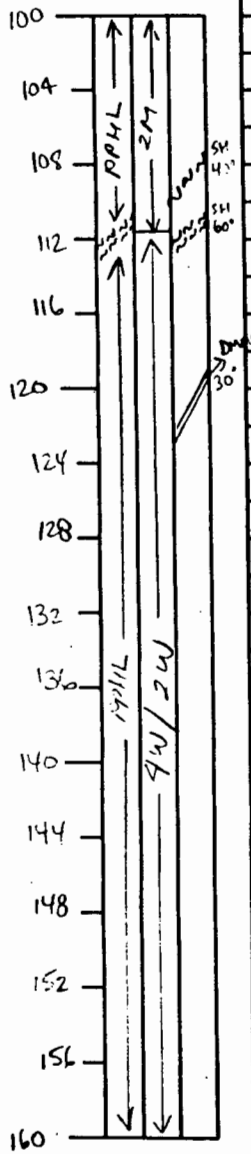
Structure - 121.35 - 121.65 m DMAF 30° to C.A.
124.05 - 124.10 m mud seam

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 169
Logged By: J. Fraser
Date: July 19/95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
					152.3 m			5 in 1 m			1%	vuggy											
					178.9 - 179.20			chl-qtz vein					vein					15° to CA.					
					195.97 - 196.06			chl-qtz vein										0° to CA.					
					201.0 - 201.40 m			SH					15° to CA.										
																					gypsum		
	202.75	233.50	PPHM	4	m	3	W	0.3	5	0	TR		0	TR	M	0	0	TR	W	TR	M	0	W
				Lithology - Diff-t brown colored Plag porphyritic hornblende																			
				porphyry. The unit is similar to the Dacite (above) but																			
				with plag is more intense and the process of																			
				alteration. The unit is moderately porphyritic with																			
				approx 30-40% mafic phenos																			
				and visibly zoned! Plagioclase phenos are approx 1-2 mm.																			
				Hornblende phenos are finer grained & not apparent.																			
				The groundmass is dark coloured with fine hematite																			
				staining																			
				Alteration - Intense chl-qtz-py veining. Veins																			
				vary in width from hairline veins to 0.5 cm wide grey quartz (± calcite) envelopes.																			
				Fine disseminated pyrite is associated with the																			
				Trace black sphalerite is associated with																			
				chl-qtz veining. Trace galena-tennantite-pyrite																			
				disseminations. Trace amounts of Malachite stain																			
				fractures.																			
				Structure - 205.64 - 206.55 m									DYKE		30° to CA.									
				208.90 - 209.50 m									Fracturing										
				211.15 - 211.78 m									qtz-chl core										
				216.80 - 216.90									SH/bx vein										
				233.50 m Lower Contact of PPHM with Dacite - sharp																			

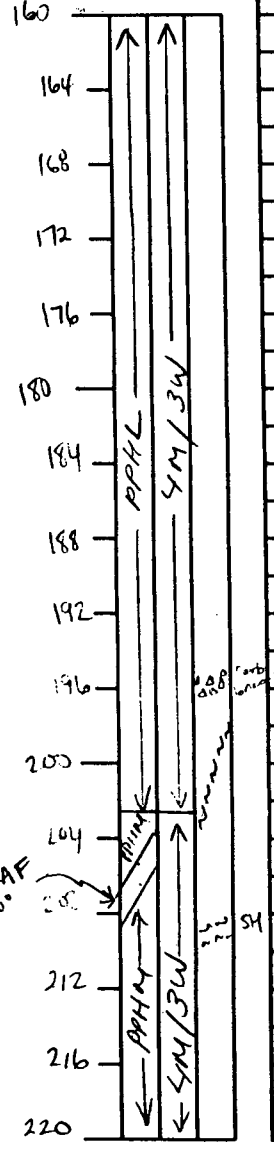
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 169
Logged By: T. Fraser
Date: July 1995

Graphic Log (m)



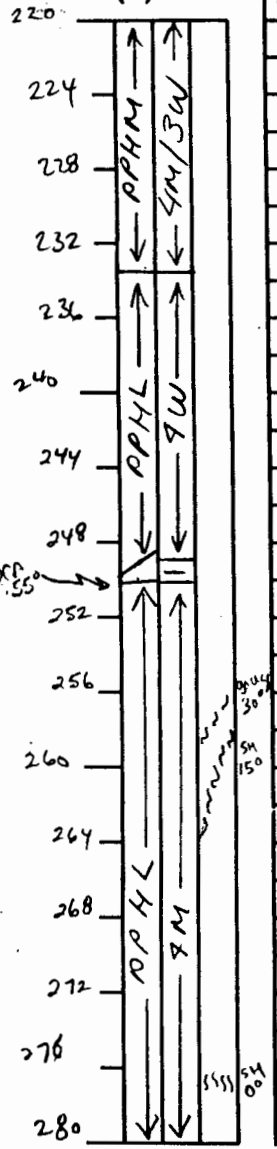
PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	233.50	249.02	PPHL	4	W	—	—	0.3	5	0	0	0	0	W	M	0	TR	VW	TR	VW	0	W
				Lithology – same as interval 6.10 – 111.95 m.																			
				Alteration/Mineralization – Unit contains 1% to 2% fine disseminated pyrite. Silicification is weak to moderate. Pyrite is also present in trace amounts as fracture coatings. Chalcopyrite is present as trace amounts in fracture coatings. Local hematite staining. Trace carbonate veining. Very weak to weak white clay alteration.																	
				Structure – 244.50m – 0.5cm core loss @ 25° to CA																			
	249.02	250.37	DQRA	—	—	—	—	0	0	0	0	0	0	0	0	0	0	0	W	0	0	W
				Fresh Carbonate-qtz porphyritic dike. Dark green to black dike with an aphanitic groundmass. White anhedral qtz phenocrysts are approx 10-12% and range in size from 1mm – 4mm. Phenocrysts are evenly distributed throughout. Contacts are sharp at 47°. Alteration – no sulphides present. Cut by weak to moderate veins																	
				Structure – U.C. 249.02m @ 45° to CA. L.C. 250.37m L.C. DQRA is broken																			
	250.37	296.70	PPHL	4	M	—	—	0.3	6	0	0	0	0	W	M		TR	VW	TR	0	0	W
				Lithology – same as interval 6.10 – 111.95 m																			
				Alteration/Mineralization – Unit is weakly silicified from 233.50 – 249.02 m but there are very weak qtz stringers containing disseminated pyrite. Gypsum veinlets are present. Pyrite veins have a selvage envelope. Pyrite is moderately disseminated throughout the groundmass. Dissem pyrite > vein related pyrite. Trace chalcopyrite is disseminated and in tiny veinlets																	

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 169
Logged By: T. Tra...
Date: Jul. 25/95



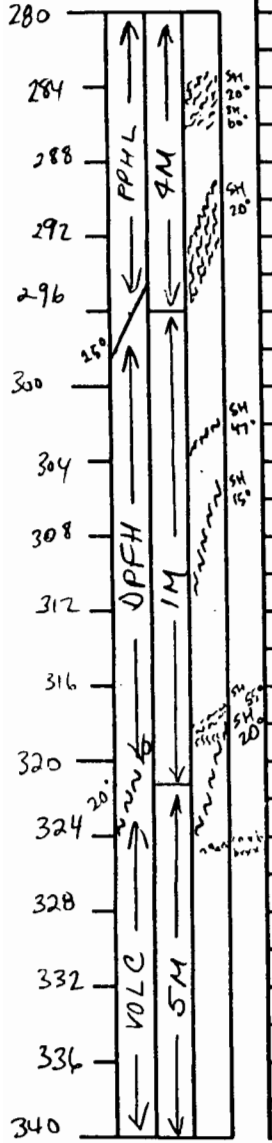
PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 169
Logged By: T. Fraser
Date: July 20/95



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

weakly to moderately fractured. Trace disseminated pyrite associated with carbonate veins.
Red hematite within fractures. Moderate carbonate veins.
Rare chalcopyrite veinlet.

Structure - 302.65 - 302.72 m Shear 47° to C.A.
302.20 - 308.70 Shear 15° to C.A.
312.00 - 312.58 Fault gouge and breccia
312.80 - 313.03 DMAF 30° to C.A.
317.85 - 318.25 Shear with carbonate veins 55° to C.A.
321.80 Lower contact DFFH shearing 20° to C.A.
319.18 - 319.70 Shear 0° to C.A.

	321.80	360.50	VOLC	5	M	—	—	TR	6	0	TR	0	0	5	0	0	N	vW	M	0	0	M

Lithology - Medium apple green to pale (almost bleached) green, fine grained, massive to weakly foliated (?) crystal tuff. The unit varies from aphanitic (texture unresolvable) to weakly porphyritic. Phenos appear to be quartz eyes less than 2.5 mm in diameter, subhedral 1-2 mm. Mafic phenos are not present or are obscured. The unit appears to be quite homogeneous and is most likely an ash flow tuff. The unit may be recrystallized.

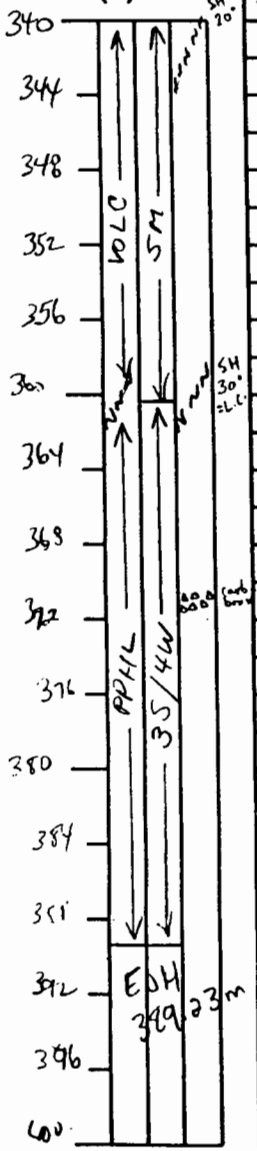
Alteration/Mineralization - The main colour appears to be related to strong to moderate sericite alteration. Moderate quartz-carbonate veins cut the core. Moderate veins which contain carbonate, quartz and pyrite. Hairline quartz-carbonate veins have thin brown borders of biotite (?). Pyrite is finely disseminated and in rare veins. Trace hematite in fracs. Trace only.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 169
Logged By: J. Fraser
Date: July 21/95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
			Structure -			325.02 - 325.20m																		
						340.30 - 340.90	core																	
						341.6 - 341.7	Shear						20° to C.A.											
						Lower contact	vol.						Iron	stain				360.50m			30° to C.A.			
	360.50	389.23	PPHL	5	5	4	W	TR	8	0	0		0	0	M-S	W	0	TR	Ws	vWs	0	0	W	
			Lithology -	Dull	grey	to	buff	coloured					Late	phase	plagioclase	hornblende								
				porphyry.	Well	to	moderately	porphyritic	with	distinctive	plagioclase													
				phenocrysts	range	size	of	1-2mm		Mafic	phases	are	not	visible	-	probably								
				Alteration/Mineralization -				The	unit	is	locally	strongly	mottled	with	~10%										
				disseminated		blebby	pyrite	with	2-3mm	green	sericite														
				envelope	haloes.	The	groundmass	is				strongly	altered	to											
				buff	to	brown	and	aphanitic	in	appearance.	It	is	very												

DR

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 170

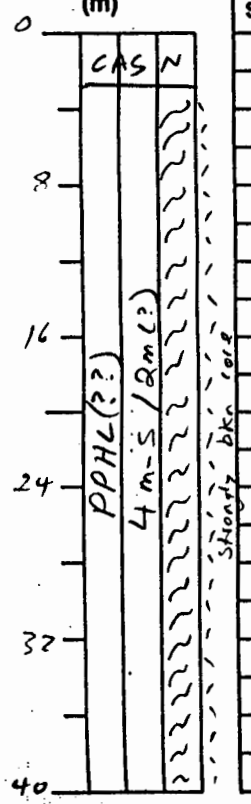
AMERICAN BULLION MINERALS LTD.

Location Sketch

Grid Northing (m):	99300	Date Started:	JULY 20 1995
Grid Easting (m):	49 00	Date Completed:	JULY 1995
Elevation (m):		Logged By:	IAN FOREMAN
Total Length (m):	350.82m	Date Logged:	JULY 21 1995
Casing Depth (m):		Data Entry:	
Reduction Depth:	N/A	Entry Date:	
Collar Core Size:	NQ	Casing (In/Out):	

Survey	Depth	Azimuth	Dip
S.S.	500'	180.5°	-61.5°
/	152.4	/	

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	0	3.05	CASN																				
	3.05	46.02	PPHL?	4	m-s	2	m	/	2	/	/		/	/	m	m	/	/	/	/	/	/	5

LITH + MIN:
The porphyritic [illegible] very well preserved throughout the unit. Aphanitic grey [illegible] 20-30% subrnd'd white 0.5-3mm [illegible] 10-20% white subang subrnd'd 1-3mm hb's giving a very "crowded" appearance. locally the core has a beige tint and the [illegible] are more obscured. *This could be bleached PPHM.*
1-2% Py as [illegible] disseminations throughout the matrix and 1-2mm blebs
L.C.: ? unknown - contact is in missing core.
ALTERATION:
Moderate Qtz-Ser-Ank-Kao [illegible] hb's are alt'd to Ank ¼ Kao. Core is relatively soft and scratches easily to a hail
STRUCTURE:
Entire unit is strongly bkn ang - subang 0.5-5cm ang core [illegible] trace to 1% gouge
- 12.0m - 2x2cm subang fragment is 2 1mm quartz veins (PPHM?)

DRILL HOLE NO. 95 - 170 Page 1 of 12

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

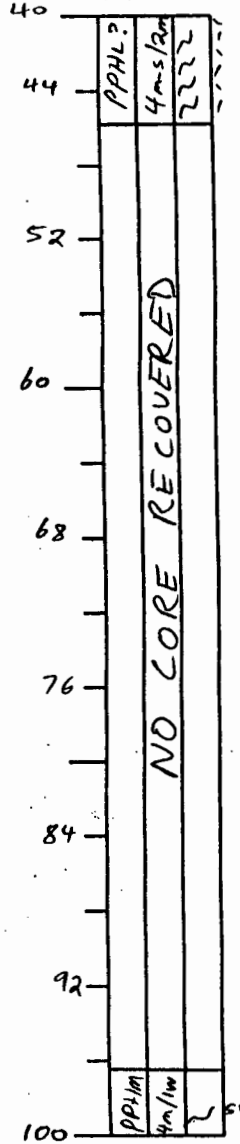
GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 170
Logged By: J. FOREMAN
Date: JULY 25 '95

Graphic Log (m): 40, 44, 52, 60, 68, 76, 84, 92, 100

PPHL? | 4ms/2m | NO CORE RECOVERED | PPHM | 4m/1w | ~ 50°



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	3.05	46.02	CONT'D			-42.30 m		- 1cm gouge															
						-42.47 m		- 3cm [illegible] gouge															
						-42.65 m		- very weak possible [illegible] @ 45° as an alignment of the [illegible]															
						-42.65 m		- gouge in [illegible] @ 45°															
	46.02	96.32	NO CORE																				
						NO CORE recovered in this interval due to use of TRI CONE.																	
	96.32	104.97	PPHM	4	m	1	w	0.5	3.0	/	Tr		/	w	m	m	/	Tr	/	w	m	/	w

LITH. MIN:

An overall green appearance with light-med grey aphanitic matrix. The porphyritic texture is locally obliterated and only preserved locally. 15-20% light green to cream subrnd'd to ang 0.5-2mm fspl and 10% light to med green 0.5-2mm subang-ang hbr.

Locally the colour of the matrix varies from dark grey, lt green to cream.

3% pyrite as fig'd disseminated grains and blebs throughout the matrix. Pyrite also occurs in fractures and in carbonate, gypsum and rare qtz veins. Sphalerite and trace associated galena occur in carbonate veins and blebs. Sphalerite occurs typically as 0.5-2mm rnd'd grains with orange-yellow centres in brown-black rims.

Cpy occurs primarily associated with fracture fill pyrite but also occurs in gypsum and qtz and also as fig'd disseminations in the matrix.

L.C:

gradational over 10-15cm - above 1st distinct qtz vein.

ALTERATION:

Moderate Qtz-Ank-Ser ½ Kao alt'n throughout w a trace of weak potassic alt'n over 5-10cm sections. Zones of potassic (?) alt'n coincide with increased hematite.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 170
Logged By: I. FOREMAN
Date: JULY 25 '95

Graphic Log (m)

100 — 104 — 112 — 120 — 128 — 136 — 144 — 152 — 160

PPHM 15/4m wk B.C. ~ 50° — D&C A 65° 70° — PPHM 15/4m wk mod B.C. LAST GYPSUM VEIN 155.00

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
	96.32	104.97	Core's		STRUCTURE:																			
					The first 10 cm is rounded to drilled 1-3 cm. pieces of core — Probably Zone																				
					HC fracture of HC																			
					~90° - 1-2 mm gouge on typ. vein @ 50°																			
	104.97	166.59	PP/HM	1	S	4	M	0-7	4		Tr		—	S	Tr	M	—	W-M	—	W	M	—	W	
					LITH:																			
					Core is HC, SC pebble to cobble conglomerate. Locally the texture is poorly preserved, resulting																			
					in a massive appearance. Locally there is 15-20% light green to cream																			
					[illegible] 0.5-2 mm subang - subrnd pebbles and 10% fine/lk																			
					grey - cream 0.5-2 mm subang to rnd. Rarely cream to beige sections																			
					of 1-2 mm bright green translucent (clastic altd) rnd'd feldspars.																			
					Between 120.70 - 121.22, 121.45 - 124.28, 142.40 — 158.62																			
					The unit is a distinct pinkish brown colour that is indicative of potassic alt'n.																			
					It appears that the pinkish alteration is clast selective with the matrix and clasts																			
					[illegible] a result of the clast derived from the potassic alt'n overprinting the																			
					veins.																			
					L.C:																			
					— shears @ broad @ 30°																			
					ALTERATION:																			
					Strong potassic alt'n of the fine grained matrix and clasts with pervasive																			
					potassic alt'n of clasts. Pinkish brown sections mentioned above. A strong																			
					strong [illegible] zone in the unit is surprising due to its colour. Locally																			
					silicification is moderate to strong. Anh veins/ altn.																			
					MINERALIZATION:																			
					This is a well mineralized unit. 3-5% locally 5-10% pyrite																			
					predominately in potassic altered clasts and 2nd pyrite in qtz-cb veins.																			
					In gtz-gypsum veins 1-2% pyrite and 0.4-1% Cpy is commonly associated																			
					with fine grained pyrite and also occurs in qtz veins. Sphalerite is																			
					patchily altered in carbonate veins. Trace moly in qtz veins @ 165.75.																			
					Sph occurs as 3-6mm blebs in carb vein @ 159.20 @ 166.25.																			

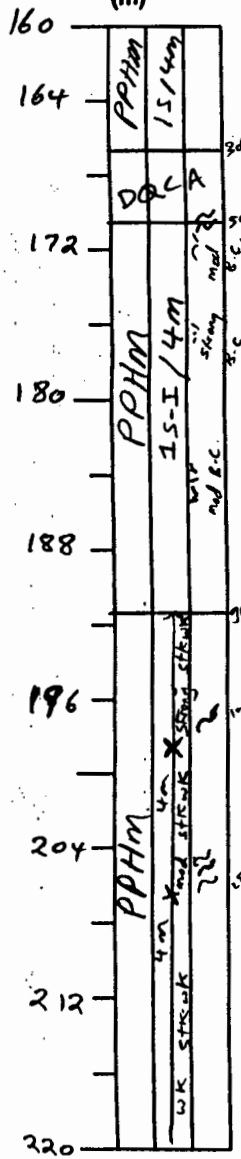
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 170
Logged By: I. FOREMAN
Date: JULY 25 '95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	104.97	166.59	CONT'D		STRUCTURE																	
					- 113.80	- 114	18m →	wkly hem core in fract. zones														
					- 115.60	- 116	15 m →	Possible xenoliths -														
								several 1-2 cm subrnd'd grey frags														
								of an aphanitic grey porphyritic matrix														
					- 116.15	- 116.34	→	large xenolith very fg porphyritic														
								xenoliths - vein @ ? o/g														
					- 116.15	- 12	1.50 →	10-15% o.c. 3cm subrnd - subang grey														
								porphyritic xenoliths in														
								grey porphyritic matrix														
					- 117.40		→	1cm														
								clay gouge														
					- 120.17	- 120.81	→	Trace														
								clay gouge in														
								1cm gouge														
				134	78 -	135	35 cm →															
				150	35 -	156	.78m →	wk mod bkn grey core in bx/cg gouge. Trace of bkn core														
								vein with 2.4cm cemented gouge & rubble @ 25°.														
				152	.75 -	159	.0 →	1cm gouge in clays @ 60° c.a. 4.0°														
						*	NOTE *	LAST 0.26m OF SECTION VEINED @ 15°														
	166.59	171.11	DQCA	-	-	-	-	-	-	-	-	-	-	-	-	-	Ø	-	vw	Ø	/	w
					LITH																	
					Light grey to olive grey to grey aphanitic matrix with 30-35% cream																	
					coarse subhedral plagioclase phenos. 5% rnd'd carbonate amygdules. <1mm																	
					carbonate stringers throughout.																	
					L-C:																	
					lower contact is a small shear zone @ 50°																	
	171.11	191.77	PPHM	1	S-I	4	m	0.8	6	/	Ti	/	S-I	m	m	/	m	/	Ti	/	/	w
					LITH + MIN																	
					Tan to buff sand with 1-2% 1/4" Mod. veins also 1% clyke fragments																	
					104.97 mod 116.97m																	
					L-C																	
					gradational over 10-15cm - Recovered as clays or alteration																	

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 170
Logged By: I. FOREMAN
Date: JULY 26 '95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
	171.11	191.77	CONT'D																					
	191.77	230.91	PPHM																					

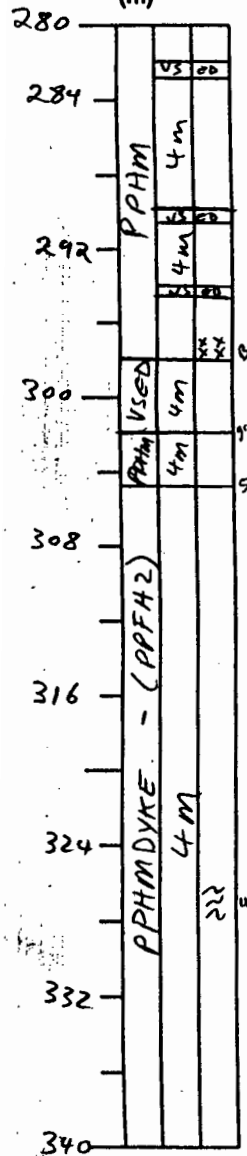
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 170
Logged By: I. FOLEMAN
Date: July 26 '95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
	191.77	230.91	CONT'D		m	tle	Ag's	ole		it'd	to		sericite											
					+/-	tan	+/-	py.	fct	con		771	1.65	- 2										
					alt'n		alteration					texture												
					c.p	is		we	k	ha			maybe	di										
					STRUCTURE:																			
							-191.77	-	198	S			strong	qtz	stock									
							intrs	+	20	7.22		-	w											
							-201.22	-	22	0.1		-	v											
							-197.71	-	197.65					gouge	zone									
							205.9	-	206.58					qtz-rich gouge										
							208.58	-	209.40					qtz veins										
							209.40	-	209.65					qtz vein										
							221.65	-	222.55					Prop										
	230.91	236.43	VSED	4	m																			
					LITHOLOGY:																			
					This																			

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 170
Logged By: I. FOREMAN
Date: 26 JULY '95

Graphic Log (m)

340
DYKE 4m
348
E.O.H. 350.82

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
	230.91	236.43	Conglo		Chalcopyrite as fine disseminations and blebs associated in pyrite and chlorite. Cpy also occurs in quartz and carb veins and clots. Quartz pil. locally Cpy mineralization is very sporg.																			
					L.C.																			
					- Sharp and irregular @ 30°																			
					ALTERATION:																			
					The unit does not stain. It is assumed it is Kfld which is surrounding ppt/m.																			
					Sec - Ank + Kfld alt'n with the surrounding ppt/m.																			
					STRUCTURE:																			
					- 230.91 - 231.[illegible]																			
					[illegible]																			
					[illegible]																			
	236.43	242.59	PPlm	U	M			0.6	3	/	Tr		/	/	M	M	/	VW	/	W	/	/	W	
					LITH + MIN:																			
					[illegible] 191.77 and 230.91m except that it is a lower portion [illegible] with [illegible] visible throughout and is [illegible] the Kfld only Qz veins/stringers is [illegible]																			
					L.C.																			
					- Sharp @ 30°																			
					STRUCTURE:																			
					- 238.37 - 238.49m - [illegible]																			
	242.59	244.33	VSED	U	M			0.6	3	/	/		/	/	M	M	/	W	/	W	/	/	W	
					LITH + MIN:																			
					This is similar volc. sed. [illegible] 230.91 - 236.43m but has sec-																			
					tion is typical [illegible] unit It is light grey & Lt grey in																			
					colour and has a [illegible] massive appearance with local hints																			

DRILL HOLE NO. 95 - 170

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 170
Logged By: I. FOREMAN
Date: 26 JULY '95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
	242.59	244.33	CONT'D		of	possible	banding.	Banding	is	commonly	defined	by a	colour	change										
					sedimentary	origin.	a	change	in	grain	size.	Mineralization	is	commonly										
					1-4 mm	'clots'	that	are	surrounded	by	v.f.g'd	chlorite.	Py	and	Cpy										
					also	occurs	as	v.f.g'd	disseminations	and	in	quartz	and	carbonate										
					veins.	This	section	contains	2-4%	pyrite	and	0.5-0.8%	Cpy.											
					L.C:																			
						-the	lower	contact	is	undistinct	and	has	no	angle										
					ALTERATION:																			
					As	with	230.91 - 236.43m,	it	is	moderate	to	strong	silicification											
					2+	- Ser - Ank	+/-	Kfd	all'n	similar	to	HC	sediments,	PPHm										
					-STRUCTURE:																			
							-	No	mentionable	structures														
	244.33	258.13	PPHm	4	m			0.5	3	/	Tr		/	/	m	m	/	vw	/	w	/	/	w	
					LITH + MIN:																			
							Main	phase	porphyry	as	described	between	191.77 - 230.91m.											
					Locally	HC	sericitic	altd	Feps	are	very	distinctive	as	the	1-5mm									
					med	green	fractured	grains	from	upto	30%	of	the	rock.										
					L.C:																			
							- Qtz	veins	@	30-40°														
					STRUCTURE:																			
							-	qtz	veins	are	generally	@	40°											
							-250.62 - 250.78m	→	shear	zone	in	low	pyrite	vein	@	40°								
							-251.51 - 251.77m	→	light	green	aphanitic	VSED's	with	irreg.	veins									
							upper	contact	is	a	lower	c.a.	@	40°										
	258.13	263.98	VSED	4	m			0.5	4	/	Tr		/	/	m	m	/	vw	/	vw	/	/	w	
					LITH + MIN:																			
							Thin	HC	zone	VSED	as	L.T.	upp.	242.59 - 244.33m.										

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 170
Logged By: I. FOREMAN
Date: 26 JULY

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	258.13	263.98	CONT'D		L.C:																	
						- 1cm	gouge	@	50°													
					STRUCTURE:																	
						- Locally	HCpy	in	weak	bx	lens	@	70°									
						- 261.06m	-	1.0-1.5cm	carbonate	vein	Hbx	@	30°									
	263.98	268.76	PPHm	4	m			0.6	4	/	/	/	/	m	m	/	w	/	w	/	/	w
					LITH+MIN:																	
						Same	light	green				PPHm	as	above			191.17 - 230.91m					
					L.C:																	
						Sharp	@	10°														
					STRUCTURE:																	
						The unit	incl.	a 1m	zone	of	Bx	between	267.73 - 268.76									
					m.	0.5-5cm	dk.	grey-	siliceous	cherty	grey	(VSED)	fragments	in									
					cm	bands	throughout					PPHm.										
	268.76	278.86	VSED	4	m			0.6	5	/	Tr	/	/	m	m	/	vw-w	/	w	/	/	w
					LITH+MIN:																	
					Generally	HCpy	is	similar				VSEDs	as	between			242.59 - 244.33			Fragments		
					Max	HCpy	1%	1.5m	zone	@		central	part	of	unit		230.91 - 236.48					
					Where	one	small	(< 75 cm)	sections	of	PPHm	included	in	this	unit.							
					L.C:																	
					Contacts	with	HCpy	all	sections	of	PPHm	is	all	sharp	and	very						
					Ref.	core	30 - 80°.																
					- lower	contact	in	observed	by	qtz/	carb	veining	@	65°								
					STRUCTURE:																	
						269.84	- 270.54m	→	PPHm			U.C = sharp @ 60° and C.C. in Rx					25 cm					
						273.86	- 274.49m	→	PPHm			U.C = sharp @ 30° and C.C. = wkly bx'd over 10cm										
						275.35	- 275.87m	→	PPHm			U.C = irregular @ 50° and L.C = sharp @ 70°										

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 170
Logged By: 26 JULY '95
Date: I. FOREMAN

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	278.86	298.91	PPHM	4	m		.	0.6	5	/	Tr	/	/	m	m	/	vw	/	w	/	/	w

LITH + MIN:

This is the same light green PPHM as described between 191.77 - 230.91m.

→ There are small packages of volcanic seds (<1.0m) in this unit.

Between 286.35 and 289.55m the rock is pinkish brown to green of volcanic clasts (bit it only stains weakly). The large (>1.5mm) Py's are dark grey where as the smaller ones are silver to brassy. This section has a DPFH-like appearance. The contacts are indistinct and my feeling is that this is simply an alteration product

L.C:

ICC locally oriented in Lx'd ques 35 cm @ 1-5cm subang light grey VSED fragments in a dark green fg matrix PPHM.

STRUCTURE:

- There are no visible structures in this unit

- 282.81 - 283.36m → VSED in U.C. in gl/core vein @ 60° a.l.c. = undirected
- 290.86 - 291.90m → Possible VSED. This unit is bx'd and only locally appears to be typical light grey VSED.
- 295.17 - 295.45m → VSED i. U.C. = 35° and L.C. = slip in gouge @ 50°
- 296.87 - 297.04m → dark grey pink rich dyke? @ 80° 2-15mm subrnd light grey to green fragments.

	298.91	302.02	VSED	4	m			0.7	5	/	/	/	/	m	m	/	vw	/	w	/	/	w

LITH + MIN:

This is similar VSED as described between 242.59 - 244.59m

Chalcopyrite occurs as fg disseminations and in 2 - 6mm blebs

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 170
Logged By: I. FOREMAN
Date: 27 JULY '95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
	248.91	302.02	Contact		L.C:																			
						Ilc	laminae	contact	is	gradational	over	30-40	cm.											
	302.02	304.62	PPHM	11	m			1.0	5	/	/		/	/	m	m	/	vw	/	w	/	/	w	
					Lithology:																			
						This	is	the	same	light	green	PPHM	as	previously	described	between	177.77 - 230.91m.							
						This	unit	is	well	mineralized.	Cpy	occurs	primarily	as	blebs	associated	with	pyrite.						
					L.C:																			
						sharp	contact																	
						core	angle	is	50°															
	304.62	350.82	PPHM	4	m			1	1	/	Tr		/	/	m	m	/	/	/	w	/	/	w	
			DYKE		Lithology:																			
			(PPHM)			Light	green	to	cream	grey	aphanitic	matrix	supporting	30-35%											
						light	to	medium	grained	subhedral	0.5-3mm	plags	and	1-2%	clear	to									
						buff	coloured	qtz.	eyes.		bbs.	This	unit	appears	fine	bleached	DPFH.								
			NOTE	*	In	other	holes	in	the	vicinity	this	unit	may	have	two										
					intersected	and	is	light	green	DPFH.															
						This	unit	is	varies	in	several	areas.	In	general,	the	bbs	are							
						smaller	-	in	DPFH	but	tend	to	be	2-3mm.	There	is	no	potassic	alt'n.	The				
						plgs	are	more	clouded,	locally	hematitic	when	this	unit	resembles	PPHM									
						This	is	interpreted	as	being	a	late	stage	intrusive											
						unit	-	altho	dissimilar	to	country	rock.													
						1%	pyrite	occurs	as	fine	disseminations	and	in	carbonate	veins	and	as								
						coarse	grained																		
					L.C:																			
						E.O.H																		
					ALTERATION:																			
							Moderate		Qtz - Ser - Arg	±	K-Fld	alt'n	throughout	core										

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 170
Logged By: I. Foreman
Date: 27 July '95

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	304.62	350.82	CONT'D		Psp's are mod-strongly sericite alt'd and Kf Hb's are alt'd to a combination of Ank +/- KAO.																		
					STRUCTURE:																		
					- 327.90-328.60 m → F.Z. w/ slip surfaces @ 45° and a weak fabric @ 40° and 60°																		
					- 340.56-340.76 m → carbonate vein/bx @ 40°																		
	350.82	350.82	E.O.H																				

DRILL HOLE NO. 95 - 170

Page 12 of 12

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

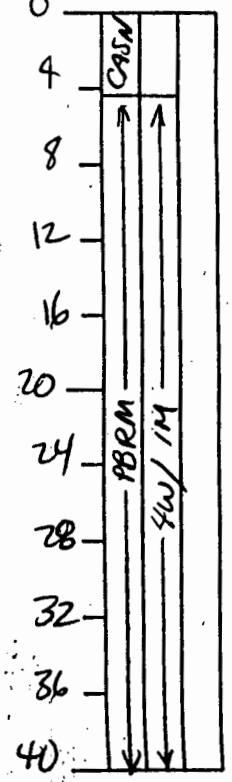
DRILL HOLE NO. 95 - 171

Location Sketch

Grid Northing (m):	100 000N	Date Started:	July 21/95
Grid Easting (m):	49650E	Date Completed:	July 25/95
Elevation (m):		Logged By:	T. Fraser
Total Length (m):	428.85m	Date Logged:	July 22/95
Casing Depth (m):	4.27	Data Entry:	
Reduction Depth:	—	Entry Date:	
Collar Core Size:	HQ	Casing (In/Out):	out

Survey	Depth	Azimuth	Dip
SS	166.7	179.5	-61°
SS	304.8	181.5	-62°
SS	428.85	182.5	-63°

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	0	4.27	CASN																			
	4.27	41.70	PBRM	4	W	1	M	<0.3	2	0	3	TR	W	W	0	0	TR	TR	TR	0	0	S

Lithology - The unit is Main Phase plagioclase - hornblende porphyry which appears to be somewhat brecciated (or contains fragments.). Large sections of the core are strongly fractured so it is difficult to see many clasts. There appears to be small sections of Main Phase porphyry. The unit is pinkish/orange to grey in colour. The clasts/groundmass are porphyritic with 30% plagioclase phenos - subhedral 2-3mm. Hornblende phenos are rare - probably highly altered. Generally the unit is fine grained.

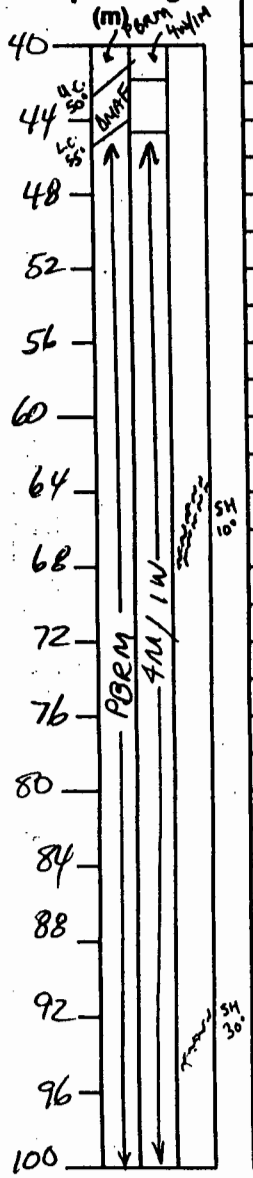
Alteration/Mineralization - The unit is weakly to moderately hematite stained and the upper portion is highly weathered and iron-stained (see supergene). Finely disseminated pyrite throughout but seldom over 1-2% and trace veins. Dissem Py > vein Py. There is weak to moderate K-spar alteration locally and is pervasive (pinkish to orange). Trace carbonate (calcite) veins. The plagioclase phenos are weakly to moderately sericitized. Trace epidote alteration. Locally hematite is disseminated up to 5% and also blebby. Trace qtz-pyrite veins.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 171
Logged By: I. Fraser
Date: July 22/95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				Structure -				7.40 - 7.60 m														
								7.70 - 7.90 m														
	41.70	44.55	DMAF	—	—	—	—	0	0.5	0	5	0	0	M	0	0	0	0	M	0	TR	W
				Lithology - Buff to light green dike with an aphanitic matrix. The unit contains approximately 2-3% euhedral altered biotite phenos 2-3 mm. No plagioclase phenos are visible. Altered pyroxene phenos vary from pale tan (carbonate alteration) to dark greenish grey (sericite - carb. alteration). Phenos are euhedral and up to 1.2 cm. The unit is a Pyroxene-Biotite Amygdaloidal? porphyry. Approx 10% 1mm - 3mm amygdules filled with white calcite and red hematite. Amygdules have calcite cores.															
				U.C. DMAF 41.70 m 50° to CA																		
				L.C. DMAF 44.55 m 55° to CA.																		
				Moderate calcite veins. Trace disseminated py, cpy.																		
	44.55	149.65	PERM	4	M	1	W	0.3	5	0	3	0	0	M	0	0	TR	M	W	M (gypsum)	TR	W
				Lithology - Unit varies in colour from grey to green to orange. The lithology again appears to be a Plagioclase porphyritic Pyroxene Basalt. Phenocrysts are 2 cm - 5 cm rounded clasts. Fragments are more prevalent than the previous unit (TRIM). The unit is porphyritic with 30-35% plag. phenos, minor mafic phenos and calcite stringers. Mafic phenos rare.															
				Alteration/Mineralization - Locally hematite stained. Pervasive throughout and moderate to weak veins. Trace to very weak carbonate veins. Moderate gypsum veins after 78.00 m. Up to 78.00 m these are only carbonate veins (no gypsum)																		

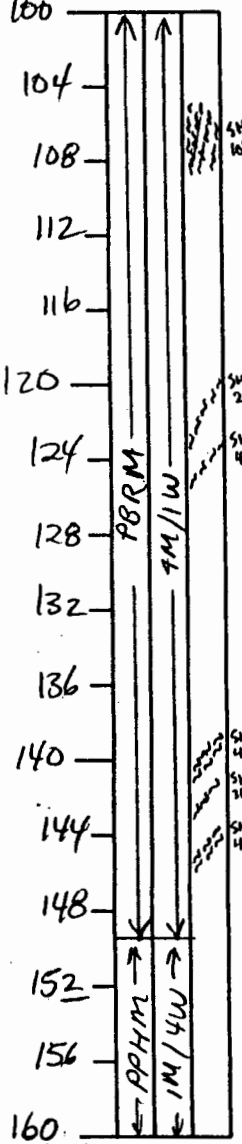
DRILL HOLE NO. 95 - 171

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 171
Logged By: T. Fraser
Date: July 22/95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				Trace chalcopyrite as disseminated blebs throughout and trace veinlets. Locally disseminated pyrrhotite up to 10%. Moderate weak alteration of plagioclase as cream coloured patches. Trace qtz veining. Weak Ksp alteration.																			
			Structure		45.25 - 45.55 m											40° to C.A						
				(5')	62.80 - 62.85 m gouge																	
				(20')	64.60 - 64.80 m																	
				(7')	65.40 - 66.14 shear 0° to C.A with minor gouge																	
				(3')	70.66 - 70.75 m																	
				(5')	76.10 - 76.15 m																	
				(5')	76.75 - 76.80 m																	
				(1')	93.20 - 93.37 m																	
				2.6 m (1.35')	105.30 - 107.90 m																	
					109.50 - 109.85 m																	
				(8')	110.40 - 111.25 m																	
				(4')	119.70 - 120.10																	
				(4')	121.75 - 122.15																	
				(5')	124.40 - 124.90																	
					139.63 - 140.45 m																	
					142.35 - 142.34																	
					143.35 - 143.87																	
					143.03 - 143.35																	
					144.56 - 145.17																	

DRILL HOLE NO. 95 - 171

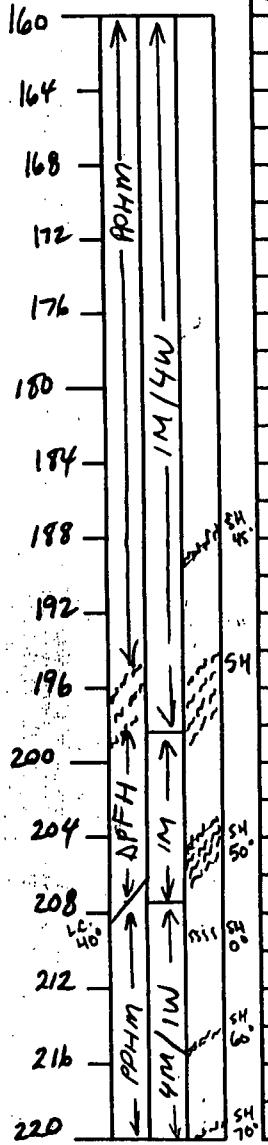
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 171
Logged By: T. Fraser
Date: July 23/95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A: (gypsum)	H:	Fr.
	149.65	198.10	PPHM	1	M	4	W	0.3	4	0	5		0	M	W	TR	0	vWs	M	TR	W	TR	W

Lithology - Main Phase plagioclase hornblende porphyry buff to pale orange to brick red-brown. Moderately porphyritic rock with approx 25-35% 1-2 mm subhedral to rounded plagioclase phenos. Hornblende phenos are subhedral to euhedral, approx 8-10% 1-3 mm sized. The plagioclase phenos are more visible/prominant. The groundmass is aphanitic and orange to brick red.

Alteration/Mineralization - The unit is moderately Kspar altered (groundmass and margins of plagioclase phenos). The unit also has minor hematite staining - not always distinguishable from Kspar alteration. The unit is cut by moderate pyrite veins and has disseminated pyrite throughout. Disseminated pyrite > vein pyrite. Local kaolinite alteration of plagioclase, but phenos are more commonly weakly to moderately sericite altered. Red-black hematite is finely disseminated throughout and accounts for some staining of feldspars. Veins consist of weak white to transparent fibrous gypsum veins, trace carbonate veins, and trace red hematite veins. Quartz veins typically carry pyrite and are present up to moderate concentration (average very weak stringers).

Structure - 177.30 - 177.80 healed shear.
188.40 - 188.70 m shear with gouge 45° to C.A
190.85 - 190.93 gouge
196.85 - 198.10 m gouge/healed shear. The lower contact of the shear marks the upper contact of the DPFH dike.

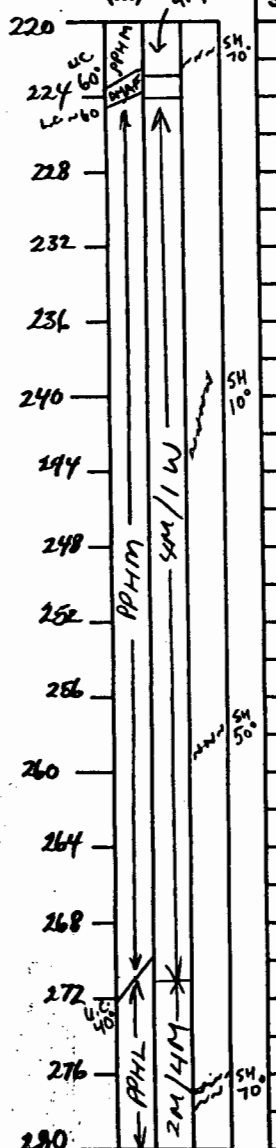
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 171
Logged By: T. Fraser
Date: July 23/95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	198.10	207.80	DPFH	1	M	–	–	<0.3	6	0	0		0	M	W	0	0	TR	TR	TR	0	0	M

Lithology – Medium to dark orange coloured plagioclase hornblende porphyry dike. Moderately porphyritic with plagioclase and hornblende phenos 1-3 mm in size. This dike is not typical of other DPFH's since it is gouged (marked by upper and lower sheared contacts) and contains veins.

Alteration/Mineralization – The dike has undergone moderate to strong Kspar alteration of the groundmass and staining of the feldspars. Plagioclase phenos are light to medium orange. Hornblende phenos are pale green and probably sericite-carbonate altered. Approximately 5-10% 1mm sized black mineral is disseminated throughout (it doesn't appear to be biotite and is too soft to be tourmaline). Pyrite is disseminated. There are trace qtz-carbonate-pyrite veins.

Structure – 201.90 - 203.40 broken
204.10 - 206.08 sheared with gouge 50° to C.A.
207.45 - 207.80 healed shear
207.80 m L.C. DPFH @ 40° to C.A.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	207.80	222.88	PPHM	4	M	1	W	0.3	5	0	1		0	W	M	0	0	VWS	W	W	0	TR	M

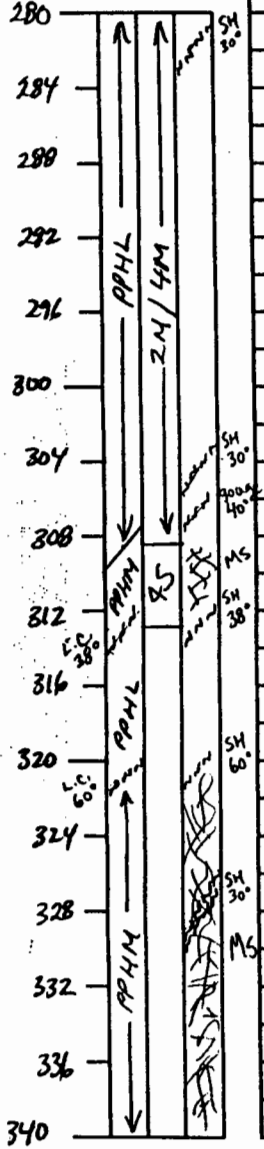
Lithology – Main Phase plagioclase porphyry unit that varies from pale orange to dominantly pale green. Approximately 10-15% hornblende phenos – euhedral beige 1-3 mm. Plagioclase phenos 25-35% subhedral pale green, 1-2 mm. Groundmass is aphanitic.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 171
Logged By: T. Fraser
Date: July 23/95



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

Alteration/Mineralization - Local sections have the same alteration as the interval 149.65-198.10 m (Potassic with moderate to weak Kspar alteration. Much of the unit, however, consists of moderately to strongly sericitized Main Phase. Plagioclase phenos are sericitized and hornblendes are carbonate-sericite-pyrite altered. Very weak qtz stringers contain pyrite and calcite. Pyrite is disseminated and also in veins. Weak to moderate carbonate veins. Trace hematite veins (and trace disseminated red hematite)

Structure - 209.60-210.45 shear and carbonate veining 0° to C.A.
215.25-215.35 shear 60° to C.A.
219.20, 220.70; 221.0 m shears 1-3 cm width 70° to C.A.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	222.88	224.18	DMAF	—	—	—	—	0	0.5	0	0.5		0	0	W	0	0	0	0	W	0	TR	W

Lithology - pale to dark green Pyroxene-Biotite amygdaloidal dike. Approx 3-5% euhedral brown/black biotite phenos 2-4mm and 10-15% subhedral to euhedral pyroxene phenos which are highly sericite/carbonate altered. Biotite is soft and appears to be highly altered as well. The groundmass is aphanitic. The dike contacts both upper and lower seem to be undulating irregular at approximately 60° to C.A. The DMAF is cut by carbonate and hematite-carbonate veins. Amygdules are filled with white calcite. Amygdules are irregular 1-3mm 2-3%.

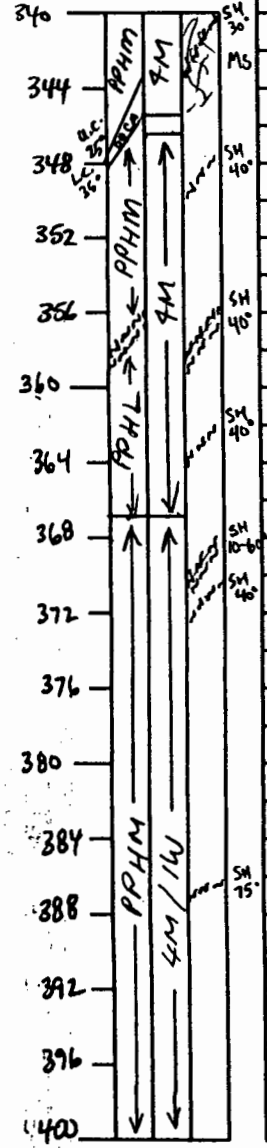
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 171
Logged By: T. Fraser
Date: July 23/95

Graphic Log (m)



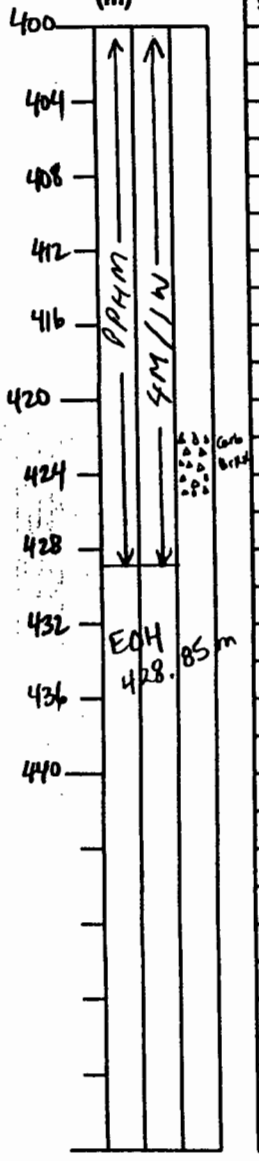
PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	224.18	271.25	PPHM	4	M	1	W	0.4	4	0	3		0	TR	M	0	0	vWs	W	W	0	TR	W
			Lithology - Strong ac identified 249.65 - 198.10 m but colour ranges from pale green to pale orange / tan. Three phases hornblende porphyry.																				
			Alteration/Mineralization - Unit is close phase are weak to moderately sericitized and chloritized. Feldspar phases are beige / tan colour - due to weak alteration to sericite/carbonate. The unit is cut by weak quartz veins. Trace pyrite throughout. Weak carbonate veins cut pyrite veins. Trace red/brown hematite veins showing the intensity of hematite alteration. Trace to 5% disseminated pyrite and associated hematite alteration. Trace to 1% chalcopyrite. Overall, the unit has 5-10% disseminated pyrite and associated hematite alteration. Trace to 1% chalcopyrite. Very weak stockwork carbonate - pyrite - chalcopyrite. Trace chl. within the veins. Trace sphalerite / galena in carbonate veins.																	
			Structure - 230.17 - 230.40 FMAF (undulating 10° C and L.C.)																				
			240.50 shear with gauge 10° to CA																				
			257.20 - 257.40 shear with carbonate and chalcopyrite vein.																				
			258.27 - 258.31 gouge 50° to CA.																				
			261.50 - 261.67 PRRIN																				
			271.25 m LC. PPHL marked by carbonate vein 40° to CA.																				
	271.25	308.43	PPHL	2	M	4	M	<0.3	8	0	0		0	0	M	TR	TR	TR	W	W	0	0	W
			Lithology - Rusty to light green colour dark phase plagioclase porphyritic unit which is highly porphyritic. Plagioclase phenos comprise 40-45%, subhedral 1-4 mm. Hornblende phenos are beige coloured, subhedral 1-2 mm in length. Hornblende phenos comprise 8-10%.																				

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 171
Logged By: T. Fraser
Date: July 24/95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
			Alteration	Mineralization — The unit is debrisively fresh but plagioclase phenos are moderately sericitized. The groundmass is altered. Patchy pervasive chlorite staining gives the rock a pale green colour. Non-visible phenos are beige-carbonate-sericite-pyrite altered. Locally, the unit is weakly chloritized. Fine disseminated pyrite > veinlet pyrite. Weak to trace veinlets containing a black mineral - probably Tourmaline (?) and disseminated pyrite. Weak carbonate veins cut pyrite veinlets. Trace qtz + pyrite veins and rare pyrite veins with thin qtz envelopes.																
			Structure -	276.90 - 277.0m Shear/rock breccia 70° to C.A.																				
				280.36 - 280.38 shear 80° to C.A.																				
				281.95 - 282.0 m Shear 30° to C.A.																				
				284.0 - 284.02 Shear 80° to C.A.																				
				293.20 Shear 80° to C.A.																				
				294.60 Shear 40° to C.A.																				
				304.30 - 304.45 m Shear 30° to C.A.																				
				306.70 - 306.76 Shear with gouge 40° to C.A.																				
				308.43 m Upper contact of PPHM is marked by an intrusive breccia @ 40° to C.A.																				
	308.43	313.20	PPHM	4	S	—	—	0.5	3	0	TR		0	0	S	0	0	Ms	W	TR	0	TR	M	
				Lithology - Same as mineral 307.80 - 292.88 m but the unit is buff to pale green in colour. Locally primary texture is obliterated. For the most part, hornblende and plagioclase phenos are visible.																				
				Alteration/Mineralization - Plagioclase phenos are strongly sericitized as well as the matrix of the porphyry. Hornblende phenos appear																				

DRILL HOLE NO. 95 - 171

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 171
Logged By: T. Fraser
Date: July 24/95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				to be carbonate-sericite-pyrite altered (beige). Moderate to strong stockwork consists of grey quartz veins containing disseminated & stringer trace quartz-pyrite & molybdenite veinlets. Several pockets of carbonate material contain blebs of chalcopyrite. Disseminated pyrite > veinlet pyrite. Trace quartz-hematite-pyrite veins near end of the interval. Trace carbonate veins. Trace red hematite veins and locally 2% - 5% disseminated hematite.															
				Structure - 313.20 m lower contact of PPHM is marked by a 2 cm shear @ 38° to C.A																		
	313.20	320.55	PPHL	3	M	—	—	0.4	5	0	0	0	0	M	TR	0	TR	W	vW	0	0	W
				Lithology - Same as interval 271.25 - 308.43 m																		
				Alteration/Mineralization - plagioclase phenos and groundmass are moderately sericitized. Approximately 5 to 40% (locally) of finely disseminated pyrite is surrounded by sericite halos which are usually 2 mm in width. This distribution of pyrite/sericite gives the unit a mottled/spotted texture. Disseminated pyrite >> veinlet pyrite. Chalcopyrite is finely disseminated throughout. Typically the pyrite veins have qtz envelopes. Very weak carbonate veins cut pyrite veins.															
				Structure - 319.0 m Shear 10° to C.A. 320.55 m lower contact of PPHL is marked by a shear with gouge @ 60° to C.A. The width of the shear is 10 cm.																		

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 171
Logged By: T. Fraser
Date: July 24/95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A: gypsum	H:	Fr.	
	320.55	345.70	PPHM	4	M	-	-	0.6	4	0	1		0	0	M	W	W	Ms	W	TR	W	TR	S	

Lithology - same as interval 308.43 - 313.20 m.
Alteration/Mineralization - this unit contains the same alteration type/intensity from 320.55 - 327.70 m as the previous PPHM interval (308.43 - 313.20 m) and the remainder of the unit appears to be weakly hornfelsed. Plagioclase phenos are highly sericitized. The groundmass also appears to be pale green - sericitization + ?moderate sericitization. Weak kaolinite altered plagioclase phenos (patchy). Fluid is dissem. pyrite + pyrrhotite ≥ vein associated py. Hornblende phenos (beige) are carbonate-sericite altered. Moderate grade stockwork contains disseminated pyrite and chalcopyrite. Trace gypsum veins and carbonate veins. Trace hematite veins and veinlets. Weak pyrite veins.

Structure - 321.50 - 321.65 m qtz-carb breccia
327.70 - 328.42 shear with gouge 30° to C.A.
328.70 - 329.?? 45° to C.A. gouge/shear.
331.20 - 334.20 FDRM.
341.84 - 341.90 shear 30° to C.A.
341.60 - 341.70 gypsum vein 40° to C.A.

	345.70	346.77	DQCA	—	—	—	—	0	0.5	0	0.5		0	0	W	0	0	0	0	W	0	0	W	

Lithology - DQCA dike is pale to medium olive green colour. The groundmass is aphanitic with rare phenos 1 mm sized (possibly plagioclase/pyroxene). Phenos comprise approximately 2-3% overall. The dike has 1 cm chilled margins and possible flow banding. Small Vol in the lower contact. Amygdules are filled with carbonate and occasionally red 1% orange hematite (approx. 5-7% amygdules). Finely disseminated pyrite. Dike appears sericitized and cut by carbonate veins.

LC 345.70 m 25°
UC 346.77 35°

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 171
Logged By: T. Fraser
Date: July 25/95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	346.77	358.00	PPHM	4	M	—	—	0.6	4	0	1	0	0	M	W	W	M	W	TR	0	TR	S
				Lithology – same as above 338.43 – 343.70 m																		
				Alteration / mineralization – same as above (moderate to strong chlorite alteration. Less																		
				but there are pyrite veins. Local bornitic staining (pseudobiy). Pyrite veins are typically																		
				1-3 mm wide with selvages of chlorite alteration. Most veins are parallel to the foliation																		
				carbonate veins. Moderate to strong silicification of plagioclase																		
				phenos are altered to sericite and the groundmass.																		
			Shear	–	348.70 m		shear 40° to C.A															
					353.15 – 353.20		Shear 70° C.A.															
					357.65 – 358.00		shear 40° to C.A → marks the lower															
					contact of the PPHM unit																	
	358.00	366.95	PPHL	4	M	—	—	<0.3	4	0	0	0	0	M	0	0	0	TR	W	0	0	W
	Lithology – Pale green to pale green to Late Phase plagioclase hornblende																					
	porphyry. Moderately porphyritic with 25-35% 1-3 mm																					
	plagioclase phenos. Mafic phenos are commonly sericite																					
	altered 1-4 mm euhedral (rare). The rock is moderately																					
	altered with existing ground mass.																					
	Alteration / Mineralization – Pyrite as disseminated throughout approximately																					
	5 to 10% fine grained and blebby pyrite. Trace pyrite veins.																					
	Weak carbonate veining. Grade of PPHL are komatiite																					
	shear contact.																					
	Structure – 363.12 m Shear 40° to C.A.																					

DRILL HOLE NO. 95 - 171

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 171
Logged By: T. Fraser
Date: July 25/95

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm		Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	366.95	428.85	PPHM	4	M	1	W	0.3	4	0	2		TR	W	W	0	W	TR	W	W	W	0	W

Lithology - Same as interval 149.65 - 198.10 m But unit is buff to pale orange to brick red in colour.

Alteration/Mineralization - Alteration varies in this unit from weak qtz - carbonate - pyrite - sericite to weak/moderate potassic (with Kspar and biotite).
Plagioclase phenos are moderately sericitized. The groundmass is weakly sericitized to Kspar altered. Trace to very weak qtz veins contain disseminated pyrite and occasionally carbonate. Pyrite is generally disseminated. Locally there is fine grained disseminated chalcopyrite. Weak to trace carbonate veins. Locally 2-5% disseminated hematite (red). Trace carbonate - PV - sphalerite - galena vein. Trace to weak tourmaline - pyrite veins and up to 3% disseminated tourmaline locally. In potassic altered areas there is possible biotite altered mafics. Weak gypsum veinlets.

Structure - 369.75 - 370.10 m Shear 10 - 60°
371.25 - 371.48 Shear 40° to C.A.
381.0 - 381.10 Shear 20° to C.A.
386.55 - 386.75 Shear 75°
401.73 1cm Shear 30° to C.A.
412.42 - 412.53 gouge and 412.53 - 412.83 carb vein 0°
415.45 - 416.75 PBRM
422.00 - 425.06 carb-qtz breccia U.C. 10°, L.C. 20°

EOH 428.85 m

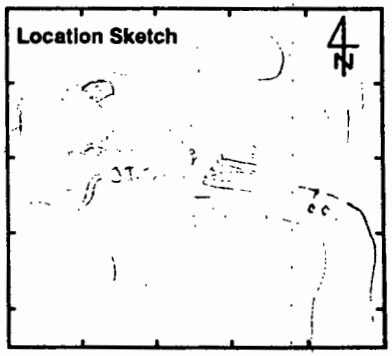
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 172

AMERICAN BULLION MINERALS LTD.

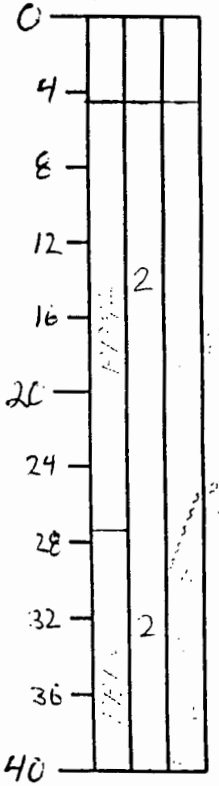
Location Sketch



Grid Northing (m):	100 000	Date Started:	July 25/95
Grid Easting (m):	49 800	Date Completed:	July 28/95
Elevation (m):		Logged By:	B. Thurston
Total Length (m):	261.21	Date Logged:	July 26/95
Casing Depth (m):	4.27	Data Entry:	
Reduction Depth:	—	Entry Date:	
Collar Core Size:	HQ	Casing (In/Out):	Rods stck/110' Lost + core tube

Survey	Depth	Azimuth	Dip
1	154.53	181°	-60.5°
Rods	Stuck	∴ No	other
			tests

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Mag	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	0.00	4.27	CASN																				
P	4.27	27.30	PPHL	2	m			<.20	2	0	0	0	0	0	M	W-M	?	0	0	T	0	0	W
				Lithology:				Pale → bleached appearance to grey core. Good porphyritic texture															
				Mnz:				Plagioclase pheno's 25→30% zoned subhedral to places where															
				Altn:				the blend into groundmass but always carbonitized ± sericitized. Mafic															
								pheno's ~4→5% also look sericitized ± chloritized? Good															
								crystal shapes, euhedral. Py is diss. throughout. Very few															
								fine carbonate veins. Pluck-Brown material as envelopes															
								on fractures looks more like Bo than term (very very soft)															
								First 10m are quite clay altered. Limonite to 6 m.															
								* Plag. pheno's are replaced by calcite very strong → intense Fizz.															
								Calcite is also strong in fractures but not in groundmass.															
				Structure:				* a couple small shears ~20°															
								* 19.20 → 19.80 m Gouge but no angle or rock change															
								* L.C. Sharp 10cm Gouge @ 20°															
P	27.30	41.35	PBRL	2	m			<.20	4.5	0	0	0	0	0	M	W	?	0	T	T	0	0	S
				Lithology:				Same rock material as above. Rounded → partially assimilated															
				Mnz:				fragments ~20→30% of the rock. There are porous sections															
								(? what is leached out) which may be the reason core is															

DRILL HOLE NO. 95 - 172

Page 1 of

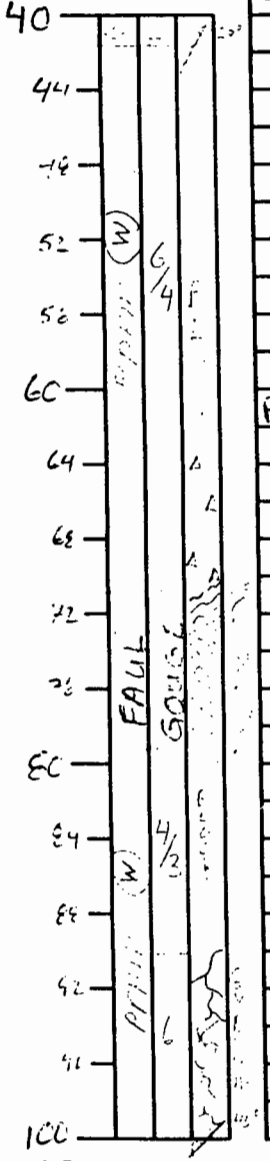
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 172
Logged By: B Thurston
Date: July 26/95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
								blocky. Black → brown material continues along fractures															
								Py continues to be diss. but a 1cm Py vein @ 50° w/															
								carb selvages occurs. Over all the porphyritic texture is															
								poor. Calcite is mod → strong in fractures & not as plag.															
				Alt'n				phenc's replacement. Ser - Py ± Qtz replacement.															
				Structure:			*	fragments ~20 → 30%															
							*	Very Blocky section but core is solid & competent.															
								(Something is leaching out of fractures?)															
							*	L.C. Sharp < 1cm shear @ 28° w/ lots of diss red He around it.															
P	41.35	70.71	PPHM	1	m	4	T	1	3	c	T		T	m	m	w	?	w	T	T	o	o	S→M
				Lithology				Green-Grey to a buff colour. Porphyritic texture is preserved															
				minz:				in patches. Mostly plag. phenc's blend in w/ groundmass. Sericit-															
								ization is moderate throughout phenc's & groundmass. Mafic															
								phenc's appear chloritized but are rarely preserved. Qtz															
								Stockwork is weak throughout. Veins are Grey & blend															
								in with rock colour. Vein boundaries are not sharp but															
								are not fuzzy either, they are somewhat irregular. Hematite															
								is mainly observed in quartz veins (trace). Magnetite is perv.															
								to diss & along fractures increasing in intensity down section															
								Py is diss = fractures w/ rare larger veins. Cpy is dominantly															
								diss assoc. w/ the rock around Qtz stk-work but is strong															
								along py veins/fractures as well. Calcite is very patchy															
								from weak along fractures to strong pervasive. * See Structure *															
				Alt'n			-	K-spar is moderate pervasive in groundmass, Mag + He + Bio (trace)															
								w/ possible chloritization of mafics															
							-	Ser + Py ± carb ± Qtz weak throughout.															
				Structure:			*	Mod → strong blocky down section.															
							*	No strong shear but a different Rock type is fadeing in															
								& out of this unit. Cpy on Py fracts but not diss throughout.															

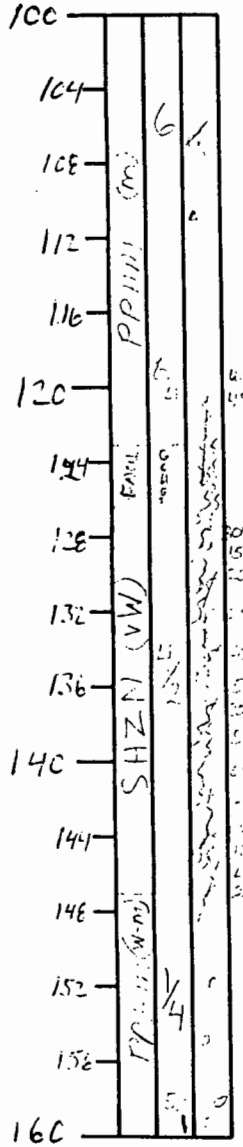
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 172
Logged By: B. Thurston
Date: July 27/95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Mag	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				Structure: * ~64 m → 71 m is weakly brecciated. Alteration makes it difficult to tell. Core is quite blocky & clay altered.																			
P	70.71	78.94	FAUL						4							S							
				Lithology: * No angles to measure. 80→90% Grey Gouge ± Clay.																			
				Structure: * Gouge.																			
P	78.94	90.00	PPHM	4	M	3	M	.90	2.7	o	T		T	T	S	W	o	W	T	T	T	o	S
S	90.00	123.00	PPHM	6	S	4	T	.75	45	o	T	*	T	S	W	W	o	W	T	W	W	o	W
				Lithology: minz. Altn:				78 → 90 m is dark green grey rock w/ a mottled appearance due to sericite blebs & envelopes. Porphyritic texture is mainly destroyed. Strong sericitization of plag. phenos & groundmass. Mod clay altn. Py is mainly on fractures w/ cubic py. Very blocky & sulphides on fractures are well developed & thick ∴ think that possibly Gypsum leached out. Carb as fracture filling / veins trace. Cpy mainly on fracture surfaces w/ Py (thick).																
								* Gypsum Veins / Stockwork moderate From 88 → ~100 m. 90 → 123 m Rock is dominantly dark brown → dark Green w/ porphyritic texture preserved in patches. Larger Plag phenos are usually partially sericitized, subhedral grains that blend into the groundmass which is strongly potassically altered w/ pervasive K-spar. Mafic phenos are chloritized throughout. He is <0.5%. Magnetite is patchy, usually mod pervasive & in veinlets. Py is dis & along fractures. Cpy is extremely fine grain, observable on cut surface but less common on fractures ∴ grade estimates may be aff.																
				Structure: * Very Blocky to 88 m.																			
				* Small shears @ 20° & Less & @ 40° → 45°.																			
				* L.C. is ~ 1m @ 4° to C.A. Sharp																			

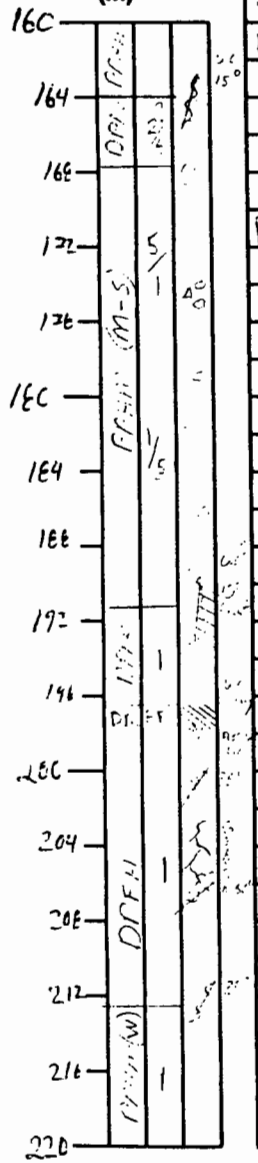
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 172
Logged By: B Thurston
Date: July 27/95

Graphic Log (m)



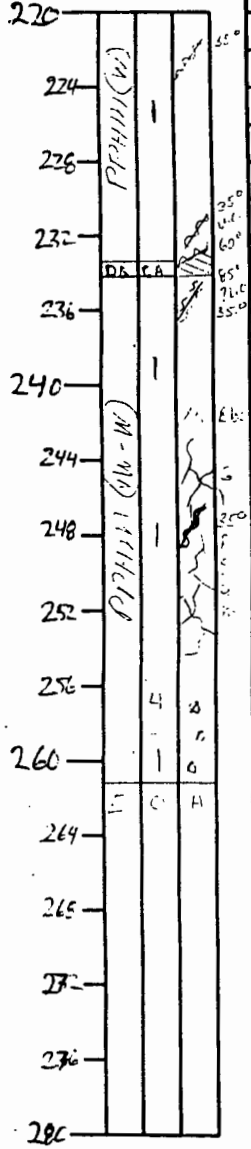
P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	EP Chl MAG	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	123.00	126.00	FAUL					.60	5														
				Lithology:				* 90% crushed rock & Gouge material. Grey colour w/ strong clay.															
				& Structure:				* U.C is over 1m @ 4° sharp.															
								* L.C. is? into shear zone.															
P	126.00	147.00	SHZN	4	m	2	m	.70	4	o	o		T	o	m	m	o	vW	o	T	o	o	m
				Lithology:				Similar material as above the Fault w/ more phyllic → Ser + Kaol															
				Alt'n:				Ank ± Qtz alteration with a larger clay component due to															
				Minz:				shearing & fracturing. Carb is observed throughout mainly sheared															
								in rock. Qtz veins also sheared up. Porphyritic texture mainly															
								obscured. Calcite is weak observed mainly is small microfractures.															
								Py is diss and in sheared brown sulphide py masses. Cpy is mainly diss															
								and is very fine grain.															
				Structure:				* Entire unit is mod → strong sheared w/ multiple small															
								gouge filled shears/fractures															
								* Unit has Structurally related Breccia units.															
								* Shears are mainly 2° → 5° w/ 30° → 40° smaller & less mineralized.															
								* L.C. is sharp @ 1 m 20° SH.															
P	147.00	164.00	PPHM	1	m	4	w	.80	4.5	o	1	*	T	m	m	w	T	W	o	T	o	T	W
				Lithology				Rock is light Green to pale orange to Grey green to Very dark Green + Orange. The unit															
				& Minz:				has fragments throughout that resemble alt'n patches or are															
								mixed w/ alt'n patches. Porphyritic texture is sometimes preserved															
								in plag phenos but mainly everything is blending into groundmass.															
								Sulphide stringers < 1mm are throughout w/ small phyllic envelopes.															
								Qtz stk-work is vW → M usually small veins w/ fuzzy (irregular?) boundaries.															
								Carb veins are also very small ~ 2mm avg. or fracture filling.															
								He is diss & stains core. Mag is pervasive. Tourmaline is diss < 1mm dia															
								Py is diss = fracture filling. Cpy usually 50% in Qtz veins, 50%															
								diss around them & on Py fractures. Calcite mod pervasive & fractures.															

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 172
Logged By: B. Thurston
Date: July 28/95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	EP MAG CHL GAL	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				Alth:		147	→ 156.6m is aphanitic & fetasitic & sericitic. Hbl:																
							weak to mod. sericitized, clay altered, k-spar																
							Hbl is also patchy. Hematite occurs as dom																
							matrix & as dark red → black																
				Structure: *		Fragments are ≤ 5%																	
						fleeted, plag phenos are halved in size																	
						* Assymilated contact w/ next unit. (156.6 → 164m)																	
P	164.00	167.66	DPFH	2	?	4	?	<3	3	o	c		T	c	m	wm	?	o	c	c	c	c	c
				Lithology:				Plag-hbl-cpx porphyry ~ 30% plag phenos & <5% mafics (Hbl)															
				Min:				that are lathlike & ratty. The mafics partially stand out in dry &															
				Alth:				wet core & show minor lineation. This unit somewhat resembles															
								late phase porphyry but @ ~192 m another DPFH is observed identical															
								to this one the twins strongly potassic in core of dyke alone w fresher															
								chloritized mafics. If this dyke was bigger it would probably be															
								potassic in centre. Py is diss & weak on fracture surfaces.															
								Ser ± Clay ± Anh ± Py.															
				Structure: *				U.C. 3cm undulating Ax/S H & 15° @ 3cm of assymilated material.															
							*	L.C. ~ 20cm assymilated, fine sheared.															
P	167.66	191.11	PPHM	1	III	5	m	.9C	3.5	o	<2	*	w	m	m	w	T	III-S	T	T	c	T	W
				Lithology:				** This description also applies to (156.6 → 164.m)															
								Core is very dark green → dark orange → dark brown. Porphyritic															
								texture is preserved in plag. phenos that are sericitized and															
								trace clay altered. Mafics are most often ratty but sometimes															
								chloritized. Overall porphyritic texture is blurry. Some sections															
								are cyanitic and very dark green to black in color resembling															
								the hornfelsic rocks observed in other holes. Alth has given a															
								patchy appearance to the core. This along w the dark core															

DRILL HOLE NO. 95 - 172

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 172
Logged By: B Thurston
Date: July 29/95

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
								masks the fragments w-in the unit. Frags are rounded & <5%															
								I believe. They are most easily observed when rock is cut & stained.															
					Mine:			Py is diss (<1% total) ≤ fractures & veinlets. Cpy is in Qtz-Sth-Wbh															
								that is Mod → Strong throughout, as well as diss in rock															
								assoc. w Py. ** Cpy is very very Fine dust & is even															
								difficult to see on fresh broken surface? grades are															
								close but?															
				Alt'n:				* Propylitic DPHM. This is the first I've seen on this deposit!															
								- Epidote is on Py veins/fractures & diss in rock especially/only?															
								the volcanic looking rock (I don't think it's volcanic?)															
								- Magnetite is pervasive w Hem & along Fractures (especially)															
								- Chlorite is strong in groundmass & some mafic phenos															
								- Calcite is very strong pervasive in groundmass															
								- K-spar is moderate to strong pervasive & sometimes K-spar															
								frags are highlited against Non-potassic groundmass.															
								- To is observed Trace diss.															
				Structure:				* Small shears 25°, 45°															
								* L.C. w DPFH is indistinguishable but a 1m, 10° sh/fracture															
								is the possible contact.															
P	191.11	196.60	DPFH	1	m			<.3	2.7	o	<1		T	m	m	w	?	o	o	T	o	o	w
				Lithology.				Same as 164 → 167.8 m except Core of dyke is strong potassic															
								& mafics are fresher looking to chloritized & show lineation.															
								This is definately DPFH & the Bleached contact looks															
								so much like 164 → 167.8 m that that is assumed DPFH.															
								No Structure. Black-Brown stuff on fracts, To?															
P	196.60	197.25	DMAF					No contacts to measure Angle, Assym & Blocky.															
P	197.25	212.55	DPFH	1	m			<.3	2.7	o	<1		T	m	m	w	?	o	o	T	T	o	w
				Lithology:				described above DMAF. However vw → Trace gypsum veining 203 → 203m															
				Structure:				& Mag @ 209 → 212m					L.C. sharp @ 35° 1cm										

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 172
Logged By: B. Thurston
Date: July 28/95

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Chl (Mag)	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	212.55	233.25	PiPHm	1	m	5	?	.6C	2	c	<2	*	W	m	m	W	T	W	T	T	c	c	W
				Lithology:				This unit is the same as Before the PFH (From 167→171m)															
								Qtz is m→s from 212→218m then becomes weak.															
								* Chlorite here is fresh / not Mag. ? Cp is															
								slightly decreased.															
				Alt'n:				Potassic is dominant. Propylitic is possible but patchy & weak. Epidote															
								is observed. Calcite is patchy & strong															
				Structure:		*		45° ish Breccia stylolith.															
						*		L.C. w/ Dyke @ 60° ish SH															
						*		20cm shear @ 231m @ 85°															
P	233.26	233.96	DGCP						T							m							W
				Lithology:				Typical PGCP, beige → tan, <1% amygdules. (carb)															
P	233.96	261.21	PPHm	1	m	4	W	.66	3	c	<2	*	T	m	m	W-m	W	W-W	T	T	W	T	W
				Lithology:				Very dark green-brown ±clean to core, with occasional bleached															
				min:				sections. Porphyritic texture observed in plag & to a lesser extent															
				Alt'n:				mafic phenos. Plag phenos are often larger ~3-5mm in fuzzy grains															
								that fade into groundmass. This along w the potassic ±clean/texture															
								gives the core a PPHM appearance. Qtz stockwork is vW→weak usually															
								small veins <0.7mm ± sulphide centres. Gypsum veining is /															
								weak alt. Blocky zone @ 243m to bleached, clay altered, fragmental															
								unit @ 256→259m. Carb veining is Trace. Calcite is med→strong															
								pervasive in groundmass of potassic core. Py is diss + fractures, patches & veins.															
								Cp is diss + Qtz veins. Hm diss & stained Magnetite in micro veins &															
								patches that seem pervasive. Some mafics chloritized. Tourmaline diss															
								specks / rosettes <1%. K-spar pervasive. Sericitization mod. throughout.															
				Structure:		*		Bleached clay alt'd from 256→259m followed by breccia tion / fragments															
						*		L.C. @ dyke is ~ 65° sharp but I question it if it is the correct contact.															
						*		Small shears @ 55° throughout.															

DU

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

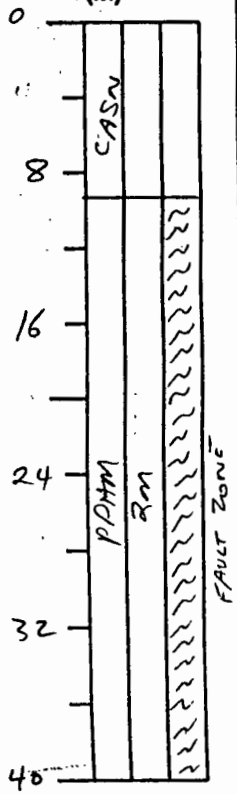
DRILL HOLE NO. 95 - 173

Location Sketch

Grid Northing (m):	99200	Date Started:	JULY 26th '95
Grid Easting (m):	48800	Date Completed:	JULY 31st '95
Elevation (m):		Logged By:	IAN FOREMAN
Total Length (m):	349.61m	Date Logged:	JULY 27th '95
Casing Depth (m):	54.86m	Data Entry:	—
Reduction Depth:	—	Entry Date:	
Collar Core Size:	NQ	Casing (In/Out):	IN OUT 24.38m

Survey	Depth	Azimuth	Dip
S.S.	152.4m	172.5°	-60°
S.S.	304.8m	174.5°	-61°

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	0.0	9.14	CASN																			
	9.14	57.00	PPHM	2	m			0.4	3	/	/	/	/	m	w	/	/	/	/	/	/	I
					LITHOLOGY:																	
					Generally, light grey to light green, aphanitic to very fine grained, massive to locally weakly foliated rhyolite (bedded tuff?). The unit is brecciated in 15-20% of the core as 2-3cm angular white to light grey siliceous clasts to clast supported breccia. Further subdivision is hard to distinguish and the largest piece is only 4-5cm. This unit is interpreted to be late phase - and mechanically, it is probably, although by the presence of chlorite-hematite veinlets? This is similar to PPHM(?) at 115-130 m.													
					L.C.:																	
					in missing core																	
					ALTERATION:																	
					This unit may be phyllic - ser/ill as the main alteration with (Qtz-Cb-Py). The predominate alteration is silicification																	
					STRUCTURE:																	
					- 9.14 - 44.61 m - Fault Zone. This is the same Fault Zone that has been intersected in holes 95-150, 165 and 170.																	

DRILL HOLE NO. 95 - 173

Page 1 of

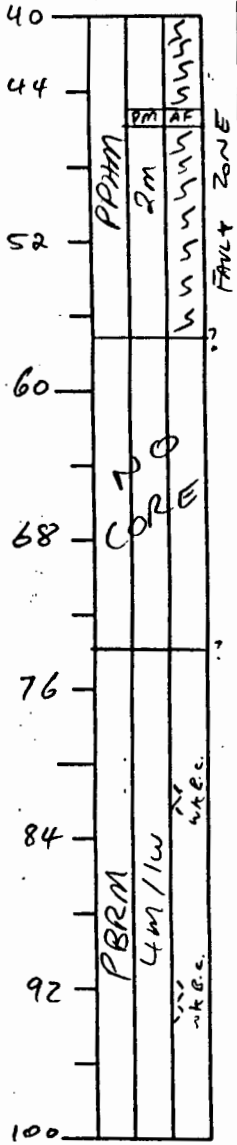
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 173
Logged By: 27 JULY '95
Date: I. FOREMAN

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
	9.14	57.00	CONT'D																					
	57.00	73.46	~~PBRM~~? N/R	-	-	-	-	-	3	-	-		-	-	-	-	-	-	-	-	-	-	-	
	73.46	129.94	PBRM	4	m	1	w	0.4	3.5	—	Tr		—	w	m	tr	—	Tr	Tr	tr-m	w-m	—	w	

LITH. UNIT:

Generally, the unit is light brown to orangy brown in colour, locally it is green. The matrix is consistently a fine grained siliceous to phyllitic nature of the groundmass in an aphanitic, equigranular, with minor, the matrix surrounds 15-20% white to cream - pinkish, light green, 0-5 - 2mm angular to sub-rounded, fragments. Pyrite and 5-10% light to light green colour - fine 0.5 - 2.0mm lithics. The phenocrysts in the groundmass appears to be fine grained, where the phenocrysts in the groundmass appears to be fine grained, 15-20% locally 40% of this unit is made up of phenocrysts. On average, they are 1-2 cm subrounded and have good porphyritic texture. The colour

DRILL HOLE NO. 95 - 173

Page 2 **of**

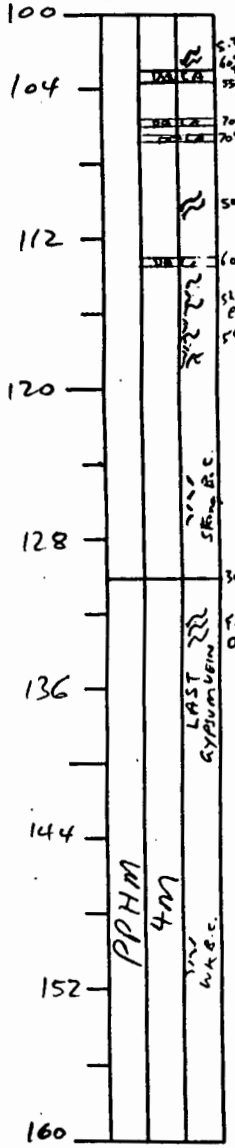
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 173
Logged By: I. FOREMAN
Date: 29 JULY '95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
	73.46	129.94	CONT'D		ad Pt	Sa	me as	ab	ove	ex	cept	fra	dark	bio	.,	th	rough	gre	en,	to	light	gre	y.
					The	lar	gest	fra	gment	mea	sured	is	4-5	cm	bl	d	Since	ma	ny	co	nta	cts	of
					the	gra	nod	ior	ite	fra	gments	are	di	ffuse,	the	se	may	be	lar	ger	fra	gme	nts.	
							Lo	cal	ly,	thi	s unit		ap	pea	rs	mo	re	ma	ssi	ve	and		else	where
					cut	by	50	cm-	1	m	re	d	to	ora	ng	e	fra	gme	nts.	(S	ame	as	mas	si.
									Th	ere	is	a	trace	of			qtz	ver	ning	th	rou	gh	out	the
					de	p	ar	e	3-	15	mm		sub	rnd	ed		qtz	ble	bs	-	wh	ite	A	
					The	re	ar	e																
							3-	4%	Py	rit	e													
					an	d	1-	4	mm															
					L.C:																			
							10	cm																
					ALT	ER	AT	ION:																
									Th	e														
					STR	UC	TU	RE:																
							-81.	95	-	81.	35	m	→											
							-97.	96	-	98		m	→											
							-102	.51	m				→											
							-103.	17	-	103.	4	m	→											
							-106.	21	-	106.	20	m	→											
							-106.	41	-	106.	51	m	→											
							-111.	02	-	111.	42	m	→											
							-113.	70	-	113.	25	m	→											

DRILL HOLE NO. 95 - 173

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 173
Logged By: I. FOREMAN
Date: 29 JULY '95

Graphic Log (m)

160 — 164 — 172 — 180 — 188 — 196 — 204 — 212 — 220

PPHM 4m — PBRM 4m/1w — PBRY 4m(?) — D | QC | A

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	73.46	129.94	CONT'D		-113.70 -		113.64 →	10-	25c..		Sheeni	Zones @	50°	c.l	5-10 cm		sections					
					strong,		bkn	2%			7cm	angular core is strongly										
					-126.25 -		127.10	m →	strongly		bkn	0.5-2cm	ang. core is strongly									
	129.94	173.35	PPHM	4	m			.55	4.5	—	Tr	—	—	m	m	—	Tr	—	w	Tr	—	w
					LITH AND MIN:																	
					Typically the unit is																	
					crowding 20-30%		1-5mm		light			translucent		green - locally									
					to subrounded		qtz's and		15-20%			0.5-3mm		cream to buff			subang. to ang.					
					clasts. The		original		texture			is very well preserved					through 1-2 meter					
					sections		of the		obliterated			over equal		sized			units. Where					
					is obliterated		the unit		has a			weak pinkish		hue - But it			does not					
					stain - Elsewhere,		the unit		locally			appears		brecciated but			Normally					
					be a function		of alteration.		The stain			is actually		weak,			green					
					which is thought		to be a		product			of the		sericite			alteration.					
					What		separates		this			unit is		its			strongly,					
					sericitized		clasts.															
					0.4-0.7%		Chalcopyrite		locally			may		occur			in the					
					groundmass		but		primarily			occurs		in			qtz/carb					
					+/- qtz +/-		gypsum		veins.			In		these			veins it					
					occurs as		0.5-4mm		angular			blebs.										
					Strong		Cpy		mineralization			occurs		in			carb					
					veins		@		136.40m,			159.80m		and								
					170.90m.		Pyrite		primarily			occurs		as			fine					
					disseminations		and															
					in		carb		veins.													
					L.C:																	
					gradational		over		15-70cm			no sharp		contact			noted					
					ALTERATIONS:																	
					Moderate,		locally		strong,			Qtz-Ser-Ank		± Py			alteration.					
					Although		this		unit is			characterized		by			the					
					strong		sericite		alteration			of the		Fp's			and					
					Ank ± Py		veins		of the			FP's.										
					STRUCTURE:																	
					- Trace		qtz		stockwork			throughout		with			it		locally		being		weak.

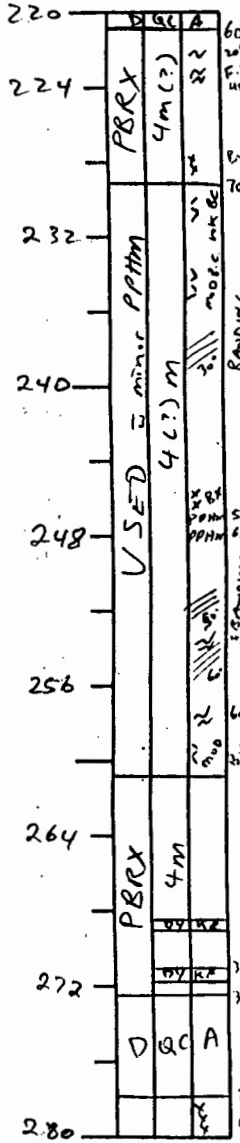
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 173
Logged By: I. FOREMAN
Date: 29 JULY '95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
	179.94	173.35	CONST'D		-132.95 - 133.75 m →			→	F 2- 3cm			hem'd	w/										
					- 137.43 m			→	LAST															
					- 137.43 - 137.61 m			→	stained															
					144.30 - 150.33 m			→	chl.															
					-168.62 m			→	2cm															
	173.35	188.52	PBRM	4	m	1	w	.40	3	/	tr	/	w	m	m	/	Tr	/	w	/	/	w	
					LITHOLOGY:																			
							This																	
					Locally																			
					L.C:																			
							Indistinct																	
					ALTERATION:																			
							There																	
					73.46 - 129.94 m																			
							Fragments																	
					Augmentds																			
					STRUCTURE:																			
							-	183.96 →	1-7cm															
	188.52	217.73	PBRX	4	m(?)			.35	5	/	tr	/	/	m	m	/	Tr	/	m	/	/	w	
					LITHOLOGY:																			
							This																	
					The																			
					also																			
					texture																			
					be																			
					locally																			
					The																			
					surrounded																			

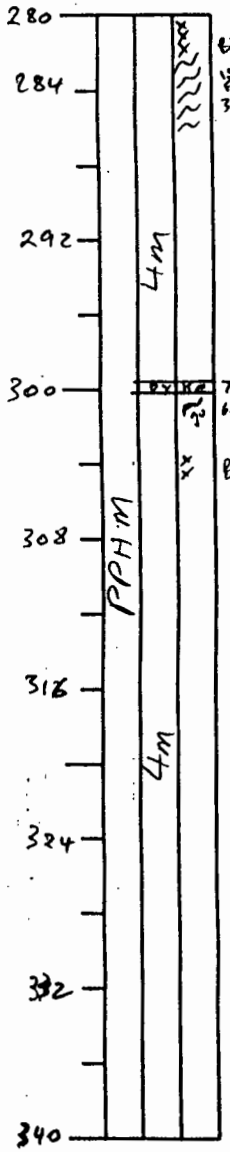
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 173
Logged By: I. FOREMAN
Date: 30 JULY '95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	188.52	217.73	cont'd																			

Pegmatite veins are typically 3-6cm wide, subparallel to core axis. Locally 20cm sections are massive aplite. 1-3mm veinlets of pyrite blebs discontinuously throughout and are greenish-grey. PERSONALLY, I think that these are sections of VSED that are either bx'd or the bx is including the VSED. The other possibility, however, is that these are very altered porphyritic fractures obliterated. This does not explain the presence of weak banding.

Hematite is disseminated throughout the unit, 3-5% pyrite occurs on radial discontinuous fractures throughout, locally in 1-3 mm blebs/clots. Pyrite also occurs in quartz veins and as fracture fill.

0.3-1.0% Chalcopyrite is locally structurally controlled and occurs in "mottled" carbonate and qtz veins. The qtz veins are moderately high in Py but low in CPy. CPy also occurs as blebs and in pockets. Specks of Moly were noted in a qtz/carb vein @ 200.25m. Very strong CPy mineralization occurs in a carb-qtz vein @ 205.25 to 206.55m.

L.C.:

Loss to ISOCA @ 50°

Alteration:

Two unit dacite and strong VSED. The volcanic is sodic(?) altered and displays pervasive sericite alteration. The quartz veins are qtz-py-Ank ± Kfsp ± Alt'n.

STRUCTURE:

192.45m - 192.65m → Ank bk. Broken core in box

192.48m → Slip in bottom Ank qtz vein @ 50°

208.58 - 208.96 → gouge @ 50° at either side of Sheared core @ 50°

217.28 - 217.41m → Fault zone in gouge @ 35°-40°

215.24 - 215.87m → gouge covered Ank core

217.24 - 217.3m → strongly Ank clasts in core in gouge ± bible

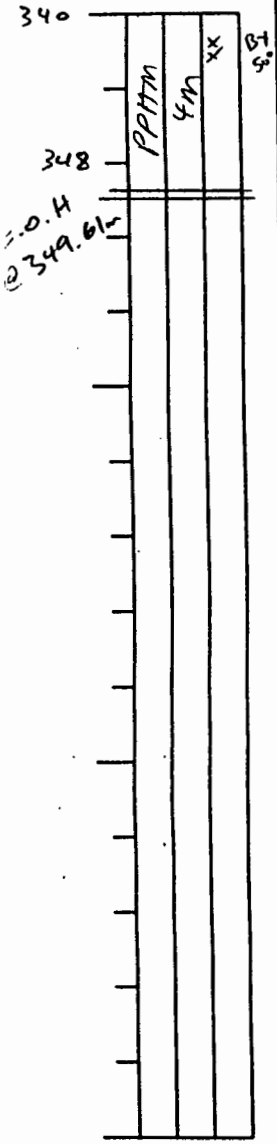
	217.73	220.92	DQCA	—	—	-	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 173
Logged By: I. FORENOR
Date: 30 JULY '95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
	217.73	220.92	CONT'N		LITH + MIN:																		
							aphanitic grey - greenish grey matrix w 20-25% 1-5mm rounded																
							pleros and 2-3% 1+5mm rounded carbonate amygdules. Carbonate																
							veins and stringers throughout. 0° qtz noted.																
					b.c.																		
							Sharp @ 60°																
	220.92	229.39	PBRX	4	m (?)			-3	5	/	Tr	/	/	m	m	/	Tr	/	w	/	/	w	
					LITH + MIN:																		
							The same unoriented breccia as described between																
					188.57 - 217.73m. Except that there is more main phase. 224.64 - 226.28m is																		
					light green main phase. This unit is less mineralized than above to																		
					dyke.																		
					b.c.																		
							lower contact is sharp @ a qtz vein @ 70-75°.																
					STRUCTURE:																		
							222.0m → Shear @ 70°																
							220.42 - 222.80m → mod bkn core w some and possibly slip parallel to C.A.																
							223.15 - 224.15m → weak F.Z. w 5-10cm bk. arg 1-3cm core and 1-3cm grey															
							in clay @ 45°.																
							228.3 - 229.79m → bx w 50% 1-5cm subrounded fragments surrounded by																
							black matrix (fine-grained rock?) matrix																
	229.39	260.80	USED	4(?)	m			.45	6	/	/	/	/	m	?	/	Tr	Tr	w	/	/	w	
					LITH + MIN:																		
					A light greenish grey, massive unit. The matrix is aphanitic and																		
					generally siliceous (as being hard) locally in green and very weakly																		
					pinkish brown. The matrix contains 10-15% white to beige angular to rounded																		
					4mm grains. No mafics noted. Locally, however, possible phenocrysts are noted																		
					They comprise up to 10-15% of the rock and tend to be subang																		

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 173
Logged By: I. FREEMAN
Date: 30 July 95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	229.39	260.80	cont'd																			

<1-2mm and fracture-rel. Light grey. These may be fine. Elsewhere, they unit in banded to elongated by either a concentration of pyrite in 1mm bands or a change in grain size.

5-7% pyrite occurs as fgrd disseminations and in 1-4 mm fgrd rounded blebs, which commonly have chlorite around the edges. Pyrite also occurs in qtz veins and as stringers and/or fracture fill.

0.3-0.6% Chalcopyrite occurs predominantly in qtz/carb veins. Cpy also occurs in carbonate blebs and as fracture fill.

LOG:

Skarn @ 4-5 cm carbonate vein @ 50° (?)

ALTERATION:

In general the core is quite soft and can easily be scratched by a nail. The core is dominated by the mustard green tinge is possibly due to pervasive sericite alteration. Between 259.88-260.80m a bright green v. fgrd mineral (meriposite?) that is commonly seen in late phases occurs up to 3.5%. Elsewhere pyrite veins have sericite selvages

STRUCTURE:

231.45 - 231.92m → with bkn along core at low gauge

236.72 - 236.92m → with mod bkn along 1-4cm core = gouge

237.31 - 237.49m → strongly bkn 1-2cm along core = gouge

238.93 - 239.20m → bkn along @ 30°

246.05 - 246.27m → by a black aphanitic matrix = slips @ 30°

246.97 - 246.99m → PPHM with clay gouge @ 50°

247.52 - 247.82m → PPHM with clay contacts @ 60-70°

252.15 - 252.40m → PPHM bkn along @ 30°

254.68 - 254.98m → shear zone @ 60-70°

255.45 - → PPHM bkn Diorite @ 60°

257.45 - 257.70m → mod bkn 1-4cm along core = gouge

258.60 - 258.73m → shear/fault zone = gouge @ 60°

259.75 - 260.31m → mod. strongly bkn 0.5-3cm along core = gouge.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 173
Logged By: I. FOREMAN
Date: 30 JULY '95

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
	260.80	272.34	PBRX	CL	M			1-2	7	—	TR		—	W	M	M	—	M	—	W	—	—	W	
					LITH + MIN:																			
					This is a strongly bleached and brecciated unit. >90% of this unit is light green/grey volcanic sediments. Locally, light grey/green subrounded 0.5-5.0cm grains (phenos) make up 10-15% of the rock. Use intensity of the light to 10-20% 0.5-2.0cm subrounded grey to light lapilli-block fragments. A majority of the fragments are massive. This unit may also be termed USED and described as being															
					1-2% Pyrite occurs as fg-vfg disseminations and 1-3mm rounded																				

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 173
Logged By: I. FORENA
Date: 30 JULY '95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Mineralization Typ	Mineralization Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	260.80	272.34	cont'd		will 25% light green angular to sub-rounded fragments in turn intruded by a dyke(?) of fine grained DMAF with 20% clear to light green 1-4mm angular to sub-rounded fragments. Upper contact is @ 35° and lower contact is @ 30°																	
	272.34	278.05	DQCA	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	W	—	—	W
					LITH: locally this dyke appears to be a fine grained grey groundmass, 10-15% clear to light grey angular to sub-rounded 2-5mm rounded quartz eyes and several phenocrysts of possible plagioclase. Locally there is a total lack of quartz eyes in this dyke which is usually coloured with 10-15% grey blebs. Between 275.60 - 275.78m is light green PPHM.																	
					L.C: Slope @ 70°																	
	278.05	349.61	PPHM	4	m			Tr	2%	—	—	—		m	m	—	Tr	—	W	W	—	W
					LITH + min: The light grey to light green aphanitic groundmass surrounds 15-20% 1-4mm cream to light green subhedral to subangular plagioclase and 10% light to dark green and 0.5-3mm angular to subrounded quartz eyes. Generally the porphyritic texture is well preserved but locally it is destroyed giving the core a massive appearance. Locally the unit is weakly to moderately brecciated over 10-30cm. The fragments are also PPHM and the matrix is generally a fine grained pinkish brown. These sections are generally 5cm to 1m in length. Between 328.34 - 331.12m and 334.65 - 339.80m the core is reddish to rest of the unit. The unit is 3% pyrite throughout the unit and is fine disseminations																	

DRILL HOLE NO. 95 - 173

Page 10 of

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 173
Logged By: I. FOREMAN
Date: 31 JULY '95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm		Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	278.05	349.61	CONT'D																				

1-3mm blebs and fracture fill. Pyrite also occurs in the rare quartz veins. Trace chalcopyrite occurs as grains in the groundmass associated with quartz veining. Between 229.05 - 230.0m cpy occurs as 1-3mm fg'd rounded blebs. Rare gypsum veins contain blebs of sph

E.O.H

ALTERATION:

70% of the unit is moderately Qtz - Ser - Ank ½ Kao alt'd

The discoloured sections (328.34 - 331.12m and 334.65 - 339.20m) are moderately potassic altered as they stain moderately. Locally, pyrite veins/fine fill have sericite selvages.

STRUCTURE:

- 278.05 - 282.57m → The unit is mod to strongly brid
- 282.57 - 286.02 m → Fault zone is mod to very strongly bk. [illegible] to [illegible] slips [illegible] 15° and 30°
- 300.01 - 300.13m → DYKE is strong carbonate veining @ 70°
- 301.11 m → 2-5mm gouge on slip @ 60°
- 301.57 - 305.12 m → BX is 50% [illegible] mod green [illegible] gouge.
- 342.39 - 342.92m → FX is upper and lower contacts [illegible] gouge filled slips 50°

PS	Interval From	Interval To	Rock Code
	349.61	349.61	E.O.H

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

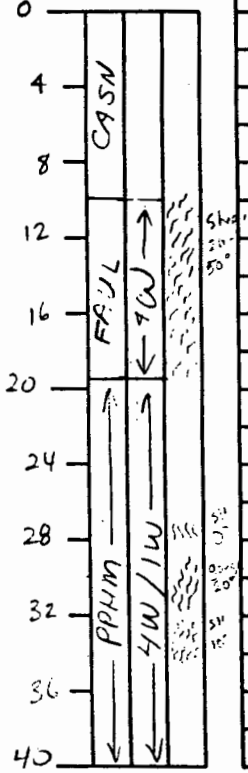
DRILL HOLE NO. 95 - 174

Location Sketch

Grid Northing (m):	100 050 N	Date Started:	Jul 28/95
Grid Easting (m):	49 950 E	Date Completed:	July 30/95
Elevation (m):		Logged By:	T. Fraser
Total Length (m):	200.94 m	Date Logged:	Jul 29/95
Casing Depth (m):	10.06 m	Data Entry:	
Reduction Depth:	–	Entry Date:	
Collar Core Size:	HQ	Casing (In/Out):	Out

Survey	Depth	Azimuth	Dip
SS	167.6	174.5°	-60°
SS	300.8	244.5°	-62
* no magnetite in hematite; oxidation rapid, disrupt readings (?)			

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alt. Int.	Alt. Typ	Alt. Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	0	10.06	CASN																			
	10.06	19.70	FAUL	4	W	–	–	<0.3	4	0	TR	0	0	W	W	TR	TR	WS	W	0	0	5
				Lithology - Appears to be pale to medium grey Plagioclase Hornblende porphyry - Poss Phase. The unit is highly sheared and gouey. The lithology is 20%+ plagioclase phenocrysts 1-2mm. Hornblende crystals are rare to obliterated. The rock appears highly silicified and pervasive alteration is difficult to observe.															
				Alteration/Mineralization - Pervasive silicification of groundmass as well as quartz/hematite alteration of plagioclase crystals. Pyrite is disseminated throughout and occurs as very fine traces to very weak. Trace quartz veins with pyrite and minor hematite and calcite veins. Pyrite is disseminated throughout and subordinate to hematite. Hematite occurs as disseminated grains, fracture coatings and subordinate to hematite															
				Structure - 10.06 – 19.70 m gouge and broken core. Shears 20-50° to CA. 17.37 – 19.70 gouge and broken core. Shears 40° to CA.																	

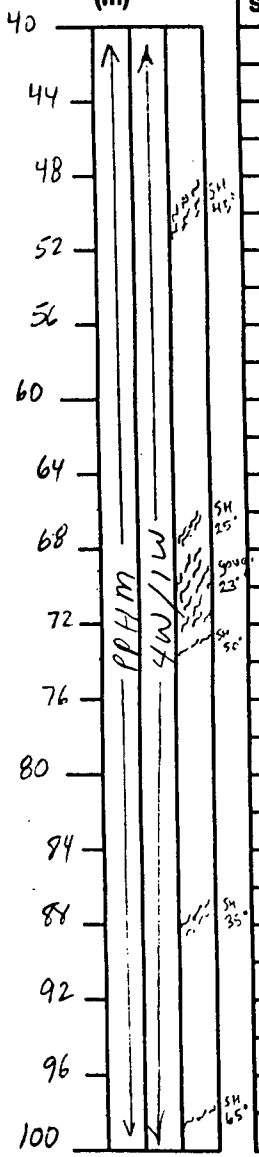
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 174
Logged By: T. Fraser
Date:

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	19.70	120.00	PPHM	4	W	1	W	0.5	8	0	TR	0	0	W	M	0	Ws	Ms	W	0	TR	M

Lithology - Main Phase plagioclase hornblende porphyry. Pale to medium grey. The unit has a sugary texture. The rock appears to be moderately silicified. Primary texture is patchy, but where noted there is a sox. 30% 1-2 mm plagioclase phenos (subhedral to rounded). Hornblende phenos are rare (approx 5-8% locally beige and euhedral). The groundmass is pale grey (silicified). Locally the unit is hematite stained to give a pale orange colour. The rock is fine to medium grained.

Alteration/Mineralization - The Main Phase intrusive is weakly argillic to sericite-carbonate-pyrite-quartz altered. Plagioclase phenos are weakly sericite and chlorite altered (pale green to opaque white). Hornblende phenos look carbonate-sericite-pyrite altered. The groundmass appears to be moderately silicified (grey; granular texture). There are moderate to locally abundant pyrite stringers. Finely disseminated pyrite ≈ veinlet pyrite. Weak carbonate veins at a steep angle to core axis. Trace red hematite veinlets and locally up to 1-2% disseminated hematite. Quartz stringers vary from 1mm - 1.5 cm. The cores of the veins [illegible] Most veins appear well mineralized with chalcopyrite (disseminated throughout). Locally chalco is finely disseminated. Trace sphalerite (± galena) in carb-qtz veins. 78-81.00 m is weakly patchy kspar altered and weakly hematite stained.

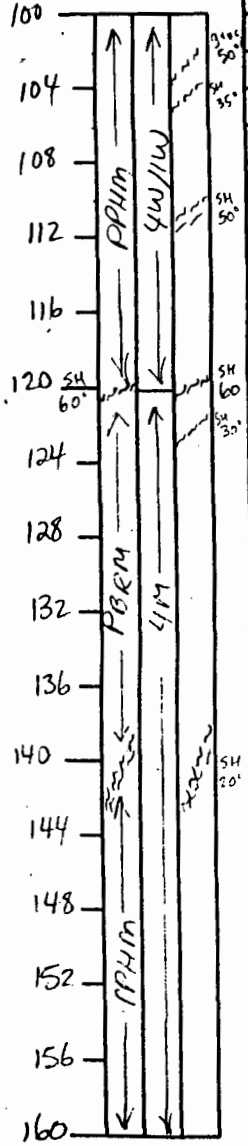
Structure - 27.50-28.00 m Shear 0° to C.A. with minor gouge.
29.85-31.00 m healed gouge 20° to C.A.
32.50-34.17 m shear/healed gouge 10° to C.A.
49.15-50.62 healed shear/gouge 45° to C.A.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 174
Logged By: I. Fraser
Date: July 2005



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

56.20 - 56.55 gouge
66.15 m 1cm shear 40° to C.A.
67.20 - 67.57 m Shear/gouge 25° to C.A.
68.70 - 72.27 m Broken gouge 23° to C.A.
73.55 - 73.75 m gouge 50° to C.A.
74.77 - 74.80 m Broken shear 35° to C.A.
87.39 m 2 cm shear 80° to C.A.
87.95 - 88.60 Shear 35° to C.A
96.70 Shear 32° to C.A
98.20 - 98.25 m Shear 65° to C.A.
102.62 - 102.65 m gouge 50° to C.A.
103.12 m Shear 55° to C.A.
104.40 - 104.60 m Shear 55° to C.A.
108 - 112 m Orthogonal veins 35 - 40° to C.A.
110.90 - 111.15 m Shear 50° to C.A.
111.95 - 112.00 m Shear / Carb breccia 40° to C.A.
114.00 m Shear 15° to C.A.

@ 120.00 m Upper contact of PERM is marked by a 10 cm shear approximately 60° to C.A.

	120.00	140.85	PERM	4	M	-	-	0.4	6	0	4	0	0	M	0	TR	vWs	M	W	0	0	W

bleached - Main Trace phenocrysts are completely altered to clay. Matrix is buff / beige to med grey. Generally the rock is altered to a clay rich assemblage with 1 - 2 mm. Patches of silicification and quartz veining. Fracture planes are coated with clay minerals. Vuggy textured parts are buff to beige. Chunks of fractured

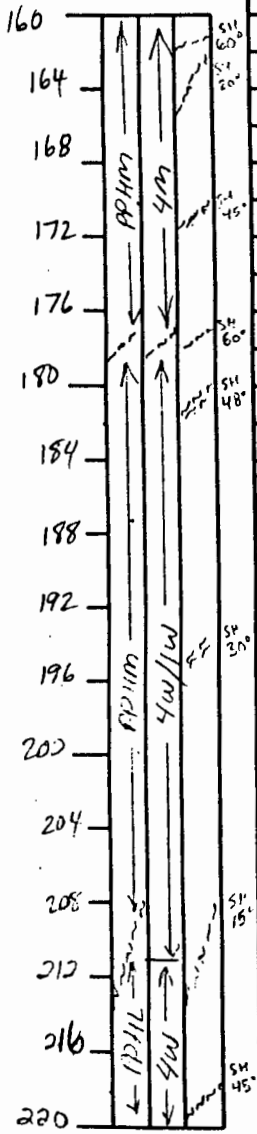
DRILL HOLE NO. 95 - 174

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 174
Logged By: T. Fraser
Date: July 30/95



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

are fragmental, have a chloritic appearance. Most clasts are 1 x 2 mm in length (lath-shaped). The unit has a mottled appearance due to approximately 10-20% rounded fragments. Clasts are small, 2mm - 8cm (average ~1cm). Some fragments appear to have a thin alteration rim. Most of the clasts appear to be Mine Trace but several are unidentified angular fragments in volcanics. However, the matrix seems to be Mine Trace).

Alteration/Mineralization - The unit varies from weakly to moderately propylitic - carbonate altered (4W-Mod). The matrix of the breccia is buff coloured and appears to be carbonate altered (?). Alteration has obliterated/destroyed much of the primary texture. The unit contains approximately 3-5% fine grained disseminated and fracture controlled hematite which is confined to the matrix and not the clasts. Pyrite mineralization is ubiquitous. Pyrite is dominantly fine grained and fine disseminations within fragments and matrix. The majority of the pyrite is finely disseminated in the matrix. Local stringers of pyrite cut the rock in random orientations. Violet pyrite < disseminated pyrite. Trace chalcopyrite in fracture filling. Trace chalcopyrite and quartz-pyrite veins.

Structure - 122.25 m shear/vein 30° to C.A.
129.60 shear/vein 15° to C.A.
132.38 m 2cm gouge 70 to C.A.

@ 140.85 m the lower contact of the PBRM unit is marked by a shear from 140.85 - 141.45 m 20° to C.A.

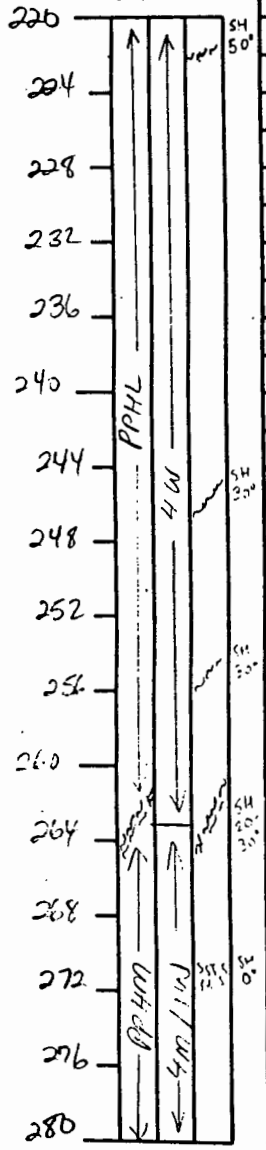
DRILL HOLE NO. 95 - 174

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 174
Logged By: T. Fraser
Date: July 30/95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	140.85	177.85	PPHm	4	m	-	-	0.9	6	0	0.5	0	0	S	vW	0	MS	M	W	0	0	M

Hthdway - Main phase plagioclase hornblende porphyry. Medium grey, to pale green colour. Typical PPHm with 30-35% subhedral plagioclase phenos approximately 1-2 mm width. Hornblende phenos are rare since they are highly altered (remnant pheno's are visible). 5-10% (?) veins with calcite veining from 1mm - 4 mm.

Alteration/Mineralization - The unit has moderate to strong carbonate-sericite-silica alteration. The PPHm groundmass is strongly sericite altered. Plagioclase phenos are moderately sericite altered. Hornblende phenos are silica-carbonate altered (ghosts). Locally the is up to 5% finely disseminated and to rarely hematite. Chalcopyrite is disseminated in the groundmass and also in qtz stringers. Qtz veins are moderate to locally weak, locally thin chalcopyrite and pyrite. Weak carbonate veins cut qtz stringers. Locally phenocrystic phases are texturally altered/obliterated. Rock disseminated ⇒ minor pyrite. Weak qtz-carbonate PPHm veins.

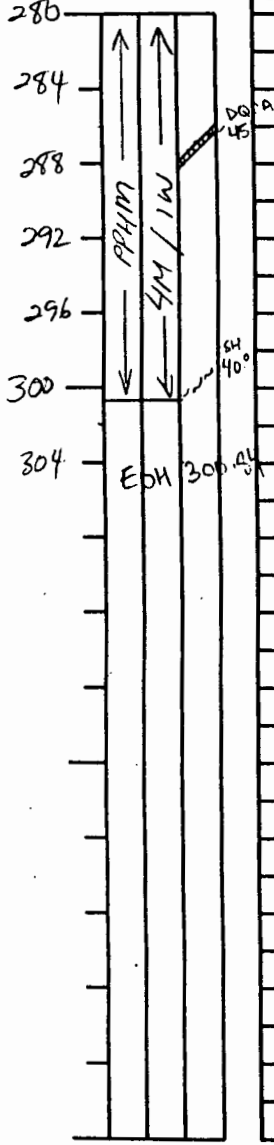
Structure - 140.05 Shear 40° to CA.
142.60 - 143.0 m Shear/gouge 35° to CA.
161.30 - 161.36 Shear 60° to CA.
163.70 - 163.95 Shear 20° to CA.
170.60 - 170.90 m Shear with carbonate veining 50° to CA.
171.30 - 171.85 m Shear with carbonate veining 45° to CA.
@ 177.85 - 177.90 Shear @ 60° to CA - marks the contact of PPHm with plastic alteration.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 174
Logged By: T. Fraser
Date: July 30/95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	177.85	211.55	PPHM	4	W	1	W	0.4	5	0	0.5	0	M	W	0	0	WS	W	M	0	0	M
				Lithology - Same as interval 19.70 - 120.00 - Main Breccia matrix, the unit is overall pale grey to brownish grey fine grained porphyritic. The lithology contains 0 approximately 25% phenocrysts (mineral not determined) in a fine grained matrix. Hornblende grains are not dominant or prominent.																	
				Alteration/mineralization - Same as interval 19.70 - 120.00 but there are weak pyrite stringers. Carbonate veins are moderately intensity. The unit is dominantly carb-ser-clay-pyrite altered and weak to moderate potassic. The potassic altered areas are overprinted by the groundmass is less altered. Mafic phenocrysts are 11% chloritized and weakly sericite altered. Pyrite is finely disseminated > vein Py. Qtz stringers contain disseminated chalcopyrite. Hematite is finely disseminated. The unit is not subdivided as an interval 19.70 - 120.00 m.																	
				structure - 181.05 - 181.58 m Shear 48° to C.A.																				
				194.35 - 194.70 shear 30° to C.A.																				
				200.23 m quartz vein 30° to C.A.																				
				204.10 - 204.25 carbonate veinlets with fine grain qtz.																				
				@ 211.55 core axis of PPHM intersect a fault at 15° to C.A.																				
	211.55	262.50	PPHL	4	W	—	—	0.3	3	0	TR	0	0	W	VW	TR	TR	VWS	W	0	0	W
				Lithology - Fine grained porphyritic hornblende basalt. The unit is dominantly aphanitic with 10% of 35-45% hornblende phenocrysts and 5% plagioclase phenocrysts. The unit is massive and competent.																				

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 174
Logged By: T. F...
Date: Jul. 9...

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
				Hornblende phenos are [illegible]																				
				[illegible]																				
				[illegible]																				
				[illegible]								– Disseminated pyrite [illegible] + 1% py.													
				Disseminated pyrite ≫ veinlet pyrite. Trace disseminated specular hematite. Plagioclase phenos are weakly sericitized to disseminated (weak overall alteration). Trace to 1% disseminated blebs + fracture controlled sulphides. Trace quartz veins containing pyrite (chalcopyrite and arsenopyrite). Weak to moderate chlorite veinlets.																	
				Structure – 212.68 m Shear 50° to CA.																				
				218.70 – 219.0 Shear with minor gouge 45° to CA.																				
				220.30 Shear 45° to CA.																				
				221.90 – 222.10 Shear 50° to CA																				
				226.0 Shear with gouge 70° to CA.																				
				228.20 Shear 45° to CA.																				
				231.10 – 231.23, 231.45 m Shears 45° to CA																				
				244.55 – 244.95 Fracture – pyrite																				
				246.30 – 246.40 Shear 30° to CA																				
				255.60 – 255.64 m Shear 30° to CA.																				
				@ 262.80 – 263.52 contact of PPHM is sheared 20–30° to CA.																				
														0										
262.80	330.84	PPHM	4	M	1	W	0.7	5	0	1			0	TR	M	0	TR	WS	W	W	0	0	W	
			Intensity – Same as interval 119.70 – 120.00 m																					
			alteration/mineralization – Weak pervasive to moderate chlorite stringers + fracture controlled. Some alteration on 119.70 – 120.00 m. Hem fracs fairly disconnected. Trace % up to 1%. Qtz stringers contain																					

DRILL HOLE NO. 95 - 174

Page 7 of 9

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 174
Logged By:
Date:

Graphic Log (m)

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

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

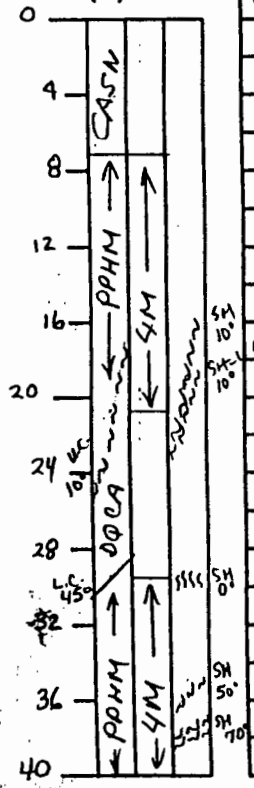
DRILL HOLE NO. 95 - 175

Location Sketch

Grid Northing (m):	100200N	Date Started:	July 30/95
Grid Easting (m):	49900 E	Date Completed:	Aug 4/95
Elevation (m):		Logged By:	T. Fraser
Total Length (m):	428.85m	Date Logged:	July 31/95
Casing Depth (m):	7.32 m	Data Entry:	
Reduction Depth:	—	Entry Date:	
Collar Core Size:	HQ	Casing (In/Out):	Out

Survey	Depth	Azimuth	Dip
SS	166.7	178.5°	-62°
SS	337.4	182.5°	-62.5

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	0	7.32	CASN																				
	7.32	20.77	PPHM	4	m	—	—	0.3	4	0	0		0	0	M	0	0	vWs	W	W	0	0	M

Lithology - Pale grey to buff coloured Main Phase plagioclase hornblende porphyry. Moderately porphyritic unit with 30% subhedral pale green plagioclase phenos 1-2 mm. Hornblende phenos are not readily apparent (too altered or not present ?). The groundmass is pale grey to light pale orange due to hematite staining (patchy)

Alteration, Mineralization - The unit is moderately sericite-pyrite-carbonate qtz altered. Hornblende phenos appear to have been destroyed. Plagioclase phenos are moderately to strongly sericitized. The groundmass appears to be [illegible] carbonate altered. Fine grained disseminated pyrite is throughout and >> veinlets of pyrite. Trace disseminated chalcopyrite. Very weak to weak qtz stringers contain disseminated pyrite and chalcopyrite. Weak to moderate carbonate veins.

Structure - 16.50 - 17.00 PPHM
19.05 - 19.50 SH with minor gouge 10° to C.A.
19.60 - 19.70 SH 15° to C.A.

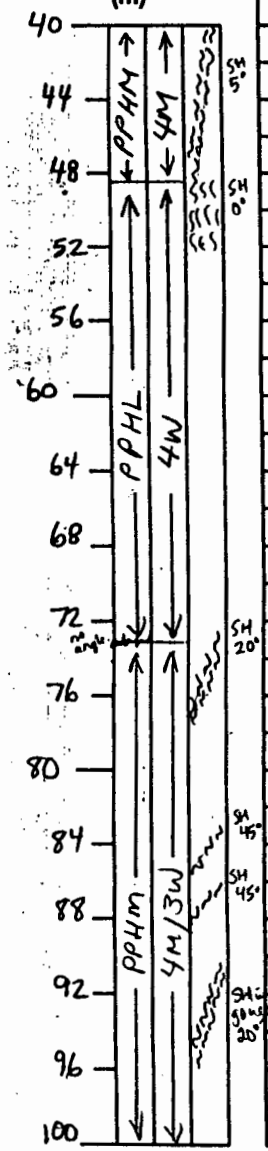
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 175
Logged By: T. Fraser
Date: July 31/95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	20.77	29.50	DQCA	—	—	—	—	0.2	0.5	0	0		0	0	W	0	0	0	0	M	TR	0	W

Lithology – Tan to medium brown fine grained DQCA dike. The groundmass appears to be feldspar-rich and has a speckled appearance (probably also due to very fine grained red/brown hematite) (primary). No phenos are evident. The concentration and size of amygdules varies from top to lower contact. The upper contact contains amygdules which average 1mm rounded and are filled with gypsum. There are approx 20% amygdules. Vesicle abundance decreases with depth with an average 3-5% and slightly larger diameter (2-10 mm). At depth, amygdules are filled with carbonate and quartz.

Alteration/Mineralization – Finely disseminated pyrite throughout. Groundmass appears to be sericitized. The dike is cut by moderate to weak carbonate veins and amygdules are filled with calcite/gypsum/qtz.

Structure – U.C. of DQCA @ 20.77m is marked by a 2cm Shear @ 10° to C.A.

23.27 Shear 20° to C.A.

L.C. DQCA @ 29.50m @ 45° to C.A.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	29.50	48.70	PPHM	4	M	—	—	0.3	4	0	0		0	0	M	0	0	VWs	W	TR	0	0	M

Lithology – Pale grey to buff Main Phase porphyry. Approx 30% subhedral green plagioclase hemorrysts. Phenos are 1-3mm, rounded and visibly zoned. Hornblende phenos are euhedral with beige colour. Hornblendes are 1x4mm approx 8-10%. The unit has much of its primary texture but is highly sheared locally.

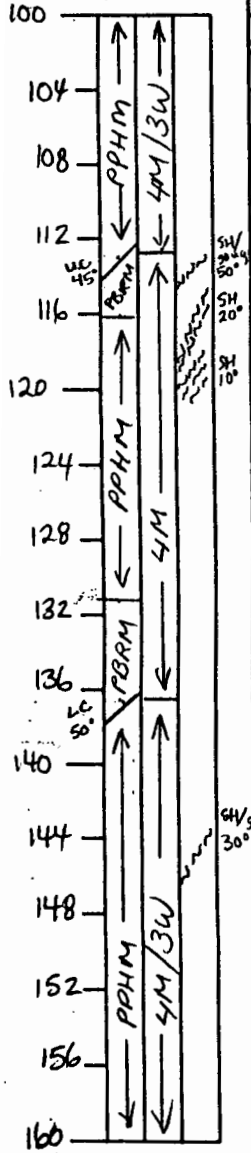
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 175
Logged By: T. Fraser
Date: August 1/95

Graphic Log (m)



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

The lithology is weakly hematite stained and locally appears to be pale orange.

Alteration/Mineralization - The rock is moderately sericite-carbonate-pyrite altered. Very weak to weak quartz stringers contain fine grained disseminated pyrite. Disseminated pyrite >> vein pyrite. The intensity of pyrite veining varies from strong veinlets to weak. Pyrite tends to be disseminated and blebby. Chalcopyrite is finely disseminated and also noted in rare carbonate-chalcopyrite veins. The plagioclase phenos are moderately sericitized and hornblende phenos are being (carbonate-sericite altered). Locally the rock is weakly argillic altered (Kaolinite altered plagioclase).

Structure - 29.60 - 30.40 Shear 0° to CA
35.05 m Shear 10° to CA.
35.82 - 35.86 m Shear 50° to CA.
37.95 - 38.37 m Shear with gouge 70° to CA.
38.92 m Shear 60° to CA
43.00 - 46.00 m Shear with minor gouge (0 - 10° to CA.)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
SH/gouge 30°	48.70	73.35	PPHL	4	W	-	-	<0.3	3	0	0		0	0	W	W	0	TR	W	0	gypsum TR	0	S

Lithology - Pale grey Late Phase plagioclase hornblende porphyry. Plagioclase phenos are 0.5-2mm, subhedral and white to pale green. Approximately 35-45%. Hornblende phenos are quite small - 1-2mm euhedral and altered. Mafics are approximately 5-10% by volume. The unit is fine to medium grained. The groundmass is pale grey and appears to be silicified.

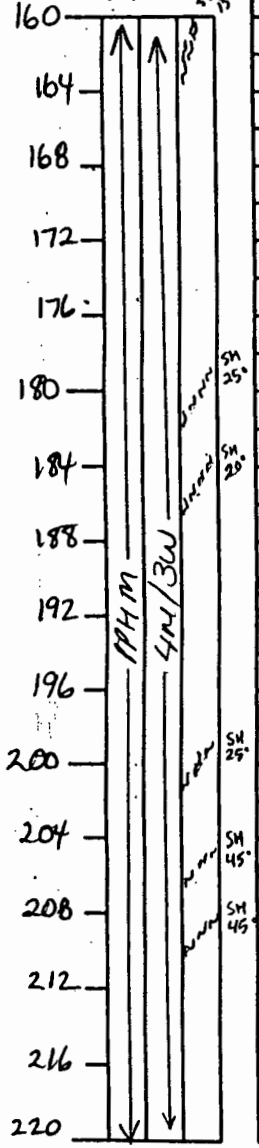
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 175
Logged By: T. Fraser
Date: August 1/95

Graphic Log (m)



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

Alteration/Mineralization - The unit is weakly argillic altered. Plagioclase phenos vary from opaque white (kaolinized) to weakly sericitized. Due to the intensity of shearing/faulting in this unit there is weak to moderate clay alteration. Pyrite is finely disseminated. Trace quartz veins are grey to purplish and contain trace pyrite. There are very weak to weak pyrite veins. Chalcopyrite is finely disseminated (trace amount). The groundmass appears to have a sugary texture and is possibly silicified. Trace gypsum veins.

Structure - 48.70 - 52.00 shear with minor gouge 0° to C.A.
52.50 - 53.00 PPHL appears gougy
54.00 - 73.35 Broken with minor gouge
73.35 m Lower contact of late Phase is sheared.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	73.35	113.05	PPHM	4	m	3	W	0.5	4	0	TR		0	0	M	TR	0	vWs	W	W	(gypsum) vW	TR	W

Lithology - Pale greenish grey to light orange Main Phase plagioclase hornblende porphyry. The unit is locally hematite stained. The lithology is moderately porphyritic, with phenos obliterated in highly altered areas. Generally though plagioclase phenos are subhedral to rounded with fuzzy grain boundaries (not sharp). Plagioclase phenos vary from <1mm - 3mm, approximately 30%. Hornblende phenos are not visible clearly. Most appear to be quite altered. The groundmass is grey to greenish grey and probably contains a large proportion of feldspars and/or silica.

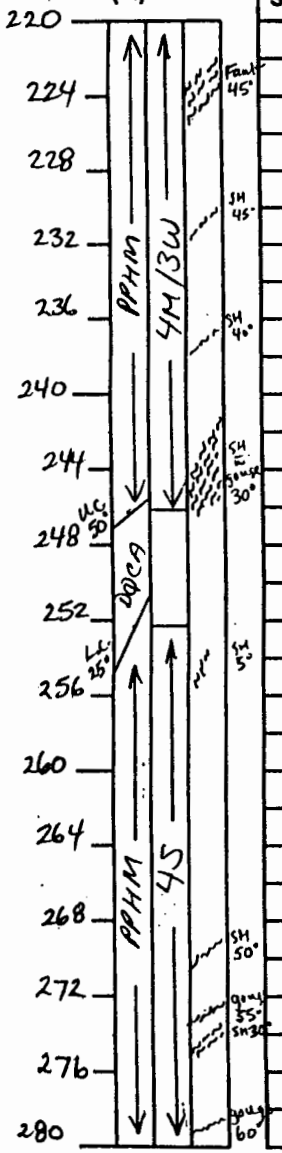
Alteration/Mineralization - The unit is moderately to locally strongly sericite - carbonate - quartz - pyrite altered (4M-S) and occasionally

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 175
Logged By: T. Fraser
Date: Aug 1/95



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

has a mottled texture. More intense alteration has obliterated primary texture. The groundmass is lightly sericitized. Plagioclase phenos are also sericitized and weakly kaolinized / clay altered. Pyrite is finely disseminated throughout and also blebby. The majority of pyrite is disseminated and not contained within veinlets. Quite commonly pyrite veins will have grey quartz envelopes (2mm - 1cm in width). There are weak carbonate - quartz - pyrite veins. Generally there is weak carbonate veining (locally strong veining). Chalcopyrite is finely disseminated and in trace veinlets (discontinuous). White to transparent gypsum veins are present in trace to very weak intensities. Trace disseminated and vein red hematite. Quartz veins contain disseminated pyrite -

Structure - 74.80 - 76.00 m Shear with gouge 20° to C.A.
78.20 m Shear 45° to C.A.
84.40 - 84.35 m Shear 35° to C.A.
82.58 - Shear 30° to C.A.
85.55 - 85.90 Shear with gouge 40° to C.A.
87.00 - 87.20 m Shear (healed) 45° to C.A.
91.75 - 92.10 m FBRM
92.75 - 94.15 Shear with gouge; fault altered 20° to C.A.
110.15 - 111.60 FBRM
110.60 - 110.90 m DQCA @ 45° U.C and L.C.

@ 113.05 m U.C. ABRM @ 45° to C.A.

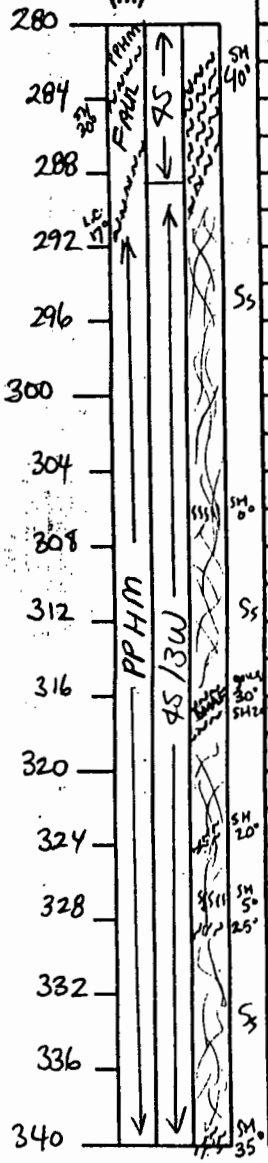
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 175
Logged By: T. Fraser
Date: Aug 1/95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	113.05	116.10	PBRM	4	m	—	—	0.3	4	0	0	0	0	M	M	0	vWs	vWs	vWs	0	0	W

Lithology – Pale grey Main Phase plagioclase porphyry clasts within a Main Phase matrix. Clasts/fragments are 0.5 cm – 5 cm, and are subrounded to subangular. The fragments are highly to moderately plagioclase phyric. Hornblende phenos are not visible. Plagioclase phenos vary from <1mm – 3 mm and tend to be opaque white (Kaolinized) to pale green (sericitized). Clasts can have occasional indistinct boundaries. The breccia looks clast supported with approximately 40% clasts and 60% matrix material.

Alteration/Mineralization – The unit is moderately argillic altered to weakly sericite-carbonate-pyrite-quartz altered. Plagioclase phenos are Kaolinized/sericitized as well as the matrix of the breccia. Pyrite is finely disseminated and blebby within the breccia matrix. Quartz veins are very thin and tend to be located within the clasts and do not cross fragment boundaries. The matrix to the breccia appears silicified. Very weak carbonate veins to trace amounts. Pyrite is also found as very weak veins.

Structure – 113.50 m Shear with gouge 50°

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	116.10	131.20	PPHM	4	m	—	—	0.5	6	0	TR	0	0	M	TR	0	vWs	M	W	0	TR	W

Lithology – Same as interval 73.35 – 113.05 m
Alteration/Mineralization – Same as interval 73.35 – 113.05 m except the unit displays only sericite-carbonate-quartz-pyrite alteration and no mottled texture. The pyrite content is slightly higher and is frequently blebby and disseminations >> veins of pyrite

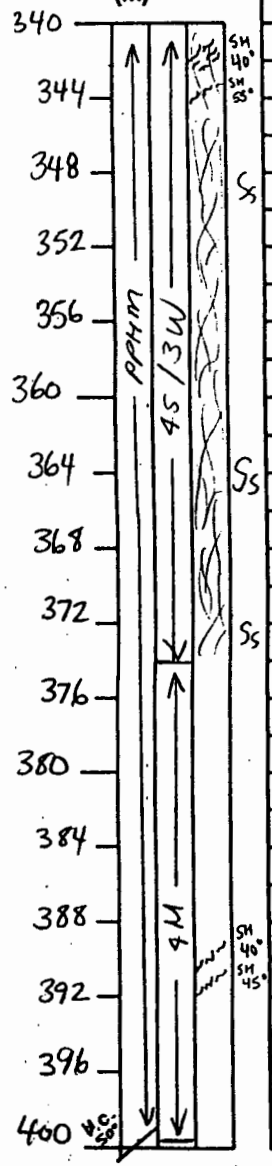
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 175
Logged By: T. Fraser
Date: Aug 1/95

Graphic Log (m)



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

There are moderate to strong pyrite veinlets. This unit lacks gypsum veins. The unit appears to be locally silicified.

Structure - 116.20 - 117.60 m Shear with gouge 20° to c
119.50 - 120.80 m Shear 10° to CA.
126.60 - 127.15 m carbonate - pyrite breccia
129.55 Shear/gouge

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	131.20	136.65	PBRM	4	M	-	-	0.4	5	0	TR	0	0	M	M	0	Ws	W	vWs	0	TR	M

Lithology - same as interval 113.05 - 116.10 m but the unit is pale orange (hematite stained) instead of pale grey.

Alteration/Mineralization - Same as interval 113.05 - 116.10 m but there are trace hematite veins and locally up to 2% disseminated red/purple hematite. Pyrite is disseminated - fine grained throughout the matrix and occassionally blebby. Quartz veins are up to 1cm in width and contain disseminated pyrite. The intensity of quartz veins has increased while the abundance of pyrite veins has decreased. There are very weak to trace carbonate veins.

Structure - L.C. PBRM is 50° to CA.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	136.65	246.00	PPHM	4	M	3	W	0.6	5	0	1	0	TR	S	TR	0	Ms	M	W	TR	0	M

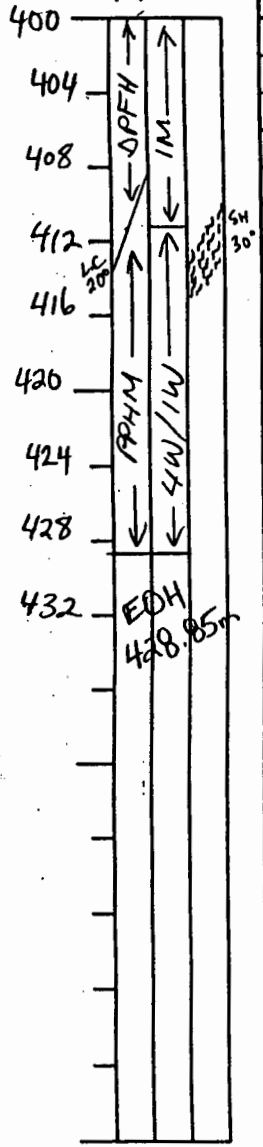
Lithology - Pale green to grey green coloured Main Phase plagioclase hornblende porphyry. The unit is moderately to strongly plagioclase phyric. Phenocrysts are quite distinct. Plagioclase forms approximately 40% of the rock and average 1-3 mm. Mag phenos are subhedral

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 175
Logged By: T. Fraser
Date: Aug 2/95



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

and boundaries are obscured. Some plagioclase phenos are visibly zoned. Hornblende phenos are not obvious but comprise up to 8-10% and average 1-2 mm. They have a shreddy appearance and are beige/tan coloured. The groundmass is grey to green in.

Alteration/Mineralization - the unit is moderately to strongly sericite-carbonate-pyrite-quartz altered with local mottled texture. Plagioclase phenos are groundmass are moderately sericite altered (greenish). Hornblende phenos appear carbonate-sericite-pyrite altered. Moderate grey quartz veins contain disseminated chalcopyrite and trace pyrite. Moderate pyrite veinlets. Disseminated pyrite is probably ≥ veinlet pyrite. Weak carbonate veins. Trace gypsum veins. Occasional pyrite veins have quartz envelopes. Patchy hematite staining. Chalcopyrite and pyrite are finely disseminated. Trace qtz-hematite-pyrite (±cpy) veins. (1% disseminated pyrite and trace veins (locally 3-5% disseminated hematite).

Structure - 144.75 - 144.80m Shear with gouge 30° to c.a.
156.70 m Shear 35° to c.a.
160.65 - 160.93 m Shear with gouge 15° to c.a.
162.05 m Shear 20° to c.a.
172.92 Shear 15° to c.a.
174.10 - 174.82 Shear/gouge.
180.4 - 180.50m Shear with gouge 25° to c.a.
185.5 - 185.65 Shear with gouge. 20° to c.a.
188. - 188.10 m Shear with gouge
189.32 - 189.42 m Shear with pyrite + carbonate veins 70°

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 175
Logged By: T. Fraser
Date: Aug 2/95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alt. Int.	Alt. Typ	Alt. Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				200.0 - 200.45m Shear with gouge 25° to C.A.																		
				205.80 - 205.83 Shear/gouge 45° to C.A																		
				209.88 - 209.92 m Shear 45° to C.A																		
				222.65 m - 224.85 m Fault/shear U.C. 40° to C.A. L.C. 50° to C.A.																		
				227.45 - 227.55 m Fault/breccia 30° to C.A.																		
				229.40 - 229.50 shear 50° to C.A.																		
				231.13 - 231.29 shear 45° to C.A.																		
				237.54 - 237.56 shear with gouge 40° to C.A																		
				243.61 - 246.00 m healed shear with gouge 30° to C.A.																		
	246.00	252.07	DQCA	-	-	-	-	-	<0.5	0	0	0	0	TR	0	0	0	0	W	TR	0	W
				Lithology - same as interval 207.77 - 29.50 m but vesicles/amygdules are filled with white quartz-carbonate and comprise 2-5% 1-3 mm width. Vesicle size and abundance does not vary with depth or to previous dike.																		
				The upper contact @ 246.00 m @ 50° to C.A. the lower contact of the DQCA dike is @ 252.07 m @ 25° to C.A.																		
				Alteration/Mineralization - Pyrite is finely disseminated throughout. The concentration of carbonate veins varies from weak to moderate. Trace discontinuous gypsum veins																		
				Structure - none																		
	252.07	282.35	PPHM	4	S	-	-	0.7	2	0	5	0	0	S	TR	0	Ms	W	W	0	W	M
				Lithology - same as interval 136.65 - 246.00 m but the hornblende phorpos are distinct and tan coloured. Locally alteration is so intense that some of the porphyritic texture has been destroyed. The rock is pale to medium green with patches of																		

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 175
Logged By: T. Fraser
Date: Aug 2/95

Graphic Log (m)

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

orange. Chloritic staining). The plagioclase phenos are dark green.

Alteration/Mineralization - The unit is strongly altered to sericite - carbonate - pyrite - quartz. Plagioclase phenos and groundmass are strongly sericitized. Hornblende phenos are carbonate - sericite altered. Locally, little primary texture remains and is due to heavy alteration. Silicate quartz veins decrease downwards to weak stringers and contain disseminated chalcopyrite and pyrite. There are trace quartz - carbonate - Py - Cpy veins. Chalcopyrite is also finely disseminated throughout along with pyrite patchy, hematite staining is associated with 2% disseminated fine hematite. Hematite concentration is up to locally 10%. Locally hematite is within veins. Weak carbonate veins. Pyrite is also found in veinlets but disseminated concentrations are greater. Trace to weak pervasive alteration in gouged / sheared areas.

Structure - 252.40 - 254.00 m broken with minor gouge
254.90 - 255.0 m gouge / shear 5° to C.A.
269.7 - 270.08 Shear with gouge 50° to C.A.
270.80 m Shear 30° to C.A.
271.60 - 271.77 m gouge 30°
273.34 - 273.36 gouge 35° to C.A.
274.45 - 274.70 gouge 30° to C.A.
275.43 - 275.50 Shear with gouge 45°
278.64 - 278.70 gouge 20°
278.87 - 278.92 gouge 60°

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 175
Logged By: T. Fraser
Date: Aug. 3/95

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	282.35	288.35	FAUL	4	S	—	—	0.4	4	0	0	0	0	S	W	0	Ws	W	W	0	0	M

The rock unit is the same as the above lithology but is highly sheared and gouged. The rock is buff to grey in colour coloured Main Phase plagioclase hornblende. Phenocrysts are [illegible] to being coloured (tan). There are no relict hornblende phenos - [illegible] plagioclase phenos are apparent (1-3mm subhedral). Weak to locally moderate grey quartz-chalcopyrite veins. Pyrite and chalcopyrite are disseminated. Weak pyrite and white carbonate veins. The unit is strongly sericitized. Locally the rock appears silicified. The rock is broken and locally gouged.

Structure - U.C. FAUL/shear 282.35 m @ 30° to CA.
285.92 - 286.50 broken with gouge 40° to CA.
288.20 - 288.35 gouge
L.C. Fault 288.35 17° to CA.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	288.35	374.00	PPHM	4	S	3	W	2.0	4	0	TR	0	0	S	W	TR	Ss	W	W	0	TR	M

Lithology - Pale green to grey/white Main Phase porphyry. The rock tends to have a weak brecciated appearance due to patchy and pervasive silicification. Remnant host rock is highly porphyritic with 30-35% subhedral plagioclase phenos (green). Hornblende phenos are not evident. Approximately 35-40% of host rock remains. Locally silica flooding is so intense that 20% of primary lithology exists.

Alteration - The rock is pervasively silica altered but it is patchy. In some places pyrite veinlets have quartz envelopes but most of the alteration does not appear to be vein-related. The patchy quartz alteration contains finely disseminated chalcopyrite and minor blebby/disseminated pyrite. Weak chalcopyrite-pyrite veins cut qtz.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 175
Logged By: T. Fraser
Date: Aug 3/95

Graphic Log (m)

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

alteration. 1 cm qtz-cpy-py (± carbonate) veins also cut pervasive qtz-cpy-py alteration. Weak carbonate veins. Trace dissem red hematite and discontinuous veinlets. Trace tourmaline disseminations and veinlets (local). Much of the unit is labelled as strong qtz stockwork but this is due to the high silica content/pervasive silica flooding. The host rock is strongly sericitized and locally plagioclase phenos are strongly to moderately kaolinized.

structure - 289.60 - 289.77 gouge 12° to CA.
291.50 shear/gouge 30°
291.69 - 292.23 m Reduced to NQ - with poor recovery
306.00 - 306.43 m shear with gouge 0° to CA.
316.15 - 316.30 gouge with DMAF frags 30° to CA.
316.30 - 317.85 DMAF
317.85 - 318.50 m healed shear with gouge 20°
321.53 gouge seam 30°
323.9 - 324.19 sheared with gouge 20° to CA.
326.80 - 327.47 gouge 5° to CA.
328.43 - 328.60 m shear 25° to CA.
329.20 shear with gouge 30° to CA.
336.05 - 336.10 mud seam 30° to CA.
339.46 - 340.47 m shear w/ gouge 35° to CA.
340.97 - 341.04 shear 40° to CA.
341.80 gouge 45° to CA.
342.50 m shear 10° to CA
343.80 - 343.86 shear 35° to CA.
347.92 shear 20° to CA.
350.80 - 350.85 m [illegible] pyrite veins 20° to CA

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 175
Logged By: T. Fraser
Date: Aug 4/95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
	374.00	399.70	PPHM	4	M	—	—	0.6	5	0	TR		0	0	M	W	0	Ws	W	TR	0	0	W	
				Lithology - Buff to pale green to light green porphyritic to aphanitic, fine grained, massive to weakly foliated, locally brecciated, moderately to strongly altered, moderately to strongly pyritic, rhyodacite to dacite dyke. Texture is still visible - the rock is weakly foliated, fresh plagioclase phenos are prominant and form approximately 25-35% subhedral crystals from <1mm - 4mm. Plagioclase varies from pale green to opaque white. Hornblende phenocrysts are not visible - they have altered and bleached to buff to pale green and probably comprise >5-10%.																			
				Alteration/Mineralization - The unit is weakly bleached and may be silicified in areas (yields a pale aphanitic-looking rock). Pyrite is disseminated and as stringers/veinlets and its concentration is greater than 1% in veins. Minor pyrite veins have qtz envelopes. Trace carbonate veins and trace quartz-carbonate-Cpy-Py veins. Trace quartz-pyrite veins and quartz-chalcopyrite veins. Plagioclase phenos are moderately sericitized to moderately kaolinized while mafic phenos appear to be bleached/altered. Trace disseminated (fine grained) hematite. Trace disseminated hematite																			
				Structure - 390.16 - 390.25m fault 40° to CA.																				
				390.98 - 391.08 shear 45° to CA.																				
				399.70 m U.C. DPFH @ 50° to CA																				
	399.70	411.10	DPFH	1	M	—	—	<0.3	2	0	TR		W	TR	W	TR	0	0	TR	W	0	TR	W	
				Lithology - Medium green to brick red/orange DPFH dike - plagioclase porphyritic. The upper contact is pale to medium green coloured with flattened PPHM fragments parallel to the contact (50° to CA). The dike is dominantly red/orange above the dike																			

DRILL HOLE NO. 95 - 175

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 175
Logged By: T. Fraser
Date: Aug 4/95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
				resemblo the typical DPFH. Hornblende phenos comprise 12 - 15% and are dark green to brown. Hornblende phenos are subhedral to subhedral 1-8 mm. Plagioclase phenos vary from 1-2 mm and are less prominant/distinct compared to hornblende.																		
				Alteration/Mineralization - The dike is moderately hematite stained with trace hematite veins. It is cut by weak carbonate veins and trace pyrite veins. Pyrite is finely disseminated throughout. Hornblende phenos are weakly kintile filled and plagioclase phenos are weakly sericitized with trace kaolinite altered sections. Trace disseminated chalcopyrite. Trace disseminated epidote. The dike is pervasively K-spar altered (the groundmass).																
				Structure - 411.10 m L.C. DPFH dike 20° to CA.																		
	411.10	428.85	PPHM	4	W	1	W	0.4	4	0	0	TR	0	M	TR	0	TR	W	TR	M (gypsum)	0	M
				Lithology - Same as interval 374.00 - 399.70 m																			
				Alteration/Mineralization - Same as interval 374.00 - 399.70 m but there are moderate gypsum veins throughout. Gypsum veins are fibrous and are transparent white to light orange. Locally the unit is hematite stained. Weak pyrite veins have qtz envelopes. Trace disseminated chalcopyrite and pyrite. Trace to weak carbonate veins. Trace Cpy-Py veins.																
				Structure - 411.10 - 414.15 m Shear with minor gouge 30° to CA.																		
				426.60 - 427.00 gypsum vein 60° to CA.																		
				EOH 428.85 m.																		

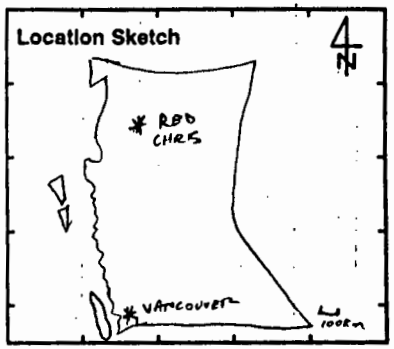
DRILL HOLE NO. 95 - 175

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 176



Grid Northing (m):	99311	Date Started:	JULY 31st 95
Grid Easting (m):	48 800	Date Completed:	AUGUST 05 95
Elevation (m):		Logged By:	IAN FOREMAN
Total Length (m):	441.05 m	Date Logged:	AUGUST 01 '95
Casing Depth (m):	60.96 m	Data Entry:	
Reduction Depth:		Entry Date:	
Collar Core Size:	NQ	Casing (In/Out):	OUT

Survey	Depth	Azimuth	Dip
S.S	152.4	183°	-62°
S.S	352.65	185.5°	-64°
S.S.	441.05	189°	-64°

Graphic Log (m)

0 — CASING — 8 — 16 — PPHM / 4m/lvw / mod. F.Zeso. — 24 — 50° — 45° — PPHM / 4m / mod. F.Zeso. — 32 — 40

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	0.0	24.38	CASN																			
	24.38	30.06	PPHM	4	m	1	vw	—	3	—	1	—	vw	m	m	—	—	—	w	ø	—	m

LITHMIN:

The groundmass is aphanitic and buff to beige in colour. The porphyritic texture is only well preserved locally. 15-20% white to light grey 0.5-4mm subrounded to anhedral plag's and 10-15% light green to cream 0.5-3mm angular hbl's. The rock is soft and scratches easily with a nail.

2-4% pyrite occurs primarily as fg disseminations and 1-4mm blebs but also occurs in mtl veins and as fracture fill. No chalcopyrite was noted. Hematite occurs throughout as 0.5-1mm blebs and probably as v.fg disseminations that are staining the groundmass.

L.C.:

Sharp @ F.2. @ 45°

ALTERATION:

The brownish colour of the groundmass may be due to hematite staining. The core is moderately Qtz-ser-ank ± KAO alt'd throughout. Locally there is a very weak silica staining. The 1st 1.5m of this unit have a melted appearance similar alteration style #3.

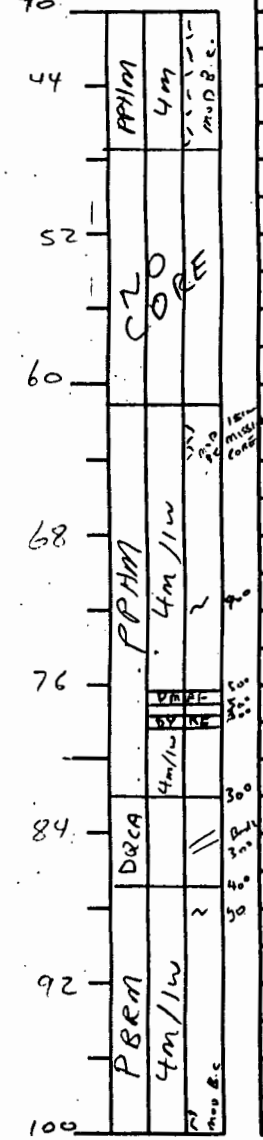
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 176
Logged By: I. FOREMAN
Date: 01 AUG '95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	24.38	30.06	CONT'D		STRUCTURE:																	
					- Entire unit is weak to moderately bkn in 2-10 cm ang core with local 10-15 cm sections of strongly 3bn ang clean core ± gouge																	
					- 26.69 m → 2-3 mm gouge @ 50°																	
	30.06	47.85	PPHM	4	m			Tr	4	/	/		/	/	m	m	/	Tr	/	w	/	/	S
					LITH + MIN:																	
					The porphyritic texture is well preserved throughout the unit. The groundmass is aphanitic and ranges from dark green to beige brown. 15-30% 0.5-4mm white to beige subrounded to angular fsps and 10-15% 0.5-4mm cream to dark green subrounded to angular hbs. There is a large variety in both the size and class of the phenos and based on their differences it may be possible to break the unit into smaller sections. However the bkn nature of the core it is difficult to follow any continuity through the unit.													
					2-4% pyrite (locally 5-6%) occurs mainly as fg'd disseminations and 1-3mm blebs. Pyrite also occurs in carbonate veins and as fracture fill. Chalco-pyrite was noted in 2 pieces of bkn core @ 37.0 m. Cly occurs as fracture fill on a bkn surface and in a single qtz vein.													
					L.C:																	
					→ in missing core?																	
					ALTERATION:																	
					mod-sale Qtz-Ser-Ank ± Kfsp alt'n throughout																	
					STRUCTURE:																	
					- the entire unit is mod to strongly bkn.																	
					- 30.06 - 36.27 m → F.P. to strong to very strongly bkn <0.5 - 4cm ang core with locally >10% gouge. rare slip surfaces @ 50°. Top 1.0m of fault zone is 80% remained core.													

DRILL HOLE NO. 95 - 176

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

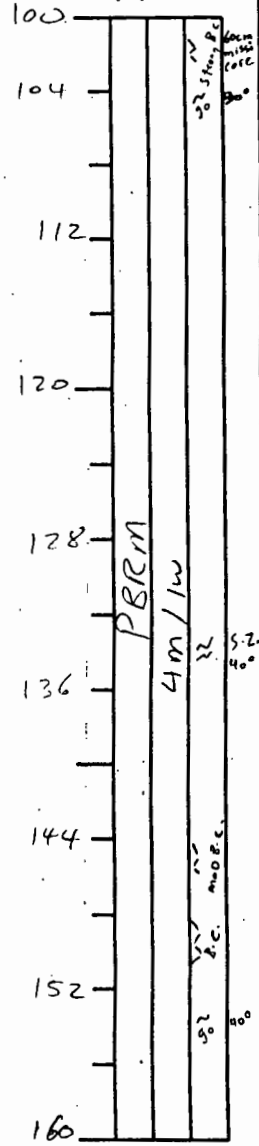
GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 176
Logged By: I. FOREMAN
Date: 02 AUGUST '95

Graphic Log (m): 100, 104, 112, 120, 128, 136, 144, 152, 160

PBRM 4m/1w



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	47.85	60.96	NO CORE																				
	60.96	81.94	PPHM	4	m	1	w	Tr	4	/	4		/	w	m	m	/	ø	/	W	/	/	m

NO CORE RECOVERED THROUGH THIS SECTION DUE TO TRICONING.
- Assumed that rock is unrecoverable due to nasty fault zone

LITHOLOGY:

Generally this unit orange-brown to reddish brown with an aphanitic groundmass. Typically, there are 15-20% cream to white 0.5-3mm subang-subrnd'd fsp's. The hb's are difficult to distinguish from the fsp's in the fact that they are 0.5-3mm subang-subrnd'd light greenish brown to buff grains that make up 10% of the rock. Locally, the fsp's are subrounded white 4-5mm grains. A high percentage of hematite occurs throughout this unit. 3-5% as 0.5-4mm brick red blebs and psuedomorphs (?). The amount is probably higher when taking the pervassive staining of the groundmass into account.

Throughout this unit 10-15cm sections of Bx are evident. These breccias have very diffuse contacts (alteration) and give the rock a fragmental appearance. This unit is potentially bx'd throughout and then would be classified as PBRM.

L.C.

Sharp @ DOCA @ 30°

ALTERATION:

This unit has the typical colour of potassically altered rock but, alas, it did not stain. As it stands, I have stated that it is weakly potassically alt'd. The reddish brown colour is then due to hematite. The core is Qtz-ser-Ant+/-Kno alt'd throughout as the fsp's are alt'd to sericite and the hb's are alt'd to Ant+/-Kno(?).

MINERALIZATION:

4% Pyrite occurs throughout the unit as fig'd disseminations and 1-3mm blebs. Py also occurs in carb veins and as fracture fill. Cpy was noted only locally in carbonate veins in trace amounts.

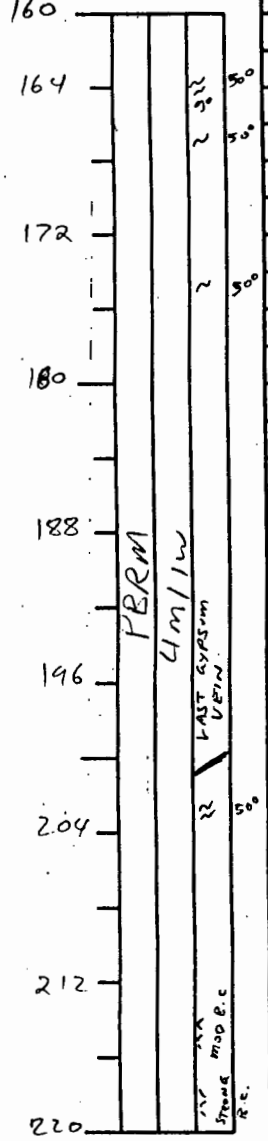
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 176
Logged By: IAN FORSMAN
Date: 02 Aug '95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
	60.96	81.94	CONT'D		Locally the core is magnetic over 15-20 cm sections. No gypsum throughout																			
					STRUCTURE:																			
							-63.20 - 63.54m → 10-15 cm missing core in mod. strongly bkn. <1-2cm ang core & gouge														
							-66.14 - 66.28m → fine gouge in mod bkn core																	
							-72.73m → 1-3mm veins @ 40°																	
							-76.43 - 77.42m → DYKE: A dk brown crystal-rich dyke that has not been noted before in the Grizzly Zone (Yellow CHRIS!). It has 30-40% ang-subrnd cream-buff 0.5-2mm fsp's and no (?) mafics. The upper contact is sharp @ 30° and the lower one is obscured by bkn core. The dyke is weakly porphyritic.													
	81.94	87.25	DACA	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	w	-	-	m	
					LITHOLOGY																			
					This is fairly typical DACA with a light grey aphanitic matrix w/ ~20% white <1mm ang plag crystals & ~5% 1-14mm rounded amygdules. However in this case the amygdules are not only filled by carbonate but also light translucent green talc/gypsum & locally the dyke has a purple hue and wk banding (or deformation by alteration/ground mass) @ 30°.																	
					L.C.																			
					The lower contact is sharp @ 40°																			
	87.25	265.96	PBRM	4	m	1	w	Tr	5	/	3		-	w	w	w	/	Tr	/	Tr-w	W	/	w	
					LITH + MIN																			
					This unit is a varied mixed bx. Generally the rock is orangy brown to pinkish brown but sections up to 15m thick are green. Locally the core is a mottled combination of the two. The porphyritic texture is mostly obscured and where present it is assumed to be a fragment																	

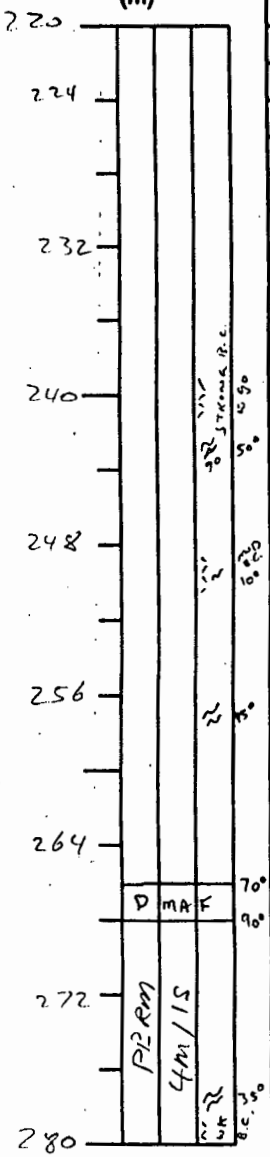
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 5
Logged By: J. FOREMAN
Date: 02 AUG '95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	87.25	265.96	CONT'D.																				

The majority of the rock, the ground mass (?), contains 10-15% white to light green 0.5-2mm subang - subrnd'd fsp's and 10% white to light green 0.5-2mm subang to subrnd'd hb's.

Generally the contacts between the fragments and the ground mass are indistinct and hence the fragments are difficult to distinguish. This is done primarily by texture and colour. Generally the fragments are either coarser grained with phenos to 5mm or finer grained with a more massive appearance. Locally the contacts are very irregular to the point of appearing as though the fragments are partially assimilated into the host. If this were the case would this still be PBRM? Two brown subang 5-8cm (banded?) clasty fragments @ 210.67m

Locally the unit is magnetic in patches up to 15cm. These magnetic patches occur only in sections that are orangy brown in colour.

Between 98.15 and 134.09m the rock is dominately green in colour and/or mottled pinkish (orangy) brown and green. The brecciated nature of the section is less apparent until the rock is stained and only locally does it stain yellow. Through the mottled areas the dark green colour is due to chlorite. The core is correspondingly soft and can be easily scratched by a nail. The top of this section also roughly corrisponds with the beginning of gypsum veining.

4-6%, locally 10%, pyrite occurs primarily as f.g'd disseminations and 1-3mm blebs. Pyrite also occurs in carb +/- gypsum veins and fracture fill. Cpy was noted only locally and occurs mainly in carbonate and gypsum veins where it is commonly associated to pyrite and accesory sphalerite. Between 116.13 and 117.5m chalcopyrite occurs as f.g'd blebs and as 1-2mm grains in the ground mass. These could be fracture controlled. Finally cpy occurs as smeared grains in slickensides @ the edges of rare gypsum veins.

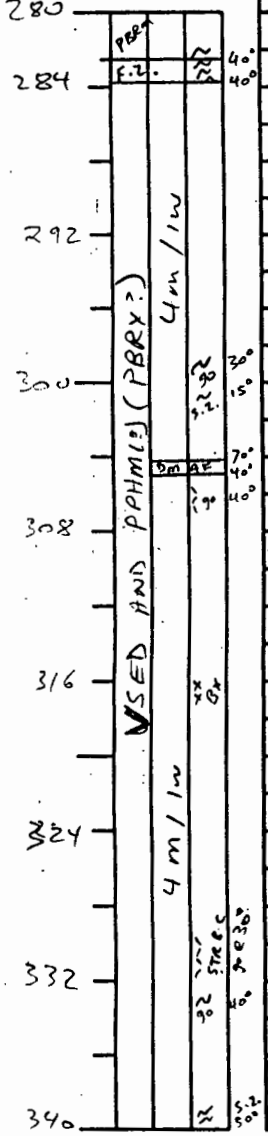
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 176
Logged By: I. FOREMAN
Date: 02 Aug '95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	87.75	265.96			L.C																	

- Sharp @ 70 (- DMAF)

ALTERATION:

Generally the unit is moderately Qtz-Ser-Ank ± Ksp altd. The pinkish brown to orangy brown colour is due to hematite staining. Between 98.15m - 134.09m there is weak to strong potassic alteration in 2-5cm patches. These patches are very irregular in shape. Below 134.48m light grey 3-9mm selvages (sericite?) commonly form around pyrite fracture filled carbonate veins. Locally they appear very similar to milled qtz veins. CONT'D BELOW

STRUCTURE:

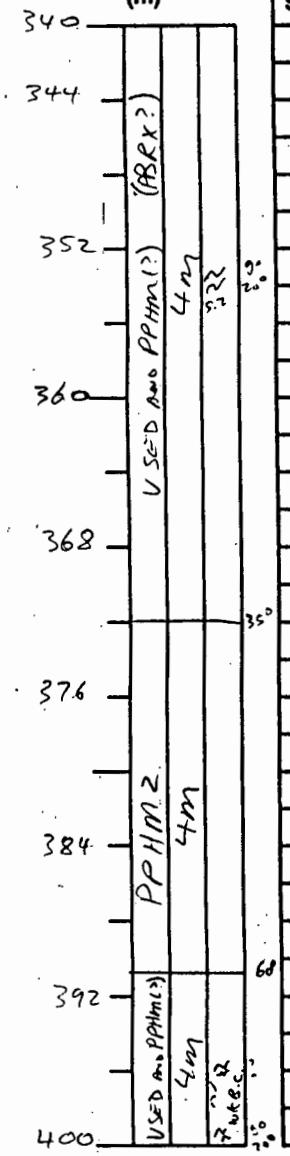
- 87.73 - 99.67m → weak carbonate veining in qtz and gypsum
- 99.67m - 201.81m → weak carbonate (decreasing down unit) veining to weak to moderate gypsum veining and local quartz stockwork locally.
- 201.81 - 265.96m → NO Gypsum, weak-mod carbonate and trace to weak qtz veining.
- 89.16m → 1.3mm sponge in 5cm moderately bkn core.
- 99.67 - 99.82m → mod-strongly bkn (re-drilled) subrounded 15cm core.
- 102.88 - 103.74 → 60 cm missing core in mod to strongly bkn 0.5 - 4cm ang to subang core.
- 104.53m → gouge on Slip @ 30°
- 134.09 - 134.48m → Shear zone in main foliation @ 10° and a second foliation (S Enbrecs?) @ 5°
- 145.65 - 146.41m → moderately bkn 1-8cm ang core to NO gouge
- 146.76 - 146.81m → bx @ 50°
- 149.73 - 150.09m → bkn core to gouge on Slip @ 05°
- 154.35m → gouge on Slip @ 40°
- 164.78m → 5mm gouge @ 50°
- 167.00m → carbonate/gypsum vein in 2cm shear @ 50°
- 175.82 - 175.74m → shear @ 50°
- 201.81m → LAST GYPSUM VEIN
- 203.50 - 203.93m → Shear zone @ 50°

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 176
Logged By: I Ao Foreman
Date: 03 Aug '95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	87.25	265.96	CONT'D			-215.36	-	215.71m →			moderate		blin		1-4mm			core	qz	fracs	gouge		
						-218.54	-218	83m →			strongly		btn		1-2cm			core	&	gouge			
						-240.30	-240	.75m →			mod to strongly		btn					core	&	subsidiary	core	& 15cm	gouge
						-242.53m		→			3-5mm		gouge @ 50°										
						-248.95	-249	.10 →			mod	btn						core	&	1cm gouge	on slip	@ 10°	
						-257.34m		→			1-2mm		cemented gouge					in slip(?)	@ 15°				
					ALTERATION CONT'D:																		
						228.20 to 229.70 is very strongly potassic altered. The following																	
						2.5 meters is bxi with the fragments being similar in size and																	
						color. The matrix is replaced by strongly potassic altered																	
						Locally the alteration only stained along stringers indicating fracture																	
						controlled alteration.																	
	265.96	267.95	DMAF	—	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					LITHOLOGY:																		
						light grey aphanitic ground mass with 5-8% <1mm cream to white																	
						angular phenos. locally, 2-3% 1-4mm rounded carbonate amygdules																	
						are concentrated near the contacts. 5-8% 2-8mm angular tabular																	
						cream through light green to black (blebby?) phenocrysts. 30-40%																	
						of this dyke is purple. (alteration product?). L.C: Slop @ 90°																	
	267.95	282.44	PBRM	4	m	1	s	:6	6	/	2		/	s	m	m	/	w	Tr	w	/	/	w
					LITH + MIN:																		
						This is a continuation of the main phase breccia between																	
					87.25 - 265.96 m. Locally, moly occurs in quartz veins.																		
					L.C:																		
						Slop in Fault Zone @ 40°																	
					ALTERATION:																		
						The alteration is the same as the above unit except that																	
					sections are strongly potassic.																		

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

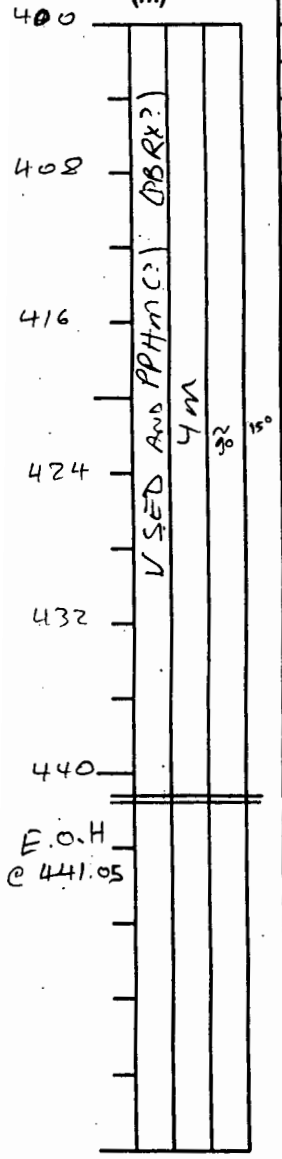
GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 176
Logged By: I. FOREMAN
Date: 04 AUG 95

Graphic Log (m): 400, 408, 416, 424, 432, 440, E.O.H @ 441.05

VSED AND PPHM (?) (PBRX?) 4m 90° 15°



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	267.95	282.44	CONT'D		STRUCTURE:																	
						-278.30		-278.45m →			wk shear zone @ 35° with bkn core and trace gouge											
						-279.26		-279.50m →			wkly bkn 2-3cm ang core w trace gouge											
	282.44	283.95	FAUL	-	-	-	-	.5	6	/	/	/	/	/	/	/	S	/	W	-	-	S
					LITHOLOGY: MINERALIZATION:																	
					Fault zone w 2-3cm subang aphanitic grey and porphyritic light green fragments. Broken quartz veins make up 25-30% of the fragments. Slips and gouge zones are @ 40-50°. The gouge is chalcopyrite-rich.																	
					L.C:																	
					Sharp @ 40°																	
	283.95	372.05	VSED AND PPHM (PBRX?)	4	m	1	w	0.8	6	/	3	/	W	m	m	-	m	/	W	/	/	W
					LITH + MIN:																	
					Generally, this unit has an aphanitic appearence. Upon closer inspection phenocrysts occur locally.																	
					50-60% of the unit is light brown / greyish green / beige and aphanitic. It is massive except for local banding. Between 426.84m - 427.72m the unit is banded as defined by 1-3cm alternating light green and brown bands the contact between the bands are sharp and locally irregular. 5-7% Pyrite occurs as f.g'd disseminations throughout the matrix and as 1-3mm rounded blebs which commonly are surrounded by v.f.g'd chlorite (?). This unit also contains f.g'd chalcopyrite throughout the groundmass and can occupy 1% of the rock. CPY also occurs in the blebs assoc'd w the pyrite															
					This unit is very similar to (if not the same as) the VSED units noted in holes 95-150, 168, 170 and 173.																	
					20-30% of the unit contains 5-8% light green to brown, rarely translucent, 0.5-2mm subrnd'd to euhedral phenocrysts. These have been assumed to be feldspars. No possible mafic phenocrysts have been noted. The matrix is light green and aphanitic. This unit occurs as																	

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 176
Logged By: I. FOREMAN
Date: 05 AUG '95

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	283.95	372.05	CONT'D																			

sections between 5 - 30 cm's and has indistinct contacts that are often obscured by qtz veins. Locally this unit resembles PPHM 2.

Finally, 10-20% of this unit is a mottled white-cream and green with an aphanitic matrix and 10-15% 0.5-2mm cream to light green very irregular grains. They almost appear to have been deposited in an aqueous environment. Locally the irregular grains are aligned.

Approximately 20% of the whole unit is brecciated with fragments ranging from 0.5-6.0 cm. All fragments are subang to subrounded and they vary in composition. Qtz veins are also encorporated into these breccias.

There are several ways to interpret this unit. It is possible that the sections with the phenos are PPHM and is intruding the volcanic seds. If so, the PPHM may then intrude the seds when they were lithified or when they wet. The other interpretation is that the sections with the phenocrysts are water 'lain' tuffs which are interbedded with finer muddy units.

L.C.:

Sharp with dyke @ 35°

ALTERATION:

The aphanitic units are pervassively sericite altered. The pheno's are also altered to sericite. Generally the unit is Qtz-Ser-Ank +/- Kao alt'd. Locally, a bright green alteration product occurs as massive blebs or fig'd disseminations. It is strongest between 365.65m and 366.55m.

STRUCTURE:

- 299.11m → 1cm gouge @ 30°
- 300.27 - 300.71m → py-rich shear zone @ 15° w 0.5-2.0cm ang qtz frags
- 304.56 - 305.34m → DMAF w U.C. @ 70° and L.C. @ 40°
- 306.16 - 306.24m → 2-3cm rubbly gouge @ 40°

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 176
Logged By: I. FOREMAN
Date: 05 AUG '95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Mineralization Typ	Mineralization Int.	Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	283.95	372.05	CONT'D			- 316.76-3		17.86	m →	Bx with		p.g'd moly	and	enhedral			BIOTITE		and	qtz	vein	
						- 331.84-3		31.91	m →	strongly		bfn	ang	core	in	gauge	@ 30°					
						- 333.08-3		33.11	m →	gouge	in	slip @ 40°										
						- 339.58-		339.	5m →	shear	zone	@ 50°										
						- 354.86		m	→	2-5mm		gauge in shear zone @ 20°										
	372.05	390.95	PPHM2	4	m			Tr	1	/	/	-	/	m	m	-	Tr	Tr	w	-	-	w
					LITH + MIN																	
					Aphan. light green groundmass surrounding 20-30% translucent green 0.5-2mm subang-subrnd'd qtz's and 10-15% cream to beige angular 0.5-3mm hbls.																	
					1% Pyrite occurs in veins and fracture fill. locally, chalcopyrite occurs in qtz vnlts and carbonate veins.																	
					L.C:																	
					slop @ 60°																	
					ALTERATION																	
					Moderate Qtz-fsk-ser +/- Kfs alt'n throughout the unit as the chloritic altd'd and the hbls are partially altd'd to Ank +/- Kfs.																	
					STRUCTURE:																	
					- No notable structures in this unit.																	
	390.95	441.05	VSED AND PPHM (PRRX?)	4	m	1	w	1.0	6	Tr	3	-	w	m	m	-	m	-	w	-	-	w
					LITH + MIN																	
					This is the same brecciated, possibly mixed unit as between 28 2.95 - 372.05 m. The ratios of different rock types is also similar. The mineralization is the same except BORNITE occurs as fracture fill @ 416.61m, 417.66m and 419.68. In each case, the bornite is associated with chalcopyrite																	

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 176
Logged By: I. FOREMAN
Date: 05 AUG '95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
	390.95	441.05	CONT'D			L.C.:																		
							E.O.H.																	
						ALTERATION:																		
						The alteration is similar to the overlying unit between 283.95																		
						and 372.05m.																		
						STRUCTURE:																		
						- 396.49	- 396.53m	→				gouge & rubble @ unknown angle												
						- 396.69	- 396.88m	→				wkly bkn and core & gouge												
						- 397.27	- 397.46m	→				gouge in 2cm Shear zone @ 20°												
						- 402.35m		→				4cm gouge @ 15°												
	441.05	441.05	E.O.H																					

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 177

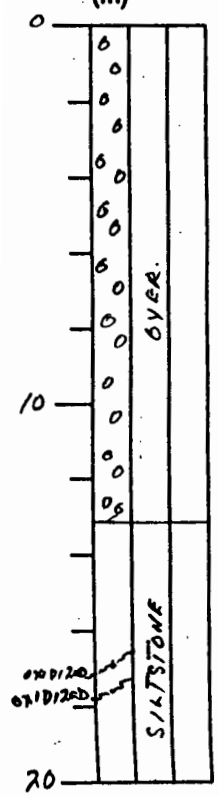
AMERICAN BULLION MINERALS LTD.

Location Sketch

Grid Northing (m):	99.900	Date Started:	AUGUST 4/95
Grid Easting (m):	50600	Date Completed:	AUGUST 5/95
Elevation (m):		Logged By:	J. DEIGHTON
Total Length (m):	41.76	Date Logged:	AUGUST 5/95
Casing Depth (m):		Data Entry:	
Reduction Depth:		Entry Date:	
Collar Core Size:	NQ	Casing (In/Out):	OUT

Survey	Depth	Azimuth	Dip
	0	000°	-60

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	0	13.11	OVERBURDEN & BROKEN WEATHERED ROCK											OVERBURDEN PROBABLY 1/2 THE THICKNESS									
	13.11	41.76	SLST	NOT ALTERED																VW			S

DARK BROWN TO BLACK SILTSTONES. WITH FINE TO NO OBSERVABLE BEDDING PLANES 75° TO CA. SILTSTONES ARE STRONGLY FRACTURED AT SMALL ANGLES OR ALONG BEDDING PLANES AND AT ~ 45° TO CORE AXIS THE LARGEST PIECE OF CORE IN THE ENTIRE HOLE IS 17 cm LONG OCCASIONAL LIGHT GREYISH ALTERATION UP TO 1 cm IN WIDTH OCCURS IN THE CORE AND MAYBE STRESS ZONES. THESE ZONES ARE SOFT AND CAN BE PEALED WITH FINGERNAIL. OCCASIONAL CALCITE HAIRLINE VEINS ARE FOUND THROUGHOUT THE SECTION. THE CORE FIZZES UNDER ACID BUT ONLY ON FRACTURES DOESN'T FIZZ UNDER ACID IN NORMAL SOLID SECTIONS EXCEPT ON OCCASSIONAL BEDDING ?? FRACTURE PLANES.

17.0 - 2 cm OXIDIZED CLAY GOUGE 50° TO CA.

23.55 BROKEN FRIABLE ROCK AND GOUGE. CLAY MUD WITH SMALL FRAGMENTS OF ROCK SAND SIZE.

17.6 5 cm OXIDIZED CLAY GOUGE.

28.7 - 28.8 FRIABLE ROCK FRAGMENTS. WITH MINOR GOUGE ~ 50° TO CA.

DRILL HOLE NO. 95 -

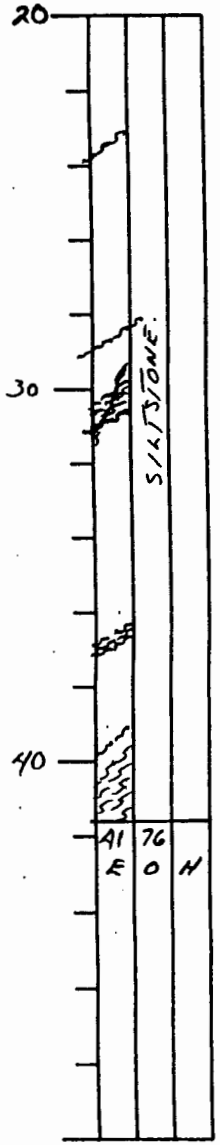
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 177
Logged By: J. DEIGHTON
Date: AUG 5/95

Graphic Log (m)



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

30.2 - 32.8 FAULT ZONE. HEALED ALMOST SOLID & SOLID CORE. WITH SOME HEAVIER CALCITE VEINS SOME OF WHICH PREDATE FAULT AND SOME THAT MAY HAVE COME IN DURING OR AFTER SHEARING. SHEAR ANGLES 45° TO CA. UPPER CONTACT 35° TO CA LOWER CONTACT 60° TO CA.

36.6 - 36.9 - LIGHT GREY (WEATHERED?) COLOURED STRESSED AND WEAKLY SHEARED ~ 70° TO CA.

39.7 - 2 cm OF GOUGE.

41.0 - 41.76 GOUGE AND SMALL ROCK FRAGMENTS. SAND TO PEBBLE SIZE. WITH MUD GOUGE SEAM 7cm WIDE AT BEGINNING OF FAULT AT 63° TO CA.

41.76 HOLE TERMINATED BECAUSE THE DRILLERS COULD NOT GET PAST THIS SECTION AFTER 10 - 20 TRIES OF REAMING & COLLECTING SAND. AND STICKING RODS.

NOTE - NO SPERRY-SUN TAKEN AT BOTTOM OF HOLE AS WERE AFRAID WE MIGHT LOOSE TOOL TO CAVING AROUND RODS OF SPURRY SUN.

NOTE - OXIDIZATION IN TWO CLAY GOUGE SEAMS 17.0 & 17.6 m.

DRILL HOLE NO. 95 -

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 178

AMERICAN BULLION MINERALS LTD.

Location Sketch

Grid Northing (m):	100,000	Date Started:	AUGUST 5/95
Grid Easting (m):	50.795	Date Completed:	AUGUST 6/95
Elevation (m):		Logged By:	J DEIGHTON
Total Length (m):	32.61	Date Logged:	AUGUST 6/95
Casing Depth (m):		Data Entry:	
Reduction Depth:		Entry Date:	
Collar Core Size:	NQ	Casing (In/Out):	OUT

Survey	Depth	Azimuth	Dip
	0		-90

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	0	6.10	OVER																				
				OVERBURDEN IS ALMOST ENTIRELY CLAY WITH OCCASIONAL BOULDER OF BOWSER SEDIMENTS																			
	6.10	32.61	SLTS.																	VW			S
				BOWSER SILTSTONES DARK BROWN TO BLACK IN COLOR HIGHLY FRACTURED AND CONTAINING THE VERY OCCASIONAL HAIRLINE WHITE CARBONATE VEIN. BEDDING IS EXTREMELY FINE LAMINATIONS THROUGHOUT HOLE WITH AN APPARENT INCREASE IN DIP TO THE BEDDING PLANES DOWN THE HOLE. THE BEDDING IS 82° TO CA FROM 11 TO ~ 18 m THEN BEDDING ANGLES INCREASE TO 65° TO CA. NEAR THE BOTTOM OF THE HOLE SECTIONS UP TO 20 CM LONG TAKE ON A LIGHT GREYISH COLOR WHICH IS A MORE CALCAREOUS SILTSTONE WHICH MAY BE PARTIALLY BRECCIATED AND/OR VEINED BY SLIGHTLY MORE CARBONATE (CALCITE) VEINS THAN OTHER SECTIONS OF THE HOLE. A PYRITIC FRACTURE OCCURS AT 13.1 m SUB PARALLEL TO CA. FOR 10 CM. ADJACENT TO SMALL SHEAR?																						

Graphic Log: 0, 6.10, 10, 20; OVER; SLTS.

DRILL HOLE NO. 95 -

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 178
Logged By: J. DEIGHTON
Date: AUGUST 6/95

Graphic Log (m)

20
30
40

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
			14.33		3 cm	of		GOUGE																
			19.20	- 19.30		- GOUGE & SAND SIZE FRAGMENTS OF BROKEN CHARC OR LIMESTONE. UNKNOWN																		
				ANGLE TO CORE																				
			25.2	2 - 3 cm		of		GOUGE	AT UNKNOWN		ANGLE	TO	CORE	AXIS										
			28.5 -	29.0		CALCITE ONLY		SLIGHT STONES					LIGHT GREY IN	COLOR		ALSO		CUT	BY	CALCITE			
				VEINS.																				
			28.4	1 cm		of		LIGHT GREY		GOUGE			33°	TO	CA.									
			29.57 -	32.61		BROKEN		PUTTY		LOST			CORE	IN				LAST	AT	BOTTOM		OF	SECTION.	
				IS DISCOLORED &																				
				FAULT																				
	32.61	END	OF HOLE -			STOPPED		BECAUSE	OF	DRILLING			DIFFICULTIES											

DRILL HOLE NO. 95 - [ ]

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

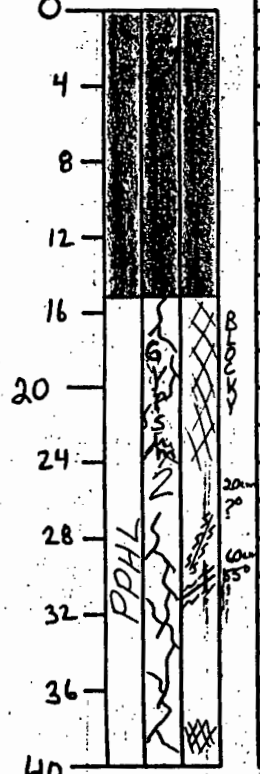
DRILL HOLE NO. 95 - 179

Location Sketch

Grid Northing (m):	99 907	Date Started:	Aug 5/95
Grid Easting (m):	49 400	Date Completed:	Aug 9/95
Elevation (m):		Logged By:	B. Thurston
Total Length (m):	358.75	Date Logged:	Aug 6/95
Casing Depth (m):		Data Entry:	
Reduction Depth:		Entry Date:	
Collar Core Size:	NQ	Casing (In/Out):	Out

Survey	Depth	Azimuth	Dip
1	152.3	005°	-47.5°
2	309.98	006.5°	-48.5°

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	0.00	15.24	CASN																			
P	15.24	50.29	PPHL	2	S			<.30	3	o	o	o	o	S	w-m	o	o	T	o	m	o	W

Lithology: Light grey colour to core w/ a pervasive orange (ankerite) carbonate stain up section. Porphyritic texture is completely destroyed. Trace plagioclase phno's are observed up section but overall the groundmass is strongly sericitized plagioclase ± clay with disseminated pyrite ~2% & fracture, bleb & vein Py ~1%. Diss black shiny specks? also throughout <1% (not Te in Bi or Mag) ≤ 0.3mm. No calcite in core (No Fizz w/ HCl

Gypsum stockwork is moderate throughout in a stockwork of white gypsum veins usually 1→3mm wide. Some fragments are observed around 29→35m but very few and weak. No Qtz or carb. Stk-wrk. No Cpy. Trace sphalerite in gypsum mass/vein.

Alt'n: Strong Ser + Py ± clay & Ankerite staining. Mod→Strong Phyllic. No calcite.

Structure: * Several small gouge sections occure @ 33° & 55° but no change is observed in the rock type. Core is weak to mod. blocky, overall competent.

** No or trace core/Gouge recovery from 50.55m to 81.38m

DRILL HOLE NO. 95 - 179

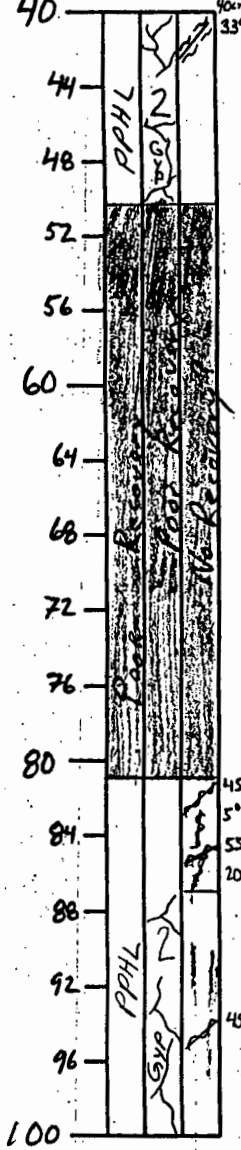
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 179
Logged By: B. Thurston
Date: Aug 6/95

Graphic Log (m)



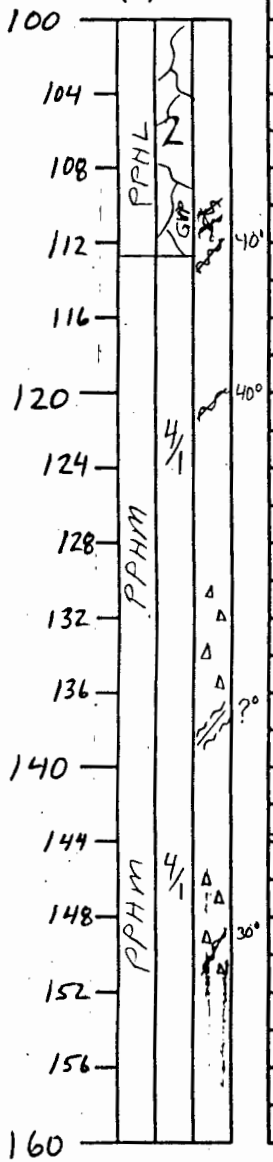
PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	mag Chl	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
P	50.55	81.38	PPHL	2	m				3															
				Lithology: Trace to No core recovered in this section. minor gouge possibly @ 30°. Lithology is also based on what is before & after poor recovery section.																					
P	81.38	113.00	PPHL	2	S			<.30	3.5	o	o		o	o	S	m	?	o	o	o	m	o	W-m	
				Lithology: Same as 15→50 m except that there is more Healed shearing or faulting throughout. Also a very fine grain porphyritic texture is somewhat patchy but observed in the mafics <1mm → 0.5mm.																					
				Structure: * Patchy Faulting / Shearing from 82→87m @ 45°, 55°, 20° & large Gouge (40cm) section @ 5°?																					
				* Smaller shears ~ 40°→45°																					
				* L.C. is fragmental & somewhat assymilated. Gypsum ends @ 112m																					
				* 112→113m is sheared @ 5°→30°.																					
P	113.00	183.00	PPHM	4	m	1	m	.4	1.5	o	2	*	?	m	m	W	T	T	T	vW	o	T	W-m	
				Lithology: This core ranges in colour from light green → grey → dark green to light orange to bright orange. The colour variation is due to mineralogical changes and alteration changes. The Orange colour appears to be He staining, not K-spar. Rock fragments / Brecciation occurs throughout the core sometimes only 5cm sometimes 2 meters. This is called PPHM But it is quite different looking. The porphyritic texture is fairly well preserved mainly in the mafics which are buff colour & average 0.5 mm, up to 15% & show a very faint trachytic texture. Plag. pheno's are less apparent & fewer often <1mm & strongly sericitized. The ground mass is sericitized & in patches of potassic alteration, replaced by K-spar, especially in brecciated areas. Qtz veins are 90% <2mm wide w/ sulphid, Hematite, and carbonate cores. Often (50%) vein edges are fuzzy & not sharp. Hematite veins accout for 50%																							
				Alt'n:																					
				Min'z:																					

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 179
Logged By: B. Thurston
Date: Aug 7/95



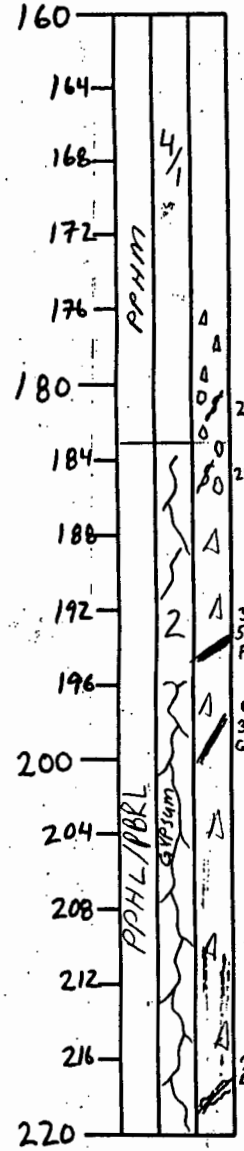
PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
								of the He, not counting He staining. Magnetite is in patches															
								of strong potassic Alt'n when core is almost brown or dark															
								green ½± chloritized. Tourmaline is diss. (very fine) throughout.															
								Py is diss. 75% ± along fracture/veins/ blebs 25%. Cpy is 80%															
								in Qtz veins + Hematite veins/blebs + in dark grey (sulphide)															
								patches usually < 10 cm in core. Calcite is Trace to weak															
								pervassive except in dark green chloritized (Propylitic?) potassic areas															
								where it is mod. Carb. fracture filling is weak in areas of Healed															
								SH's or F's but trace overall. Calcite is mod. in these fract's.															
				Structure:			*	U.C. is unclear or over 1 → 2 meters.															
							*	Flow banding is anywhere from 25° → 45°															
							*	1m healed F + gouge @ 136.25m															
							*	160 → 168m increase in carb fract. filling due to healed SH.															
							*	168 → 172m multiple shears @ 18°, 38°, 45°, 80°, followed by															
								more carb. fracture filling to 175m.															
							*	147 → 152m is Healed SH/F @ 25°→35°															
							*	179 → 183 m becomes brecciated; L.C. is partially assymilated															
								L.C. is a rather large transition zone up to 186m w 2 sheavs @ 25°															
								and beginning of moderate Cypsm stk-work.															
P	183.00	228.25	PPHL	2	m			<.3	3	0	0	0		m-s	W	T	0	W	T	m	0	W
S	228.25	240.00	PPHL	2	m			<.3	3.5	0	0	0		m-s	W	0	0	W	T	0	0	T
S	240.00	261.40	PPHL	2	m			<.3	3.5	0	0	0		m-s	w	0	0	W	T	W	0	W
				Lithology:				Core is light grey to cream white in sections and a light/pale															
				& Minez.				Orange/brown/beige color to patches of Groundmass. Porphyritic texture															
								is rarely observed upsection and only poor down section in the															
								plag. pheno's. Most core is just groundmass that has been strong to															
								moderately sericitized. The unit is close to a PBRL but															
								breccia often occurs only in small < 0.5m sections surrounded															
								by solid sections of core. Most breccia sections are very															

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 179
Logged By: B. Thurston
Date: Aug 9/95



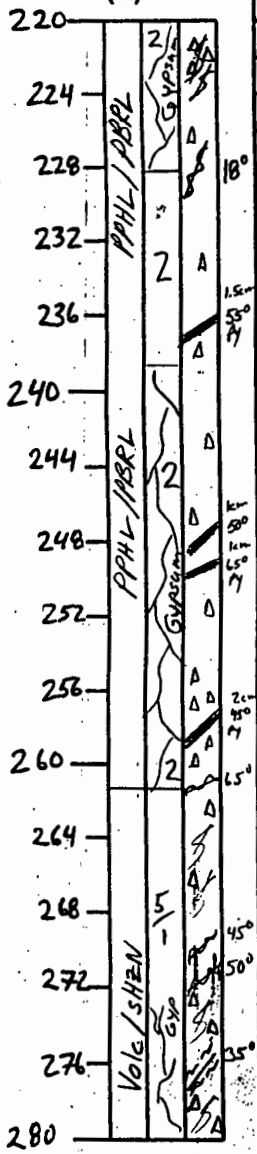
PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
								indistinct. Fragments mix in w groundmass, and combined w the patchy alteration that is observed, the breccia sections are hard to identify. Gypsum stock-WRK is moderate upsection and weak down section. Carbonate is strongest in brecciated and SH'ed areas as fracture fillings, overall <1%. Calcite is Trace in this unit occuring only in micro fractures upsection and fragments down section, not pervasive. Green Fragments (Ser± chl) w Tr% of diss. Py occure down section near contact w SHZN/VOLC. Py is mainly (75%) diss ± 25% fracture filling and veins up to 2 cm wide.									
				Alt'n:				Sericite + Py (± clays) is pervasive through groundmass & has destroyed the porphyritic texture.														
				Structure:				* Unit is brecciated.														
								* Py veins are 45°⇒65°														
								* Brecciation increases @ L.C.														
								* L.C. is a brecciated healed shear zone w a mix of volcanics ∴ actual L.C. is partially assymilated.														
P	261.40	286.00	VOLC	5	W	1	T	<.30	3	o	T	T?	vW	m	T	o	T	o	W	W	o	W-M
				Lithology:				The core is light to dark green. Mod⇒Strong brecciation along w mod to Strong shearing is observed, both carb. & Gypsum healed. This unit could be called a healed SHZN, but the sections of solid competent core leans more to calling it Volc & describing the Structure. The porphyritic texture is poorly preserved in the mafics which have been chloritized & rarely observed in plag phenos that are sericitized & blend into the groundmass! Trace diss. Hematite in the more solid sections of good volcanics. Calcite is strong to intense pervasive throughout the core. Py is often diss but occurs as blebs that look possibly like replacement of other phenos. Qtz + Carb + Py veins are trace & often assoc.									
				Min'n:																		
				Alt'n:																		

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 179
Logged By: B. Thurston
Date: Aug 9/95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
								with shearing. No cpy seems to be assoc. w these veins.														
								No epidote or magnetite is observed so a weak propylitic.														
				Structure: *				Strong shearing & brecciation throughout most commonly @														
								35° but also 45°, 50°, 65° & 75°.														
							*	L.C. seems to be a 45°→55° breccia segment ending w														
								~20cm healed gouge/clay @ 55°. This corresponds w the end of														
								the gypsum & beginning of solid competent Volcanics @														
								286m														
							*	Secondary K-spar trace along fracts & pervasive.														
S	286.00	321.60	Volc	5	w	1	T	<.30	4	o	T	T	vW	m	W	o	T	o	T	o	o	W
				Lithology:				Mainly dark green w patchy pale→light green sections. Porphyritic														
				min:				texture is more easily observed in chloritized mafics & less in														
				Alt'n:				sericitized plag's. Very trace Hem. diss. No Magnetite. Diss Py blebs														
								are possibly replacements of pheno's. Qtz+Carb+Py veins up to														
								5mm wide usually <2mm cut the core w sharp undulating														
								boundaries. Carbonate is observed as fracture fillings mostly around														
								shear zones & Breccia units. Some Qtz+Carb. Veins have a														
								reddish-brown envelopes (K-spar? He-Stain?). No epidote. Calcite is														
								strong to intense pervasive upsection & decreasing @ ~300'.														
								where SHing and carb. Healed fractures increase. K-spar along fractures														
				Structure: *				60cm Bx unit @ 30° @ 295.20m													& pervasive	
							*	18° SH @ 300.55 m begins SH Zone to 321.6 m (Healed)														
							*	SH's @ 20°, 50°, 60°														
							*	L.C. is assym w Healed shearing & No Angle→followed by 1m Breccia														
								and green frags.														
P	321.60	352.65	PPHL	2	m			<.30	3.5	o	o	o	o	m	W	o	T	W-m	T	o	o	T
				Lithology:				Upsection rock is grey w med-grain (up to 4mm) good porphyry														
				min:				texture w blown out anhedral plag pheno's, cream coloured														
				Alt'n:				& mod. altered to ser+clay. 327.70→330.50 m is a wedge of														

DRILL HOLE NO. 95 - 179

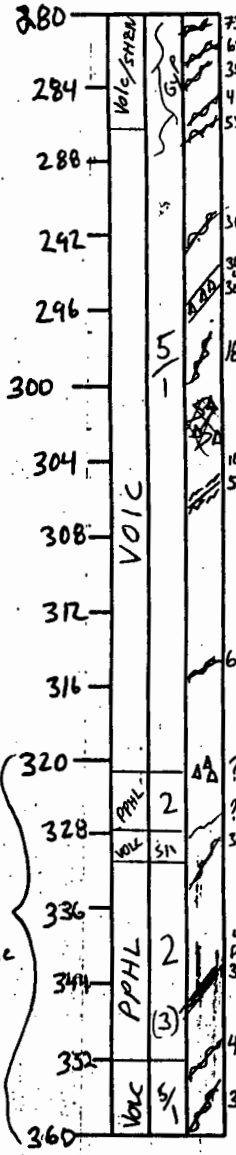
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 179
Logged By: B. Thurston
Date: Aug 9/95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	SPHY	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
								Volcanics that is brecciated w assym. 30° L.C. w 10cm SHear. Below to 340.46m good phyllic envelopes on py veins, fracture fills. Porphyritic texture is preserved in the plagioclase's that is finer grain than up section (2mm average). Green (Ser+Py) Fragments are throughout. 340.46→ 352.65m rock takes on a beige to light orange colour in the groundmass & py blebs have ~5mm ser (grey) envelopes. Some 4mm size plag phenos. In all units mafics may be replaced by py. Py is diss & as blebs 80% in fractures & large veins ~20% (upto 2cm) Qtz is observed in Py + Carb. Veining usually upto 10→20% of the vein.													
				Structure:		* Solid competent core.																	
						* Green fragments throughout.																	
						* Cut by Volc's @ 30° @ 327.7 → 330.50m																	
						* L.C. @ 40° sharp. assym. contact.																	
P	352.65	358.75	Volc	5	W			<.30	3	0	0	#	0	T	M	W	T	T	0	T	0	0	T
				Same as Volc above PPHL.																			
				Structure:		* 30m SH section @ 30°																	
						* Spall in Shear Zone.																	

DRILL HOLE NO. 95 - 179

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 180

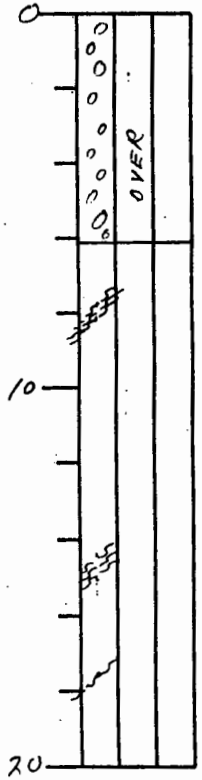
AMERICAN BULLION MINERALS LTD.

Location Sketch

Grid Northing (m):	100,100	Date Started:	AUGUST 6/95
Grid Easting (m):	51,000	Date Completed:	AUGUST 6/95
Elevation (m):		Logged By:	J. DEIGHTON
Total Length (m):		Date Logged:	AUGUST 7/95
Casing Depth (m):		Data Entry:	
Reduction Depth:		Entry Date:	
Collar Core Size:	NQ	Casing (In/Out):	OUT

Survey	Depth	Azimuth	Dip
	0		-90

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	0	6.10	OVER.																				
				OVERBURDEN.																			
				BOULDERS OF PEBBLE CONGLOMERATE IN CORE.																			
	6.10	29.57	SLTS.																	V.V.W.			S
				DARK BROWN TO BLACK WITH OCCASIONAL LIGHTER GREY STREAKS OR BED. THAT IS CALCAREOUS. THE ROCK IS HIGHLY FRACTURED AND IN SOME SECTIONS FRIABLE. A VERY OCCASIONAL CALCITE VEINLET CUTS THE SEDIMENTS. BEDDING ANGLES ARE HIGHLY VARIABLE THROUGHOUT THE HOLE GENERALLY INCREASING IN STEEPNESS AS ONE PROGRESSES DOWN THE HOLE. BEDDING IS 87° TO CA AT TOP 10m WITH A FOLD IN THE SEDIMENTS AT 7m, 70° TO CA @ 13m, 65° @ 12.5m, 35° @ 18m, 47° @ 23m, 25° @ 26m, FAULTING AND NARROW SHEARING OCCUR THROUGHOUT LENGHT OF HOLE SHEARING FROM mm TO SEVERAL cm OF CLAY GOUGE. WITH BROKEN FRIABLE SECTIONS OF ROCK, GOUGE & CLAY GOUGE WITH SMALL ROCK FRAGMENTS.																						
			7.7 - 8.1	GOUGE AND FRIABLE BROKEN RX. WITH PRESUMED BUT UNRASHED SLIP PLANE 45° TO CA.																			

DRILL HOLE NO. 95 -

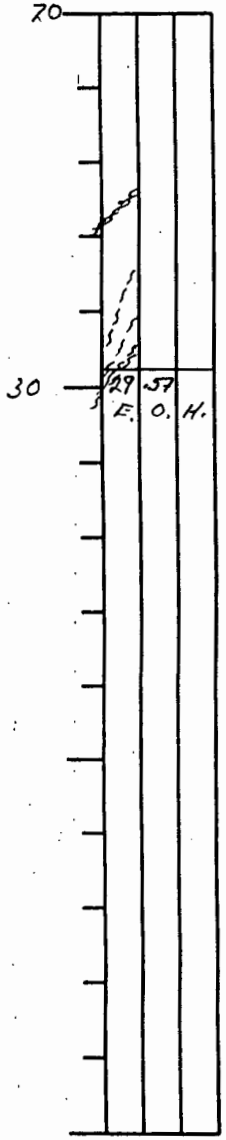
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 180
Logged By: J. DEIGHTON
Date: AUGUST 7/95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
			14.3		2 cm		OF GOUGE		NO	CORE		ANGLE	NOTED	BUT	PRESUMED	TO	BE	~	60°	TO	CA.		
			14.5 - 15.0 m		GOUGE	&	BROKEN	RX	&	FRIABLE	RX	WITH	SAND	TO	PEBBLE	SIZE	FRAGMENTS.						
				NO	ANGLE	TO	CORE																
			17.7 - 17.8		GOUGE.	&	FRIABLE	ROCK.	&	BROKEN	RX	NO	CORE	ANGLE									
			20.6	1 cm	GOUGE.	65°	TO	CA.															
			21.8	1 cm	GOUGE	in	BROKEN	RX	NO	ANGLE	TO	CA.											
			23.5	3 cm	OF GOUGE	50°	TO	CA.	BEDDING	AT	THIS	POINT	47°	TO	CA.								
			23.8	6 cm	OF GOUGE	60°	TO	CA															
			25.1 - 25.4	BROKEN	ROCK,	SAND	SIZE	PIECES	&	MINOR	GOUGE	&	PEBBLES	WITH	SMOOTH	POLISHED							
				CLIP	SURFACE	NO	ANGLE	TO	CORE	MEASURED													
			25.9	3 - 5 cm	OF GOUGE	WITH	POLISHED	SURFACES	ADJACENT	TO	GOUGE	GOUGE	50°	TO	CA.								
				POLISHED	SURFACES	60 - 55°	TO	CA.															
			27.8 - 27.9	SHEAR	GOUGE	ZONE	20°	TO	CA.														
			28.0 - 28.3	GOUGE	SAND	AND	SMALL	PEBBLES	NO	CORE	ANGLE		FAULT.										
			28.35 - 29.57	.35 m	RECOVERED	FAULT ?																	
		29.57	END	OF	HOLE																		

DRILL HOLE NO. 95 -

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

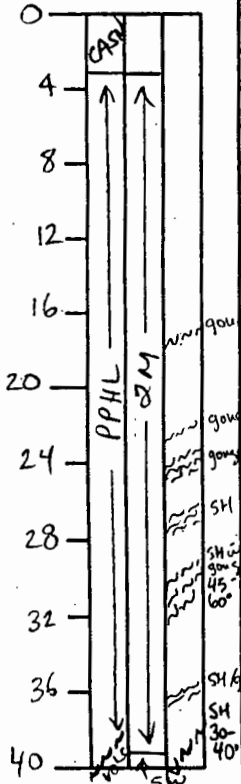
DRILL HOLE NO. 95 - 181

Location Sketch

Grid Northing (m):	100 600 N	Date Started:	Aug 6/95
Grid Easting (m):	50 600 E	Date Completed:	Aug 7/95
Elevation (m):		Logged By:	T. Fraser
Total Length (m):	50.90 m	Date Logged:	Aug 7/95
Casing Depth (m):	3.66 m	Data Entry:	
Reduction Depth:	—	Entry Date:	
Collar Core Size:	NQ	Casing (In/Out):	Out

Survey	Depth	Azimuth	Dip
	0	180°	-45°

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alt. Int.	Alt. Typ	Alt. Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	0	3.66	CASN																			
	3.66	39.21	PPHL	2	M	—	—	<0.3	6	0	0	0	0	M	W	0	TR	TR	S	0	0	S

Lithology - Typical plagioclase hornblende porphyry - Late Phase. The unit is highly weathered and orange to brown in colour from 3.66 to 20.42 m. The core is also broken and appears to be ankerite altered. From 20.42 m downhole the unit is pale grey and is moderately to strongly porphyritic. Plagioclase phenos are 1-4mm, subhedral to euhedral, and approximately 35-40%. The groundmass is pale bleached grey (plagioclase - ±ch). Hornblende phenos are rare to absent. Where present locally, the phenos are beige/tan and euhedral.

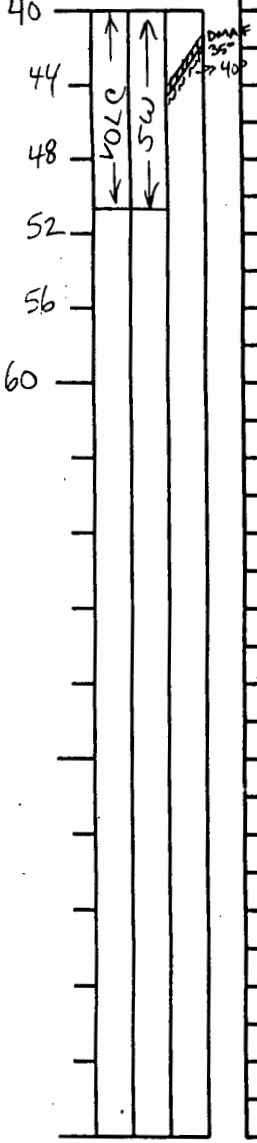
Alteration/Mineralization - The unit is strongly brecciated by white/cream carbonate veins to 26.70 m. There may be fine grained grey crystalline quartz mixed with the carbonate matrix. Moderate to locally strong carbonate veins cut the unit below 26.70 m. Trace qtz-pyrite veinlets. Trace carbonate-sphalerite veins. Pyrite is finely disseminated and blebby throughout. Plagioclase phenos are moderately weakly altered to kaolinite altered. Trace pyrite veinlets.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 181
Logged By: T. Fraser
Date: Aug 7/95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
			Structure -				17.16 - 18.36 gouge healed gouge.															
							22.50 - 23.25 broken with gouge															
							23.47 - 25.30 m broken with gouge															
							26.80 - 27.76 m Shear															
							28.40 - 28.90 m healed gouge															
							29.57 - 31.62 m Shear with healed gouge : 45-60° to C.A.															
							32.80 - 32.92 m Shear/gouge															
							34.00 - 34.10 gouge 50° to C.A.															
							36.40 - 37.10 m Shear/minor gouge															
							37.50 - 37.65 m gouge 40°															
							38.44 - 38.52 m Shear															
							38.92 - 39.21 Shear/gouge 30-40° to C.A.															
							@ 39.21 m U.C. VOLC marked by shear															
	39.21	50.90	VOLC	5	W	-	-	TR	12	0	TR	0	0	M	0	0	TR	W	M	0	0	M

Lithology - Light/pale green to dark green fine grained to medium grained porphyritic volcanic unit. The volcanic rock appears to be dominantly plagioclase phyric locally with mafic phenos. Phenocrysts are subhedral & euhedral and are on average of 1-3 mm diameter. The groundmass is buff to dark green. Plagioclase phenos are pale green. The groundmass is aphanitic. The unit appears massive and colour becomes darker down-hole (probably somewhat bleached at the upper contact with Late Phase defined by a shear contact @ 39.21 m (@ 30-40°). The volcanic is non-magnetic.

Alteration/Mineralization - The plagioclase phenos are moderately sericitized. Mafic (?) phenos also appear to be somewhat altered. Trace blebby chalcopyrite, Pyrite is finely disseminated and blebby throughout. Weak to trace pyrite veins which tend to be discontinuous/irregular. The unit is cut by moderate carbonate

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 181
Logged By: I. Fraser
Date: Aug 7/95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
				veins. Trace disseminated red/brown hematite from																47.00 – 50.90m			
				carbonate veins appear to be 60° to C.A. (steep).																			
				Structure - 42.60 – 43.47m DMAF – Tan to dream coloured Biotite –																			
				plagioclase – pyroxene phyric dike. Cut by moderate																			
				carbonate veins. Upper contact 35° to C.A. L.C. marked by																			
				sheared zone																			
				43.47 – 43.61 m gouge 40°																			
				@ 50.30 carbonate veins 35° to C.A.																			
			EOH	50.90 m																			

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 182

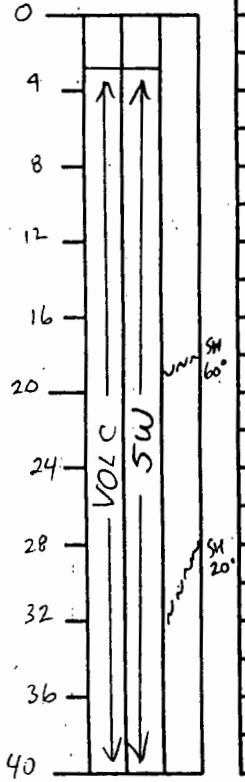
AMERICAN BULLION MINERALS LTD.

Location Sketch

Grid Northing (m):	100715 N	Date Started:	Aug 7/95
Grid Easting (m):	50500 E	Date Completed:	Aug 7/95
Elevation (m):		Logged By:	T. Fraser
Total Length (m):	78.33	Date Logged:	Aug 8/95
Casing Depth (m):	3.05 m	Data Entry:	
Reduction Depth:	—	Entry Date:	
Collar Core Size:	NQ	Casing (In/Out):	Out

Survey	Depth	Azimuth	Dip
SS	78.33	170.5°	-45.5° *
		Volcanics are moderately to strongly magnetic.	

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	0	3.05	CASN									Epidote											
	3.05	69.73	VOLC	5	W	—	—	<0.3	0.5	0	2	TR	0	0	W	0	0	0	TR	M	0	TR	W

Lithology. - Dark to medium green coloured Dynamite Hill volcanic rocks. The unit appears to be massive but at approximately 6.50 metres there are trace 3mm calcite-filled amygdules. The lithology is highly porphyritic with a dark grey to green aphanitic groundmass. There appears to be three types of phenocrysts. Dark grey to black subhedral to rounded phenos <1mm - 6mm diameter appear to be hornblende (?) and/or magnetite. Some of these phenos are variably altered to pyrite and hematite. Dark coloured phenos comprise approximately 10-15%. Augite phenos are dark olive green, euhedral to subhedral and comprise 15-20%. Augite phenos are 1mm - 1cm. Occasionally some of the phenos have a bleached appearance (pale green) and could represent local plagioclase concentrations. Near structural contacts the volcanic unit has a bleached appearance (pale green to white in colour). The volcanic unit probably has an andesitic composition.

Alteration/Mineralization - The volcanic unit is pervasively carbonate altered/or calcareous. The rock unit is cut by moderate white calcite veins. Some veins have red hematite envelopes. Trace to weak red hematite veinlets. Red/orange hematite

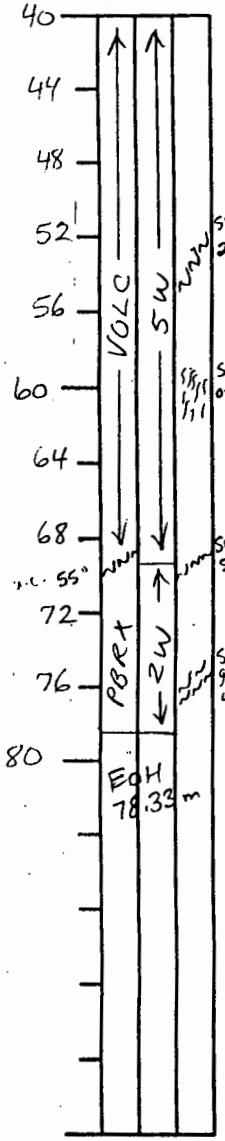
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 182
Logged By: T. Fraser
Date: Aug 8/95

Graphic Log (m)



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

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 182
Logged By: T. Fraser
Date: Aug 9/95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
			Structure			72.60 - 72.90 m					Sheared/broken													
						75.35 - 76.25					Shear/gouge			40° to c.a.										
	EOH 78.33 m																							

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

EE **DRILL HOLE NO. 95 - 183**

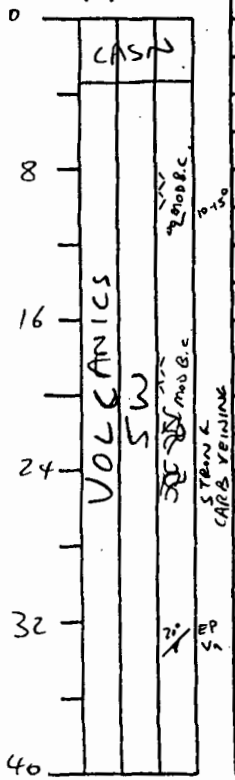
AMERICAN BULLION MINERALS LTD.

Location Sketch — 4 N

Grid Northing (m):	100 670 N	Date Started:	AUGUST 07 '95
Grid Easting (m):	50 400 E	Date Completed:	AUGUST 08 '95
Elevation (m):		Logged By:	IAN FOREMAN
Total Length (m):	91.44m	Date Logged:	AUGUST 08 '95
Casing Depth (m):	(12/1) 3.66m	Data Entry:	
Reduction Depth:	—	Entry Date:	
Collar Core Size:	NQ	Casing (In/Out):	OUT

Survey	Depth	Azimuth	Dip
S.S	91.44	175.5°	-45°

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Ep	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
	0.0	3.66	CASN																					
	3.66	91.44	VOLC	5	W			—	1.5	—	2.5	W	—	—	W	—	—	—	—	W	—	TR	W	

LITHMIN:

Medium green aphanitic matrix surrounding 30-40% plenocrysts. Porphyritic texture is well preserved throughout. 20-25% light to olive green 0.5-5mm, locally >1cm, subang to subhedral Augite phenocrysts and 10-15% dark green 0.5-4mm subrounded to euhedral hornblendes. Local where the plenocrysts are bleached white, there appears to be 3-5%, 1-3mm subang-euhedral feldspars. But these are not apparent elsewhere. 1-5% 1-4mm angular irregular brick red hematite blebs. Locally, the dark green phenos have hematite halos and/or shells.

Rare xenoliths occur throughout the unit. There are two varieties. The most common are autoliths as they have the same appearance and mineralogy as the volcanics. The largest are 3-16mm, subrounded and dark green with no apparent texture.

Local variations in this unit range from a bleaching of the phenocrysts to a weak overprinting of the porphyritic texture creating a light green massive appearance. One Angle measured at 2.5cm in

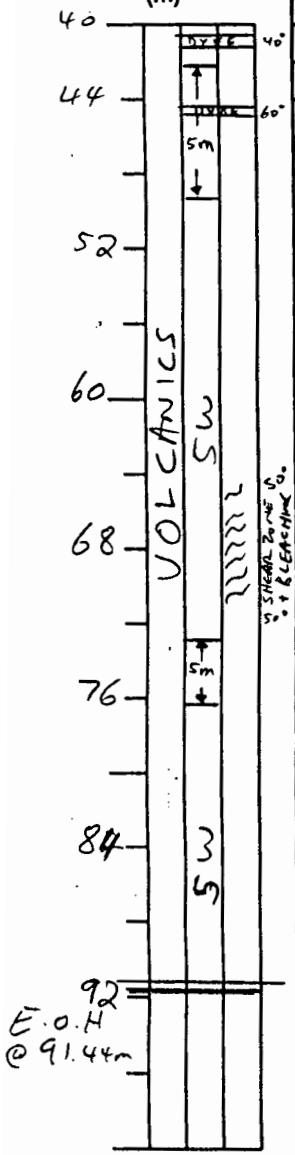
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 183
Logged By: IAN FOREMAN
Date: 08 AUG '95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	3.66	91.44	CONT'D																				

length. The unit is magnetic thlc but locally varies from strong to nil over 10cm

<1 to 2%, locally 3%, pyrite occurs throughout the unit as f.g'd dissem-inations in the groundmass. Pyrite also occurs as fracture fill and as partial replacement of the hornblendes. No CPY was noted.

L.C.

E.O.H.

ALTERATION

The unit is weakly propylitic alt'd throughout as the matrix is pervasively carbonate alt'd. The unit is also pervassively Epidote alt'd as the groundmass and pheno's, locally, are now epidote. Epidote also occurs as fracture fill and irregular blebs. Rarely Epidote occurs as veins x-cutting the unit. Stronger epidote alt'n occurs between 42.25m - 48.85m and 72.62m - 76.03m. Hematite is also potentially an alteration product of magnetite. If so, magnetite may have made up a considerable portion of the rock (up to 5%?). A portion of the dark green (hb) pheno's may be magnetite.

Between 65.59 - 71.22m the unit is bleached to a light green grey and the porphyritic texture is obliterated. A weak fabric and veining @ 50° indicate that this is a result of shearing.

STRUCTURE:

- weak carbonate veining throughout.
- fractures to 27.5m are limonite stained

- 8.79 - 9.58m → moderately bkn subang 1-3cm core w gouge. Bkn core ends w 1-2cm gouge in slip @ 10-15°
- 19.35 - 19.74 → mod bkn 0.5-3cm ang core w gouge and slip @ 05-10° to C.A
- 20.92 - 23.21m → Strong carbonate veining giving core a bx'd appearence.
- 23.21 - 23.45m → wkly bkn ang 2-5cm core w trace gouge.
- 23.85 - 24.90m → Strong carbonate veining giving core a bx'd appearence
- 25.0 - 26.52m → Mod to strongly bkn <0.5-3cm ang core w limonite stained gouge

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 183
Logged By: I. FREEMAN
Date: 08 Aug '95

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
	3.66	91.44	Cont'd			- 33.23m	→	3-5mm epidote					vein @ 20°											
						- 40.37 - 40.41m	→	wk shear w py and carbonate									@ 30°							
						- 40.63 - 40.79m	→	DYKE(?) w 50-60 % 10-45cm rounded fragments in a light brown aphanitic matrix. Bounded by laminations @ 40°																
						- 44.41 - 44.49m	→	Similar DYKE as between 40.63 and 40.79m. @ 60°																
						- 51.41 - 51.88m	→	Carbonate vein w qtz and rare fragments @ 20°. Bounded at the bottom by 1cm gouge @ 50°																
						- 57.23 - 57.51m	→	carbonate vein w qtz and rare fragments. Bounded by gouge @ 50°																
						- 65.51 - 71.22m	→	weak shears and bleaching @ 50°																
	91.44	91.44	E.O.H.																					

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 184

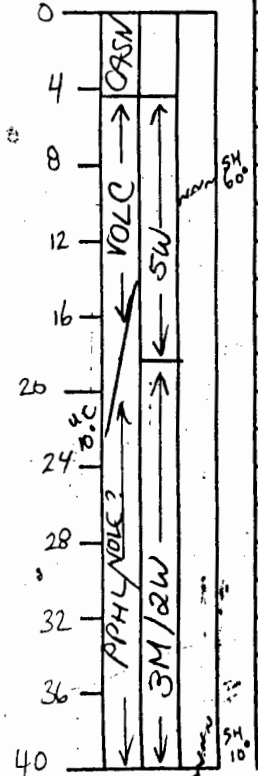
AMERICAN BULLION MINERALS LTD.

Location Sketch

Grid Northing (m):	100700N	Date Started:	Aug 8/95
Grid Easting (m):	51000E	Date Completed:	Aug 15/95
Elevation (m):		Logged By:	T. Fraser
Total Length (m):	623.93m	Date Logged:	Aug 9/95
Casing Depth (m):	4.27	Data Entry:	
Reduction Depth:	533.10 m	Entry Date:	
Collar Core Size:	HQ	Casing (In/Out):	Out.

Survey	Depth	Azimuth	Dip
SS	316.1	184.5°	-61°
SS	468.5	193.5°	-61.5°
SS	623.93	195.5°	-62°
No sperry sun was taken @ 500 ft (152.4m)			

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	0	4.27	CASN																			
	4.27	17.70	VOLC	5	W	—	—	<0.3	8	0	TR	0	0	W	0	0	0	TR	W	0	TR	W

Lithology - Medium to dark green Dynamite Hill volcanic rocks. The lithology is medium grained and plagioclase phenos are pale green approx 35% euhedral to subhedral, <1 + 4 mm length. The volcanic rocks have an aphanitic groundmass grey to greenish in colour. The unit is almost bimodal, with augite/hornblende intrapheno - dark green/black subrounded to rounded mafic phenos ≈ 1mm width. Volcanics are similar to those noted in DDH # 95-184. The unit is massive. Mafic phenos comprise 5-10%

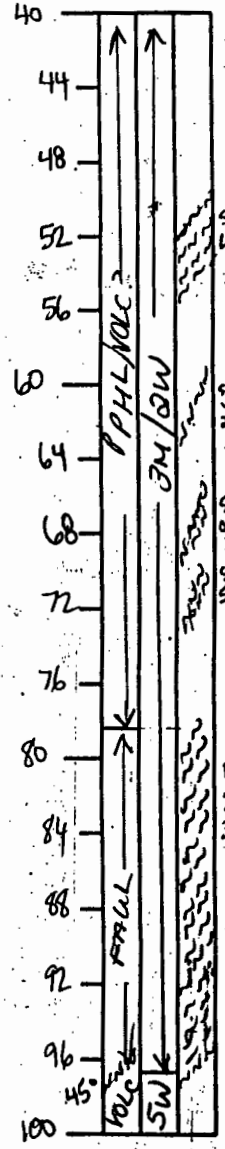
Alteration/Mineralization - The unit appears to be weakly propylitic altered. The rock is pervasively carbonatized (weakly to moderately faintly altered). Plagioclase phenos appear to be sericite/carbonate altered. Hornblende/augite phenos are fresh. The groundmass may have weak chloritic alteration. Pyrite is finely disseminated and blebby throughout. Pyrite blebs range up to 3mm. Carbonate veining varies from trace to moderate. Trace epidote altered mafics. Trace disseminated galena. Trace hematite veinlets

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 184
Logged By: T. Fraser
Date: Aug 9/95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
			Structure –			4.73 + 4.91 gouge																
						7.90 Shear 30°																
						9.38 + 9.47m Shear with carbonate veins 50-70°																
						@ 17.70m U.C. PPHL 10° to C.A.																
	17.70	78.33	PPHL/VOLC?	3	M	2	W	<0.3	8	0	TR	0	0	W	0	0	TR	W	W	0	TR	M

Lithology – Buff to tan coloured Plagioclase hornblende porphyry Late Phase. Locally the unit is textureless, obliterated due to alteration. The groundmass is aphanitic to fine grained, tan coloured and carbonate altered. Locally the unit is quite porphyritic with 25-35% plagioclase phenos 1-2 mm. Plagioclase phenos are subhedral and white to pale green. The lithology is homogeneous and massive. Hornblende phenos are rare – probably destroyed by alteration. The unit does not resemble the typical PPHL which is pale grey and bleached. The rock was called PPHL because it had TR qtz veins and no copper (no disseminated or vein chalcopyrite was noted). The unit looks like moderately to highly altered Late Phase. The upper contact of PPHL with VOLC is intrusive (sharp?). This unit could be buff coloured volcanic rock (tuff?)

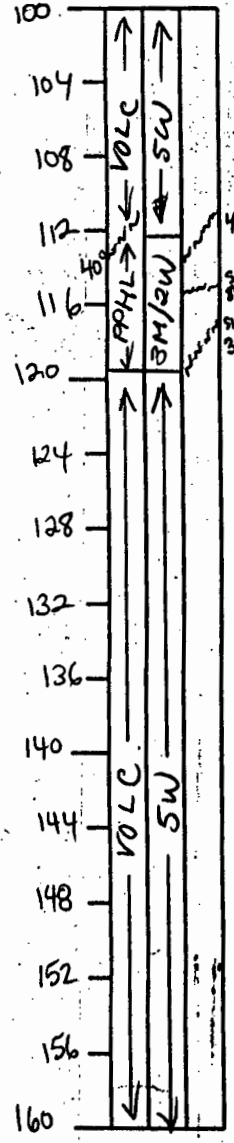
Alteration/Mineralization – The groundmass is pervasively carbonate altered (carbonatized) and appears tan/buff coloured. Plagioclase phenos are weakly sericite-carbonate altered. The unit contains an average of 8% blebby to finely disseminated pyrite. Locally where primary texture is destroyed there is approximately 15% blebby pyrite (up to 5 mm diameter). Weak to moderate carbonate veins throughout. The alteration of the Late Phase appears mottled due to blebby pyrite. Locally there is chamatite staining. Weak pyrite veins and trace carbonate-chamatite veins.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 184
Logged By: T. Fraser
Date: Aug 9/95



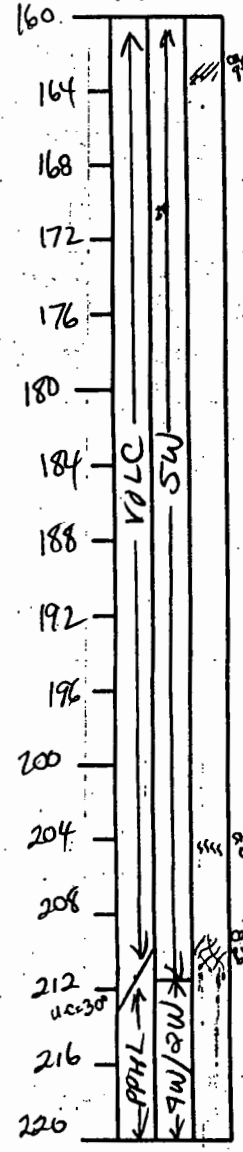
PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
			Structure -			26.40 m	qtz vein/gouge	28° to C.A.														
						26.60 m	Shear 30° to C.A.															
						29.95 m	shear 25-30° to C.A.															
						31.28 m	shear 15° to C.A.															
						35.40	Shear with pyrite-carb-Hm veining 10° to C.A.															
						40.05-40.25 m	shear 10° to C.A.															
						42.00-42.40 m	PRL															
						44.10-44.30 m	carb veins 15° to C.A.															
						45.55 m	carb-pyrite veins 20° to C.A.															
						51.00-53.95 m	broken gouge and shears 10cm apart 40°															
						54.75-55.12 m	Shear with minor gouge 30° to C.A.															
						61.10-62.10 m	sheared with carb-pyrite veins 20° to C.A.															
						63.55-65.70 m	sheared with gouge															
						67.00-68.15 m	Shear with gouge 0-30°															
						71.00-72.05 m	Shear with gouge 5-20° to C.A.															
						76.37-76.53 m	gouge.															
	78.33	96.65	FAUL	3	M	2	W	<0.3	8	0	0	0	0	W	0	0	TR	W	M	gypsum TR	0	S
			Lithology - Buff to tan coloured rock unit as in interval 17.70-78.33 m. the unit appears to be brecciated and highly sheared. Fragments vary from 0.5cm to 10cm. Clasts are subrounded to subangular. Clasts are surrounded by a thin layer of pyrite and the matrix consists of white carbonate and grey quartz. Locally the matrix contains small blebs of gypsum.																			
			Alteration/Mineralization - Same as interval 17.70-78.33 m. The groundmass is pervasively carbonatized. Plagioclase phenos are weakly sericitized. The majority of pyrite is found within the matrix probably up to 15% locally. Pyrite also forms weak to locally moderate pyrite veins. Pyrite blebs are up to																			

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 184
Logged By: T. Fraser
Date: Aug 10/95



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

5mm diameter. Carbonate (white calcite) forms weak to moderate veins and blebs throughout. There are trace altered gypsum veins (white, soft and greasy feel - almost feels like talc).

Structure - 81.77 m Shear 10° to C.A.
83.26 m Shear 50° to C.A.
87-90 m brecciated / sheared 10° to C.A.
95.85 Shear 35°
95.30 Shear 30°

@ 96.65 m U.C. VOLC → sheared 45° to C.A.

	96.65	112.03	VOLC	5	W	-	-	<0.3	4	0	TR	0	0	W	0	0	TR	TR	M	0	0	W

Lithology - same as interval 4.27 - 17.70 m - medium to dark green volcanic rock which is fine grained to weakly porphyritic. The interval contains less mafics (probably average of 4-5%) and are augite/hornblende. The unit is a massive flow - no evidence of fragments. The groundmass is dark grey-green

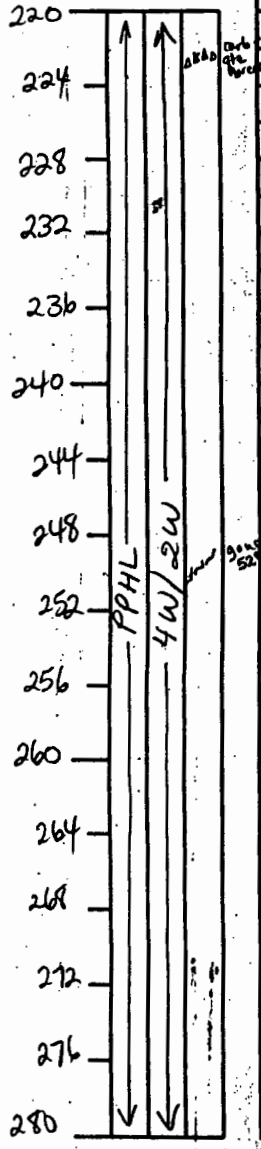
Alteration/Mineralization - Finely disseminated pyrite is throughout the groundmass. Trace hematite is disseminated - red/brown. Trace to locally weak pyrite veins cut the unit. White carbonate veins cut the volcanics with moderate intensity and some carbonate veins contain disseminated pyrite (± quartz?). Trace carbonate-pyrite - chlorite veins. The volcanic rock is pervasively carbonatized (groundmass alteration). Plagioclase phenos are locally to moderately sericitized and there appears to be fine grained chlorite alteration of mafics / groundmass (?)

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 184
Logged By: I. Fraser
Date: Aug 10/95



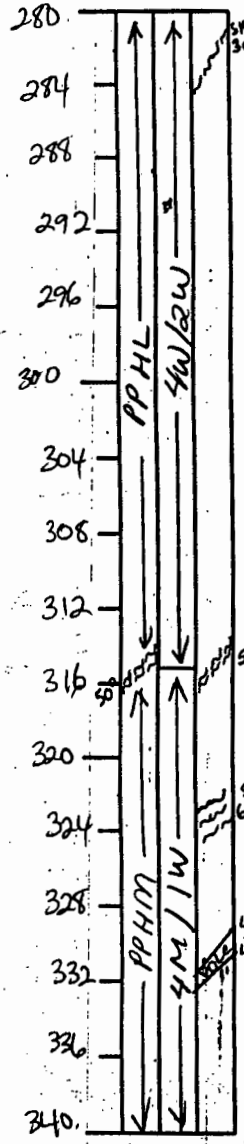
PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.	
				Structure – 101.60 – 101.95 m carb – qtz – pyrite veins 25°																			
				107.00 – 107.11 m carbonate veins 75° to C.A.																			
				@ 112.03 m Sheared Upper Contact PPHL (?) 40° to C.A.																			
	112.03	119.47	PPHL/Dike?	3	H	2	W	<0.3	6	0	0	0	0	W	0	0	TR	W	W	0	0	W	
			Lithology – Same as interval 17.70 – 78.33 m																				
			Alteration/Mineralization – Same as interval 17.70 – 78.33 m. Pyrite forms weak stringers / veinlets. Pyrite is also blebby and disseminated. The groundmass is pervasively carbonate altered (carbonatized). From 112 – 115 m the interval is sheared and contains carbonate – quartz – pyrite. Plagioclase phenocrysts are weakly sericitized. Carbonate veins vary from weak to locally strong at 50 – 60° to C.A.																
			Structure – 114.91 – 115.0 m Shear 85° to C.A.																				
			118.35 – 118.53 Shear with gouge 33° to C.A.																				
			@ 119.47 m the upper contact of VOLC is broken.																				
	119.47	211.35	VOLC	5	W	–	–	<0.3	8	0	TR	0	0	W	0	0	TR	W	W	0	0	W	
			Lithology – The upper section of volcanic rock is similar to interval 4.27 – 17.70 m with dark to medium green plagioclase – augite / hornblende phyric rock. The unit grades downward into a brownish green colour but appears to have the same mineralogy. The reddish / brown colour is probably due to hematite staining since it looks interstitial. The plagioclase phenos are more prominant than the mafics and comprise 30 – 35% of the volume with an average																

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 184
Logged By: T. Fraser
Date: Aug 10/95



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

grain size of 1mm. Plagioclase phenos are white to transparent. Mafic phenos are rare, but are also approximately 1 mm in length. The unit is locally fragmental in nature and appears to have incorporated small (<5cm) clasts of granitic composition (or volcanic) and these form altered fragments within a more massive unit. For the most part the rock is relatively homogeneous and fine grained.

Alteration/Mineralization – The volcanic unit is pervasively carbonate altered (fizzes with HCl). The rock is variably hematite stained (or weak red/brownish Kspar altered). Most of the colouring is staining of plagioclase feldspars. Locally the unit contains up to 1% disseminated epidote. Blebby pyrite and disseminated pyrite are abundant. Some pyrite blebs are up to 1 cm. Plagioclase phenos are weakly sericitized. Locally quartz-pyrite and carbonate material are present. Weak to moderate pyrite veins cut the volcanics. Weak to moderate carbonate veins are also present.

Structure – 152.05 gouge/mud seam 50° to CA.
162.58 – 163.50 carbonate-qtz veins/breccia 20° to CA
175.77 Shear 30° to CA
182.7 – 182.80 m Shear with carbonate 60° to CA.
204.68 – 205.20 m carbonate-pyrite shear 0° to CA.
209.70 – 211.35 m carbonate-quartz (±pyrite) veined/Brecciated.
@ 211.35 m Upper contact PP HL @ 30° to CA.

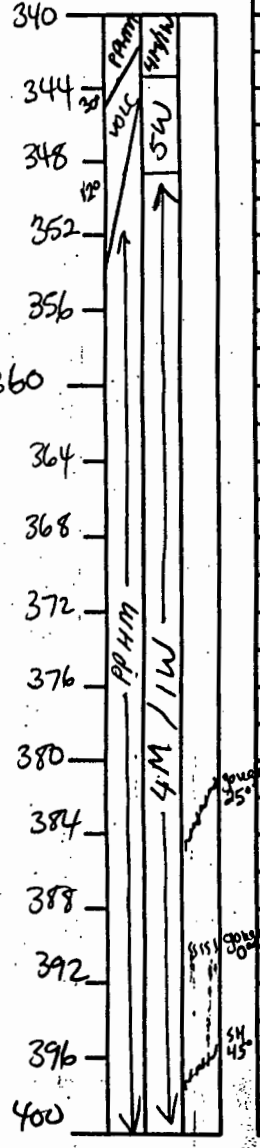
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 184
Logged By: T. Fraser
Date: Aug 11/95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	216.35	315.03	PPHL	4	W	2	W	<0.3	5	0	0	0	0	W	W	TR	TR	W	M	0	0	W

Lithology - Pale grey typical Late Phase plagioclase hornblende porphyry. The unit is medium grained with prominant plagioclase phenocrysts. Plagioclase phenos are approximately 1-4mm and are subhedral to rounded. The colour of plagioclase phenos varies from pale green to white. Plagioclase comprised 35-40%. In places the phenos have indistinct boundaries. Hornblende phenos are much less prominant and may only represent 5-8% of 1-2 mm sub to euhedral phenos. (beige). The groundmass is fine grained and appears carbonate altered (tan-coloured)

Alteration/Mineralization - Disseminated and blebby pyrite > veinlet pyrite. Pyrite veinlets vary from weak to locally moderate in intensity. Carbonate veins are prominant across the entire unit and are moderate to locally weak. Trace quartz-pyrite veins. It is common for the pyrite veins to have grey quartz-sericite envelopes. Trace disseminated brown/orange sphalerite. Locally trace black tourmaline is disseminated and in veinlets. Plagioclase phenos are weakly silicified to weakly kaolinized. Hornblende phenos (remnant) are sericite-carbonate altered. The groundmass is carbonate altered (pervasively). Trace chalcopyrite is finely disseminated locally and in rare quartz+carbonate+pyrite-chalcopyrite veins.

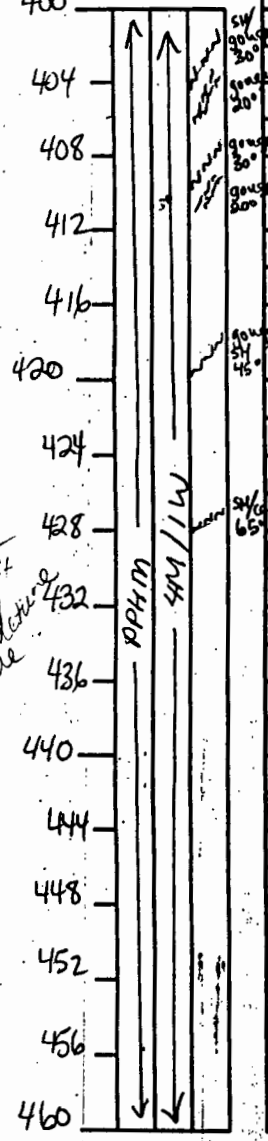
Structure - 215.90 - 216.25m carb-pyrite-qtz veins 5-10° to C.A.
219.15m carbonate/shear 40° to C.A.
222.0 - 222.40m carb (± qtz ±) breccia
225.10 gouge/shear 40° to C.A.
234.00 m shear 50° to C.A.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 184
Logged By: T. Fraser
Date: Aug 11/95



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

239.88 Shear 50°
246.05 m Shear 43° to C.A.
249.50 - 249.55 m gouge 52° to C.A.
263.35 - 263.55 Shear/healed
266.20 - 266.32 qtz-carbonate breccia
274.44 Shear/gouge 22° to C.A.
276.35 Shear 15° to C.A.
282.30 - 282.46 Shear/healed gouge 30° to C.A.
283.00 Shear 35° to C.A.
290.30 Shear 22° to C.A.
294.00 - 294.74 m Shear/healed Shear
300.00 m Shear 35° to C.A.
301.25 - 301.50 Shear - healed.
304.20 m 2 cm gouge seam 40°
307.57 m Shear 25° to C.A.
312.27 Shear 45° to C.A.
312.52 Shear 60° to C.A.

@ 315.03 - 315.55 Shear zone @ 50° to C.A. marks the upper contact of the Main Phase unit (PPHM)

	315.03	343.47	PPHM	4	M	J	W	0.6	4	0	5		0	W	S	0	0	W_5	TR	W	0	M	M

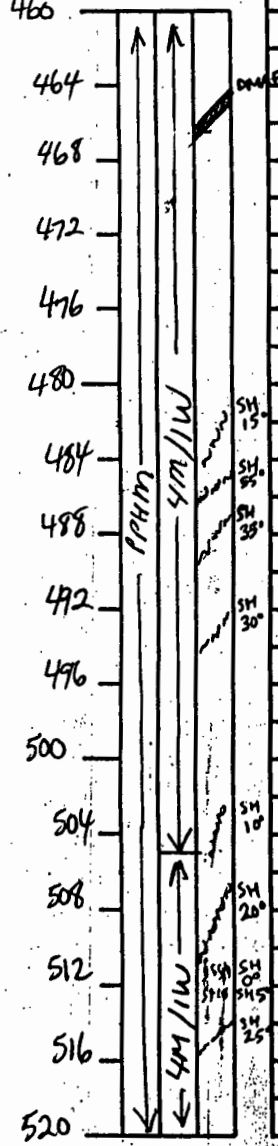
Lithology - This unit is not the typical Main Phase plagioclase hornblende porphyry. The unit is medium to dark green with a high mafic content. The lithology is medium grained with approximately 35% 1-2 mm subhedral to rounded plagioclase phenos. Plagioclase phenos are green coloured. Hornblende phenos are black to dark green and also average 1-3 mm (subhedral). The groundmass is fine grained and locally has a pink colour (very subtle since overall, the rock appears to be green)

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 184
Logged By: T. Fraser
Date: Aug 11/95



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

Based on the colour, the unit could be mistaken for a volcanic rock.

Alteration/Mineralization - Plagioclase phenos are some of the groundmass are strongly sericitized. Mafic phenos appear to be chloritized. The groundmass is locally moderately Kspar altered (Stains strongly). The amount of Kspar alteration is deceiving since it is hidden by the green colour of the rock. Chalcopyrite is finely disseminated and within quartz - hematite - chalcopyrite veins (rare). Disseminated chalcopyrite > pinkish CPY. Pyrite is disseminated. Red/brown hematite is disseminated throughout (locally 8-10%) and as moderate veinlets. Weak carbonate and trace pyrite veins cut the unit. Pyrite veins have quartz - sericite envelopes. Trace carbonate - quartz - pyrite - calcite veins.

Structure - 322.85 - 324.72 Shear 60° to C.A.
325.12 - 325.73 Shear/gouge
330.85 - 331.70 VOLC. U.C. 40°, L.C. 47°. Contacts are sheared. The volcanic sliver is cut by calcite veins and is med/dark green, fine grained with no mineralization.

@ 343.47m Upper Contact of volcanic sliver/wedge @ 30° to C.A.

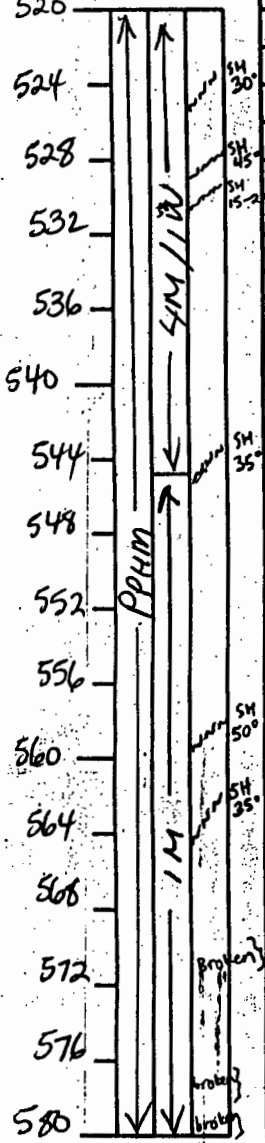
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 184
Logged By: T. Fraser
Date: Aug 11/95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	343.47	348.65	VOLC	5	W	—	—	0.3	0.5	0	0	0	0	W	0	0	0	0	M	0	0	W

Lithology - Same as interval 4.27 - 17.70 m but is finer grained

Alteration/Mineralization - Same as interval 4.27 - 17.70 m but pyrite is very finely disseminated throughout. Plagioclase is highly sericitized. The unit is cut by moderate carbonate veins. No epidote is present in this interval (or hematite)

Structure - 348.65 m Lower contact of volcanic unit is 12° to CA. and is marked by a 2 cm quartz - pyrite - chalcopyrite - hematite vein.

	348.65	505	PPHM	4	M	1	W	0.7	2	0	5	W	W	M	0	0	Ms	0	M	0	M	M

Lithology - Main Phase plagioclase hornblende porphyry. The unit varies from medium brown (biotite altered) to pale green (Sericitized) to slight pink/orange (Kspar altered). Plagioclase phenos are prominant, approximately 35-40% subhedral 1-4mm. Hornblende phenos comprise 8-10% beige subhedral to subhedral phenos that are locally obscured due to alteration. Hornblende phenos are approximately 1mm in length. The groundmass is fine grained to aphanitic and is pale green to brownish orange. Primary texture is quite preserved. Plagioclase phenos are visibly zoned and pale green.

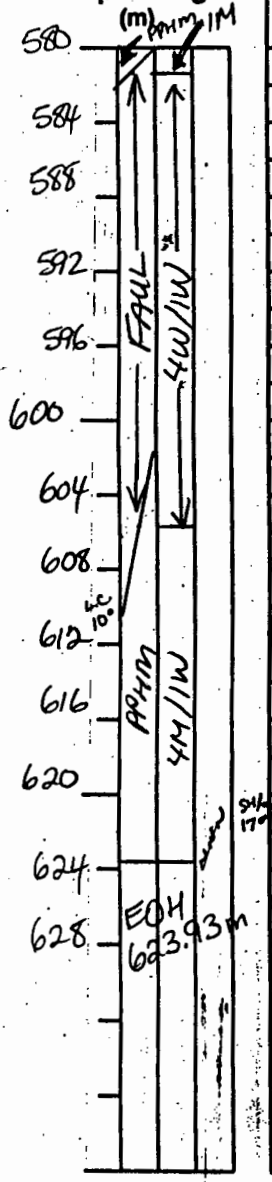
Alteration/Mineralization - Remnant hornblende phenos appear to be sericite - carbonate - pyrite ± chalcopyrite altered. Phenos are beige-coloured and have a streaky appearance. Plagioclase phenos are moderately sericitized and are usually pale green. Locally hornblende phenos are moderately biotite altered giving the unit a medium to dark brown colour. Overall the unit is weakly to moderately Kspar altered.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 184
Logged By: T. Fraser
Date: Aug 12/95



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

Potassium feldspar alteration is confined mainly to the groundmass and is intensive. The remainder of the unit is moderately sericite altered and is pale green. Disseminated red/purple hematite is throughout along with moderate veinlets. Quartz stockwork varies from weak to moderate and the stringers contain disseminated red/purple hematite, chalcopyrite and trace pyrite. In some places hematite concentration is up to 10% (vein + disseminated). Moderate to weak white carbonate veins cut the lithology. Chalcopyrite is finely disseminated throughout.

Structure –
351.44 – 351.75 gouge/shear
383.09 – 383.20 m gouge 25° to C.A.
390.25 – 390.63 m broken/minor gouge 0° to C.A.
393.40 – 393.80 m broken/minor gouge
394.65 – 394.85 shear
396.47 – 396.80 m broken/shear 45°
402.82 – 403.00 m shear/gouge 30°
404.85 – 406.00 broken with gouge 20°
408.30 – 408.50 gouge 30° to C.A.
409.65 – 409.92 gouge
410.57 – 410.89 m gouge and broken rock 20° to C.A.
418.60 – 418.70 m gouge/shear 45° to C.A.
427.72 – 427.85 shear/carbonate vein 65° to C.A.
435.20 – 435.70 PBLem
437.95 – 2 cm gouge seam 85° to C.A.
439.30 – 439.55 gouge
439.55 – 440.30 carbonate veining – strong 60° to C.A.
462.38 – 462.55 carbonate breccia

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 184
Logged By: T. Fraser
Date: Aug 14/95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alt. Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				465.43 - 466.25 m DMAF with hematite veins																		
				475.10 - 475.15 m gouge																		
				475.25 - 475.63 carbonate - pyrite - chalcopyrite veins 10° to C.A.																		
				479.72 gouge 50° to C.A.																		
				478.0 shear 55° to C.A.																		
				483.55 - 483.85 m shear 15° to C.A.																		
				485.53 - 485.63 m shear 55° to C.A.																		
				488.40 - 488.45 gouge 35°																		
				491.67 - 492.25 m sheared/gouge																		
				493.38 - 493.41 m gouge 30° to C.A.																		
				497.12 m gouge 45°																		
				497.25 - 497.51 DMAF 48° to C.A.																		
				503.80 - 504.10 m shear 10° to C.A.																		
	505	544.70	PPHM	4	M	1	W	1.0	0.5	TR	2	W	W	M	O	O	Ms	O	W	O	TR	W
	Lithology - same as interval 348.65 - 505.0 m but hornblende phenos comprise 10-15% of mafics and are considerably larger - they are subedral and 2-4mm in length. The unit is highly plag-hornblende porphyritic and primary texture is obscured.																					
	Alteration/Mineralization - same as interval 348.65 - 505 m. Quartz stockwork containing disseminated red/purple hematite, chalcopyrite and trace amounts of very fine grained bornite. Locally Bornite is disseminated and seems to be associated with chalcopyrite blebs. Hematite colour resembled bornite.																					
	Structure - 508.60 - 508.80 m Shear @ 20°																					
	509.50 - 509.62 m broken with gouge.																					

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 184
Logged By: I. Fraser
Date: Aug 15/95

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alt. Int.	Alt. Typ	Alt. Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				511.0 - 511.05 Shear 15-20°																		
				511.15 - 511.50 Shear 0°																		
				512.20 - 512.70 m Shear 5° to C.A.																		
				514.85 - 515.00 Shear 25° to C.A.																		
				516.22 - 516.28 Shear/gouge																		
				518.35 Shear 25° to C.A.																		
				521.20 m 1cm gouge seam 35°																		
				524.25 - 524.40 Shear/gouge 30°																		
				525.20 - 525.39 Shear																		
				528.50 - 528.60 m shear 45°																		
				530.16 - 530.23 Shear 15-25°																		
				533.85 m Shear 35° to C.A																		
				539.30 Shear 25° to CA																		
				544.22 - 544.31 Shear 35°																		
	544.70	581.0	PPHM	1	M	-	-	0.7	TR	TR	4	W	W	M	O	O	Ws	O	W	O	TR	M

Lithology - same as interval 348.65 - 505.0 m but the unit is pale orange to brick red/orange in colour. The hornblende phenos are approximately 3-4mm in length (larger than in the other interval).

Alteration/Mineralization - The lithology is moderately Kspar altered with interstitial orange pink fine Kspar. Plagioclase phenos are moderately to weakly sericitized and hornblende phenos (brown) have a shreddy appearance due to biotite-carbonate-sericite alteration. The unit contains 4-10% disseminated hematite. Weak quartz stringers contain fine grained disseminated hematite, chalcopyrite and trace bornite. Bornite is also found as finely disseminated metallic material. Potassium feldspar alteration is interstitial (groundmass alteration). Disseminated purple/black hematite throughout (up to 5-10% locally). Trace disseminated pyrite is rare. Weak

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 184
Logged By: I. Fraser
Date: Aug 15/95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				carbonate veins. Chalcopyrite is also finely disseminated. Quartz stringers contain chalcopyrite - bornite - hematite ± carbonate.																			
				Structure - 559.52 - 559.67 Shear 50° to C.A.																			
				563.20 - 563.50 Shear / gouge 35° to C.A.																			
				569.35 m Shear / gouge 20°																			
				570.75 - 572.43 Gouge / broken rock																			
				577.80 - 578.21 Gouge / shear																			
				578.40 - 578.60 qtz - carbonate vein with chalcopyrite 32° to C.A.																			
	581.0	605.70	FAUL	4	W	1	W	0.6	0.5	TR	2		0	W	W	W	0	Ws	0	M	0	0	5
				Lithology - same as interval 544.70 - 581.00 m but the unit is patchy orange and pale green in colour. Also see description of 348.68 - 505.0 m																			
				Alteration/Mineralization - similar to interval 544.70 - 581.0 m but there is on average of 2-3% disseminated fine grained to blebby purple/black hematite. The unit is moderately to weakly sericite altered (plagioclase phenos) and has patchy Kspar alteration of the groundmass. Mafic phenos are carbonate + sericite - hematite altered and appear beige in colour. Moderate to locally strong carbonate veins cut the fault. Bornite is finely disseminated and there are fine discontinuous bornite veinlets. Weak qtz stringers contain carbonate - chalcopyrite - bornite. Weak clay alteration.																			
				Structure - The interval is approximately 50% healed gouge and gouge while the remainder is competent rock which is broken. Gouged intervals have shears subparallel to the core axis or at a weak angle to C.A.																			

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 184
Logged By: T. Fraser
Date: Aug 15/95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	605.70	623.93	PPHM	4	M	1	W	0.6	TR	TR	2	0	W	M	0	0	WS	0	M	0	0	W

Lithology - Same as 505 - 544.70 m and see also interval 348.65 - 505.0 m

Alteration Mineralization - Plagioclase phenos are moderately sericitized. The unit has patchy Kspar alteration of the groundmass. Hornblende phenos are carbonate + sericite altered (appear shreddy). The unit contains numerous fine, discontinuous bornite veinlets and disseminated bornite. There is approximately 2% disseminated fine grained purple/blackish hematite which is easily confused with bornite. Trace disseminated chalcopyrite. Quartz stringers contain disseminated chalcopyrite-bornite. Moderate carbonate veins.

Structure - Lower Contact of FAULT is 605.70 m @ 10° to C.A.
612.55 - 612.82 m Shear/gouge
622.63 - 622.94 m Shear/gouge 17° to C.A.

EOH 623.93 m

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

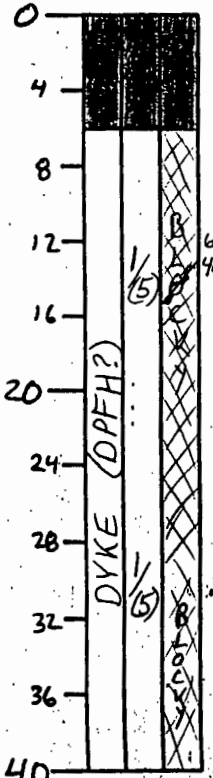
DRILL HOLE NO. 95 - 185

Location Sketch

Grid Northing (m):	99500	Date Started:	Aug 9/95
Grid Easting (m):	49400	Date Completed:	Aug 13/95
Elevation (m):		Logged By:	B. Thurston
Total Length (m):	358.75m	Date Logged:	Aug 10/95
Casing Depth (m):	6.10	Data Entry:	
Reduction Depth:	—	Entry Date:	
Collar Core Size:	NQ	Casing (In/Out):	Out.

Survey	Depth	Azimuth	Dip
1	152.3	176.5°	-48°
2	358.75	181.5°	-49.5°

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alt. Int.	Alt. Typ	Alt. Int.	Mineralization Cp	Py	Bn	Hm	MAG	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
D	0.00	6.10	CASN																				
P	6.10	44.00	DYKE	1	S	5	T	<.3	<1	o	<1	T	o	S	W	W	o	o	o	T	o	o	S

Lithology: This rock type was found as subcrop @ the head of the switchback on the road on L 49400E. It was observed in hole min: Alt'n: It looks very much like DPFH. Matics are hornblende possibly partially chloritized with a possible weak trachitic texture in the euhedral crystals ~ 3mm long ± 6%. Plag. phene's are cream colour but soft (partially sericitized or clay altered ± calcite) subhedral to euhedral, 1mm to 5mm in dia. with good zonation of crystals. Possibly Epidote is observed to ~ 20m but mineral is more yellow than epidote. It occurs in amourphous masses w/ a core of Quartz in some cases. Carbonate is ~ 05% of rock as fracture filling but calcite is strong to Intense pervasive in groundmass and especially replacing all phenocrysts. Hem is on fracture surfaces along w/ limonite. Groundmass is almost entirely 100% K-spar. Magnetite is trace pervasive in patches. Py is disseminated increasing to 1% down section.

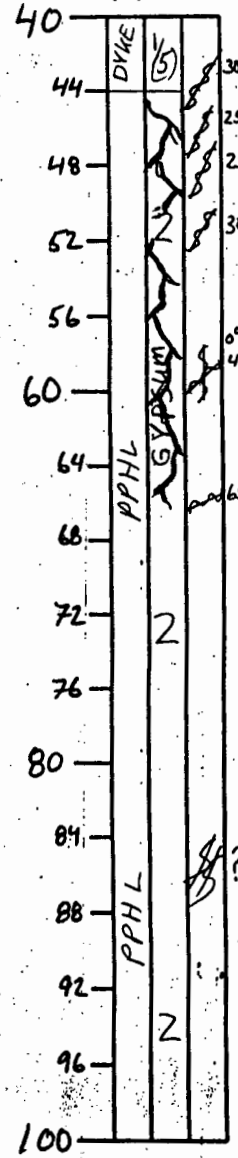
Structure: # Intensly blocky up section decreasing to weak down section
40° 60cm SHZN @ ~ 21m
L.C. is ?° possibly 30° 12cm Clay + Gouge SH.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 185
Logged By: Brian Thurston
Date: Aug 11/95



P/S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alt. Int.	Alt. Typ	Alt. Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	44.00	66.55	PPHL	2	m			<.30	3	o	o	o	o	m	w-m		o	o	T	m	o	m
S	66.55	100.60	PPHL	2	m	1	T	<.30	2.5	o	T	o	T	m	w-m		o	o	T	o	o	m

Lithology: This unit is mostly grey w dark grey-green patches. I am calling
min'z: this unit a late phase but there are sections which are similar
Alt'n: in appearance to the dyke rock up section. (ie. 51→57m, 66.50→80m.
These sections have a coarse porphyritic texture preserved in
in the plag. phenos. aswell as around 76 in the rock looks alot
like dyke rock w K-spar groundmass and chloritic mafics. and diss
Py. This entire unit is strange and PPHL may not be the
best description of the rock? Diss Py ~3%. Gypsum stkwrk
has clay alteration assoc. with its selvages. Strong sericitization
throughout. Beige colour to unit @ 85m → 100m. No calcite through
most of the unit except
units mentioned above
calcite is strong.

Structure:
* Strong SH'ing @ 25° & 30° to 51m
* 59→61m Strong SH'ing @ 45°
* L.C. of Gypsum @ 66.5m @ 65° SH.
* small breccia units throughout.
* small shears @ 18°, 25°,
* 1m SH @ 85.16m ?°
* 40cm Breccia dyke @ L.C. 25°, U.C. 45°
* L.C. w PBRL may be 15° 1cm SH & gouge?
* contacts are somewhat indistinguishable w dyke? Rock.

P	100.60	121.80	PBRL	2	m			<.30	2.5	o	o	o	o	m	w-m	o	o					

Lithology: Unit is grey w Cream to grey fragments up to 40% over all.
min'z: Light green pyrite rich fragments 1% distributed throughout.
Alt'n: Fragments are mostly round to subrounded w variably
porphyritic textures (mostly poor w sericitized phenos blending
into groundmass.) Py is diss, blebby & filling fractures & rimming
frags. Carb occurs as fracture filling & healing breccias & SH's.
calcite is very weak to trace.

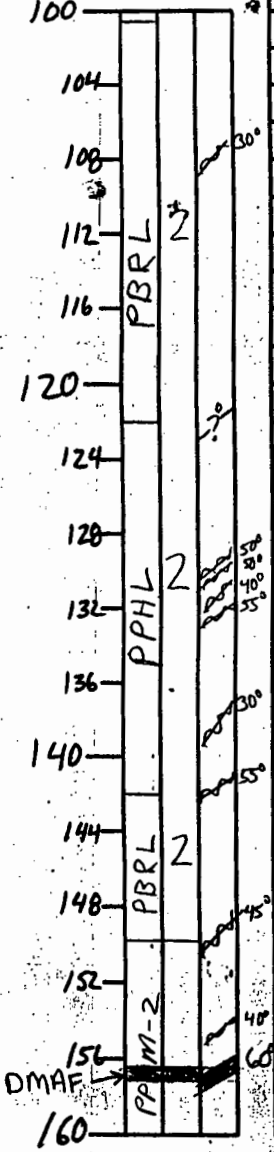
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 185
Logged By: B. Thurston
Date: Aug 11/95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	MAG	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				Structure:			*	unit is strongly brecciated w/ light green (late phase) fragments																
							*	unit is strongly sheared throughout @ 30° → 35°															
							*	L.C. is assymilated, No Angle.															
P	121.80	141.90	PPHL	2	m			<.30	3	o	o		o	o	m	w-m	o	o	o	o	o	o	W
				Lithology:			Core	is medium Grey, moderate → strongly sericitized especially															
				Alt'n:			groundmass. Porphyritic texture is completely destroyed in sections																
							&	in other sections the plag phend's are euhedral w/ zonation															
							and only partially sericitized. Hematics as well are																
							sometimes preserved looking ratty & buff → sericitized.																
				Minz:			Py is diss, fine tab blebs, and as fracture filling especially in																
							Breccia areas. Calcite is very patchy med. in area & Trace in																
							others.																
				Structure:			*	Green frag's as in breccia unit are rare but observed.															
							*	130 → 140m has increased brecciation & shearing.															
							*	SH's @ 40° → 55°.															
P	141.90	149.50	PBRL	2	m			<.30	3	o	o		o	o	m	w	o	o	o	T	o	o	T
				Lithology:			Same as 100.60 → 121.80.																
				Structure:			*	weak shearing w/ No Angles?															
							*	L.C. @ 45° 10cm SH.															
P	149.50	156.40	PPHM-2	4	m	1	w	<.10	1	o	T	o	o	o	m	w	o	o	o	W	o	o	W
P	156.40	157.40	DMAF					<.10	T	o	T	T	o	o			o	o	o	T	o	o	W
P	157.40	165.90	PPHM-2	4	m	1	w	<.10	<1	o	<1	T	o	m	m	w	o	o	o	W-m	o	o	W
P	165.90	166.50	DMAF					<.10	T	o	o	T	W	o			o	o	o	T	o	o	W
P	166.50	182.85	PPHM-2	4	m	1	w	<.10	<1	o	<1	T	o	W	m	w	o	o	o	W	o	o	W
				Lithology:			Core	is light apple green to patchy orange or dark green. Good															
				Alt'n:			porphyritic texture preserved in moderately sericitized, zone, sub-																
				Minz:	euhedral, plag phenos (2 → 4 m), and in subhedral lath-like matics 2 → 3mm																			

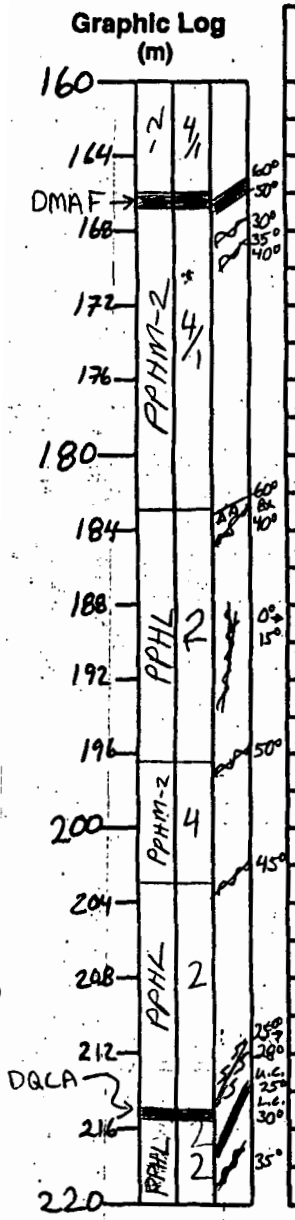
DRILL HOLE NO. 95 - 185

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 185
Logged By: B. Thurston
Date: Aug 11/95



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	182.85	196.20	PPHL	2	m			<.10	2	0	0		0	0	M	W	W	0	0	T	0	0	W

that are buff to green in colour. Mafic pheno's are promenent usually buff coloured standing out from the light green groundmass & plag pheno's. The darker green patches appear less altered, the mafics are less pronounced & less altered & magnetite & hematite are in greater abundance. No Qtz StkWRK. Carb Veining increases in sheared areas as fracture filling. Calcite is weak throughout - pervasive in groundmass, replacing Plag pheno's & rimming Mafics. Mag is in dark green sections. K-spar is very strong in orange sections of core ~90% of groundmass.

Structure: * DMAF 156.4 → 157.4 m is similar to DQCA in its Aphanitic groundmass w̄ carb/plag pheno's/Amygdauls? This dyke is magnetic & the same dark green as DMAF @ 165.9m
* DMAF 165.9 → 166.5 m is typical DMAF w̄ biotite pheno's/laths and carb. amygdauls, dark green & magnetic.
* Dykes cut @ 50° to 60°
* L.C. w̄ PPHL @ 60° & 40°
* Small shears ~35°

Lithology: Mainly unit is grey colour but sections of a pale brown occur.
Minz: Brecciation w̄ green pyritized fragments is observed @ U.C. to 186 m & then followed by strong SH'ing ± breccia parallel to C.A → 15° + Gouge. Trace porphyritic texture is observeable in blurry cream plag. pheno's in the brown core. The grey core is finer grain w̄ porphyritic texture obscured. Tourmaline is diss throughout as <1mm black specks. Very few rosetts are observed but quit sure this is To. Py is 40% as fracture filling & diss but not as veins. Trace calcite pervasive.
Alt'n:

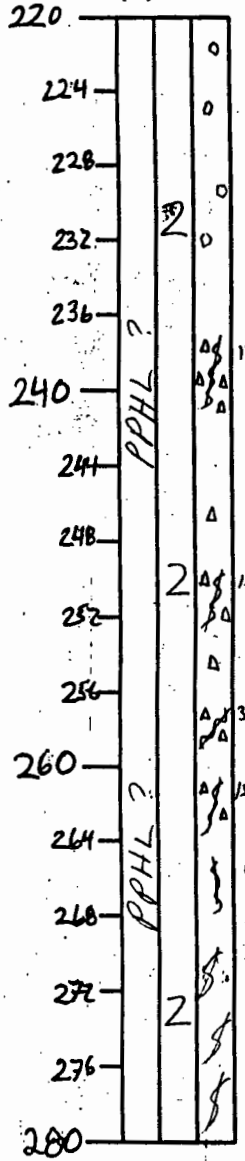
Structure: * U.C. @ 60° w̄ breccia then 40° 10 cm SH + Gouge.
* 15° → 0° SH in middle + Brecciation to 190 m From 182 m

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 185
Logged By: B. Thurston
Date: Aug 12/95



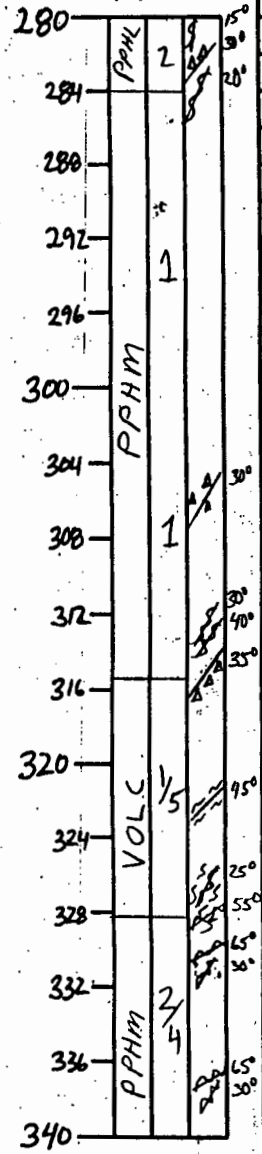
P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	mag	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				Structure:			#	L.C. w/ PPHM-2 is					40	cm	SH + gouge		@	50°						
P	196.20	202.85	PPHM-2	4	m			<.10	1.2	0	0	0	0	0	m	w	0	0	0	T	0	0	T
				Lithology:				Same rock as described above PPHL but no dark green sections or Orange sections. Light green colour to core.															
P	202.85	215.50	PPHL	2	m			<.10	1.5	0	T	0	0	0	m	w	w	0	0	W	0	0	T-W
P	215.50	215.80	DQCA					<.10	T														
P	215.80	284.00	PPHL	2	m			<.10	2	0	0	0	0	0	m	w	w	0	T	W	0	0	T-W
				Lithology:				Mostly a pale brown colour to core w/ light grey sections usually around shearing or breccia. Breccia sections occurs throughout some w/ sharp contacts to unbrecciated rocks & others as few fragments in an otherwise unbrecciated looking rock w/ no contacts. Porphyritic texture is very weak, observable mainly is anhedral biotite plag phenos that are cream colour and blending into ground mass. Mafics are quite rotty when observed looking like a pinky-buff diss. (clay + carb. alt'd?). Calcite is trace to very weak usually rimming py along fractures and replacing the odd plag pheno?. Carb. veining increases in areas of brecciation as very irregular discontinous veins or fracture filling w/ just a hint of pink in some veins. Tourmaline is diss as black specks <1% throughout. Breccia areas contain light green pyritized fragments characteristic to Late Phase. The odd Cpy diss. is observed, mostly down section.										
				Mineralization:			#	Breccia sections.															
							#	U.C. w/ PPHM-2 is 45° 5cm Shear.															
							#	212.90 → 213.50m SH + Gouge @ 25° & 78°															
							#	215.50 → 215.80m DQCA U.C. 25°, L.C. 30°															
							#	Breccia Dyke 229.60 → 230m U.C. 25°, L.C. 30°															
							#	1.2m Breccia w/ green Frags @ ~ 240m										@	12°	+ gouge			

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 185
Logged By: B. Thurston
Date: Aug 13/95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Mag	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				Structure:		*	261.21 → 262.50m Highly Brecciated.																
						*	272.50 → 284m Carb. Healed fractures, breccia & Shearing.																
						*	L.C. @ 30°, 20° & N to C.A.																
				Note ****	This section was described as light orang/brown or bleached brown in colour. The unit was stained for K-spar but only showed strong Sericite or (remnant K-spar). The next unit looks very similar but is Orange & browner and strongly potassic. K-spar pervasive in groundmass. ie This unit called PPHL may be bleached main phase w no qtz Stockwork or Cbx. What ever the case it is unusual.																
P	284.00	315.50	PPHM?	1	M			<.10	1.5	o	T	*	T	M	M	W	T	o	T	T	o	o	W
				Lithology:				Dark to medium Brown/Orange colour to core. Good porphyritic texture in plag phenos, sub → euhedral, Zoned to blurry, usually																
				Alt'n:																			
				Min'z:				med green (Sericitized). Mafics are ratty & chloritized. Groundmass																
								is 50% K-spar & 50% ser - Ank ± Kao. Trace Qtz - Carb - Py vein ± Mdy.																
								Carb. Stock-work is Very Weak to Trace usually < 3mm wide.																
								He is diss as is To. To is usually along fracts or w Py. Py																
								occurs as diss blebs up to 2mm usually 1mm and along fractures.																
								Mod. Calcite in groundmass, pervasive. Trace Mag.																
				Structure:		*		Solid core w rare breccia units																
						*		L.C. 35° Breccia contact assym.																
P	315.50	328.27	Volc	1	W	5	?	<.10	1.5	o	<1	T	o	W	W	W		T	T	M-S	o	T	W
				Lithology:				Dark green core cut by Qtz + Carb ± Py Veins, Carb. fracture																
				Min'z:				filling & Py ± He ± Qtz Veins/fracture fillings. Plag pheno's are																
				Alt'n:				Subhedral up to 3mm weakly sericitize @ 10 → 15%. Mafics are																
								fresh or chloritized and blend into ground mass of the same. He																
								is diss in patches (bright Red) in the groundmass & in Py Veins/																

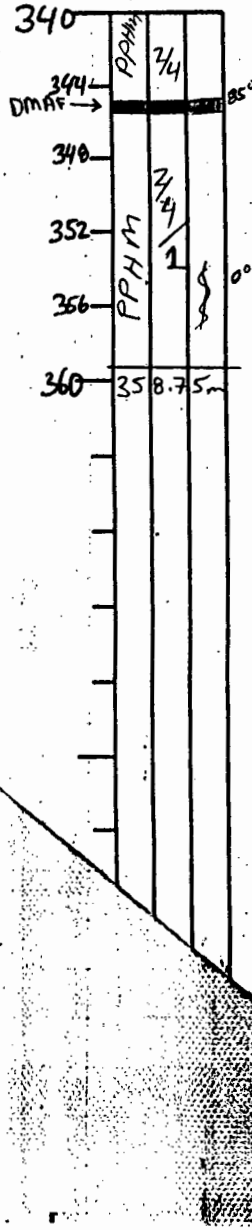
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 185
Logged By: B. Thurston
Date: Aug 13/95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
							fractures. Mag is weak up section. Carb. fracture filling is																		
							very strong & pink from 320 → 320.5 m and 321.5 → 322 m parallel																		
							to C.A. Shearing & clay alteration/gouge increases @ 323.5m																		
							on. Py is diss. & vein/fracture Py. Calcite is strong up section																		
							decreasing around 320m when core becomes lighter in colour &																		
							more sheared.																		
				Structure: #			L.C. 1m gouge @ 25° & 55°.																		
P	328.37	345.05	PPHM	2	W	4	W	<1.0	2.5	0	0		0	W	M	W	T	T	0	T	0	0	W	
P	345.05	346.40	DMAF					<1.0		0	0									T			T	
P	346.40	358.75	PPHM	2	W	4	W		2.5	0	0		0	W	M	W	T	T	0	T	0	0	W	
				Lithology:			Grd to Pale orange brown colour. Porphyritic texture in sericitized																		
				min:			plag. phenos. Mafics Rusty buff colour. Groundmass patchy																		
				Alt'n:			K-spar pervasive. Qtz veins have carb ± Py ± Moly & fuzzy grain																		
							boundarys. Py diss & less in fractures. Cpy diss & ☒ Py diss. Moly																		
							also in carb. veins. Carb. fracture filling <1%. Calcite is very																		
							weak in Carb. veins. Nc in groundmass. No Hc, Mag.																		
				Structure: #			DMAF @ 345.05 → 346.40 m ☒ U.C. & L.C. ~ 85° Assym																		
							Not sheared.																		
						#	Shears are @ 30 → 35° & 60 → 65°.																		
						#	Carb. Healed fractures increase down section to the																		
							last few meters which look like PPHL.																		

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 186

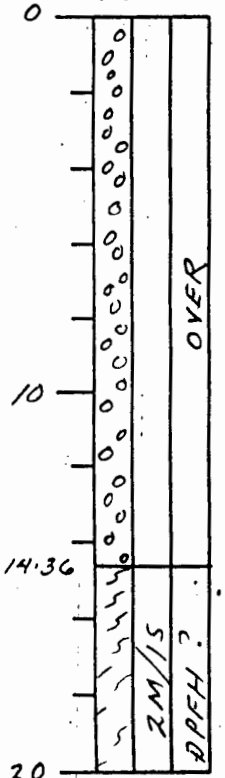
AMERICAN BULLION MINERALS LTD.

Location Sketch

Grid Northing (m):	99 500	Date Started:	AUGUST 13/95
Grid Easting (m):	49 400	Date Completed:	AUGUST 17/95
Elevation (m):		Logged By:	J. DEIGHTON
Total Length (m):	349.61	Date Logged:	AUG 14 - AUG 17/95
Casing Depth (m):		Data Entry:	
Reduction Depth:		Entry Date:	
Collar Core Size:	NQ	Casing (In/Out):	OUT EXCEPT 60'

Survey	Depth	Azimuth	Dip
0	0	000	-45
1	152.4	005.5	-47
2	349.61	010.5	-48

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	0	14.32	OVER.																				
				OVER BURDEN																			
	14.32	35.66	DPFH?	2	M	1	S		2					S	M	M				W			S
			LIKE																				

DARK GREY WITH GREENISH CAST TO COLOR ON FRESH PIECES BUT THIS SECTION MAINLY BLEACHED IN CHARACTER WERE IT BECOMES A LIGHT BUFF COLOR IN LIGHT GREYISH BACKGROUND. FELDSPARS ARE BUFF COLORED + BLEACHED & PARTIALLY STAINED?? THE PORPHYRY HAS EUHEDRAL TO SUBHEDRAL FELDSPAR PHENOCRYSTS UP TO 5mm LONG IN A DARK GREENISH APHANITIC GROUND MASS OCCASIONAL HORNBLENDE PHENOCRYSTS WITH A SQUARISH OUTLINE ALSO RECOGNIZED IN THE MATRIX FELDSPARS > HORNBLENDES OR AUGITES? PHENOCRYSTS MAKE UP ~ 40-50% OF ROCK. ROCK EXTREMELY WELL FRACTURED WITH RUSTY FRACTURES THROUGHOUT ROCK CONTAINS APPROXIMATELY 2% DISSEMINATED PYRITE. THE CORE IS COMPLETELY SAUSSERITIZED WITH FELDSPARS TO CLAY & SERICITE BUT WEAKLY AND MATRIX ALSO TO CLAY & SERICITE MATRIX IS STRONGLY POTASSIC PROBABLY ORIGINAL TO CORE

THIS ROCK IS SAME AS ROCK IN TOP OF HOLE 95-185

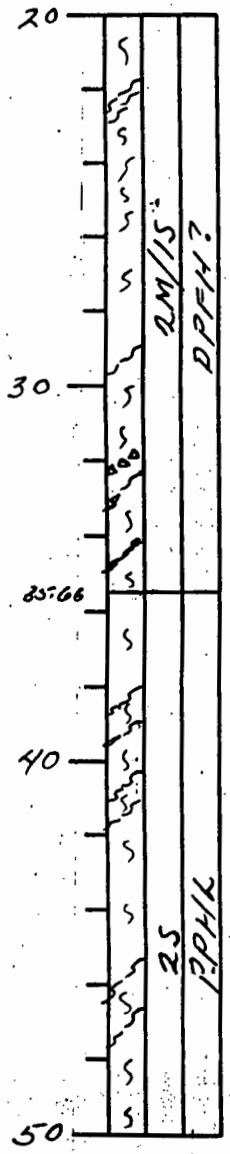
DRILL HOLE NO. 95 -

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 186
Logged By: J. DEIGHTON
Date: AUG 14/95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				14.32 - ~18 m		VERY BROKEN & RUSTY ROCK.																
				~ 20 m		10 CM OF GOUGE RECOVERED.																
				~22 - 23.9 m		BLEACHED LIGHT GREY SECTION OF RUBBLY & BROKEN SOLID ROCK. LIGHT GREY in COLOUR. THAT MAY BE LATE PHASE. HIGHLY SERICITE PYRITE & CLAY ALTERED.																
				29.55		SOME CLAY GOUGE RECOVERED																
				33 m		SECTION OF SAND VERY LITTLE RECOVERED																
				35 m		SECTION OF SAND																
				32.91 - 32.61		BRECCIA SECTION. ANGULAR FRAGMENTS 1 CM IN SIZE IN GROUNDMASS OF SAME COMPOSITION BUT DARKER. - MORE SERICITE & PYRITE. ~4%																
	35.66	65.53	PPHL	2	S				3					S	S	TR			YW			5
				LIGHT GREY HIGHLY FRACTURED LATE PHASE HORNBLENDE - FELDSPAR PORPHYRY COMPLETELY ALTERED TO CLAY & SERICITES. ROCK/PHY CONTAINS RARE - SUBHEDRAL PHENOCRYSTS ALTERED TO CLAY AND SERICITE. OF A GREYISH WHITE COLOR. BOTH HORNBLENDES & FELDSPARS in APHANITIC GROUNDMASS OF SAME ALTERATION BUT SLIGHTLY DARKER COLOR. 2-3% DISSEMINATED PYRITE THROUGHOUT. TRACES OF TOURMALINE in RADIATING CLUSTERS in CRACKS AND RANDOMLY FOLLOWING SLIGHT BRECCIA. in THE SMALL FRAGMENTS RECOVERED. SOME FINE GRAINED TO APHANITIC SECTIONS in THE SECTION. CORE IS EXTREMELY FRACTURED & MORE SECTIONS OF LOST CORE OCCUR THROUGHOUT. SOME SANDY SECTIONS OCCUR.																				

DRILL HOLE NO. 95 - [ ]

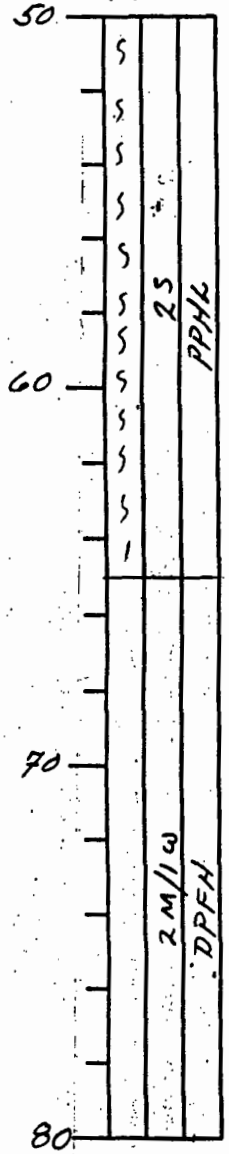
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 186
Logged By: J. DEIGHTON
Date: Aug 14/95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
		~ 38.70	GOUGE RECOVERED.																			
		~ 39.0	STRONG GOUGE RECOVERED																			
		~ 40.8	SANDY SECTION.																			
		41.4 - 43.8	- BRECCIATED SECTION. 30 cm OF VERY RUSTY HONEYCOMBED ROCK. TRACE OF PYRITE. DARK RUSTY BROWN BIOTITE STAINED.																			
		~ 46.0	- SANDY & GOUGY SECTION RECOVERED																			
		~ 47.4	SANDY SECTION RECOVERED.																			
		~ 54.0	10 cm OF GOUGE (CLAY) RECOVERED.																			
	NOTE		OVID IZED FRACTURES OCCUR TO DEPTH OF 64 m BUT HEAVY RUSTY FRACTURES OCCUR TO DEPTH OF ~ 56 m EXCEPT FOR SECTION AT ~ 47 m NOTED ABOVE.																			
		~ 64.0	TOURMALINE NOTED ON FRACTURES OF SMALL PIECES AGAINST LARGE BRECCIA (TOURMALINE) OVER VERY SHORT DISTANCE SEEMS ROUNDED FRAGMENTS IN SECTION OF POOR RECOVERY.																			
		65.53	NO CONTACT OBSERVED BETWEEN UNITS - PROBABLY FAULT AND LOST CORE POOR RECOVERY																			

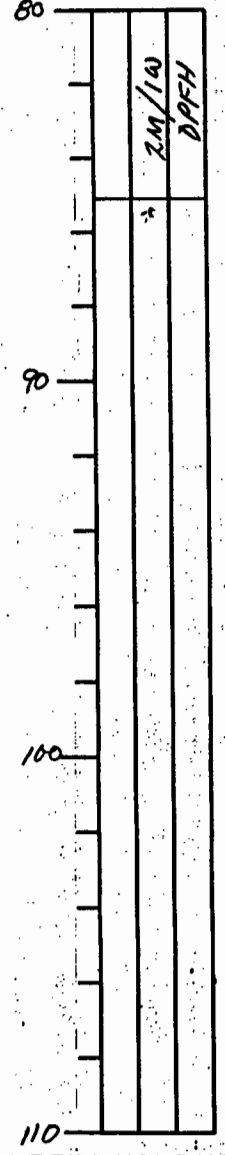
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 186
Logged By: L. DEIGHTON
Date: AUG 15/95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alt. Int.	Alt. Typ	Alt. Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	65.0	85.58	DPFH WMP	2	M	1	W		2-3			W	W	M	M							S
				DPFH LIKE WITH A SIMILAR DESCRIPTION TO SECTION 14.32 - 35.06 m IN SOME PLACES THE PHENOCRYSTS ARE CROWDED WITH ONLY 5-10% OF THE ROCK BEING MATRIX WITH DISSEMINATED PYRITE. PYRITE CONTENT 2-3% DISSEMINATED IN MATRIX. FELDSPAR PHENOCRYST UP TO 4 mm IN LENGTH EUHEDRAL TO ANHEDRAL IN SHAPE AND GREENISH TO SLIGHTLY YELLOWISH IN COLOR. ALL THE ROCK IS SERICITIZED OR WEAKLY CLAY ALTERED PHENOCRYSTS CLEAR SERICITE OR WHITISH SERICITE - CLAY. AS IN THE FLOW HORNBLENDE - AUGITE PHENOCRYSTS. MATRIX DARK SERICITE - PYRITE. INTRUSIVE DOES NOT STAIN ONLY WEAKLY																			
P	85.58	149.7	PPHL	2	S			TR.	3-4					S	S	TR.		W		M-S		S
				DARK GREY COLORED PORPHYRY - FELDSPAR PORPHYRY COMPARATIVELY ALTERED TO SERICITE AND CLAY MINERALS. AND CONTAINING 3-4% PYRITE AS DISSEMINATIONS AND HAIRLINE VEINS. OCCASIONAL SLIGHTLY PATCHES OF CHALCOPYRITE AND ONE VEIN LIKE PATCH OF CHALCOPYRITE OBSERVED IN SECTION. OCCASIONAL PALE GREEN SERICITE PATCHES UP TO 1 cm IN DIAMETER SEEN IN SOME SECTIONS. GYPSUM VEINING OBSERVED THROUGHOUT SECTION WITH SOME GYPSUM VEINS UP TO 10 cm IN WIDTH. PHENOCRYSTS IN THE PORPHYRY ARE SERICITIZED TO CLAY ALTERED OR IN SOME CASES ARE BLEACHED AND FROM 3-4 cm IN LENGTH. DARKER AND BLEACHED SECTIONS UP TO ONE METER IN LENGHT IN THE CORE BUT MORE GENERALLY 2 - 10 cm ALONG FRACTURES ?? VERY NARROW BRECCIA ZONES OCCUR OCCASIONALLY IN SECTION.																			
S	116.3	117.9	DYKE	2	S									S	S			W	W		M.	
				LIGHT GREY GREEN DYKE FINE GR TO APHANITIC COMPARATIVELY ALTERED TO SERICITE + CLAY MINERALS, CALCAREOUS WITH OCC CALCITE & GYPSUM VEIN. NO. PYRITE OR CPY.																		

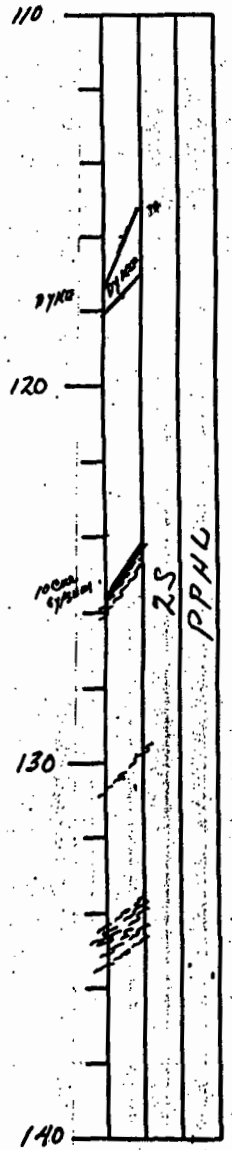
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 186
Logged By: _____
Date: _____

Graphic Log (m)



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

UPPER CONTACT OF DYKE 28° TO CA AND HAS GOUGY SOFT CONTACT AND GYPSUM VEIN
LOWER CONTACT ~ 45° TO CA ON GOUGY - HIGH CLAY ALTERED CONTACT. CONTACTS OF DYKE
HAS GREYISH COLORED CHILLED MARGINS UP TO 4 CM WIDE

125.20 - 125.65 SHEAR GOUGE ZONE CONTACTS 40° TO CA. WITH GYPSUM VEINS THROUGHOUT
AND ONE VEIN 10 CM IN WIDTH. AT TOP OF SECTION OF FAULT.

130.37 3 CM SHEAR 45° TO CA WITH GYPSUM VEINS.

134.0 - 135.2 - SHEAR GOUGE ZONE + HEALED GOUGE WITH GOUGE ZONES EITHER END OF
SECTION. GYPSUM VEINING STRONG IN SECTION AND HEALED GOUGE SECTION 40 CM
LONG. SHEARS EITHER END OF ZONE 60° TO CA WITH INTERNAL SHEARS FROM
30 - 60° TO CA.

149.3 - 149.7 STRESSED ROCK HEALED SHEAR AND GOUGE 32° TO CA AT CONTACT
BUT ALSO FOLDED STRESS BANDING AND SHEARING AT 70° @ 45° TO CA.

	149.7	166.75	DPFH	1	S	5	W		2-3				S	S						W	VW		W-M

DARK GREEN TO ORANGE GREEN MASSIVE TO POORLY FRACTURED HORNBLENDE
AND OR AUGITE - FELDSPAR PORPHYRY. HORNBLENDE PHENOCRYSTS UP TO 5 mm IN LENGHT
BUT GENERALLY 2-3 mm EUHEDRAL IN SHAPE WHERE NOT ALTERED. FELDSPARS
ANHEDRAL IN SHAPE PINNISH BROWN → ORANGE IN COLOR FORMING MAIN MASS OF
THE PORPHYRY ALL WITHIN AN APHANITIC GROUNDMASS. BUT GROUNDMASS FORMING VERY

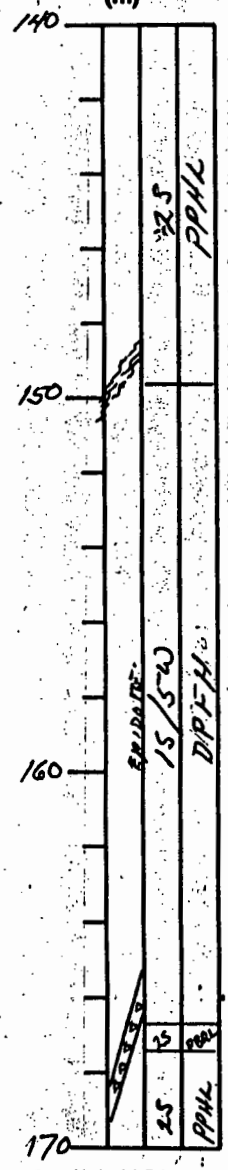
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 186.
Logged By: _____
Date: _____

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				LITTLE OF THE WHOLE ROCK ~10%. EPIDOTE NOTED IN SECTION AS VEINS IRREGULAR IN SHAPE AND AS ALTERATION RIMS AROUND HORNBLENDE PHENOCRYSTS. HORNBLENDE PHENOCRYSTS ALSO SLIGHTLY ALTERED TO CHLORITE IN PLACES. THE ROCK OR PORPHYRY IS NON-MAGNETIC AND THUS NOT A TRUE DPFH DYKE LIKE THASE IN THE MAIN ZONE OR EAST ZONE. THE PORPHYRY CONTAINS 2-3% FINE DISSEMINATED PYRITE																				
S	159.15	166.75	DPFH																				
				APHANITIC VARIETY OF DPFH AS ABOVE WITH ONLY A OCCASIONAL HORNBLENDE PHENOCRYST RECONGNIZABLE HORNBLENDE PHENOCRYSTS OCCASIONALLY RIMMED BY EPIDOTE AND EPIDOTE ALSO OCCURS AS HAIRLINE FRACTURE VEINLETS. FELDSPAR PHENOCRYSTS MAY OR MAY NOT BE PRESENT IN SECTION BUT WHERE PRESENT ARE A CROWDED PORPHYRY. COLOR OF THIS APHANITIC VARIETY IS GREEN TO DARKISH GREEN - GREY.																				
	166.75	167.5	PBRL	2	S				4						S	S				W	M		W
				LATE PHASE BRECCIA WITH UPPER & LOWER CONTACTS 18° TO CA. CONTAINS ANGULAR SUB-ROUNDED & ROUNDED FRAGMENTS OF LATE PHASE FELDSPAR HORNBLENDE PORPHYRY. BRECCIA CEMENTED BY GROUND ROCK, CARBONATE AND GYPSUM VEINING. CONTACTS OF BRECCIA CEMENTED TO LATE PHASE AND DPFH BY VEINS OF GYPSUM.																				
	167.5	178.2	PPHL	2	S				3						S	S				W	W		W
				DARK TO MEDIUM GREY, APHANITIC TO PORPHYRITIC FELDSPAR - HORNBLENDE PORPHYRY COMPLETELY ALTERED TO CLAY AND SERICITE MINERALS. ROCK HAS BLEACHED APPEARANCE OVER SHORT SECTIONS IN WHICH THE FELDSPARS ARE ACCENTUATED AND STAND OUT AS WHITE CLAY ALTERED PHENOCRYSTS IN APHANITIC GROUNDMASS.																				

DRILL HOLE NO. 95 - _____

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 186
Logged By: _____
Date: _____

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				THIS PHASE HAS BEEN DESCRIBED MANY TIMES PREVIOUSLY AND IS SIMILAR TO SECTION DESCRIBED 85.58 TO 149.7 OF THIS HOLE. CARBONATE VEINING IS WEAK AND GENERALLY HAIRLINE IN NATURE GYPSUM VEINING IS MORE PROMINENT THAN CARBONATE VEINING BUT IS STILL WEAK. COKE FIZZES SLIGHTLY.																				
			177.7	-178.2 DARK GREY FINE GRAINED TO ALMOST APHANITIC DYKE CONTAINING UP TO 1/2 CM ROUNDED LATE PHASE FRAGMENTS MAKING UP < 5% OF DYKE COMPOSITION. DYKE APPEARS TO BE OF SIMILAR COMPOSITION TO LATE PHASE PORPHYRY AND IS SIMILARLY ALTERED. THE DYKE CONTAINS 4% VERY FINE DISSEMINATED PYRITE CONTACTS UPPER 80° TO CA LOWER 40° TO CA ON GYPSUM VEIN BOTH SIDES.																				
			177.5	-177.7 GYPSUM VEIN MAINLY SOME MINOR PORPHYRY																			
	178.2	182.0	BBRL	2	S				4						S	S	Tr.			W	M.		W
				BRECCIA MADE UP OF FRAGMENTS OF LATE PHASE PORPHYRY. FRAGMENTS FROM MM TO SEVERAL CM ACROSS ANGULAR, AND SUBROUNDED MAINLY WITH MINOR ROUNDED FRAGMENTS. MATRIX OF BRECCIA IS GROUND ROCK SLIGHTLY MORE SERICITIZED AND PYRITIZED THAN THE FRAGMENTS. THE BRECCIA IS CUT BY A MODERATE TO STRONG GYPSUM VEINING. MINOR TO TRACE AMOUNTS OF TOURMALINE ARE PRESENT IN ONE AREA IN FRAGMENTS. AN OCCASIONAL COMPLETELY SERICITIZED FRAGMENT OF APPLE GREEN COLOR IS PRESENT WITHIN THE BRECCIA. LOWER CONTACT 20° TO CA																					

DRILL HOLE NO. 95 - _____

Page 7 of 12

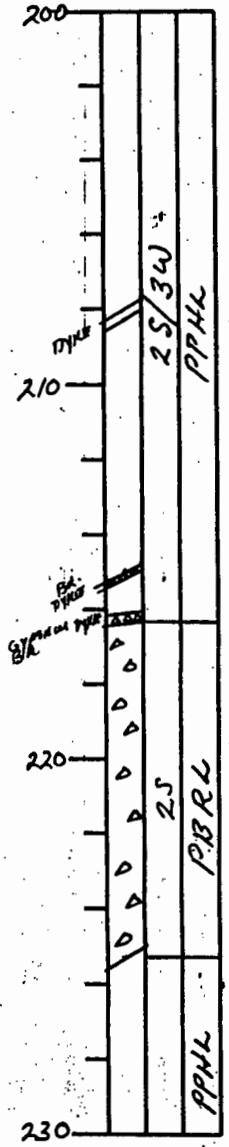
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 186
Logged By: _____
Date: _____

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	182.0	216.35	PPHL	2	S	3	W		3					S	S			W	W	W-M		W

LATE PHASE HORNBLENDE - FELDSPAR PORPHYRY DARK GREY IN COLOR APHANITIC TO PORPHYRITIC. COMPLETELY ALTERED TO SERICITE AND CLAY MINERALS WITH 3 % PYRITE DISSEMINATED THROUGHOUT. THE ONLY DIFFERENCE FROM SECTIONS DESCRIBED PREVIOUSLY IS THAT PYRITE VEINLETS OCCUR IN SECTION PARTICULARLY NEAR BEGINNING. SECTION DESCRIBED PREVIOUSLY BS: 58 - 149.7 m OF THIS HOLE. OCCASIONAL SMALL SECTION UP TO 20 cm OF STRESSED ROCK OCCUR IN SECTION. PORPHYRY CONTAINS A INCLUSION ? OF APPLE GREEN SERICITE THAT MAY ORIGINALLY HAVE BEEN A FRAGMENT OF MAIN PHASE ?

208.1 - 208.23 DYKE OF DARK GREY PORPHYRY AS DESCRIBED 177.7 - 198.2, DYKE CUTS LATE PHASE AT 60° TO CA. HEALED ON UPPER CONTACT AND FRACTURE-SHEAR CONTROLLED LOWER CONTACT

215.15 - 215.38 - BRECCIA. DYKE FOR 6 cm WITH ANGULAR FRAGS OF LATE PHASE FOLLOWED BY DYKE OF DARK GREY PORPHYRY AS DESCRIBED IMMEDIATELY ABOVE. BOTH BRECCIA AND DYKE HAVE HEALED CONTACTS AT 60° TO CA.

216.05 - 216.35 GYPSUM VEINED AND ALTERED SECTION WITH A PORTION 7 cm AT BASE OF DARK GREY DYKE AS DESCRIBED ABOVE. CONTACT WITH LOWER UNIT ~ 80° TO CA. BRECCIA ALSO INCLUDED IN SECTION. PY VEINLETS.

216.35 CONTACT WITH PBRL. ~ 80° TO CA.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	216.35	225.35	PBRL	2	S				2-3					S	S					W-M		W

LATE PHASE BRECCIA. FRAGS mm TO SEVERAL cm ACROSS ANGULAR TO SUB ROUNDED AND ROUNDED - PROBABLY CONTAINS MORE ROUNDED FRAGMENTS THAN PREVIOUSLY DESCRIBED

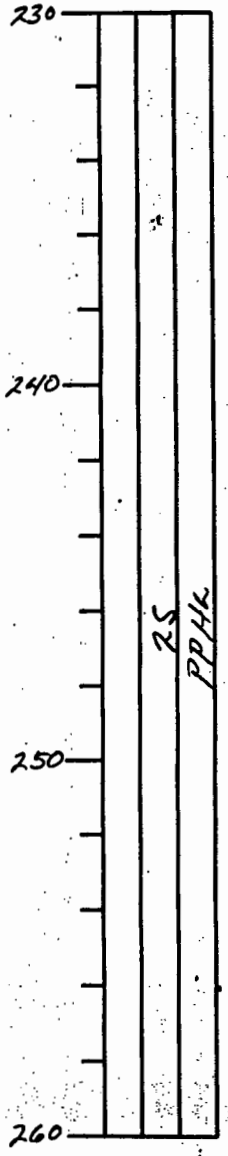
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 186
Logged By:
Date:

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				PRES. BUT IS SIMILAR IN COMPOSITION AND DESIGNATION. 178.2 - 182.0.																		
				CONTACTS MEARED TO SURROUNDING PPHL. UPPER CONTACT ~80 TO CA. LOWER																		
				CONTACT: GYPSUM VEIN 60° TO CA.																		
P	225.35	263.15 (245)	PPHL	2	S				3-4					S	S			·	YW	W-M		W
				LATE PHASE PORPHYRY DESCRIBED PREVIOUSLY BS1.85 - 149.7 m OF THIS HOLE																		
				THESE APPEAR TO BE SLIGHTLY MORE CALCIC + 1 cm GYPSUM VEINS THIS SECTION																		
				MAY THOSE PREVIOUSLY.																		
S	245.8	263.15	PPHL	2	S				3-4								TR.	W	YW	W		W
				SAME AS ABOVE WITH VERY OCCASIONAL 2-3 QTZ CARBONATE VEINS IN																		
				SECTION. GYPSUM VEINS RANGE FROM TO WEAK TO VERY WEAK IN SECTION AND																		
				CARBONATE VEINS ARE WEAK. CORE IS VERY COMPETENT IN SECTION. AND																		
				PYRITE VEINING IS WEAK. MINOR WEAK SERICITE STRINGERS ASSOCIATED																		
				QTZ - CARBONATE VEINS. WITH VERY SLIGHT INCREASE IN SERICITE IN																		
				THESE ALMOST GOUGE LIKE STRINGERS.																		
			262.9	- 263.15 - SHEARED & STRESSED ROCK WITH POLISHED SLIP PLANES & CORE PLANES																		
				ROCK WITH 1-3 cm IRREGULAR CARBONATE VEIN. SLIP PLANE ANGLES 60° TO																		
				CA.																		
			257.6	- 258.25 BRECCIA SECTION UPPER CONTACT 60° TO CA - LOWER CONTACT 25° TO CA on																		
				SLIP PLANE. BRECCIA FLAGS ANGULAR AND CEMENTED BY PYRITE AND MIXTURE																		
				OF SOFT GREENISH COLORED ROCK THAT MAY BE DYKE MATERIAL INJECTED INTO																		
				THE BRECCIA. BY CONTENT ~8% IN SECTION. FLAGS ARE LATE PHASE.																		

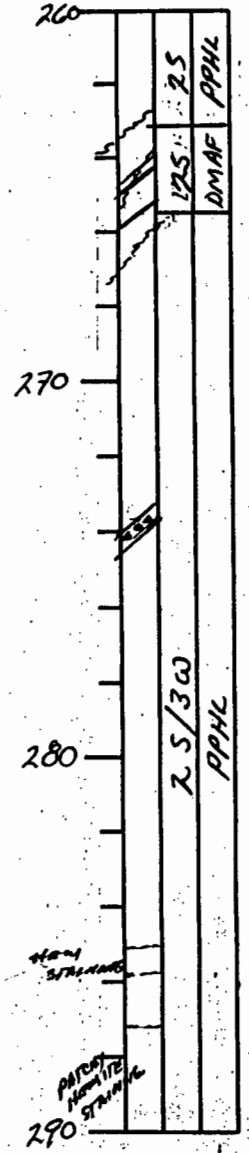
DRILL HOLE NO. 95 -

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 186
Logged By: _____
Date: _____



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alt. Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	263.15	265.55	DMAF	2	S									S	S	Tr			W			M

LIGHT TO MEDIUM GREY HORNBLENDE - AUGITE AND FELDSPAR PORPHYRY DYKE. THAT HAS BEEN BLEACHED AND CARB ALTERED. BLEACHING OF DYKE TO A LIGHT CREAM COLOR IS PROMINENT ON EDGES AND THE DYKE IS ALSO LESS PORPHYRITIC AND FINER GRAINED WITH CHILLED MARGINS UP TO 4 cm. THERE IS A 20 cm INCISION ON THE DYKE SPLITS AROUND THE MAIN PORTION UNIT (PPHL) FROM 264.6 - 267.8 m WITH CONTACT AT 65° TO CA AND INCISION SPLITTING AT 45° TO CA. - THIS MAY ALSO BE SMALL OFFSET SECTION OF SAME DYKE? MAFIC MINERALS PHENOCRYSTS ARE 3-4 mm LONG AND 1 mm THICK AND ARE ALTERED TO A WHITE - GREEN COLORED CARB. PHENOS FORM 5% OF MASS. AND ARE RANDOM IN SHAPE. FELDSPAR PHENOCRYSTS ARE INDISTINCT IN MATRIX EUHEDRAL TO ANHEDRAL IN SHAPE AND ALTERED TO CARB + SERICITE. OCCASIONAL TO APPLE GREEN COLOR IN BLEACHED SECTIONS. FELDSPAR PHENOCRYSTS FORM 10% OF ROCK MASS AND ARE MM IN SIZE TO 3-4 mm IN SIZE.
NO QUARTZ VEINS SEEN IN DYKE, OCCASIONAL CALCAREOUS VEINS AND TR OF TOURMALINE NOTED ON FRACTURE VEINLETS OR DISSEMINATED ADJACENT TO MARGINS ALONG PORTION OF DYKE.

	265.55	349.61	PPHL	2	S	3	W		A					S	S		Tr	W	W	W		W

DARK GREY TO SALTY WHITTED CHLORITED HORNBLENDE - FELDSPAR PORPHYRY WITH SECTIONS OF BANDED TO APHANITIC - FINE GRAINED SECTIONS. SIMILAR TO SECTIONS DESCRIBED ABOVE FROM 85.85 - 149.7 m. SLIGHT DIFFERENCES IN ALTERATION OCCUR THROUGHOUT SECTION IN THAT AREAS OF PINKISH ORANGE BROWN HEMATITE STAINING OCCUR AND ALTERATION IN PLACES SALTY TO SERICITE - PYRITE MATRIX FORMING SLIGHT MOTTLED APPEARANCE. AND SOME SERICITE SALVAGES FORM ON PYRITE VEINS. AN WIDELY SPACED QTZ CARBONATE VEINS OCCUR ATTACHED.

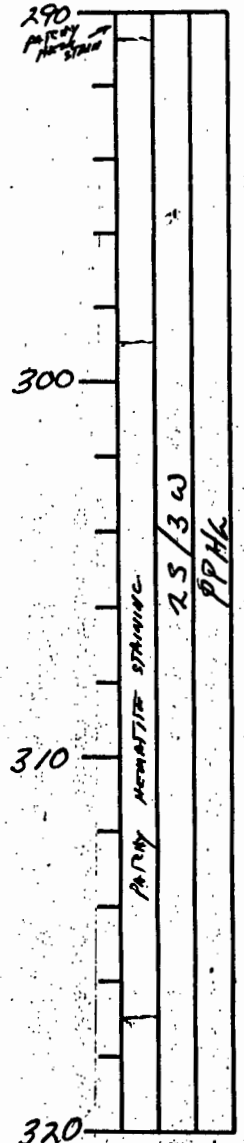
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 186
Logged By: _____
Date: _____

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm		Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
			266.5 - 266.6	2 SHEARS		GOUGE ROCK						50° TO CA.											
			273.75 - 274.1	BRECCIA ZONE								55° TO CA.											
			285.1 - 285.80	HEMATITE STAINED ROCK								BROWNISH ORANGE COLOR. PYRITE NOT AFFECTED											
			287.2 - 290.8	HEMATITE STAINED ROCK								BROWNISH - BROWNISH ORANGE TO DARKISH GREEN - BROWN IN COLOR. (NON MAGNETIC)											
			299.0 - 317.0	PATCHY BROWNISH - BROWN - ORANGE COLORED HEMATITE STAINED ROCK PATCHES UP TO 1 m IN LENGHT BUT MOST LESS THAN 1/2 m IN LENGHT.																			
			322.55	3-4 cm OF GOUGE								35° TO CA.											
			323.0	2 cm GOUGE								20° TO CA.											
												THESE GOUGE ZONES ~90° TO EACH OTHER											
			336.2 - 339.5	PATCHY AND WEAK HEMATITE STAINING.																			
			337.55	1-2 cm OF GOUGE SHEAR								25° TO CA.											
	349.61	END OF HOLE																					

DRILL HOLE NO. 95 - _____

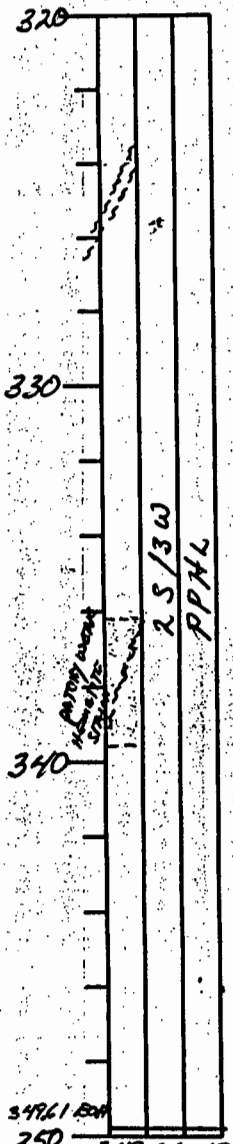
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 186
Logged By: _____
Date: _____

Graphic Log (m)



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

EI

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 187

AMERICAN BULLION MINERALS LTD.

Location Sketch

Grid Northing (m):	99100	Date Started:	AUGUST 15 '95
Grid Easting (m):	48900	Date Completed:	AUGUST 21 '95
Elevation (m):		Logged By:	IAN FOREMAN
Total Length (m):	345.03m	Date Logged:	AUGUST 17 '95
Casing Depth (m):	180 ft 54.86m	Data Entry:	
Reduction Depth:	—	Entry Date:	
Collar Core Size:	NQ	Casing (In/Out):	OUT

Survey	Depth	Azimuth	Dip
S.S.	152.4	206.5	-61.5° NO GOOD
S.S.	310.0	185.5	-64.5°

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	0	9.14	CASN																				
	9.14	96.89	PPHL	2	m	4	w	/	6	/	/		/	/	m	m	/	/	/	Tr	/	/	VS

LITHOLOGY + MIN:

The rock has a pale grey bleached appearance. The groundmass is pale grey to white and aphanitic. The feldspars are 0.5-4mm, subang to rounded, white to transparent and make up 15-20% of the rock. Similarly the hornblende are 0.5-2mm subang - subrnd'd, white to grey and make up 10-15%.

5-8% pyrite occurs as fig'd disseminations and 1-3mm blebs throughout the groundmass and as fracture fill

L.C:

@ end of bkn core

ALTERATION

There is moderate phyllic alteration throughout the unit as there is a high %age of secondary py and the plends have been alt'd to a sericite +/- qtz.

STRUCTURE:

The entire unit is moderately to very strongly bkn and fractured. Locally there are 5-30cm gouge zones.

DRILL HOLE NO. 95 - 187

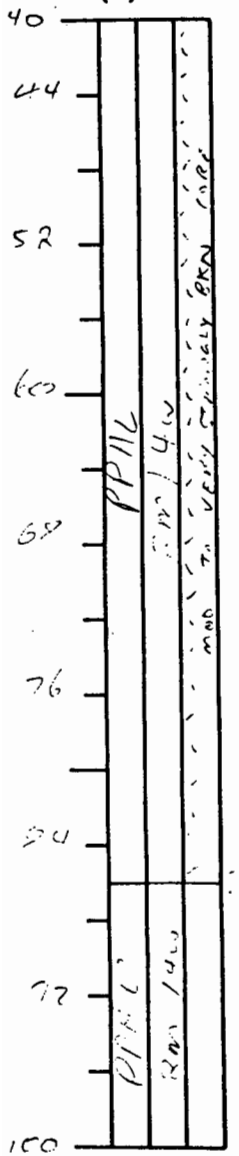
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 187
Logged By: I. FREEMAN
Date: 20 AUG '95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	9.14	86.89	CONT'S		-	26.32	-	26.52 →			DMAF	[illegible]											
	86.89	230.84	PPHL?	2	1,	4	W	Tr	5	/	/	/	/	W	M	/	/	/	W	M-S	/	W

LITHOLOGY / MINERALIZATION

The unit has a grey to dark grey appearance. The porphyritic texture is generally well preserved but locally it can be obliterated. These are 15-20% locally 25% 0.5-3mm cream to translucent subrounded to rounded Qtz eyes and in 15% 0.5-2mm cream to buff angular to subrounded Hbs. Locally the porphyritic texture is very obvious and through these sections the phenocrysts are evenly spaced (eg. 4 or 5 mm). The Pgp's are commonly zoned through these sections.

4-6% fine-grained disseminated Py occurs throughout the unit as fine-grained clusters and 1-4mm fine-grained blebs. Py also occurs as fracture fill and in carbonate ± quartz veins. Trace Chalcopyrite occurs throughout this unit as blebby and fine-grained grains in carbonate and carbonate-quartz veins. No fine-grained Cpy was noted although it is assumed to be present. Trace sphalerite also occurs in carbonate ± quartz veins.

LOG:

Shape I.F. @ 40-50°

ALTERATION:

The unit appears moderately phyllic altered. However the presence of pervasive strong quartz veining is unexpected given the style of alteration. Locally the unit appears to have been Qtz - A.K. altered and the fine-grained matrix has been completely replaced by Cab ± Py.

STRUCTURE:

-106.41 - 106.77m → moderately strong, 1cm to 1.3cm qtz vein ± trace gouge

-112.71 - 112.97 m → 3cm gouge @ 30°

122.35 - 122.38 m → 2-3cm broad open dyke with @ 70-80°

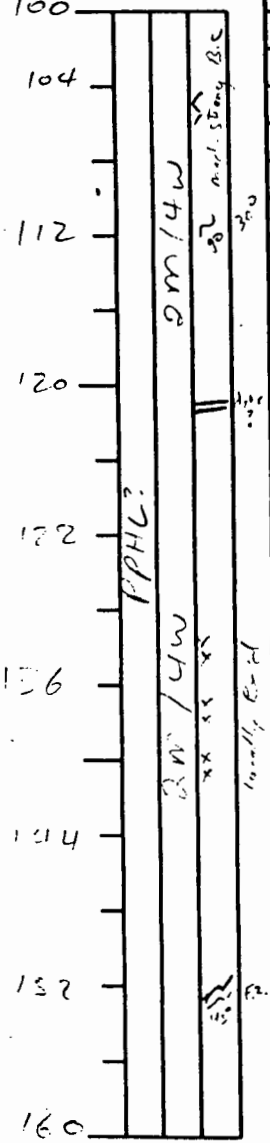
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 187
Logged By: I. FOREMAN
Date: 20 AUG '95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Mineralization Typ	Mineralization Int.	Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
	86.09	230.84	CONT'D		-	133.5	-142.5m →		10%		5-15cm		bx'd	zone.									
					-	153.08	- 153.18m →				brecciated	Bl.	zone	=	Trace	Manganese (?)	Zone @	45°					
					-	168.62	- 168.68m →				brecciated	zone	@	55°									
					-	180.21	- 180.29m →				gouge	@	40°										
					-	196.36	- 196.40m →				Fault zone	@	70°										
					-	215.56	- 215.94m →				Fault zone	@	40°	∞ a 20cm light green dyke									
					NOTE:																		
						The last 15 metres of this unit is slightly different. It does																		
					not have the same grey colors. It is a Sandy breccia to grey in																			
					colour and has well preserved porphyritic texture. This section																			
					does appears to be similar to Main PHHS with moderate stwk																			
					gypsum veining. No Chalcopyrite noted through the section																			
	230.84	234.54	FMJL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	W	
						mod to strong Fe-H zone with a Pubic between 40 and 50°																		
						Locally 1-2cm angular grey fragments and 2-3cm subrounded																		
						light brown porphyritic fragments.																		
	234.54	247.80	VSED	U	m			0.1	6	/	/		/	/	n	n	/	Tr	Tr	tr	/	/	n	
					LITHOLOGY DESCRIPTION:																			
					Fine grained to cryptocrystalline light grey brown to buff ground-																			
					mass with <1.0mm fragments light grey to light green subang																			
					to subrnd grains. Locally the cuttings are similar in appearance																			
					to the above unit.																			
					5-7% Pyrite occurs as fine grained disseminations, 1-3mm subrounded blebs and as fracture fill.																			
					Early pyrite also occurs as 1-2mm veins. Trace Chalcopyrite																			
					occurs in carbonate veins with associated Sphalerite and Pyrite.																			

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 187
Logged By: I. FOREMAN
Date: 21st Aug '95

Graphic Log (m): 160, 164, 172, 180, 188, 196, 204, 212, 220

PPHL? 2M/4W

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	234.54	247.80	CONT'D																			
	247.80	252.27	FAUL	-	-	-	-	0.6	5	-	-	-	-	-	-	-	Tr	-	Tr	-	-	W
	252.27	290.87	VSED	4	m			/	6	/	/	/	/	m	m	/	/	Tr	W	/	/	W

Two 1-3mm quartz veins occur in this unit. Both appear unmineralized.

L.C:
Sharp w/ Faultzone @ 60°

ALTERATION:
Moderate Qtz-Ank-Ser + Kao alt'n throughout the unit?

STRUCTURE:
No notable structures through the unit.

LITH + MIN:
This fault is very similar to the fault between 230.84 and 234.54m. Locally the fabric is mylonitic. There is only <5% gouge through the faultzone. The fabric includes and surrounds subrounded fragments to 2cm. The fragments are massive and dark to light grey brown as well as white. The white frags are prob carbonate and contain chalcopyrite. Chalcopyrite also occurs as 2mm-1.5mm subrounded blebs throughout the zone.
Fabric throughout the zone ranges from 40 to 70°

L.C:
Sharp @ 40°

LITH + MIN:
This is a pretty cool unit. The general appearance is a fine grained light grey to light brown massive unit with local bedding and/or laminations.
The majority of the unit is similar to the Volcanic seds that were intersected between 234.54 and 247.80 meters. It is, apparently, massive, light greyish brown and contains

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 187
Logged By: Ian Freeman
Date: Aug 21st 95

Graphic Log (m)

270
274
278
282
286
290
294
298
272
276
280

F.2. ppHc ? Bm/4m
F.2. USCD 4m?
F.2. SiS 6m
USCD 4m

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Mineralization Typ	Mineralization Int.	Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	252.27	290.87	CONT'D			<1%	possible	cpy	tr's.			4-6%	pyrite	occurs	throughout	these						
						sections	as	fine	dissemination's	1-4mm		subrounded	blebs									
						and	as	1-2mm	veins	and	fracture	fill.	Rare	anhedral	veins	cut...						
						bleby	brown	sphalerite														
							Locally	the	unit	contains	fragments.	These	fragments									
						range	from	light	greenish	brown	(same	as	above)	to	light	green.	They						
						are	subangular	to	subrounded	and	between	0.5-6cm.		Within								
						mineralization		cross-cuts	the	boundaries	of	the	fragments.									
						L.C:																
							Sharp	with	dike	@	80°											
						ALTERATION:																
							It	is	apparent	that	the	unit	is	weak	to	moderately						
						Qtz	-	Ser	-	Ank	±	Kao	alt'd.	The	unit	is	possibly	Silicified					
						and	locally	the	grey	greenish	colour	of	the	groundmass									
						is	attributed	to	Sericite.													
						STRUCTURE:																
							No	notable	structures	through	out	the	unit									
							- weak	to	moderate	siliceous	veining											
							- NO	GYPSUM	veining.													
	298.92	298.92	PPHL/TUFF	4	W			/	3	/	/		/	/	ms	ms	/	Tr	/	W	/	/	4
						LITHOLOGY																
						The	matrix	is	dominantly	a	light	green	to	beige	with							
						15-20%	white	to	translucent	0.5-2mm	feldspar	&	quartz	eyes								
									1%	0.5-2mm	subhedral	biotite	&	chlorite	hb's.	The	dominant			The	typical	bleached	grey
						appearance	of	PPHL.														
							3%	pyrite	occurs	disseminated	as	fine	grained									
						as	fracture	fill.														

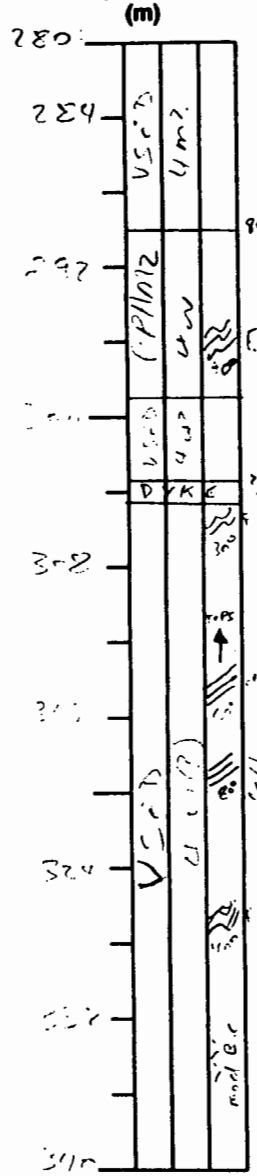
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 187
Logged By: I. Foreman
Date: Aug 21st 95

Graphic Log (m)



RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

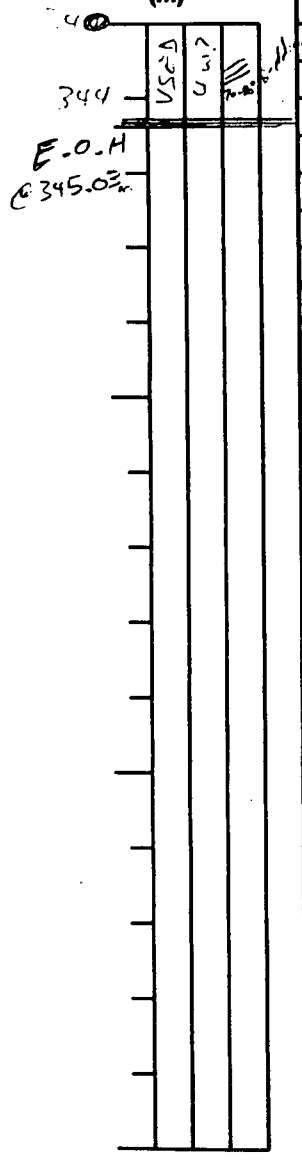
GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 187
Logged By: I. FOREMAN
Date: Aug 22nd '95

Graphic Log (m)

340
344
E.O.H @ 345.03m



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	298.92	345.03	Cont'd																				

3-6% pyrite occurs through out the unit as fig disseminations, 1-3mm blebs and fracture fill. - Sphalerite occurs in one carbonate vein @ 340m

L.C:

E.O.H.

ALTERATION

As with the volcanic sediments between 252.57 and 290.87m, this unit is probably weakly Qtz-Ant-Ser-Kaw altered

STRUCTURE:

- 303.59 - 304.44m → DYKE - medium green porphyritic dyke with 10-15% [illegible] and 10-15% 0.5-2cm subrounded [illegible].
- 305.18 - 305.76m → Fault zone with 20% carbonate veining @ 30°
- 327.12 - 327.21m → Fault zone in 1cm gouge @ 40°
- 333.68 - 334.64m → moderately hkn 1-4cm angular core in 100 gouge.

	345.03	[illegible]	E.O.H.																				

DRILL HOLE NO. 95 - 187

Page 7 of 7

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 188

AMERICAN BULLION MINERALS LTD.

Location Sketch — 4 N

Grid Northing (m):	99 700	Date Started:	Aug 17, 1995
Grid Easting (m):	49 400	Date Completed:	Aug 22 1995
Elevation (m):		Logged By:	T. Heaton
Total Length (m):	334.06	Date Logged:	
Casing Depth (m):	39.62m	Data Entry:	
Reduction Depth:	-	Entry Date:	
Collar Core Size:	NQ	Casing (In/Out):	

Survey	Depth	Azimuth	Dip
		000	-50
SS	152.4	007.5	-49

Graphic Log (m)

0 — CASING — 40

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	0	40.50	CASG																			
P	40.50	41.54	DPFH	2	w/m	-	-	<0.1	0	0	Tr	0	0	M	M	0	0	0	VW	0	0	M

Feldspar Hornblende biotite porphyritic dyke (sericite)
- Rock unit is creamy color (bleached) and dark greenish red in color. Feldspar phenocrysts are creamy white to greenish in color and are 1-2mm in size. Hornblende phenos are similar in color but are more lath like and are altered to clay.

ALTERATION/MINERALIZATION
- Unit is altered to clay and sericite. Alteration is mainly weak with some moderate sections. Hornblende phenos are completely altered to clay whereas the Feldspars are less altered. The matrix is generally less altered than the phenos. In the creamy white (bleached) sections the alteration is stronger and more goes completely to sericite and clay minerals. Trace amounts of fracture fill occur. No sulphides.

Structure: There is very weak carbonate veining. The lower contact is sharp and is at 50° to c.a.

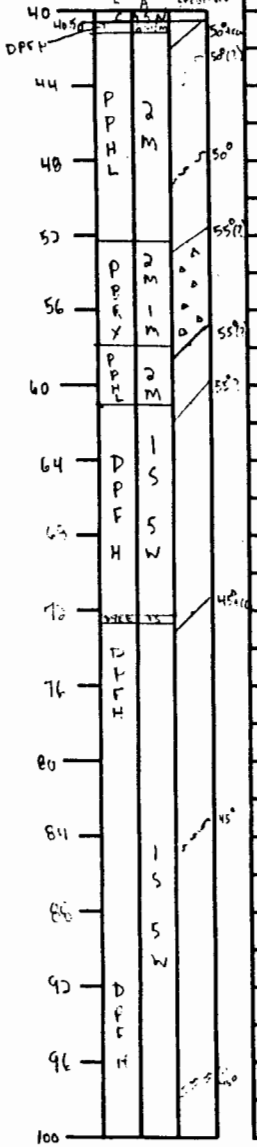
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 188
Logged By: I H
Date:

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	41.54	52.55	PPHL	2	M			<0.1	2	0	Tr	0	0	M	W	0	0	VW	W	Tr	0	W

LITHOLOGY:
- This is a late phase unit which is light to medium grey in color with lesser sections that are dark olive green and salmon color. There's 15-20% feldspars that are irregularly shaped (subangular), are cream to white in color and are 1-4 mm. 10% Hornblendes are white to grey, are lath like, are euhedral to subhedral and are 0.5 to 2mm. The porphyritic texture is preserved throughout.

ALTERATION:
- Unit has moderate phyllic alteration, as hornblendes and Feldspars are secondarily altered. Locally there is hematite staining of matrix and to a lesser degree so are the Feldspars.

MINERALIZATION:
- There is 1-2% pyrite occurring as disseminations, as veins, and as 2-3mm blebs.

STRUCTURE:
- At 44.31m, 10cm breccia zone at 55° tca
- At 43.65m - 44.10m Gouge and stressed rock (12cm gouge)
- At 49.04 - 49.53m healed Fault gouge at 50-55° tca
- At 49.68m 4cm breccia zone at 65° tca
- At 51.81m, 7cm breccia zone at 60° tca
-

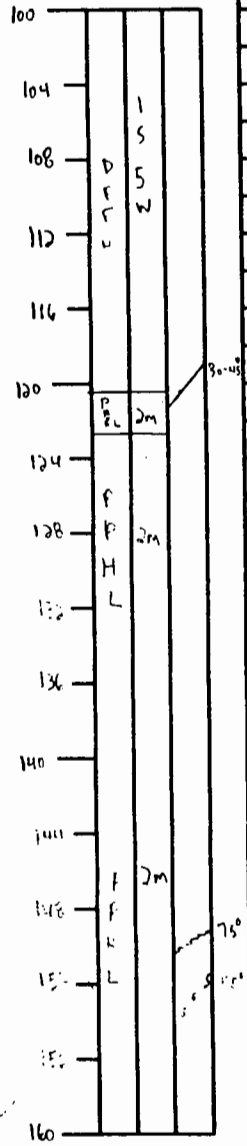
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 188
Logged By: T.H.
Date:

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	52.55	58.00	PBFV	2	M	1	M	0	3	0	0		0	M	M	M	0	0	W	W	W	0	W

LITHOLOGY:
- This is a late phase Breccia unit. Rock is medium grey with lighter grey bands generally at 45° to ca that are 1-5mm wide. Contained within this are fragments that are subangular and range from 2mm to 4cm. These fragments appear to be all of late phase composition. The lighter bands have some crystal form whereas the darker ones are more aphanitic. This unit could possibly be a volcanic tuff. There is also weak carbonate and gypsum veining.

ALTERATION:
- Unit has moderate phyllic alteration and moderate potassic alteration. [illegible] hornblende and feldspars have been altered to sericite and clay and showed potassic staining.

Mineralization and structure:
- 3% pyrite occurs as fine grained disseminations and in lesser amounts as 0.5mm veinlet. It is present both within the fragments as well as in the matrix. Core is broken up from 57.48m to lower contact.

	58.00	[illegible]	PPHL	2	M			0	2	0	Tr		0	0	M	W	0	0	Vw	W	Tr	0	S

Same as 41.54-52.55m except it has a slightly orange color and rock is broken up. Trimming occurred after this (possible fault here)

DRILL HOLE NO. 95 -

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 188
Logged By: T.H
Date:

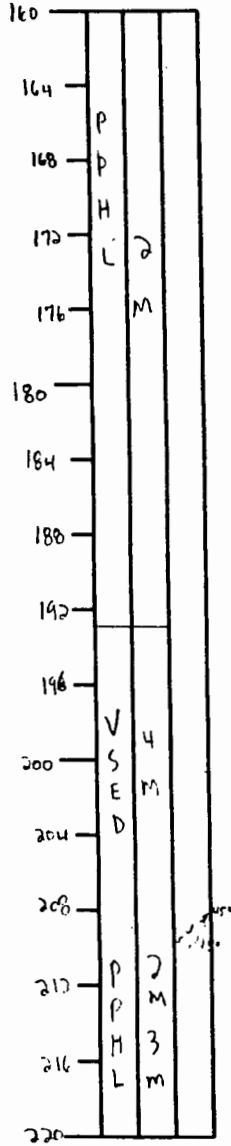
Graphic Log (m)

160 164 168 172 176 180 184 188 192 196 200 204 208 212 216 220

PPHL 2 M

VSED 4 M

PPHL 2 M 3 m



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
P	60.96	72.40	DPFH	1	S	5	W	0	1	0	0	S	S	0	0	0	0	0	VW	0	0	M
P	72.40	73.08	DYKE	1	S	–	–	0	Tr	–	Tr	–	S	–	wk	–	–	–	–	–	–	W
P	73.08	120.41	DPFH	1	S	5	W	0	1	0	0	S	S	0	0	0	0	0	VW	0	0	M

LITHOLOGY:
- Color of rock is dark orangish brown with some greener sections. It appears speckled in spots with light green epidote. Feldspars are 1-3mm, are euhedral to anhedral, and are mainly pinkish red. The hornblendes and/or biotites, which occur in lesser amounts, are anhedral and are partly altered to clay, chlorite, epidote and calcite. The epidote occurs as specks from 1-3mm in size and also as more concentrated blotches. There is weak carbonate veining. Calcite occurs as weak to moderate disseminations. It appears to be mainly replacing mafic phenos. Downsection epidote appears to be forming mafic phenos.

ALTERATION:
- Unit is moderately to strongly pervasive with some weak to moderate chlorite-epidote-calcite alteration (propylitic).

MINERALIZATION:
- 1% pyrite occurs disseminated throughout but occurs more in the sections where there is no epidote. Trace sphalerite (?) is present within the carbonate veins.

STRUCTURE:
- 5cm breccia unit with trace hornblende (?) in fragment
- Core is broken up and blocky with some minor gouge on fractures.

DRILL HOLE NO. 95 -

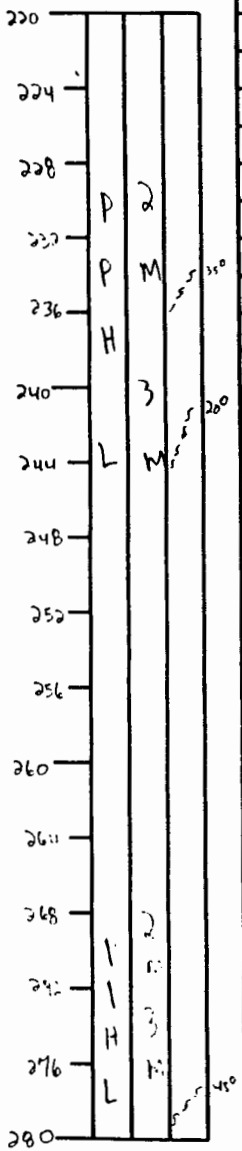
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 188
Logged By: T.H.
Date:

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
			STRUCTURE Cont'd																			
			- Dyke occurs at 72.4c-73.c8m and is dark greener with lighter																			
			colored phenocrysts and amygdules. It appears to be a DMAF but																			
			it contains quartz amygdules with calcite enveloping it as well																			
			as remnant plagioclase phenocrysts(?). The groundmass is aphanitic grey.																			
			There is trace hematite that occurs mostly disseminated associated																			
			with the amygdules, but also in fracture fillings. There is also																			
			trace carbonate occurring in fracture fillings. Trace pyrite occurs																			
			as disseminations as well as in concentrations (blebs) up to 5mm.																			
			The upper contact contains brecciated core with gouge but it appears to																			
			be at 45° tca. The lower contact is at 45° tca.																			
			- Lower a fine-grained unit at 85.67-86.23m (UC → upper c to 50°)																			
			- Healed fault zone at 91.27-91.59m. (UC [illegible] LC 50°)																			
			- Healed fault gouge at 93.30-96.71m. (UC [illegible] LC [illegible])																			
			- Lower contact is at 20-45° tca																			
	120.41	122.00	PEBL	c	m			40:1	à	0		c	c	M	M		-	VVJ	VJ	VJ	-	VJ
			LITHOLOGY:																			
			- Late pink breccia unit. Color of rock is light to medium grey																			
			with lesser amounts of salmon colored rock. The fragments are																			
			subangular and vary in size from [illegible] to 10cm. They appear																			
			to [illegible] [illegible]. There is also a trace of																			
			dark green [illegible] that is interpreted to be late [illegible]																			
			mafic [illegible] mafic dyke. Very weak calcite [illegible]																			
			[illegible]																			
			- Fragments [illegible] less resistant phyllic alteration the hornblende and																			
			feldspars have been altered to sericite and clay. There is																			
			very weak brecciation stained [illegible]																			

DRILL HOLE NO. 95 - [ ]

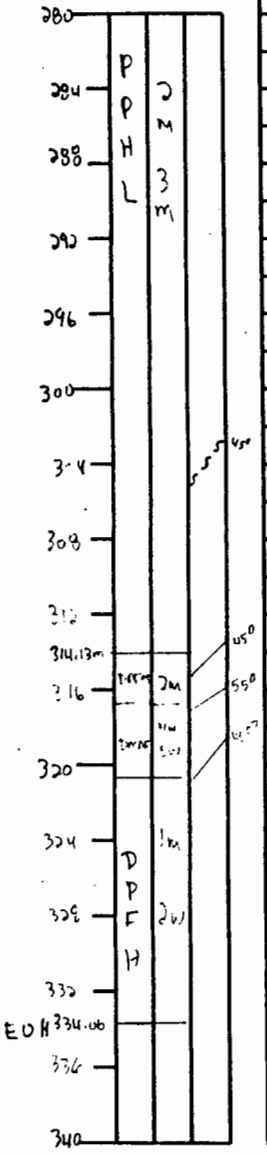
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 188
Logged By: T.H.
Date:

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
			Mineralization & structures:																				
			- 2-3% pyrite occurs disseminated, as veinlets and as concentrated blebs.																				
			- Healed fault gouge at 123.0-123.2m (U.C → 40° tca, L.C 30-40° tca)																				
			- Lower contact to next unit is at 35° tca																				
	123.00	193.61	PPHL	2	M	-	-	<0.1	2-3	O	Tr.		O	O	M	M	O	O	W-M	W	M	O	W
			LITHOLOGY:																				
			- Late phase unit with a light to medium grey color appearing bleached in some zones. There's approximately 20-25% feldspars that are generally cream to white in color with some light green tree. They are 1-3mm in size and are subangular. 5-15% hornblendes are similar in color but are more lath like in shape.																				
			ALTERATION:																				
			- This unit has moderate phyllic alteration, hornblendes and feldspars being altered mainly to sericite. In some areas there is some hematite staining giving the rock a more pinkish salmon color. There is weak to moderate carb & gypsum veining																				
			Mineralization:																				
			- 2 to 3% pyrite occurs as disseminations, as 1-3mm veins and to a lesser degree as blebs. It also occurs in fracture fillings. The pyrite is subhedral to euhedral and is fine to medium grained. There is trace hematite occurring mainly associated with carbonate veins.																				

DRILL HOLE NO. 95 -

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 108
Logged By: T.H
Date:

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				STRUCTURE:																		
				- Upper contact is at 35°tca																		
				- At 150.12-150.47m, Healed fault gouge. Upper & Lower contact 75°tca																		
				- At 152.65-152.86m, Fault gouge. Upper contact 45°tca, Lower contact 45°tca																		
	193.61	209.64	VSED	4	m	-	-	0	3	0	0		0	w	M	M	0	0	w	vw	m	-	w
				LITHOLOGY:																		
				This appears to be a volcanic sedimentary unit. The color of the rock is buff to light brown with some lighter grey sections. Locally there is mm scale banding of light brown and grey color that generally runs at 30°tca. Unit is generally fine grained with some sections that are brecciated. There is weak to moderate gypsum veining with lesser carbonate veins. The brecciated sections contain fragments that are from 1mm to 4cm. Some of these fragments are enveloped by pyrite																	
				ALTERATION + Mineralization:																		
				Alteration is "Argillic". The unit has been altered mainly to clay and sericite with some lesser amounts of silicious. Sections. There is 3-4% euhedral to subhedral pyrite occurring disseminated throughout, as well as in veins and fractures.																	
				STRUCTURE:																		
				197.05-197.50m → Brecciated unit at 45°tca (upper & lower cts)																		
				198.89-198.49 → Brecciated unit Lower & upper contacts indistinguishable.																		
				209.50-210.02 → Healed Fault gouge. Upper ct → 45°, Lower contact 150°tca.																		
				→ Lower contact to next unit is at 45°tca.																		

DRILL HOLE NO. 95 -

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 188
Logged By: T.H
Date:

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure / Veining Qz	Structure / Veining Py	Structure / Veining Cb	Structure / Veining A: gypsum	Structure / Veining H:	Structure / Veining Fr.
	209.64	314.13	PPHL	2	M	3	M	<0.1	3	0	Tr	0	0	M	M	0	0	w-m	W	M	0	W

LITHOLOGY:
- Late phase unit similar to one uphole. Color of rock is light to medium grey with some sections that appear mottled and are pale buff. This unit has different alteration than one uphole. The Feldspars are randomly oriented and are subhedral to euhedral and range from 1-3 mm in size. The biotites and hornblendes are approximately similar in size. There is a few smaller brecciated sections.

ALTERATION:
- this unit has 2 types of alteration. The upper section is mainly phyllic alteration. Where the ferromagnesian and feldspars have been altered to sericite. Here the porphyritic texture is not well preserved. As you go down hole, the unit has mottled appearance, and the hornblendes + Feldspars being altered to sericite, and clay.

Mineralogy:
There is From 0.5 to 7% subhedral to euhedral pyrite, the average throughout the unit being 3%. It occurs disseminated throughout as very fine grained veins, on fracture surfaces, as blebs and associated with the gypsum veins. In some sections, the pyrite is more abundant in the phyllic altered zones.

STRUCTURE:
- Upper contact is at 45° tca
- 2cm breccia unit at 220.78m
- At 232.76m, 3cm fault gouge with upper & lower contact at 35-40° tca
- At 234.15m, 2cm gouge at 50° tca
- 20cm brecciated fault at 238.35 - 238.56m

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 188
Logged By: _____
Date: _____

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
			STRUCTURE Cont'd																			
			- At 243.10 - 243.36m, Fault gouge with gypsum vein ⇒ Upper & lower contacts at 20° tca																			
			- 10cm brecciated unit at 270.39m.																			
			- 3cm Fault gouge at 278.75m at 45° tca																			
			- 2 1cm Fault gouges at 35° tca																			
			- 304.70 - 305.43m ⇒ Healed Fault gouge (stressed rock) at 45° tca																			
			- At 308.08m 12cm stressed rock (gouge) at 50° tca																			
			- At 308.52m 3cm Fault gouge.																			
	314.13	317.32	DPFH	2	M	1	W	0	<1	0	0	Tr	W	M	M	0	0	0	VW	0	0	W
			LITHOLOGY:																			
			- This is a Feldspar Hornblende biotite porphyritic dike. It is orangish brown to salmon colored with sections that are beige and grey. The feldspars are creamy white, to pinkish, and range in size from 1-2 mm and are subhedral to euhedral. The hornblendes and/or biotites are subhedral to euhedral and appear to have been altered to clay.																			
			ALTERATION:																			
			- unit has been moderately altered to clay & sericite (phyllic) with some weaker potassic sections.																			
			Mineralogy & Structure:																			
			- There is < 1% disseminated pyrite throughout unit. It also occurs as blebs ¼ to 1cm wide. Upper contact is slightly irregular, but runs generally at 45° tca. Lower contact is sharp at 55° tca																			

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 188
Logged By: T.H
Date:

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	317.32	320.15	DMAF	4	W	5	W	0	0	0	0	W	0	W	W	0	0	0	0	0	0	W

LITHOLOGY & Alteration:
- This mafic dyke is buff beige to dark green colored with beige to white carbonaceous amygdules that range in size from 1mm to 3cm and are irregularly shaped. It appears that the phenos have been altered to sericite, carbonate and chlorite.

Mineralogy & Structure:
- there are no sulphides, and the upper contact is irregular (45° ca) and lower contact is also irregular (45-55° ca?)
- At 317.32 - 317.55m there is a small DYKE that is light beige, with an aphanitic groundmass, containing qtz phenocrysts <1mm.

	320.15	334.06 EOH	DPFH	1	M	2	W	0	<1	0	0	TR	M	W	W	0	0	0	VW	0	0	W

LITHOLOGY & ALTERATION
- Unit is similar to previous feldspar hornblende porphyritic dyke except that the alteration is more potassic and less phyllic.

STRUCTURE:
- At 323.13 - 323.69m - DYKE as above
- At 329.72 - 333.05m, unit is more light grey and could possibly be a late phase unit.

DRILL HOLE NO. 95 -

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 189

AMERICAN BULLION MINERALS LTD.

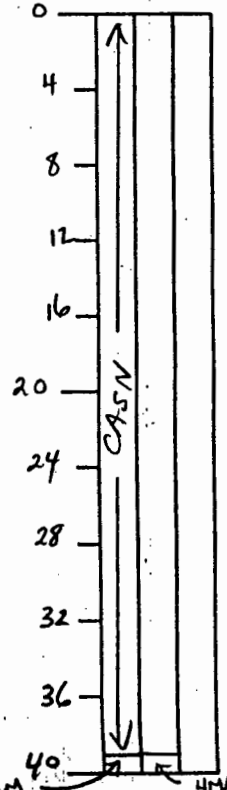
Location Sketch — 4 N

Grid Northing (m):	99200N
Grid Easting (m):	49000E
Elevation (m):	
Total Length (m):	316.08m
Casing Depth (m):	88.39 m
Reduction Depth:	—
Collar Core Size:	NQ

Date Started:	Aug 21/95
Date Completed:	Aug 25/95
Logged By:	T. Fraser
Date Logged:	Aug 24/95
Data Entry:	
Entry Date:	
Casing (In/Out):	recovered 18.29 m damaged 9.14 left in hole 60.96 m

Survey	Depth	Azimuth	Dip
SS	160.6	186.5°	-57°
SS	313.0	191.5°	-58°

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alt. Int.	Alt. Typ	Alt. Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	39.62	118.50	PPHM	4	M	1	M	0.9	3	TR	TR	0	M	S	0	0	MS	TR	TR	0	0	M

Lithology – Main Phase plagioclase hornblende porphyry which is buff to pale orange in colour. Hornblende phenos are not prominent – most appear very altered. Locally there is 10-12% subtotal beige coloured rounded phenos approximately 1-3mm and they have a shoddy appearance. Plagioclase phenos are subhedral to rounded, visibly zoned where primary texture is observed. The groundmass is aphanitic and beige to light orange.

Alteration/Mineralization – The groundmass is moderately Kspar altered and is very fine grained pale orange to buff coloured on fresh surface. The Kspar alteration is very pale in colour and the amount of potassic alteration is destructive. Locally the unit is strongly Kspar altered. Pyrite is finely disseminated throughout the groundmass. Disseminated pyrite > veinlet pyrite > Moderate qtz veins and stringers contain disseminated pyrite, chalcopyrite and trace bornite. Bornite tends to be tarnished with a purple to blue colouration. Local hematite staining. Trace quartz-bornite veinlets. Trace disseminated chalcopyrite. Trace carbonate veinlets.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

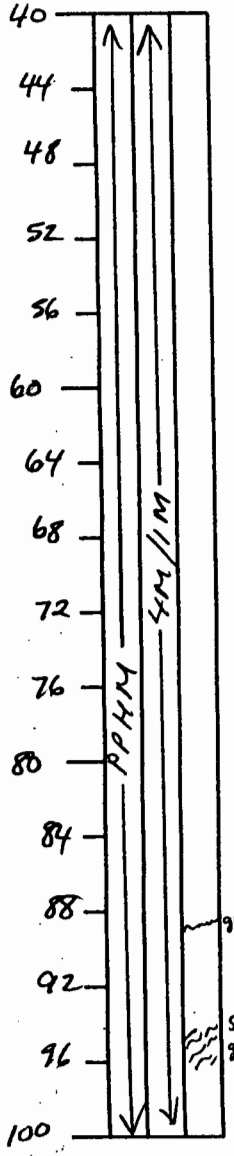
GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 189
Logged By: T. Fraser
Date: Aug 24/95

Graphic Log (m): 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 84, 88, 92, 96, 100

PPHM — 4M/1M — gouge — SH/gouge



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
			Structure - From 57.00 - 85.34 m Triconed; no core recovery																				
			88.29 m gouge seam 2 cm.																				
			93.60 - 96.35 m gouge and healed gouge.																				
			106.27 m 0.5 cm gouge seam 10° to CA																				
			111.00 - 111.25 m gouge seam 10° to CA.																				
			114.86 m gouge/shear 30° to CA.																				
			115.60 - 115.70 m shear with minor gouge approximately 25° to CA.																				
			@ 118.50 m upper, brecciated contact of PPHM2.																				
	118.50	135.00	PPHM2	4	W	1	W	0.3	1.0	0	0		0	W	M	0	0	TR	TR	W	0	0	W
			Lithology - Pale orange Main Phase plagioclase hornblende porphyry. The mafics of the unit comprise 10-15%, euhedral, beige grains approximately 1-3 mm. Plagioclase phenos are green to pale orange and are subhedral, approximately 1-2 mm in diameter. This unit is distinguished from the Main Phase material at the top of the hole due to less mineralization, different alteration (appears less altered than the above unit), considerably less quartz veining. The unit appears quite homogeneous. This unit could be dike-like (more similar to PPHM than to DPFH).																					
			Alteration/Mineralization - The groundmass is pale orange and reflects weak to moderate interstitial Kspar alteration. Plagioclase phenos are prominent and are moderately to strongly sericitized and may be hematite stained locally. Pyrite is finely disseminated throughout. Disseminated pyrite >> veinlet pyrite. Weak to moderate carbonate veins are white. Trace quartz veins containing disseminated chalcopyrite and pyrite. Trace disseminated galena. The unit is uniform in texture and alteration and appears less altered.																					

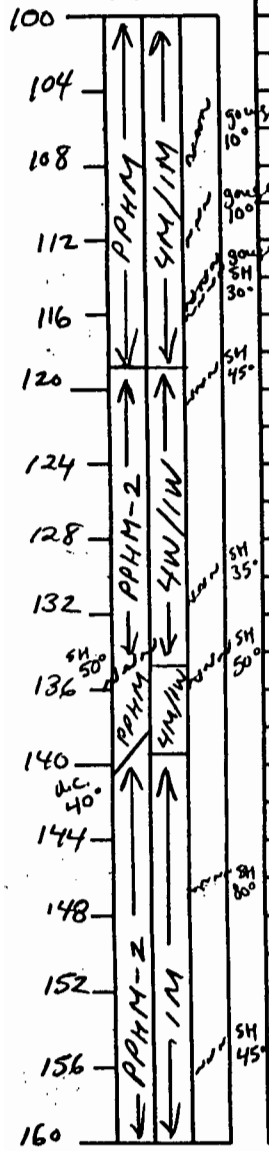
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 189
Logged By: T. Fraser
Date: Aug 24/95

Graphic Log (m)



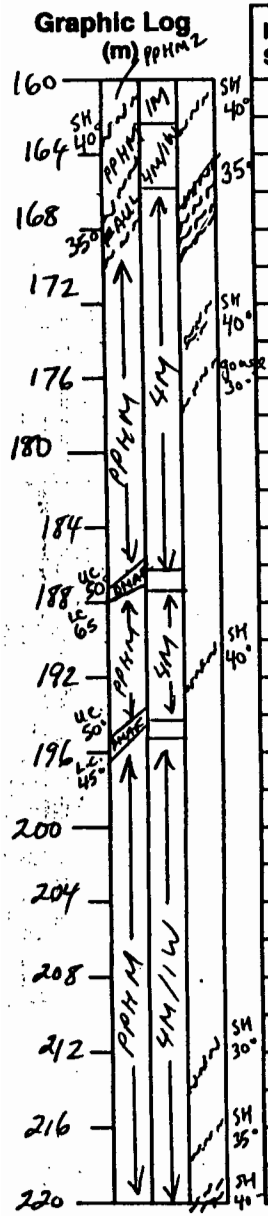
P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
			Structure – 119.90 – 119.95 m shear 45° to C.A.																				
			130.40 m shear 35° to C.A.																				
			@ 135.00 m Lower contact of PPHM2 is marked by a gouge seam (2cm) @ 50° to C.A.																				
	135.00	139.70	PPHM	4	m	1	W	0.7	3	0	TR		0	M	S	0	0	Ms	W	0	0	TR	W
			Lithology – same as interval 39.62 – 118.50 m. Locally the unit is very porphyritic with 40-45% plagioclase phenos – subhedral to euhedral, approximately 2 mm in length. Plagioclase phenos are much more prominent than hornblende phenos.																				
			Alteration/Mineralization – same as interval 39.62 – 118.50 m but no bornite was noted. Trace sphalerite and galena in a carbonate-quartz-pyrite vein. Weak pyrite veins. Trace 0.5 cm red to dark purple hematite veins. Abundant disseminated fine grained pyrite. Moderate quartz stringers contain disseminated chalcopyrite and pyrite.																				
			Structure – Qtz-chalcopyrite-pyrite veins @ 35° to C.A.																				
			@ 139.70 m Upper Contact PPHM2 @ 40° to C.A.																				
	139.70	161.90	PPHM2	1	M	–	–	0.3	2	TR	TR		TR	M	W	0	0	Ws	TR	0	0	TR	W
			Lithology – same as interval 118.50-135.00. The unit is medium to dark orange to locally buff coloured. Plagioclase phenos comprise 35-40% and are subhedral to euhedral with a pale orange to pale green colour. Plagioclase phenos average 1-2 mm. Hornblende phenos are cream to buff coloured, 1-8 mm in length. Hornblende phenos comprise 5-10%.																				

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 189
Logged By: T. Fraser
Date: Aug 24/95



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

Alteration/Mineralization - similar to interval 118.50 - 135.00 m. Kspar alteration of the matrix/groundmass is medium to dark orange and is usually weak to moderate in intensity. Plagioclase phenos are weakly sericitized/hematite stained. Hornblende phenos are sericite/carbonate altered. Trace to 2% disseminated fine grained biotite/hematite alteration. Disseminated pyrite. Trace hematite veins. Quartz veins (weak) contain disseminated chalcopyrite-pyrite and trace bornite.

Structure - 144.60 - 144.78 m broken with gouge
146.92 - 147.06 m shear 80° to C.A.
147.30 m shear 65° to C.A.
155.30 - 155.36 m shear 45° to C.A.
158 - 160 m broken

@ 161.90 m Lower contact of PPHM2 marked by a shear 40° to C.A.

	161.90	165.60	PPHM	4	M	1	W	0.6	2	TR	0		0	W	S	0	0	Ms	W	W	0	0	M

Lithology - same as interval 135.00 - 139.70 m
Alteration/Mineralization - same as interval 135.00 - 139.70 m but there are trace qtz - chalcopyrite - bornite ± pyrite veins. Weak carbonate veins and weak pyrite veins. Trace disseminated chalcopyrite. Disseminated pyrite > veinlet pyrite.

Structure - Upper contact of FAUL @ 165.60 m 35° to C.A.

DRILL HOLE NO. 95 - 189

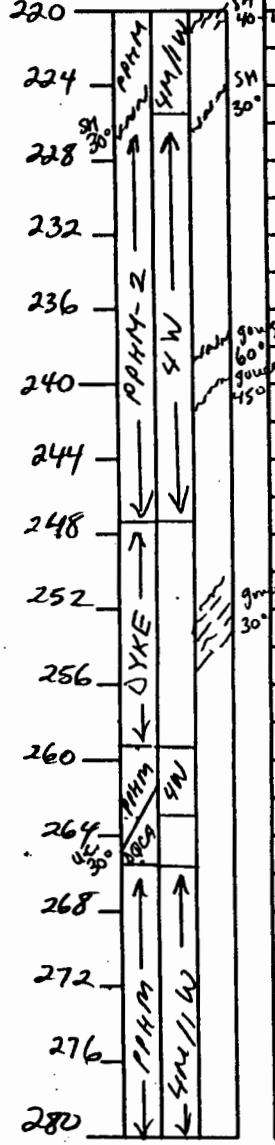
Page 4 of 11

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 189
Logged By: I. Fraser
Date: Aug 24/95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
45	165.60	168.80	FAUL	4	M	—	—	0.6	3	0	0	0	0	M	0	0	M	W	M	0	0	S

This fault is usually a silicified / brecciated zone of fault breccia/gouge. The matrix of the fault consists of quartz + chlorite + pyrite throughout the matrix. Fragments of rock (host rock) altered to chlorite, quartz + pyrite. Pyrite + chalcopyrite + chalcopyrite - pyrite. The fragments have moderate to locally, strong silicification of plagioclase. Trace disseminated chalcopyrite. Moderate carbonate veins. Weak pyrite veinlets.

	168.80	186.37	PPHM	4	M	—	—	0.4	3	0	TR	0	0	S	0	0	Ws	TR	W	0	TR	M

Lithology - same as interval 135.00 - 139.70 m

Alteration / Mineralization - Same as above 135.00 - 139.70 m. Locally there is 3-5% disseminated / veinlet hematite. Weak quartz veins contain disseminated chalcopyrite and pyrite. Pyrite is finely disseminated and there are trace pyrite veinlets. Weak carbonate veins. Locally the unit is hematite stained. Trace chalcopyrite veins. The unit appears to have strong quartz alteration - the plagioclase grains are dark apple green.

Structure - 170.05 - 170.30 m broken shear / gouge
173.73 - 174.03 m shear with gouge @ 40° to C.A.
177.18 - 177.23 m gouge 30° to C.A.
180.85 m shear @ 35° to C.A.

	186.37	187.67	DMAF	—	—	—	—	—	—	—	2	—	—	W	0	0	0	0	W	0	0	—

Lithology - Pale to dominantly dark brown pyroxene - plagioclase phyric Mafic dike. The groundmass is aphanitic with a slight granular appearance. Unlike most other DMAF's, this one has a dark brown groundmass as compared with light green / tan in this. Pyroxene phenos are coarsely phenocrystic, and dimpled. 8-10% of euhedral 1mm - 1cm phenos. The pyroxene

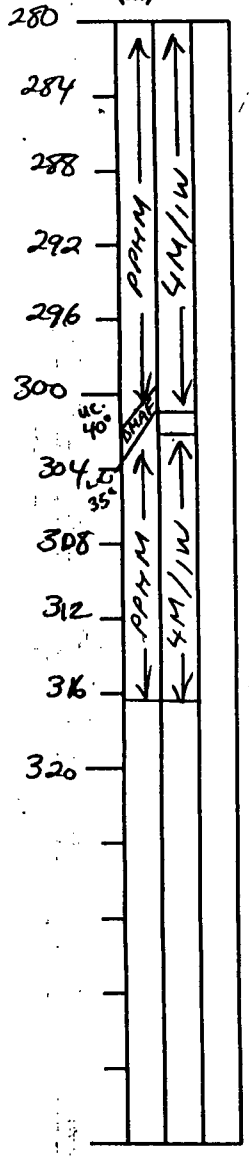
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 189
Logged By: T. Fraser
Date: Aug 24/95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
			phenos are cream to light green coloured - probably due to carbonate ± sericite alteration. Plagioclase phenos are approximately 1-2 mm 3-5% and subhedral. The unit is cut by numerous calcite veinlets. There is approx. 1-2% disseminated hematite.																				
	187.67	194.28	PPHM	4	M	—	—	0.6	2	0	TR		0	0	M	0	0	Ws	W	M	0	TR	W
			Lithology - same as interval 135.00 - 139.70 m.																				
			Alteration/Mineralization - Plagioclase phenos are moderately sericitized. Chalcopyrite is rarely as blebs and veins. Locally qtz veins contain disseminated chalcopyrite - pyrite - hematite. There are weak reddish to purple hematite veins. Local hematite staining. Moderate white carbonate veins. Disseminated fine grained pyrite > veinlet pyrite.																				
			Structure - The unit is moderately sheared/stressed throughout																				
			191.57 m Shear 40° to C.A.																				
	194.28	195.25	DMAF	—	—	—	—	—	—	—	2		—	—	W	0	0	0	0	W	0	0	—
			Description/Features of this dike are exactly the same as interval 186.37 - 187.67. The dike is dark brown with an aphanitic groundmass and prominent pyroxene - plagioclase phenocrysts. Phenocryst size and abundance/alteration is identical to interval 186.37 - 187.67 m. U.C. 50° to C.A. L.C. 45° to C.A.																				
	195.25	225.80	PPHM	4	M	1	W	0.6	5	0	TR		0	TR	M	0	0	Ws	TR	W	0	TR	M
			Lithology - same as interval 135.00 - 139.70 m																				
			Alteration/Mineralization - same as interval 187.67 - 194.28. Pyrite is finely disseminated and blebby throughout. Disseminated pyrite >> veinlet pyrite. Quartz veins vary from trace to moderate in intensity. Quartz veins generally contain disseminated fine grained pyrite -																				

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 189
Logged By: I. Fraser
Date: Aug 25/95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alt. Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				chalcopyrite. Weak quartz - pyrite veinlets. Weak to moderate carbonate veining. Chalcopyrite is variably disseminated and occasionally blebby. Kspar alteration is patchy and intermittent. Trace disseminated sphalerite.																			
				Structure - Unit is sheared throughout.																		
				208.35 m 2-3 cm gouge zone																		
				209.70 - 209.95 m shear / broken																		
				211.10 - 211.35 m associated qtz / carb vein 20° to CA																		
				213.40 Shear 30°																		
				217.05 m Shear 35°																		
				218.30 m gouge / shear																		
				219.40 - 219.68 - 219.80 m, 220.90 - 221.20 m Shear 40-45° to CA																		
				221.81 - 221.85 m gouge																		
				@ 225.80 m Upper contact Phase 2 @ 30° to CA. marked by a shear of 20 cm in length																		
	225.80	247.53	PPHM2	4	W	-	-	<0.3	2	0	TR	0	0	M	0	0	TR	TR	M	0	0	W
				Lithology - same as interval 118.50 - 135.00 m but plagioclase phenos are medium green. The groundmass is pale / light green. The unit is moderately to strongly porphyritic with plagioclase phenos (approximately 30-35% subhedral 1-3 mm. Hornblende phenos are 1-2 mm and fairly abundant, approximately 8-10%. The unit has a pale green colour.																		
				Alteration / Mineralization - Pyrite is finely disseminated. Trace disseminated black / brown Hematite. The unit is cut by moderate carbonate veins. Trace quartz veins which are unmineralized. Pyrite also occurs as fine veinlets (Disseminated pyrite > vein pyrite). Plagioclase																		

DRILL HOLE NO. 95 - 189

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 189
Logged By: J. Fraser
Date: Aug 25/95

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
				Sheared and brecciated phases are carbonate - quartz but have only trace - 0.2% Cp. Pyrite is weak to moderate with fine grained disseminated pyrite. Hornblende not noted																				
			Structure - 230.63m shear/carbonate vein (-)°																					
			231.25 - 231.3 m brecciated siliceous vein 50°																					
			234.4 - 235.0 2mm shear 5° to CA																					
			238.05 - 238.11 gouge																					
			238.25m " " 60° to C.A.																					
			240.20 - 240.2? m gouge 45° to CA.																					
			243.19 - 24?.5 m Jasperoid vein																					
			245.4 m gouge																					
			@ 247.53 Upper contact DYKE (broken)																					
	247.53	259.20	DYKE	-	-	-	-	TR	1.5	0	0		-	-	-	-	-	TR	W	W	0	0	M	
	Lithology - This unit is a tan to buff coloured, aphanitic dike with 2-5% dark, subrounded to slightly flattened aphanitic phenos. The groundmass is aphanitic but appears to have a granular look, almost sandy in appearance. Locally the dike is weakly bedded (max 6° to CA). The disseminated dark patches are unidentified and likely are positive identification/classification with DPCA or DMAF. Interpretation is difficult. The dike most resembles the DPCA form. 263.00 - 265.15 m. A large wedge of Main Phase pluton/dike was physically incorporated in the dike from 257.35 - 258.40. The EPHM wedge is highly fractured/jointed and is altered.																							

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 189
Logged By: T. Fraser
Date: Aug 25/95

Graphic Log (m)

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

Alteration/Mineralization – The dike is heavily veined by white carbonate and there are trace quartz veinlets. Pyrite is finely disseminated and there are weak pyrite veins.

Structure – Upper contact of DYKE is broken. Lower contact ~ 40°

249.02 – 249.14 m gouge
251.46 – 254.63 m sheared dyke/PPHM (?) with gouge ~30°
257.95 – 258.40 m gouge/healed with PPHM sliver.
258.40 – 258.70 m broken.

	259.20	263.00	PPHM	4	W	–	–	0.4	3	0	0		0	0	M	0	0	Ws	W	M	0	0	M

Lithology – Same as 187.67 – 194.28 m
Alteration/Mineralization – Same as 187.67 – 194.28 m but qtz veins contain chalcopyrite – pyrite (no hematite). Trace disseminated chalcopyrite in the PPHM. Finely disseminated pyrite. Highly sericitized.

Structure – 259.95 – 260.50 m sheared PPHM.
261.67 – 263.00 m sheared PPHM to upper contact of DQCA
The unit is moderately sheared throughout.

	263.00	265.15	DQCA	–	–	–	–	–	2	0	0		0	0	0	0	0	0	TR	W	TR	0	W

Lithology – @ 263.00 m the upper contact of DQCA is brecciated. (30°) The lower contact of DQCA @ 265.15 m is irregular. This unit is pale grey to light buff/tan coloured. The groundmass is aphanitic with a slight granular texture. Pyrite is very finely disseminated throughout and trace pyrite veins are noted

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 189
Logged By: T. Fraser
Date: Aug 25/95

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
				Approximately 2-5% white rounded to subrounded "phenos" or "amygdules" are disseminated throughout (approximately 1mm diameter). These could be plagioclase phenos or carbonate-filled amygdules. The unit is speckled with approximately 8-10% 2-4mm carbonate-quartz-gypsum filled amygdules. The gypsum-filled amygdules are [illegible] to transparent. White carbonate veins cut the unit																			
	265.15	300.58	PPHM	4	m	1	W	<0.3	4	0	0	0	W	M	0	0	0	W	TR	M (gypsum)	0	W
			Lithology - same as interval 39.62 - 118.50m																			
			Alteration/Mineralization - The unit contains moderately to weakly sericitized and hematite stained plagioclase phenocrysts. The groundmass consists of weakly Kspar altered material (to locally strongly hematite stained instead). Pyrite is blebby and disseminated (fine grained) throughout. Pyrite veins vary from trace to weak in intensity. Trace white to pink carbonate veins. The main distinguishing feature of this unit is the moderate gypsum stockwork. Gypsum veins are white/transparent and fibers are perpendicular to the fractures.																			
			Structure - 269.80-269.90m shear/gouge																			
			270.25-270.40 gouge/shear																			
			271.82 gouge seam																			
			272.68-272.83 DMAF/DYKE																			
			273.85-274.10m DQCA dike - sheared and brecciated.																			
			274.52-274.76m DQCA																			
			282.25-282.40m broken with gouge.																			
			@ 300.58 m upper contact DMAF is @ 40° to CA.																			

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 189
Logged By: T. Fraser
Date: Aug 25/75

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm		Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A: (gypsum)	Structure - Veining H:	Structure - Veining Fr.
	300.58	301.70	DMAF	—	—	—	—	—	—	—	—		O	O	O	O	O	O	O	W	W	O	—

Lithology - The unit varies from pale green to medium green to tan coloured at the lower contact. Although the matrix colour varies it is due to alteration rather than crilling since phenocryst size/shape does not significantly change near the upper and lower contacts. There is approximately 8-10% subhedral black biotite phenocrysts which are <1-10mm in length. Biotite phenos are relatively unaltered. Pyroxene phenos are very prominent and comprise 10-15% 2mm-1.5cm pale green euhedral phenos. Pyroxene phenos appear slightly altered (they are pale green/cream and may be due carbonate/sericite alteration). Rare white subhedral blebs may be indistinct plagioclase phenos? ∴ L.C. 35°

Alteration - The unit is cut by white carbonate veins, which are in turn cut by orange gypsum veins.

Structure - none

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm		Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A: (gypsum)	Structure - Veining H:	Structure - Veining Fr.
	301.70	316.08	PPHM	4	m	1	W	0.3	5	O	TR		O	W	m	O	O	O	W	TR	M	O	W

Lithology - same as interval 265.15 - 300.58 m

Alteration/Mineralization - same as interval 265.15 - 300.58 m but there is trace disseminated black/brown hematite and trace disseminated chalcopyrite.

Structure - none

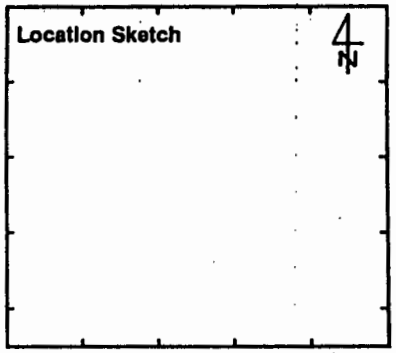
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 190

AMERICAN BULLION MINERALS LTD.

Location Sketch

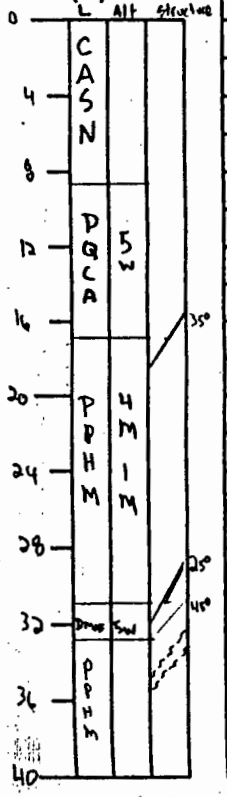


Grid Northing (m):	99200
Grid Easting (m):	49300
Elevation (m):	
Total Length (m):	322.17
Casing Depth (m):	
Reduction Depth:	
Collar Core Size:	NQ

Date Started:	Aug 21/95
Date Completed:	Aug 26/95
Logged By:	T. Heaton
Date Logged:	
Data Entry:	
Entry Date:	
Casing (In/Out):	

Survey	Depth	Azimuth	Dip
		180°	-45
S.S.	167.64	181.5°	-46.5
SS	322.17	186.5°	-47

Graphic Log



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	0	9.14	CASN																			
	9.14	16.68	PQCA	5	W			0	Tr	-	-	-	-	-	-	-	-	-	-	-	-	M

- This is a quartz carbonate amygdaloidal dyke that has a light to medium grey, greenish color and contains spherical quartz carbonate amygdules that range in size from 1 to 6mm. The groundmass is aphanitic to fine grained. It appears weakly altered to chlorite (propylitic). There is trace pyrite occurring as very fine grained disseminations. The lower contact is marked by a fault and is not well defined @ 35-45° to ca.

	16.68	31.56	PPHM	4	m	1	m	0	1	-	-	-	M	m	M'	-	VW	VW	W	VW	-	M

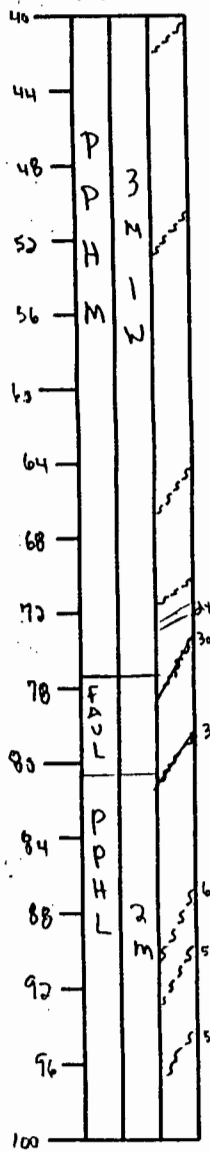
LITHOLOGY:
- This is a late phase unit that is light to medium grey with some very light brown sections. It appears mottled in some sections due to alteration. The plagioclases are 1-2mm in size and are randomly oriented. The hornblendes are more latth like and comprise a smaller percentage of the rock. There is trace to

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 190
Logged By: _____
Date: _____



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

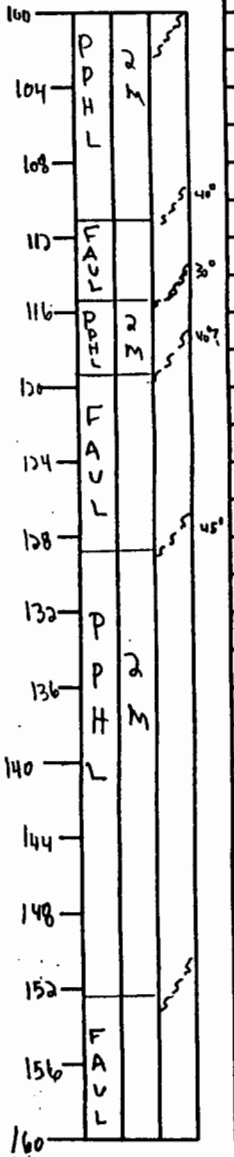
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 190
Logged By: T.R
Date:

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
			ALTERATION:																				
			- The pyroxene and biotite phenocrysts have been altered mainly to sericite and chlorite with minor quartz alteration.																				
			MINERALOGY + STRUCTURE																				
			there is trace very fine grained disseminated pyrite. The upper and lower contacts are irregular and upper contact appears to be at 35°tca and lower contact at 35 to 40°tca																				
	33.11	77.17	PPHM	3	M	1	W	Tr	2	-	Tr		-	-	W	W	Tr	W	W	W	W	-	W
			This unit is very similar to previous main phase unit except the alteration has changed slightly. It has moderate phyllic/Argillic (mottled) alteration and weaker Potassic alteration. The rock therefore has a more mottled appearance. There is also an increase in quartz veining (wall) and trace very fine grained chalcopyrite. Hematite and chalcopyrite occur in trace amounts, the chalcopyrite occurring is associated with the quartz veining.																				
			STRUCTURE:																				
			- 34.80-35.98 m - healed fault gouge upper + lower contacts questionable ⇒ 35-35°tca																				
			- At 41.45m 2-3cm gouge																				
			- At 51.41m 2cm gouge at 50°tca																				
			- At 66.65m 3cm gouge at 45°tca																				
			- At 71.03m 0.75m gouge at 0°tca																				
			- At 74.79-74.94m fault gouge UC → 45 LC 45°tca																				
			→ At 74.99-75.32m there is a light beige Quartz carbonate amygdaloidal dyke that contains quartz amygdules up to 5mm in size, and creamy																				

DRILL HOLE NO. 95 - 190

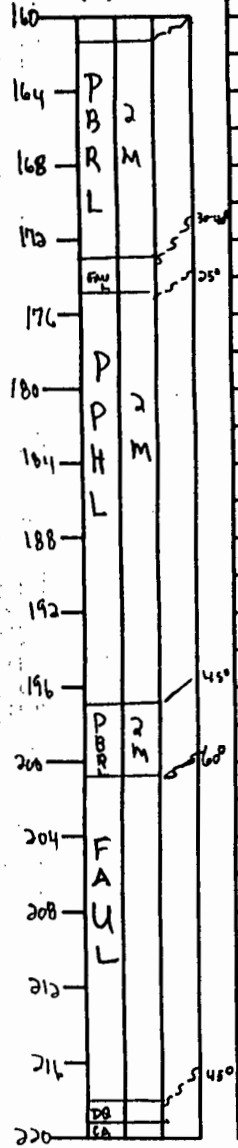
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 190
Logged By: T.H.
Date: _____

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
			STRUCTURE cont'd: white quartz veins. There are also 190 subhedral to euhedral dissem. pyrite parallel to mainly adjacent to quartz veins. Lower contact of PBRL is at 50° to ca. - Lower contact to next unit is at 30° to ca.																			
	77.17	81.85	FAUL	-	-	-	-	<0.1	1	-	-	-	-	W	C	-	-	-	-	-	-	S
			This is a fault which contains fragments of PPHL material and the rock is altered to late phase units (predominantly) there is also a small amount of PPHL material with some more competent sections of host rock. There is also some quartz fragments in the matrix as well as some disseminated pyrite (1%)																			
	81.85	111.45	PPHL	2	M	-	-	<0.1	3	0	0	2	0	M	M	Tr	Tr	W	W	M gypsum	-	M
			LITHOLOGY: - Color of rock is pale to light grey with a bleached look to it. The plagioclase phenos are randomly oriented and are subhedral to anhedral up to 3mm in size. The hornblende are more difficult to distinguish but constitute a smaller portion of the rock. Throughout the unit there is trace pyrite veinlets and moderate to strong ß type veinlets. ALTERATION: - This unit shows mainly pervasive alteration. The plagioclase and hornblende have been mainly altered to sericite and clay with lesser quartz and pyrite.																			

DRILL HOLE NO. 95 - 190

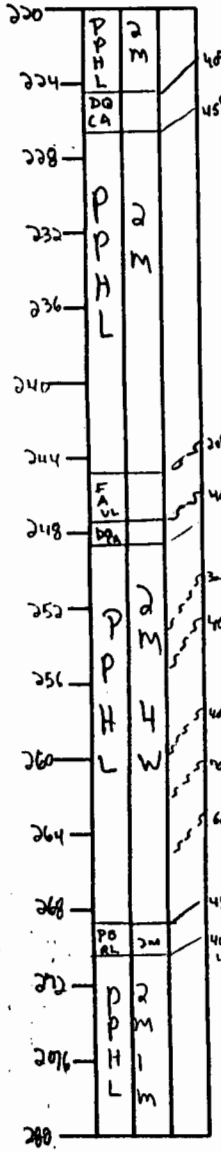
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 190
Logged By: T.H.
Date:

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
			Mineralogy : Overall the PPHL is																			
			- There is 1 to 2% pyrite that is subhedral to euhedral in the matrix																			
			mainly fine grained. The pyrite occurs as disseminations																			
			as fracture fillings, and as blebs																			
			- Upper contact to the unit is sharp																			
			- At 99.1m - 99.14m is a steeply cut (gouge) with vc 65, LC 60° tca																			
			- At 91.84m, 2cm gouge at 55° tca																			
			- At 96.89m, 2cm gouge at 15° tca																			
			- At 101.28m, 1cm gouge bounded by 2 (<0.5cm) gypsum veins																			
	111.45	115.57	FAUL	-	-	-	-	<0.1	2	-	-	-	o	w-m	m	-	-	-	-	-	-	M-c
			This Fault is similar to the previous one except it contains																			
			less gouge and more competent rock. The thick is the ratio of																			
			rock to gouge is 1:1 The last 1m is gouge healed gouge.																			
			There is 2 to 3% disseminated pyrite occurring more in																			
			the competent rock portions. The upper contact is irregular																			
			and is at approximately 40° tca and the lower contact																			
			is also irregular at 30° tca.																			
	115.57	119.82	PPHL	2	M	-	-	<0.1	4-5	o	o	o	o	w	m	T	o	w	w	M	-	M
			This unit is very similar to previous PPHL except that there																			
			is more pyrite occurring mainly as fine to medium grained																			
			disseminations. Lower contact is at 30° tca																			
	119.82	128.49	FAUL	-	-	-	-	<0.1	3	o	o	o	o	w-m	M	-	-	-	-	-	-	M-c
			SAME as previous Fault except the pyrite seems to occur																			
			more in fractures. Lower contact is at 45° tca.																			

DRILL HOLE NO. 95 - 190

Page 5 of

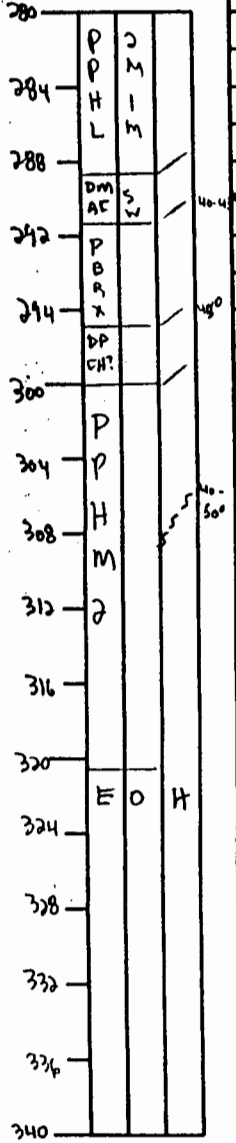
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 190
Logged By: T.H.
Date:

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	128.49	152.80	PPHL	2	M	-	-	<0.1	6-7	0	0		0	0	M	M1	0	M	W	W	S	-	M
			- This unit is same as previous mod except that there is stronger alt. and more qtz vnlts (5-7%).																				
			STRUCTURE:																				
			- Lower contact to fault is slightly irregular and is at 40-45° trca.																				
			- At 148.49-149.65m fault zone where upper contact is at 45° trca.																				
			Lower contact is																				
	152.80	161.30	FAUL	-	-	-	-	<0.1	3	-	-		-	-	W-M	M	0	-	-	-	-	-	M
			Fault unit similar to previous one except there seems to be a little less gouge but it appears to be more sheared rock. Lower contact is irregular and at 40-50° trca. The re is a small bx zone at 158.35-158.70m with irregular contacts.																				
	161.30	170.82	PPFL	2	M	-	-	<0.1	2-3	0	0		0	0	W-M	W	0	0	0	W	gypsum W	-	W
			Lithology: Mineralization																				
			- This unit is light grey to pinkish coarse crystal, recrystal. - there is some fragments from 1-3cm that are rounded. There is 1-2% pyrite occurs mainly as disseminations, but there is also 1-2% fine grained disseminated pyrite.																				
			Structure:																				
			- Lower contact is at 30-40° trca																				

DRILL HOLE NO. 95 - 190

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 190
Logged By: T.H.
Date:

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm		Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
			STRUCTURE - Cont'd																				
			- At 170.75 - 171.15m fault gouge at 6-5°tca																				
			- At 170.00 - 170.22m gouge with upper and lower contacts at 40-50°tca																				
	173.93	174.43	FAUL	-	-	-	-	<0.1	1	0	0		0	0	M	S	0	-	-	-	M S		M
			Fault similar to previous ones except there's less pyrite and there's more gypsum veins in it. Upper contact is at 30-40°tca and lower contact is at 25°tca.																				
	174.43	196.93	PPHL	2	M	-	-	<0.1	3	0	0		0	0	M	M	0	0	W	W	M	-	M
			Similar to previous unit except there are several <1m units that appear to be brecciated.																				
			STRUCTURE:																				
			- 185.90 - 186.15 - Brecciated unit at 55 tca																				
			- 186.95 - 187.05m → Brecciated unit																				
			- 188.67 - 188.82m → Brecciated unit																				
			- 191.80m 10cm brecciated unit																				
			- 194.77 - 195.0m → Very fine grained light grey unit 70-80°tca																				
	196.93	202.02	PBRL	2	M	-	-	<0.1	2	0	0		0	0	M	M	0	0	0	0	W	-	M
			- Same as previous PBRL. Lower contact is at 60°tca																				
	202.02	218.01	FAUL	-	-	-	-	<0.1	3-4	0	0		0	0	M	S	0	-	W	-	M	-	S
			This fault is similar to previous one except that it contains late phase breccia sections and there appears to be a quartz carbonate dyke at 207.15 - 207.90m. The fault has a couple of																				

and at 208.90 - 211.49m.

DRILL HOLE NO. 95 - 190

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - ____
Logged By: ____
Date: ____

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
			less than 0.5m units with increased pyrite occurring in blebs. There is also disseminated pyrite throughout and it also occurs in veins and fracture fillings. The unit contains approximately 70% gouge sections and 30% rock. At 217.15m, there is a 5cm interval which contains 10% chalcopyrite occurring in quartz fragments adjacent to gouge. The lower contact to dyke is irregular and is approximately at 45° tca															
	218.00	219.00	DQCA	-	-	-	-	<0.1	0	-	T	-	-	-	-	-	FW	-	W	W		M
			This is a quartz carbonate porphyritic dike that has a light green to beigeish color and contains spherical quartz carbonate amygdules that are generally 1 to 3mm. The groundmass is aphanitic to fine grained. There is trace qtz veins running through it with trace hematite. The lower contact to Fault is sharp at 40° tca.															
	219.00	224.74	PPHL	2	m	-	-	<0.1	2	-	-	-	-	M	M	-	T	T	-	W	-	S
			Similar to previous late phase unit except that the rock has been stressed, and there are <1m wide sections that contain mainly gouge material (healed fault gouges). The unit is highly Fractured and contains 2-3% disseminated pyrite. The contact to lower unit is slightly irregular and is at approx 40° tca. There is also trace Qtz veining - At 219.00 - 219.35m, gouge at 45-50° tca - At 221.50 - 221.79m, gouge at 50° tca															

DRILL HOLE NO. 95 - 190

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - ____
Logged By: _____
Date: _____

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	224.74	227.98	DOCA	-	-	-	-	<.1	T	-	-	-	-	-	-	-	VW	-	W	W	-	W
			Same as previous DOCA except there seems to be more Qtz carbonate amygdules. Upper contact is at 35°tca, and lower contact is at 45°tca																			
	227.98	245.47	PPHL	2	M	-	-	<0.1	1	-	-	-	-	M	M	-	T	T	-	W	-	S
			SAME as previous late phase unit (219.00 - 224.74) except that this unit has more clm healed Fault gouge units. There also is some sections that are brecciated. - At 234.45 - 235.24 - Healed Fault gouge upper ct 35° LC 40°tca - At 241.92 - 242.19 - Healed Fault gouge UC & LC 35-40°tca															
	245.47	247.73	FAUL	-	-	-	-	<.1	1	-	-	-	-	M	S	-	-	-	-	VW	-	S
			Same as previous Fault. Upper contact 20°tca, Lower contact 40°tca																			
	247.73	248.68	DOCA	-	-	-	-	<.1	1	-	Tr	-	-	-	-	-	-	W	-	VW	-	W
			Same as previous DOCA except there is no qtz veins but there is pyrite veining. There is also some hematite																			
	248.68	268.12	PPHL	2	M	4	W	<0.1	1	-	T	-	-	m	m	-	-	-	-	W	-	S
			Similar to other late phase units except the alteration has changed in a few areas. There is some Argillic alteration. The color of the rock is also, instead of being																			

DRILL HOLE NO. 95 - 190

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - [ ]
Logged By: _____
Date: _____

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
		all	grey	it is		light	beige	and	orangish	red	in	certain	sections.											
		the	red	due	to	hematite	staining																	
		STRUCTURE:																						
		- 248.68	- 249.00m	-	Fault	gouge	at	45°	ca															
		- 254.72	- 255.10m	-	Healed	qtz	vein	at	40°	ca														
		- 252.48	- 252.94	-	Healed	fault	gouge	at	30-45°	ca.														
		- 260.65	m, 8cm	Fault	gouge	at	40°	ca																
		- 262.65	m - 2	m	breccia	zone	at	30°	ca															
		- 261.21	- 261.3	m	-	healed	veins	at	110°	ca														
		- 265.50	- 266.2	m	-	gouge	zone	at	70°	ca.														
		- 264.26	- 267.31	m	-	Mafic	lower	contact																
		- Contact to lower unit is gradational and at 45° ca?																						
	268.12	270.36	PPPL	2	M			<0.1	1	0	0			W	W						VI	-	M	
		Same as other breccia units																						
		Contact to lower unit is not well defined and is at 110-115° ca																						
	270.36	288.69	PPHL	2	M	1	M	0	2	0	T		-	W	M	M	T	T	W	-	VVI	-	M-S	
		Same as other PPHL unit except that the alteration is slightly stronger in certain units. There is a couple of fine grained intervals with weak alteration. The pyrite occurs in fractures as well as minor scale veins. Also a few coarse quartz veins. Contact to core is at 50° ca																						
		STRUCTURE:																						
		- 3cm gouge at 2° ca																						
		- 289.8 - 288.10m - Healed gouge																						

DRILL HOLE NO. 95 - 190

Page 10 **of** [ ]

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - ____
Logged By: ____
Date: ____

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	288.64	291.49	pmAF	5	w-l	-	-	<.1	1	0	0	w	-	w-l	-	-	-	-	-	-	-	w-m
			This dyke is light to dull green with chalky pyroxenes and is moderately to strongly chloritic. These phenos appear to have been replaced by sericite, chlorite and carbonate with lesser quartz. The plagioclase phenos have a light green color and appear sericitized. There is about 1 to 2% very fine grained pyrite occurring as disseminations and in fractures.															
	291.49	294.43	ppbx	-	-	-	-	<.1	2-3	0	0	-	-	-	w	-	-	-	-	v-w	-	w
			This is an intrusive breccia which is light to medium green and the fragments don't appear to be of late or main phase rock but they appear as very fine grained dacitic porphyry of varied composition. They are subangular and range in size from 0.5-1cm in size. There is some white quartz present as well as 2-3% pyrite occurring as disseminations and fracture fillings. The contact to the DPFH (lower unit) is gradational and appears to be a weak contact.															
	294.43	300.00	DPFH?	1	w	-	-	<.1	0	—	—	w	w	—	—	—	—	—				
			Color of this unit is hard to pick due to a strong propylitic alteration. It contains approximately 1% fine grained pyrite. It does not look like a typical LITF																			

DRILL HOLE NO. 95 - 190

Page 11 **of** ____

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 190
Logged By: _____
Date: _____

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	300.00	332.17	PPHM2																			

DRILL HOLE NO. 95 - 190

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 191

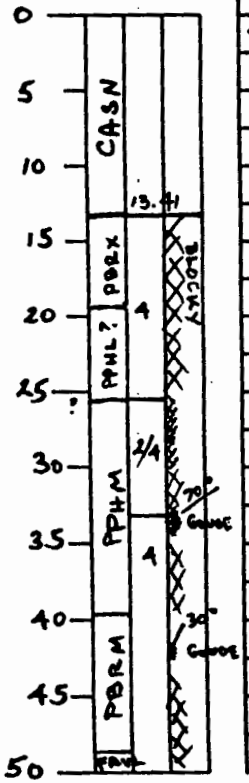
AMERICAN BULLION MINERALS LTD.

Location Sketch — 4 N

Grid Northing (m):	99396	Date Started:	Aug. 25 (P.M.)
Grid Easting (m):	49299	Date Completed:	Aug. 28 (P.M.)
Elevation (m):		Logged By:	G. ALLEN
Total Length (m):	349.61	Date Logged:	Aug. 26 - Aug. 29
Casing Depth (m):	39.6	Data Entry:	
Reduction Depth:	—	Entry Date:	
Collar Core Size:	NQ	Casing (In/Out):	IN (STUCK)

Survey	Depth	Azimuth	Dip
G.A.	COLLAR	180	-45
	152.4	170.5	-50
	349.61	174	-52.5

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	13.41	19.13	PBRX	4	M				4					M			VW	VW				S

LITHOLOGY: PBRX. Mottled dark grey to medium greenish to brownish grey breccia. Groundmass of greenish-grey sericitic aphanitic Red Stock intrusion. Dark grey moderately hard fragments from aphanitic to fine-grained feldspar phyric ~ 20% in rounded fragments to 2 cm.

ALTERATION: Probably quartz-sericite-andalusite. Texture obscure. Weak fizz to HCl on pervasive groundmass.

MIN.: 3-4% pyrite predominantly disseminated and minor stringers. Very few 1-2 mm quartz stringers.

STRUCTURE: Whole interval blocky or broken to 2-5 cm chunks. Shearing 30°, 50° CA. Few 70° shears with gouge.

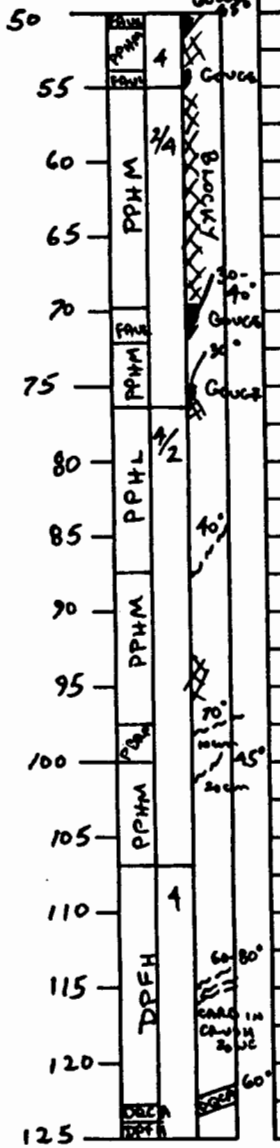
16.0-16.7 (?) - minor gouge mixed with rubble

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: G. ALLEN
Date: AUG. 26


Graphic Log
(m)
50
55
60
65
70
75
80
85
90
95
100
105
110
115
120
125
Gouge
Gouge
Gouge

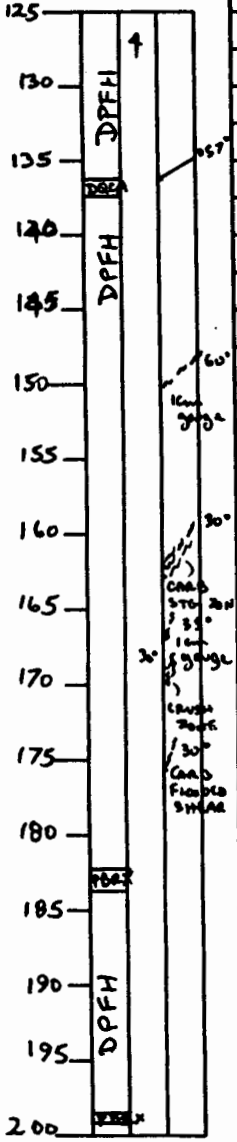
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: C. ALLEN
Date: AUG. 27/95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
							38.7 - 39.1 - Pebble - sized rubble.															
P	39.1	48.85	PBRM	4	M				5-6					M				W				S
				LITHOLOGY - 50-60% subrounded to subangular medium - grey siliceous gtz fsp porphyry fragments to 5cm in a darker grey fine - grained matrix.																		
				ALTERATION: Phyllic to Q-S-A alt. Feldspar phenos in fragments most reactive to HCl.																		
				MINERALIZATION: 5-6% disseminated pyrite, most concentrated in matrix. Minor PY on fractures.																		
				STRUCTURE: Blocky core throughout. Fracturing most commonly 30° CA but ranges from 15-80°.																		
				41.8 - minor gouge on fracture 30° CA.																		
	48.85	50.7	FAUL	2	M	4	M		5					M				W				S
				LITHOLOGY: Medium grey sugary fsp porphyry ground to gouge for much of interval.																		
				ALTERATION: Phyllic / Q-S-A. Weakly chloritic.																		
				MIN: 5% f-g disem PY. Minor PY on fractures.																		
				STRUCTURE: Poor core recovery. 20 cm gouge 50.5 - 50.7. 45° CA.																		

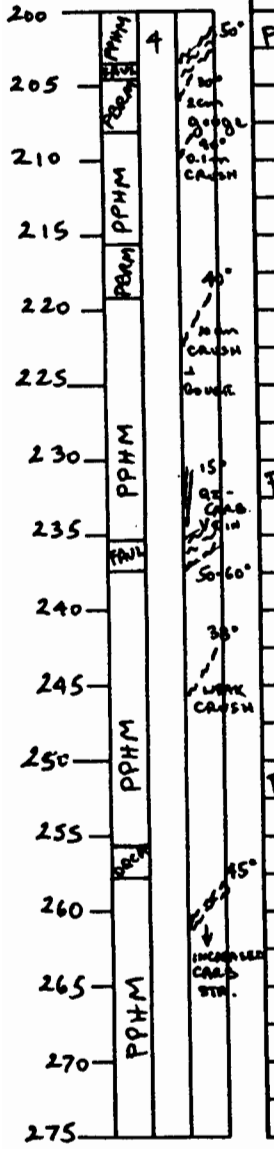
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: G. ALLEN
Date: AUG. 27

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alt. Int.	Alt. Typ	Alt. Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	50.7	53.5	PPHM	4	M				5					M				W				S
				LITHOLOGY : Light to medium blue-grey to yellowish-grey fine to medium-grained feldspar phyric plutonic. Fractures abound. Minor breccia at above fault.																			
				ALTERATION: Q-S-A. Weak figg ē acid. Pseudom alt. feldspar phenos.																			
				MINERALIZATION: 5% Apyrite, pseudom. disseminated, lmt minor along fractures.																			
				STRUCTURE: Shows 30° & 70° CA. No strong specific shear orientation.																			
P	53.5	55	FAUL						4													
				LITHOLOGY : Medium blue-grey gouge. Poor recovery. Width of fault zone uncertain. ~30 cm gouge recovered.																			
				STRUCTURE : ~ 70° ?																			
P	55	69.19	PPHM	2	M	4			3-5									W				S
				LITHOLOGY : Medium blue-grey sericitic altered feldspar phyric plutonic. Fractures abound.																			
				ALTERATION : Colour suggestive of phyllic alt. Sporadic weak reaction to HCl. Mostly sericitic alt																			
				MINERALIZATION: 3-5% disem PY. Minor PY along fractures.																			

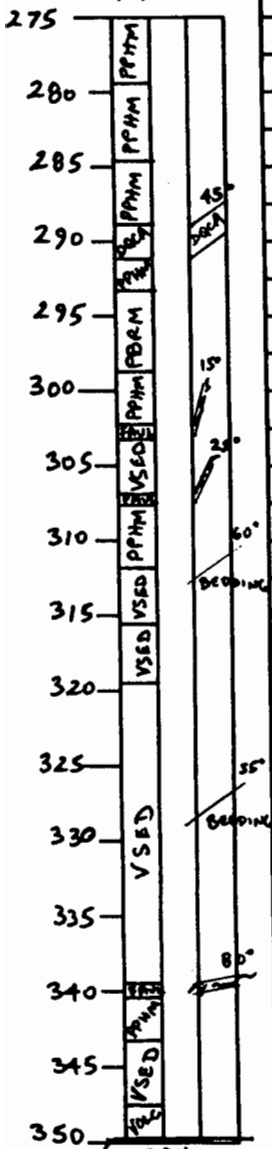
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: G. ALLEN
Date: AUG. 27

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	69.19	72.35	FAUL						6-7													S
				Poor recovery. ~80cm gouge recovered. Shearing 30-40° CA. 6-7% f-g crystalline pyrite disseminated in gouge.																		
P	72.35	76.81	PPHM	4	M	2	M		5					M				W	W			
				LITHOLOGY: Medium blue-grey to brownish-grey medium-grained feldspar phyric plutonic. Textures largely obscure due to alteration. Now a mottled mass of sericite + ? Very soft.																		
				ALTERATION: Sericitic (phyllic) throughout. Brownish parts moderate carbonate alteration (overprint?)																		
				MINERALIZATION: 5% predom dissem PY. Minor PY along fractures. Minor carb stgs 40° CA.																		
				STRUCTURE: First appearance of relatively competent rock in hole.																		
				75.0 - 75.3 - Fault gouge 30° CA																		
				75.3 - 76.81 - Blocky core.																		
P	76.81	87.40	PPHL	4	M	2	M		5					MS					W			
				LITHOLOGY: Medium to light greenish to brownish-grey homogeneous rock. Medium-grained feldspar porphyry with 30% anhedral 1-3 mm stubby vaguely bounded feldspar phenos in a darker groundmass. 2% black opaq (chlorite?). Feldspar phyric texture more apparent than in unit above.																		
				ALTERATION: Moderate reaction to HCl on powdered surface. Stronger carb. alt than observed elsewhere in hole. Q-S-C alt prob. over-print of phyllic.																		

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: G. ALLEN
Date: AUG. 27

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	GL/SL	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				MINERALIZATION: 5% predom dissem PY.																			
				STRUCTURE: Competent rock.																			
								80.23 - 1cm gouge 40° CA.															
								82.6 - 83.0 - Crush zone 70° CA. Gouge.															
								84.43 - 85.2 - Sporadic crush zone.															
											84.53 - 84.66 - DQCA												
				1% carbonate stringers to 3mm 40-60° CA.																			
P	87.40	97.60	PPHM	4	M	2	M	TR	3-5			TR			M			VW	W	W-M			
				LITHOLOGY: Mottled medium to light brownish - grey plutonic with vague lighter grey stubby anhedral feldspar phenos to 2mm (~25%). 10% pinkish grey clots to 1mm after mafics?																			
				ALTERATION: Pervasive sericite carbonate alteration. Moderate reaction to HCl. No stain ∴ not potassic. Carbonate overprint of phyllic.																			
				MINERALIZATION: 3-5% predom dissem. PY. Minor PY along fractures + carb stgs (+ quartz stringers). Traces SL, GL + CP with carb flooded zone 0.1m 91.0 - 91.1.																			
				STRUCTURE: Abundant 1-2mm white carb. stringers generally 40° CA. Very few 1-2mm blue-grey quartz stringers 60-90° CA.																			
				Shear contact zone 40° CA 87.4 - 87.88. Gouge / crush zone.																			
P	97.60	100.00	PBRM	4	M	2	M		6						M				M	M			
				LITHOLOGY: Medium grey to brown - grey rounded plutonic frags to 3cm in darker grey to green - grey gm.																			

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: G. ALLEN
Date: AUG. 27

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	GL	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				ALTERATION: Mod carbonate alt of sericitic phyllitic material.																			
				MINERALIZATION: 5-6% PY predom. in matrix of breccia, and along chloritic fractures.																			
				STRUCTURE: 97.55-97.65 - 0.1m shear/gouge 70° CA. 98.4 - 1cm gouge 35° CA.																			
	100.0	107.0	PPHM	4	M	2	M	0.3	4		Tr	Tr			M			W	W	W		VW	
				LITHOLOGY: Mottled medium grey to brownish grey feldspar porphyry with 25% 1-2mm stubby prismatic light grey plag phenos. (to) Generally anhedral.																			
				ALTERATION: Pervasive sericite + moderate carbonate alteration																			
				MINERALIZATION: 3-4% dissem. PY. Lesser PY on fractures. Traces CP + GL on and adjacent quartz stringers to 2mm. Minor hematite with quartz stringers also.																			
				STRUCTURE: Carbonate + PY stringers at 30° CA. Quartz stringers to 3mm (generally <2mm) 60-90° CA (>70° more typical).																			
				101.3-101.5 shear + gouge 45° CA.																			

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: G. ALLEN
Date: Aug. 27

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	107.0	122.95	DPFH	A	M				Tr					W-M					W			

LITHOLOGY: light brownish-grey to dark greenish-grey to brown-grey, feldspar-hornblende porphyry. Texturally homogeneous. 25% subhedral prismatic subhedral to euhedral plagioclase to 3mm (average 2mm). Hornblende ~15%, prism-shaped. In brownish sections altered to pinkish-brown biotite/carb. In darker sections hornblende altered to chlorite. Darker brown intervals moderately magnetic.

ALTERATION: Pervasive sericite/carbonate. Carbonate throughout but colour variations probably due to variations in intensity of phyllic alteration.

MINERALIZATION: Trace disseminated PY.

STRUCTURE: Competent rock. 1-3mm carb. stringers generally 30+60° CA.

115.4 - 116.3 - Weak crush zone + carbonate-flooded breccia. 60-80° CA.

| P | 122.95 | 123.88 | DQCA | A | M | | | | | | | | | W-M | | | | | | | | |

LITHOLOGY: light green-grey aphanitic dyke with 10% light brown-grey subhedral plagioclase phenos to 8mm (average 3mm) stubby to lath-shaped. 5-8%. black biotite to 2mm. 5% rounded to flattened amygdules to 4cm long (average 1-2mm) - calcite.

ALT: Calcareous. Carb alt. Sericitic?

STRUCTURE: Upper contact - 60°
Lower contact - 60°

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: G. ALLEN
Date: AUG. 27-28

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	123.88	136.40	DPFH	4	M				Tr-2						W-M			T		W-M			
				As	107.0 - 122.95																		
P	136.40	137.25	DQCA	4	M										W-M					W			
				Much as 122.95-123.88. Fewer biotite phenos. Carbonate stringer to 1cm at 25° CA.																			
				Upper contact 57°. Lower contact irregular 80-90°.																			
P	137.25	182.48	DPFH ?	4	M										M					W-M			
				Much as previous DPFH sections but more homogeneous med bn-grey colour.																			
				LITHOLOGY: Relatively homogeneous texturally. Variations in colour from dark green-grey to light green to brown-grey. Medium grained feldspar-hornblende porphyry. Feldspar ~ 30% light grey to light green stubby to prismatic anhedral to euhedral phenos average 2-3 mm. Hornblende sporadically obscure. Typically pinkish altered prismatic pseudomorphs to 3 mm of sericite + carbonate. Vague, poorly developed trachytic texture. Non mag.																			
				ALTERATION: Pervasive sericite-carbonate alt. Moderate reaction to HCl throughout.																			
				MINERALIZATION: 1-3% f-g disseminated pyrite.																			

DRILL HOLE NO. 95 - 191

Page 9 of 24

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: G. ALLEN
Date: AUG. 27

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				STRUCTURE: Widely spaced carbonate stringers throughout. 1-4mm typically 30-40° CA.																		
				150.05 - 1 cm gouge 60° CA.																		
				162.70 - 162.96 - white carbonate - flooded breccia around 2 cm gouge zone at 30° CA.																		
				167.1 - 1 cm gouge 35° CA.																		
				168.65 - 169.75 - Weak crush zone. Minor gouge + shearing 30° CA.																		
				176.22 - 176.44 - Carb - flooded shear zone 30° CA.																		
P	182.48	183.20	PBRX	4	M				5					M								
				LITHOLOGY: Subangular to rounded to irregular fragments to 4 cm of fine-grained feldspar porphyry and medium-grained trachytic feldspar-hornblende porphyry. Matrix dark grey, f-g.																		
				ALTERATION: Carbonate-sericite. More reaction to HCl in fragments than matrix.																		
				MIN: - 5% dissem PY, predom in matrix.																		
				Structure: abrupt irregular contacts.																		
P	183.20	198.18	DPFH	4	M				Tr-3					M					W		Tr	
				LITHOLOGY: Medium greenish-grey to red-brown feldspar-hornblende porphyry. Trachytic. Greenish waxy propylitic stubby to prismatic anhedral to euhedral plag up to 4mm (av 2-3mm) ~25%. 15% pinkish carb alt (+sericite) euhedral pseudomorphs after prismatic hornblende to 5mm long (average 1-2mm). Pinkish.																		

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: G. ALLEN
Date: AUG. 27

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	SL	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				ALTERATION: Pervasive sericite alt. Carbonate alteration most obvious (strongest reaction to HCl) in altered hornblende phenocrysts.																			
				MINERALIZATION: 1-3% pyrite, generally dissem. Red-brown parts have more magnetite - hematite than pyrite.																			
				192 - 197 - Red-brown. <1% PY. Sporadic black specs <1-2% of hematite + magnetite.																			
				STRUCTURE: Widely spaced (~2/m) carbonate stringers up to 5mm. 30-40° CA.																			
P	198.18	198.90	PBRX	4	M				4		Tr				M								
				LITHOLOGY: Mottled med. greenish-grey breccia. 50% 1-2 cm rounded hornblende-feldspar phyric fragments in a finer-grained matrix of medium to dark greenish-grey sericite and feldspar.																			
				ALTERATION: Pervasive sericite - carbonate.																			
				MIN: 4-5% dissem. PY predom in matrix.																			
				STRUCTURE: Shear along lower contact 50° CA.																			
P	198.90	203.57	PPHM	4	M			0.3	5		0.3				M			W	W	W			
				LITHOLOGY: Mottled light grey to greenish-grey. Textures mostly obscure but clearly feldspar + mafic phyric ppy in some parts.																			
				ALTERATION: Pervasive sericite - carb alt.																			

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: G. ALLEN
Date: AUG. 28

Graphic Log (m)

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

MINERALIZATION: 5% disseminated + fracture-controlled (stringers) pyrite, sometimes in quartz stringers. Trace dark brown sphalerite, galena and chalcopyrite (<0.3%?) predom with quartz stringers.

STRUCTURE: Widely spaced (20-30 cm) 1-2 mm grey quartz stringers 30° + 70° CA. Some quartz - dark stringers + some pale carbonate stringers.

P	203.57	204.45	FAUL	4	M				4-5			Tr			M								S

LITHOLOGY: PPHM as above. Gouge zone to 20 cm.

MINERALIZATION: 4-5% disem PY. Predom. in gouge. Trace dark brown disseminated sphalerite.

STRUCTURE: Upper contact 50°. Lower contact 40° CA.

P	204.45	207.80	PBRM	4	M	3	W	<0.3	6			T						VW	W	W			

LITHOLOGY: Mottled light grey, dark grey + medium greenish-grey fragmental with subrounded 1-3 feldspar-hornblende phyric flags to 5 cm in a darker groundmass of sericite + feldspar.

ALTERATION: Pervasive sericite - carbonate alt. both in matrix and fragments.

MINERALIZATION: 6% pyrite disem + along 1-2 mm stringers and masses to 5 mm predom. in matrix. Trace (<0.3%?) chalcopyrite disem. and with pyrite in stringers. Trace dark brown sphalerite.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: G. ALLEN
Date: AUG. 28

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	SL	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				STRUCTURE: Widely spaced irregular 1-2 mm carb stringers 30-60° CA. Some carbonate - flooded matrix with minor amounts of quartz. 206.35 - 2 cm gouge zone 30° CA.																			
P	207.8	215.49	PPHM	4	M	3	W	<0.3	5			Tr			M			VW	W	VW			
				LITHOLOGY: Mottled medium grey to dark greenish-grey vaguely feldspar phyric plutonic. Some sections medium-grained plutonic with 30% stubby prismatic subhedral blue-grey feldspar phenos & 15% pinkish alt. hornblende phenos to 2 mm. Typical main phase. Some fragmental sections																			
				ALTERATION: Pervasive sericite-carbonate alteration. Some short intervals with dark sericitic patches typical of type 3 alteration. Generally pyrite at core of sericite patch.																			
				MINERALIZATION: 5% disseminated and fracture-related pyrite. Traces CP near & within quartz stringers & quartz-carbonate stringers. Traces very f-g galena in quartz stringers. Minor dark brown sphalerite c̄ carb stg																			
				STRUCTURE: Widely spaced 1-2 m, quartz, carbonate & quartz-carbonate stringers 30° + 60° CA. Most quartz at higher angle to CA. 208.9 - 209.1 - crush zone. Minor gouge 40° CA. 209.8 - 209.9 - crush + gouge zone. 40° CA																			
P	215.	219.08	PBRM	4	M			<0.3	4-5			<0.3			M			VW	VW	W			
				LITHOLOGY: Angular medium brownish-grey medium-grained feldspar phyric fragments typically 2-4 cm in diameter in a dark grey groundmass.																			

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: G. ALLEN
Date: AUG. 28

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alt. Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Sy/Gz	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
				ALTERATION: Pervasive sericite - carbonate alteration matrix.														Wkly in fragments and						
				MINERALIZATION: 4-5% disseminated and fracture-related pyrite. Py also in isolated masses to 5mm. Trace CP and dark brown-black sphalerite assoc. with quartz stringers.																				
				STRUCTURE: Early stringers to 5mm 40° CA. Quartz stringers appear to be broken up in breccia. Other cases crosscutting.																				
	219.08	235.20	PPHM	4	M			≤0.3	5			Tr			M			VN-W		W				
				LITHOLOGY: Mottled light green-grey to medium blue-grey feldspar porphyry with primary textures largely obliterated.																				
				ALTERATION: Pervasive sericite - carbonate alt.																				
				MINERALIZATION: 5% disseminated pyrite + lesser fracture-related pyrite. Trace CP, SL + GL associated with 1-2 mm grey quartz stringers. Minor CP along hairline fractures and mixed with disseminated PY.																				
				STRUCTURE: Widely spaced grey quartz stringers to 2mm and white carbonate stringers to 1cm. Stringers range from 15° to 90° but are commonly 30° and 70° (conjugate set) CA.																				
				222.0 - 5cm dark zone 40° CA.																				
				222.43 - 222.50 Gouge along shear 40° CA																				
				233.78 - 234.3 - White carbonate vein / lens. Minor quartz. 10-15° CA.																				

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: G. ALLEN
Date: AUG. 28

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	235.20	237.15	FAUL	A	M				5-6													6

LITHOLOGY: Main phase as above, sheared + crushed. Crush/gouge zone to 50cm.

ALTERATION: Pervasive sericite - carbonate.

MINERALIZATION: 5-6% predom. disseminated pyrite. Some gouge intervals to 10cm with 20% PY.

STRUCTURE: Showing ranges from 45-65° CA, prominent set at 50-60°CA

	237.15	255.82	PPHM	A	M	3	M	0.3 ?	4-5					M			VW T-	VW-W				

LITHOLOGY:

237.15 - 243.09 Mottled medium to dark grey, regularly feldspar phyric medium-grained plutonic. Typical main phase.

243.09 - 251.3 - More clearly porphyritic than rest of interval. Lower copper content. Possible late phase. No distinct contacts.

251.3 - 255.82 - As 237.15 - 243.09.

ALTERATION: Pervasive sericite - carbonate alteration. Some zones with dark grey sericitic patches to 1mm possibly tuffs? alteration.

MINERALIZATION: 4-5% predominantly disseminated pyrite. Trace CP disseminated along fractures + with 1-4mm quartz stringers. Trace dark brown sphalerite and fine-grained blue-grey metallic (galena?) with + adjacent to quartz stringers. Some sphalerite in carb. stringers also.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: G. ALLEN
Date: AUG. 28

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Sl	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				STRUCTURE: Widely spaced 1 mm - 1 cm white carbonate stringers generally																			
				30° + 60° CA. Minor blue-grey quartz stringers to 5 mm at 45 to																			
				80° CA. (70-80 most common).																			
				238.67 - 238.8 Shear/gouge zone 37° CA																			
				241 - 241.5 Crush/gouge zone subparallel to CA.																			
				246.55 - 246.95 Wide shear zone. Shear on lower contact 38°.																			
P	255.82	257.85	DQFA	4	M														W-M		T		
				LITHOLOGY: Light to medium greenish-grey aphanitic groundmass (some brown-grey also) bearing: 25% stubby subhedral to anhedral plag phenos to 3 mm. Some plag alt to a bright blue-green. 5% felsic mafic specs. 5% equant calcite amygdules to 3 mm.																		
				STRUCTURE: Calcite stringers to 1 cm 15-20° CA.																			
P	257.85	279	PPHM	4	M			<0.3	5			<0.3						VW		M			
				LITHOLOGY: Mottled light grey to dark grey to dark greenish-grey mm phenos. Porphyritic texture largely obscured.																			
				ALTERATION: Pervasive silicic-carbonate																			
				MINERALIZATION: 5% disseminated, fracture-related and isolated masses to 5 mm of PY. CP and dark sphalerite generally found together in quartz stringers, calc stringers + quartz-calc stringers. Dark brown sphalerite in masses to 1 cm predominates with white carbonate. <0.5% CP predom with quartz stringers. <0.2%. Sphalerite much more common than CP. Should do 1 CP in this section.																		

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: G. ALLEN
Date: AUG. 28

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Mineralization SL	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
					Predominance of sphalerite may indicate that this area is on the margin of the porphyry system.																		
				STRUCTURE: Distinct increase in white carbonate stringers below fault zone at 261.21																				
									261.21 - 261.95 - Crush / gouge at 45° CA.														
									Above fault white, dark stringers to 2 cm at 30-60° CA. Moderate to strong stockwork. Below fault moderate stockwork in stringers to 10 cm.														
									30-60° CA														
P	~279	284.85	PPHM	A	M			Tr	7			0.5			M			VW	VW	W-M			
				LITHOLOGY: Mottled light grey to dark greenish-grey to greenish-grey fine to medium-grained fsp phyric intrusive with texture largely obscured. Unit as above except increase in sphalerite and pyrite.																			
				ALTERATION: Pervasive sericite-carbonate alteration. Weak to moderate fizz with HCl.																			
				MINERALIZATION: 7% pyrite; disseminated, along fractures and in veins to 1 cm. Sphalerite (dark brown to black) disseminated & along fractures with pyrite common. Trace CP.																			
				STRUCTURE: Few 1-2 mm quartz stringers generally 30° CA. White carbonate stringers to 1 cm 30-40° CA also.																			
	284.85	288.13	PPHM	4	S				4			Tr						VW	M	M			
				LITHOLOGY: Light to medium greenish-grey grn hosting 25% dark green 1-2 mm subhedral fsp phenos. Andesitic.																			

284.85 - 285.0 - DQCA dyke.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: G. ALLEN
Date: AUG. 2

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Sl	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				ALTERATION: Pervasive sericite - carbonate alteration. Strong carbonate alteration. Stronger alteration may be due to shearing / dyke contact.																			
				MINERALIZATION: 4-5% Py disseminated, along fractures and in irregular masses. Less. <1% sphalerite + minor galena. Sphalerite having red-brown colo predominantly within white carbonate stringers.																			
				STRUCTURE: Trace blue-grey quartz stringers to 2 mm. Interval dominated by a 10-15° CA white to grey carbonate stringer zone 10-15 cm wide.																			
P	288.13	291.55	DQCA	4	M										M					M			
				LITHOLOGY: light greenish-grey to greenish-grey to dark grey groundmass. 15% < 1 mm plagioclase laths + prisms. Pervasive calcite amygdules to 2 mm. Pervasive quartz amygdules.																			
				ALTERATION: Pervasive sericite - carb alt. Strong reaction to HCl.																			
				STRUCTURE: Colour banding (flow banding ?) 15-35° CA. Upper contact irregular at ~45° CA. Lower contact sharp ~55° CA.																			
P	291.55	293.3	PPHM	4	M-S			Tr	7						M			VW	W				
				LITHOLOGY: light greenish-grey to dark blue-green altered fsp porp rhyolite above dyke.																			
				ALTERATION: pervasive sericite - carbonate. Core of blue-green colour reversion.																			
				MINERALIZATION: 7% medium disem. Py. Some 1 mm stage 1 irregular veins. Trace Cp (rim) carbonate stringer zone. Carbonate post-date Cu min. adjacent to																			

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: G. ALLEN
Date: AUG. 29

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.	
				STRUCTURE: 291.69 - 292.2 - White carbonate stringer zone subparallel to CA.																				
P	293.3	298.6	PBRM	4	M				7						M			VW		W				
				LITHOLOGY: Mottled light grey to medium pinkish to brownish-grey fragmental rock. Rounded to subangular aphanitic to feldspar phyric fragments to 5cm (average 1cm). Proportion ~60%. F-G fsp phyric groundmass (devitrification)																					
				ALTERATION: Pervasive sericite-carbonate alteration. Only weak reaction to HCl. Somewhat harder than previous interval (more silicious).																					
				MINERALIZATION: 7% pyrite disseminated in groups to 5mm in breccia matrix.																					
				STRUCTURE: White carbonate stringers at 40° CA. Average ~1cm wide. Minor blue-grey quartz in crush zones.																					
P	298.6	302.14	PPHM ?	4	M				5						M					W				
				LITHOLOGY: Relatively homogeneous medium pinkish-grey fine-grained feldspar phyric "plutonic". Could be late phase except colour a bit dark.																					
				ALTERATION: Pervasive sericite + weak carbonate																					
				MINERALIZATION: 5% pyrite disseminated pyrite																					
				STRUCTURE: White carb-flooded breccia zone + stringers to 2cm 60° to 30° CA.																					

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: G. ALLEN
Date: AUG. 29

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	302.14	303.1	FAUL	4	M				7					M				M	M			

LITHOLOGY: 302.14 - 302.4 - Sheared dark grey firm clay gouge 15°CA. rest of interval greenish altered PPHM.

MINERALIZATION: 7% PY predom dissem but also in masses to 4 mm.

STRUCTURE: Upper shear 15°CA.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	303.1	306.93	VSED					T	5-7									M	M			

LITHOLOGY: Medium grey to brownish-grey cherty volcanic sediments. Siliceous. Most of interval shattered & recemented with white calcite.

MINERALIZATION: 5-7% f-g pyrite predominantly interstitial to fragments. Trace CP mixed with pyrite.

STRUCTURE: 304 m - somewhat stepped offset (from fractures) bedding 30°CA. Pervasive white to grey carbonate flooding weak breccia zones through. Carb stringers 60-80° CA.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	306.93	307.60	FAUL						8													

LITHOLOGY: Mylonite with dark grey to black gougy matrix and rounded lithic fragments of grey to green aphanitic to feldspar phyric plutonic & sediment mix.

MIN: 8% f-g dissem PY predom in matrix.
STRUCTURE: Upper & lower contacts sharp at 25°CA.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: G. ALLEN
Date: AUG. 29

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
P	307.6	311.72	PPHM	4	M			T	4					M			T	VW	W-M			

LITHOLOGY: light to medium blueish to greenish - grey fine - grained feldspar phyric plutonic. Texture largely obscured due to alteration and shearing. Megascopically the rock looks competent but microscopic shearing apparent in groundmass some fragmental sections.

ALTERATION: Pervasive sericite - carbonate alt. Strong reaction to HCl.

MINERALIZATION: 4% PY predom disem. Minor fracture - controlled PY. Trace CP along bedding fracture + with small quartz stringers <1mm wide.

| P | 311.72 | 315.37 | VSBD | 4 | W | | | T | 4 | | | | | W | | | T | W | W-M | | | |

LITHOLOGY: Pinkish - brownish - grey, cherty, thinly laminated to massive volcanic sediment. Shattered + bleached with white carbonate 5-10%.

MINERALIZATION: 4% PY predom disseminated bedded along fractures. Trace dark brown sphalerite + chalcopyrite with carbonate stringers + coatings on fractures.

STRUCTURE: 5-10% white carbonate flooded breccia zones + bedding stringers <1mm thick. Stringers 60-80° CA. Bedding / banding 60° CA.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: _____
Date: _____

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Mineralization SL	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
P	315.37	319.62	VSED ?	4	M				5						M					VN			

LITHOLOGY: Relatively homogeneous mottled grey to pinkish - brown f-g aggregate of feldspar + ? Contacts with clasty sediments not distinct ∴ assumed to be a silty to sandy volcanic sediment, but could be an altered plutonic.

ALTERATION: Pervasive silicic - carbonate.

MINERALIZATION: 5-7% f-g disseminated pyrite. Minor fracture-related PY.

STRUCTURE: Noticeably less carbonate than in adjacent intervals. 1 mm to 1 cm white carbonate stringers 70-90° CA.

| P | 319.62 | 339.6 | VSED | 4 | W | | | <0.3 | 5 | | | T | | | | | | | W | W | | | |

LITHOLOGY: Mottled pale to dark grey, greenish-grey, brownish-grey massive to finely laminated clasty sediment. Minor brecciated (primary?) intervals. Some intervals have irregular smooth shaped contact patches to 10 cm diameter (fragments?) which are probably due to some sort of diagenesis. Spherules to 1 cm are also common. They generally have cores of pyrite, surrounded by calcite + minerals with pyrite. Again, these may be spherules or concretions.

ALTERATION: Most of the interval is quite siliceous. When the rock can be scratched some rocks with HCl + some does not.

MINERALIZATION: 5% PY; disseminated, along fractures or as irregular masses f-g pyrite to 1 cm. Pyrite also typically specifically replacing specific beds.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: G. ALLEN
Date: AUG. 29

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				MINERALIZATION (CONT'D): Minor sphalerite (dark brown) generally with carbonate stringers + along fractures. Traces of chalcopyrite with pyrite at the cores of some spherules + along fractures with calcite.																			
				STRUCTURE: Banding / bedding consistently 50-55° CA. Calcite flooding on 10-20cm crush zones + minor stringers to 1cm 20-30° CA and parallel bedding.																			
	339.6	340.46	FAUL						5														S
				LITHOLOGY: Highly fractured sheared zone of volcanic sediments. Cherty frags. Sheared 80° CA. Gouge to 2cm. 5% PY predom disseminated but some on fractures + in stringers subparallel CA.																			
	340.46	343.43	PPHM ?	4	M				4						M					W-M			
				LITHOLOGY: Pale to medium green f-g mod soft groundmass with 20% stubby subhedral plag phenos (green, waxy) to 2 mm. Homogeneous.																			
				ALTERATION: Sericite - carbonate. Strong reaction to HCl.																			
				MINERALIZATION: 4% - 5% pyrite disseminated, generally replacing plag phenos. Traces dark brown sphalerite with carbonate stringers.																			
				STRUCTURE: White carb stgs to 1cm ~ 5%. 30-60° CA.																			

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 191
Logged By: G. ALLEN
Date: AUG. 29

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	SL	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	343.48	347.7	VSED					T	5			T						T	W	W			

LITHOLOGY:
Light to medium pinkish to brownish-grey predominantly massive cherty volcanic sediment. Very hard.

ALTERATION: Silicified ?

MINERALIZATION: 5% pyrite; disseminated and along fractures. Minor dark brown sphalerite associated with PY + calcite stringers. Traces CP in very small quartz stringers (< 1 mm).

STRUCTURE: 5% white calcite in 1 mm stringers 80° CA and in stringers to 1 cm 40-70° CA. Lower contact sharp along shear 60° CA.
347.2-347.7 - Carbonate healed breccia. 40% matrix. Lithic frags to 2 cm.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	SL	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	347.7	349.61	VOLC	5	M	4?	M		3-4										VW	W			

LITHOLOGY: Medium greenish-grey f-g groundmass with 20% 1-2 mm stubby to prism shaped subhedral light grey plag. phenos. 15% stubby black phenos to 2 mm. Generally subhedral "squarish" in cross-section. Probably augite. Homogeneous. Could be volcanic or possibly a dyke.

ALTERATION: Greenish colour probably largely due to chlorite. Groundmass reacts strongly to cold HCl where scratched.

MINERALIZATION: 3-4% PY disseminated, but generally replacing mafic phenos. Minor PY along fractures.
STRUCTURE: <5% white calcite to 1 cm 40-70° CA.

349.61 E.O.H.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 192

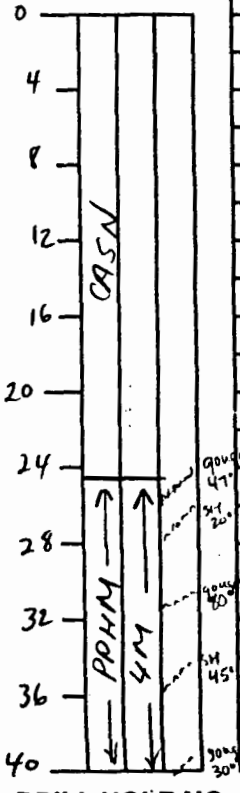
AMERICAN BULLION MINERALS LTD.

Location Sketch

Grid Northing (m):	99200 N	Date Started:	Aug 25/95
Grid Easting (m):	49100 E	Date Completed:	Aug 28/95
Elevation (m):		Logged By:	T. Fraser
Total Length (m):	361.49 m	Date Logged:	Aug 26/95
Casing Depth (m):	24.38	Data Entry:	
Reduction Depth:	—	Entry Date:	
Collar Core Size:	NQ	Casing (In/Out):	recovered 12.19 m lost 12.19 m

Survey	Depth	Azimuth	Dip
SS	191.1	181.5	-61°
SS	343.5	181.5	-62°

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	0	24.38	CASN																				
	24.38	56.00	PPHM	4	M	—	—	0.7	3	0	0		0	0	S	0	0	Ws	M	W	0	0	W

Lithology - Main Phase plagioclase hornblende porphyry which is buff to light orange in colour. Locally the unit is light grey. Plagioclase phenos are locally prominant with approximately 35-40% subhedral pale green, 1-3mm. Hornblende phenos are rare but may approach 8-10% euhedral beige tabular phenos (1-4mm).

Alteration/mineralization - Plagioclase phenos are moderately to strongly sericitized. Hornblende phenos are sericite-carbonate altered. The groundmass is also moderately to strongly sericitized. The lithology is weakly to moderately mineralized with chalcopyrite - dominantly finely disseminated. Quartz veins contain disseminated pyrite and locally chalcopyrite. Pyrite is disseminated and also in weak to moderate to strong pyrite veins. Locally the unit is hematite stained. Weak carbonate veins.

Structure - 24.60 - 24.65m gouge 47° to C.A.
27.05m shear/gouge @ 20°
31.27 - 31.28m gouge 80°
32.40m gouge
35.36m gouge / shear 45° to C.A.
40.33m gouge seam 30°

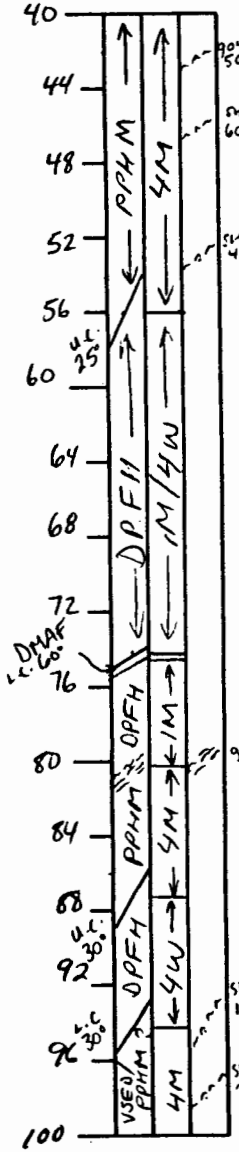
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 192
Logged By: T. Fluer
Date: Aug 26/95

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alt. Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				42.65 - 42.73 m							50°											
				46.63 - 46.67 m									60° to C.A.									
				46.97 - 47.00 m																		
				50.73 - 50.75																		
				53.65 - 53.70 m						45°												
				54.85 - 54.97																		
				55.40 - 55.50 m							1%Hm											
			C	56.00 m		NFH		upper contact @ 25° to C.A.														
	56.00	73.97	DPFH	1	M	4	W	<0.3	0.5	0	TR	0	W	M	0	0	TR	0	W	0	0	W

Lithology - Non-hi[illegible] quartz crystal [illegible] fine grained [illegible] its colour is pale green. Th[illegible] is [illegible] rounded [illegible] pheno[illegible] range/pale brown to dark brown. Light red Hornblende [illegible] are [illegible] in a [illegible] and consist of approximately 12-15% [illegible] <1mm - 4mm phenos. Hornblende pheno[illegible] in colour from brown/black to green. Plagioclase [illegible] white to [illegible] 30-35% subhedral (2-3mm). The plagioclase phenos are usually [illegible] and is opaque [illegible] [illegible] to dark [illegible]

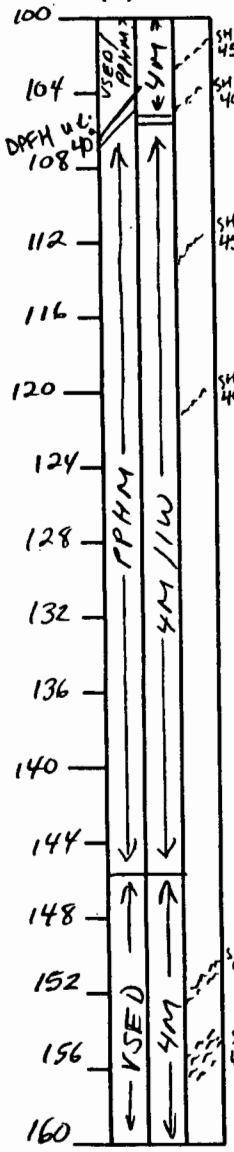
Alteration/Mineralization - Plagioclase phenos are moderately sericitized and locally [illegible] (usually orange). The groundmass is also sericite/Kspar altered. K-spar alteration is most [illegible] from approximately 64.00m downwards. Hornblende phenos vary from being carbonate-sericite altered to chlorite-sericite-pyrite altered. The K-spar alteration is pervasive. Trace to 1-2% finely disseminated hematite throughout. Pyrite is very finely disseminated. Weak carbonate veins and trace carbonate-quartz veins. Trace pink dolomite vein at a low angle to core axis. Patchy hematite staining [illegible] [illegible] to rocks which are only sericitized. Trace quartz-pyrite veins.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 192
Logged By: T. Fraser
Date: Aug. 26/95



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				Structure - 57.00 - 57.13 brecciated carbonate/pink dolomite vein																		
				62.50 - 62.65m DQCA. U.C. 70°, L.C. 60°																		
	73.97	74.95	DMAF	-	-	-	-	-	-	-	-	-	-	W	-	-	-	-	vW	-	-	-

Lithology - This unit is dark reddish brown to brown in colour. It is fresh and postmineral. The lithology is only cut by very weak to trace white carbonate veinlets. The unit is distinctive since it has approximately 8-10% large pale green pyroxene phenocrysts. Pyroxene phenos are subhedral and vary in size from 1x1 mm to 1cm x 8mm. Pyroxene phenos appear to be uralitic + chlorite (?) altered. There is approximately 3-5% 1-2mm black biotite phenos. The groundmass is aphanitic and reddish brown.

The upper contact is irregular (but at a high ang to the core axis). The Lower contact is @ 60° to C.A.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	74.95	80.05	DPFH	1	M	-	-	<0.3	0.5	0	TR	0	M	M	0	0	TR	TR	TR	0	0	W

Lithology - same as interval 56.00 - 73.97 m but the unit is entirely dark reddish brown. Hornblendes are trachytic ~40° (probable parallel to the contact).

Alteration/Mineralization - same as interval 56.00 - 73.97 but the groundmass is moderately potassic altered (interstitial Kspar). Trace to 1-2% finely disseminated hematite (red/brown). Trace white carbonate veins. Trace to weak pyrite veinlets - Pyrite is finely disseminated. Trace carbonate + qtz veins. Locally plagioclase phenos are hematite stained.

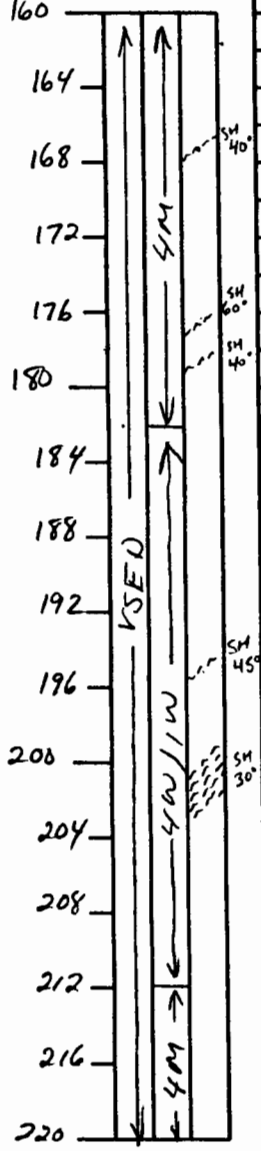
Structure - none

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 192
Logged By: T. Fraser
Date: Aug 27/95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	80.05	87.62	PPHM	4	M	–	–	0.4	1.5	0	0	0	0	M	0	0	Ws	W	W	0	0	M

Lithology – same as interval 24.38 – 56.00 m.

Alteration/Mineralization – The unit is locally hematite stained, imparting a pale orange to some of the lithology which is otherwise moderately sericitized and pale green. Plagioclase phenos are weakly to moderately sericitized. Hornblende phenos are buff coloured – probably sericite – moderately altered. The groundmass is sericitized moderately. Pyrite is finely disseminated. Moderate white carbonate veins cut the lithology. Quartz veins contain disseminated fine grained pyrite and chalcopyrite while some qtz stringers contain only pyrite. Pyrite veinlets are weak. Disseminated by pyrite > vein pyrite.

Structure – 80.05 – 80.80 m gouge – marks the upper contact of the PPHM unit
81.65 m + 2cm gouge / shear
87.47 – 87.50 gouge
87.50 – 87.74 DMAF dike with an upper contact marked by gouge @ 60°. The lower contact is @ 30°.
@ 87.62 m the upper contact of DPFH is approximately 30°.

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	87.62	94.30	DPFH	4	W	–	–	<0.3	0.5	0	TR	0	0	M	0	0	0	0	W	0	0	0

Lithology – The dike changes colours dramatically from buff to light orange to light brown. The unit is highly porphyritic, with subhedral plagioclase phenos comprising approximately 40%. Plagioclase phenos are visibly zoned and range from 1mm – 6mm. Phenos range in colour from pale green to light orange. Hornblende phenos comprise 12-15% <1mm – 6mm euhedral phenos (one are tan coloured to pale green. The groundmass is aphanitic.

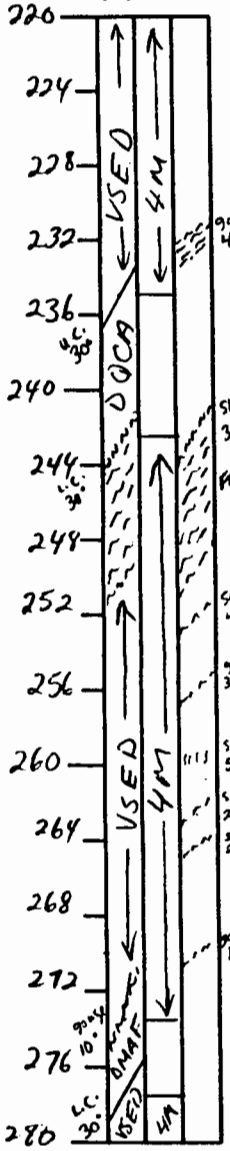
Alteration/Mineralization – The dike is generally considered to be post-mineral

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 192
Logged By: I. Fraser
Date: Aug 27/95



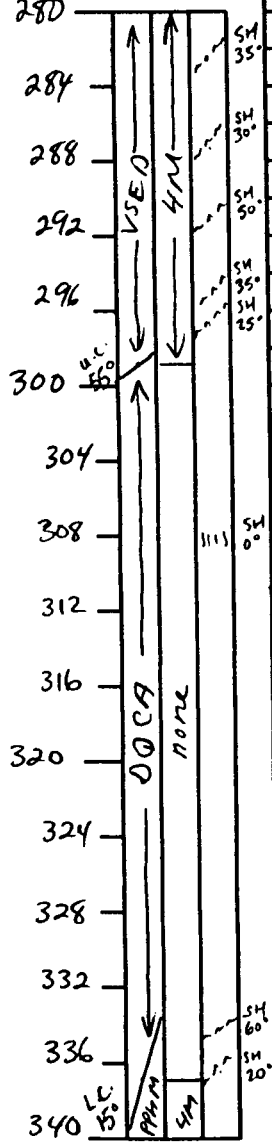
P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.	
				but is locally hematite stained and contains finely disseminated pyrite. The unit is cut by a number of white to pale pink carbonate veins. Plagioclase phenos are weakly sericitized and locally hematite stained. Hornblende phenos are sericite-carbonate altered. There are trace carbonate-sphalerite veins and locally 1% disseminated hematite.																		
				Structure – @ 94.30 m lower contact of DPFH @ 30°																			
	94.30	105.30	VSED/ PHM?	4	M	–	–	0.7	3	0	0	0	0	5	0	0	Ws	TR	TR	0	0	W	
				Lithology – This unit cannot be placed into the intrusive or volcanic ordeorgy definitively. It tends to illustrate features of both. The lithology is generally buff to pale green and very locally orange. Locally the unit shows a porphyritic texture with plagioclase dominating (approximately 30%) and trace to 5% mafics. These intervals appear to be sericitized Main Phase intrusive. However, the majority of the unit appears to be texturless and locally fragmental. These intervals are suspect VSED's and/or tuffs. Basically this interval is mixed up and somewhat sheared/altered																		
				Alteration/Mineralization – Finely disseminated pyrite is throughout the unit along with trace pyrite veinlets. Weak quartz stringers/veins contain disseminated pyrite-chalcopyrite or just pyrite alone. There are trace carbonate-sphalerite-galena-chalcopyrite veins. Locally the unit is hematite stained. Chalcopyrite is locally disseminated and blebby. The unit appears to be strongly sericitized (including plagioclase phenos and groundmass). Trace white carbonate veins.																		
				Structure – 94.86 Shear 10° 98.00 Shear 35° 102.00 Shear 45° 105.18 – 105.30 m Shear 40°																		

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 192
Logged By: T. Fraser
Date: Aug 27/95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				@	105.30	m	the upper contact of the DPFH dike is @ 40° to core axis.																
	105.30	106.30	DPFH	—	—	—	—	—	0.5	0	0	0	0	M	0	0	0	TR	TR	0	0	—

Lithology - The unit is a buff to light green coloured DPFH dike (or possibly a highly porphyritic DMAF?). The groundmass is tan/buff coloured. Plagioclase phenos are quite prominant and comprise 30-35%. Plagioclase phenos are subhedral and tan coloured. Locally plagioclase phenos are light/medium green and highly altered. Hornblende phenocrysts probably account for 5-10% but their colour is identical to that of plagioclase but they are euhedral. Phenocryst size for both varies from <1mm - 4mm.

Alteration/Mineralogy - The dike is cut by a number of white carbonate veins (trace). Pyrite is finely disseminated throughout and there are trace pyrite veinlets. Plagioclase phenos are weakly to locally strongly sericite altered. Hornblende phenos are carbonate-sericite altered.

Structure - none

	106.30	145.60	PPHM	4	M	1	W	0.8	3.5	0	TR	0	0	M	0	TR	Ws	W	W	0	0	W

Lithology - same as interval 24.38 - 56.00 m.

Alteration/Mineralization - The unit displays weak to moderate sericite-qtz-carbonate-pyrite alteration. Plagioclase phenos are pale green and are weakly to moderately sericitized. The groundmass is sericitized and locally displays very weak orange hematite staining. Fine grained disseminated pyrite is throughout. There are weak pyrite veinlets. Quartz veins contain disseminated pyrite and locally white carbonate/chalcopyrite. Locally chalcopyrite is blebby. Weak carbonate veins cut the unit. Trace disseminate 1mm

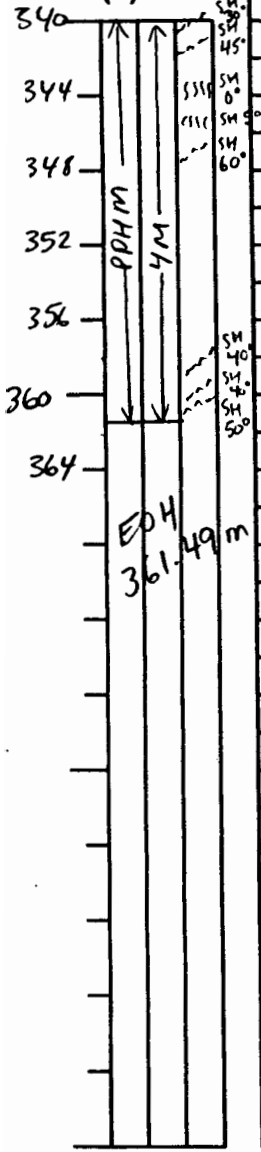
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 192
Logged By: T. Fraser
Date: Aug 27/95

Graphic Log (m)



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

rosettes of black tourmaline. Trace carbonate-sphalerite-galena veins. Trace disseminated red hematite. From approximately 139 m - 145.0 m the unit contains weak kspar envelopes around qtz-pyrite ± CPY veins.

Structure - 112.07 - 112.48 m gouge/shear @ 45°
120.98 - 121.02 m gouge.
121.32 m shear 40°.
124.45 - 125.10 m PBRM.
133.65 - 133.70 shear/carbonate veining

@ 145.60 m the upper contact of the VSED unit - somewhat gradational.

	145.60	182.00	VSED	4	M	–	–	0.6	4	O	TR		O	O	M	O	O	Ws	W	W	O	TR	M

Lithology - The unit varies in colour from pale green to buff. The dominant colour is buff/tan. The lithology is fine grained to locally aphanitic. Most of the rock lacks any texture whatsoever. Buff/tan areas appear to be a fine grained tuffaceous material and/or volcanic sediments with a slight granular appearance. Locally the unit may be plagioclase porphyritic - with approximately 10-15% 1mm sized altered plagioclase phenos. Locally the unit is fragmental (clast supported with 40% rounded to subrounded volcanic fragments).

Alteration/Mineralization - Pyrite is dominant sulfide mineral throughout. Commonly it is blebby, although it may be fine grained. Disseminated pyrite >> veinlet pyrite. Pyrite veins are sparse and very thin. Trace disseminated chalcopyrite. Quartz stringers are generally narrow (1mm - 4mm) and contain disseminated pyrite and chalcopyrite (in trace amounts).

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 192
Logged By: I. Fraser
Date: Aug 27/95

Graphic Log (m)

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

Trace carbonate - sphalerite - galena and carbonate - qtz - sphalerite veins. Trace red hematite veinlets. Weak to trace white carbonate veins cut the unit. Trace carbonate - sphalerite - galena - blebby chalcopyrite veins. The unit appears moderately sericitized throughout.

Structure - 151.42 m shear with gouge 45°
151.65 - 151.93 m gouge / shear @ 50° to C.A.
154.72 - 156.34 m shear 40-50° to C.A.
159.23 - 159.40 shear 35° to C.A.
165.65 - 165.70 m gouge
167.64 - 167.82 m shear with gouge 40°
171.65 - 171.80 m carbonate vein 40°
174.92 - 175.17 broken rock with gouge
176.75 - 177.20 shear / gouge @ 60°
178.85 m shear / gouge 40°
180.55 - 180.70 m gouge.

	182.00	212.00	VSED	4	W	1	W	0	6	4	0	TR	0	W	W	0	0	vW	TR	vW	0	TR	W	

Lithology - The unit has gradational contacts with the volcanic unit above and below it. The lithology is a medium coloured orange to tan / light brown. This unit is distinctive because it is noticeably fragmental. Fragments are subrounded and generally consist of aphanitic / v. fine grained volcanic wacke / siltstones which are similar in appearance to clasts in the volcanic unit lying above it. Some of the buff coloured clasts are laminated on a mm-scale. Locally some clasts appear to be cherty and light grey in colour. The unit is clast-supported (approximately 45-50% fragments). The matrix appears granular and contains fine grained plagioclase / broken crystals. The unit appears clastic.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 192
Logged By: T. Fraser
Date: Aug 27/95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				Alteration/Mineralization - There is patchy Kspar alteration throughout the matrix. Some clasts are intensely potassic (stain exceptionally well). Locally also, the unit is hematite stained (the majority of orange colour is probably due to Kspar alteration). Pyrite is blebby throughout and finely disseminated. The intensity of pyrite veinlets varies from trace to weak stringers. Trace to very weak quartz-carbonate-pyrite-chalcopyrite veins. Trace hematite veins. Very weak to trace white carbonate veins throughout. Trace carbonate-chalcopyrite veins. Trace disseminated chalcopyrite.															
				Structure - 189.45 - 190.0 m broken w gouge.																		
				195.10 m gouge/shear																		
				195.50 shear @ 45°																		
				199.62 - 200.05 m broken/minor gouge																		
				200.43 - 202.65 shear/gouge zone @ 30° to C.A.																		
	212.00	235.33	VSED	4	M	-	-	0.3	3	0	TR	0	0	M	0	0	TR	W	W	0	TR	W
				Lithology - same as interval 145.60 - 182.00 m																			
				Alteration/Mineralization - same as interval 145.60 - 182.00 m but there are only trace qtz stringers containing white carbonate and pyrite. Pyrite is finely disseminated. Trace disseminated chalcopyrite. Trace wkd hematite veinlets. Weak white carbonate veins throughout. Weak to locally moderate intensity pyrite veinlets.															
				Structure - 221.20 - 221.52 m broken and gouged																		
				221.60 - 222.0 fragmental.																		

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 192
Logged By: T. Fraser
Date: Aug 27/95

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				222.0 - 222.50 m broken and minor gouse																		
				227.69 - 228.0 m carbonate - quartz breccia																		
				231.85 - 233.30 m broken/gouged rock @ 40°																		
				@ 235.33 m upper contact DQCA dike @ 30°																		
	235.33	242.18	DQCA	—	—	—	—	<0.2	0.5	0	0	0	0	0	0	0	0	TR	M	0	0	M
			Lithology - Buff to light brown aphanitic to granular textured DQCA dike. There are no phenocrysts but the unit contains qtz-carbonate filled and carbonate-pyrite filled amygdules which vary in size from 1mm - 1.5cm. The unit has approximately 3-5% amygdules. The dike is cut by moderate carbonate and carbonate-pyrite veins approximately parallel to the core axis. Trace pyrite veinlets and trace disseminated pyrite.																	
			Structure - none.																			
	242.18	250.20	FAUL	4	M	—	—	TR	2	0	0	0	0	M	W	0	TR	0	0	0	0	S
			Lithology - The rock type which is highly sheared is somewhat ambiguous. Fragments appear to be both VSED and Main Phase plagioclase hornblende porphyry. (PPHP). The fragments are moderately to strongly sericitized and primary texture is obscured locally. Fragments are generally lozenge shaped/elongated. The matrix material is a combination of rock flour/clay/sericite and gouge. Shears throughout are approximately 30°. Trace disseminated/blobby chalcopyrite. Pyrite is finely disseminated throughout. Trace silicified areas/qtz stringers.																	
			Structure - Shears 30° to C.A.																			
			Upper contact FAUL @ 242.18 m @ 30° to C.A.																			
			Lower contact FAUL @ 250.20 m @ 50° to C.A.																			

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 192
Logged By: J. Fraser
Date: Aug 28/95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alt. Int.	Alt. Typ	Alt. Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	250.20	273.80	VSED	4	M	–	–	0.5	5	0	0	0	0	M	0	0	TR	W	W	0	0	M

Lithology - same as interval 145.60 - 182.00 m but the unit is finely laminated on a mm-scale with disseminated pyrite along bedding planes. The unit appears fragmental in places with approximately 30 @ 45% rounded to subrounded grey chert/jade (especially the interval from 264.70 - 269.10 m). Most of the interval is very fine grained to aphanitic but locally has a granular texture. Laminated areas have bedding/banding at approximately 30-35° to core axis.

Alteration/Mineralization - same as interval 145.60 - 182.00 m, but there are trace qtz veins which carry disseminated chalcopyrite - pyrite and locally white carbonate. Pyrite is dominantly finely disseminated to blebby. Disseminated pyrite >> pyrite veinlets. Trace disseminated chalcopyrite. Trace quartz - pyrite veins. This interval does not contain carbonate - sphalerite + galena veins as in interval 145.60 - 182.00 m.

Structure - 253.35 - 253.64 m breccia
253.64 gouge 40° to C.A.
257.25 m gouge 35°
260.50 - 260.70 m Shear 5° to C.A.
263.35 m shear 20° to C.A.
264.0 - 264.23 m shear with minor gouge 20° to C.A.
270.75 - 270.83 m gouge/breccia 15° to C.A.

	273.80	277.10	DMAF	–	–	–	–	–	–	–	TR	–	–	–	–	–	–	–	M	O	TR	–

Lithology - the dike is tan to dark brown in colour with an aphanitic to slightly granular textured matrix. Phenocrysts consist of prominant pyroxene and occassional plagioclase. Pyroxene phenos are 1mm - 6mm, euhedral and are approximately 15-20% in abundance. Pyroxene phenos are buff to light green in colour and have a shreddy texture. Plagioclase phenos average

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 192
Logged By: I. Fraser
Date: Aug 28/95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				1-2 mm and are sub to subhedral approximately 3-5% and are slightly sericitized. Red hematite is disseminated locally. The site is cut by moderate carbonate veins, some of which contain trace amounts of red hematite.																			
				Structure - 274.21 - 274.36 m broken.																		
				276.05 - 276.20 m broken/sheared.																		
				@ 273.80 m upper contact of DMAF is marked by gouge 10° to C.A.																		
				@ 277.10 m lower contact of DMAF is @ 30°.																		
	277.10	298.70	VSED	4	M	-	-	0.5	5	0	0		0	0	M	0	0	Ws	W	W	0	0	M
				Lithology - same as interval 145.60 - 182.00 m and 250.20 - 273.80 m																		
				Alteration/Mineralization - same as interval 145.60 - 182.00 m and 250.20 - 273.80 m, but weak quartz stringers contain white carbonate - pyrite and occasionally chalcopyrite. Trace disseminated chalcopyrite. Weak carbonate veins. Pyrite is disseminated and > veinlet pyrite.																	
				Structure - 282.80 m shear with gouge 35°																		
				287.75 m gouge 30°																		
				286.38 - 286.50 m breccia																		
				291.59 shear 50°																		
				295.30 m 2 cm gouge/shear 35°																		
				297.20 - 297.28 shear 25°																		
				298.40 - 298.70 m shear with gouge (to dike contact).																		
				@ 298.70 m upper contact DOCA dike @ 55°.																		

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 192
Logged By: T. Fraser
Date: Aug 28/95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	298.70	336.70	DQCA	—	—	—	—	—	0.5	—	—	—	—	—	—	—	—	TR	M	—	—	W

Lithology - Buff to pale grey, generally aphanitic DQCA dike. The unit is fine grained and locally has a granular/sugary texture. From the upper contact 298.70 - 302 m the unit contains 30% fine subhedral grey plagioclase phenos approximately 1-2 mm in length. From 302 m - 304.50 m the unit is aphyric and contains 3-10% subrounded 1mm - 4mm quartz-carbonate filled amygdules. 304.50 - 309.0 m, the lithology is characterized by 1-2 mm grey lath-shaped plagioclase phenos and an aphanitic groundmass. 309.0 m - 321.0 m the dike is generally aphyric and has no more than 2-3% white (carbonate) amygdules. 321.6 m - 327.0 m the DQCA dike has irregular 1mm sized white (carbonate) amygdules and 3-5% (probably plagioclase) phenos averaging <1mm. Amygdules average 15-30% and are <1-2 mm in diameter. 327.0 - lower contact 336.70 m the dike contains 5-10% flattened to subrounded/elongated white carbonate ± pyrite filled amygdules.

Alteration/Mineralization - Finely disseminated pyrite throughout along with trace pyrite veins. White carbonate veins cut the unit from weak to moderate intensity.

Structure - 308.90 - 309.33 gouge 0° to C.A.
312.55 - 312.65 m carbonate breccia 20° to C.A.
315.45 - 315.92 carbonate brecciated DQCA
322.50 - 322.53 carbonate brecciated vein.
334.63 m shear 60° to C.A.
@ 336.70 m lower contact DQCA 15 @ 15°.

	336.70	361.49	PPHM	4	M	—	—	0.5	5	0	0	0	0	M	0	0	VWS	W	TR (gypsum)	W	0	M

Lithology - same as interval 24.38 - 56.00 m

Alteration/Mineralization - Same as interval 24.38 - 56.00 m. Pyrite is finely

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 192
Logged By: I. Fraser
Date: Aug 28/95

Graphic Log (m)

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

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 193

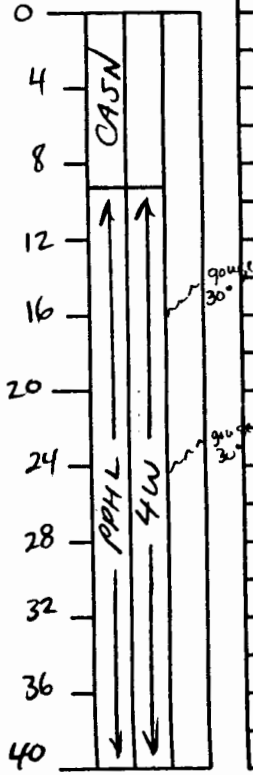
AMERICAN BULLION MINERALS LTD.

Location Sketch — 4 NN

Grid Northing (m):	99300N	Date Started:	Aug 28/95
Grid Easting (m):	48700 E	Date Completed:	Aug 31/95
Elevation (m):		Logged By:	T. Fraser
Total Length (m):	317.60 m	Date Logged:	Aug 29/95
Casing Depth (m):	73.15 m	Data Entry:	
Reduction Depth:	—	Entry Date:	
Collar Core Size:	NQ	Casing (In/Out):	Out

Survey	Depth	Azimuth	Dip
SS	157.6m	179.5°	-62°
SS	317.6	179.5°	-63.5°

Graphic Log (m)



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
	9.14	42.30	PPHL	4	W	-	-	<0.3	4	0	0	0	0	W	0	0	TR	TR	TR	0	0	S

Lithology - Buff to light grey Late Phase plagioclase hornblende porphyry. The groundmass appears light grey and looks silicified. Plagioclase and hornblende phenos comprise 45-55% by volume. Phenocrysts average <1 - 3 mm in length. Plagioclase phenos are lath shaped, sub to euhedral and are visibly zoned. The cores of plag phenos are grey and the outer margins are buff/cream coloured. Hornblende phenos have a shreddy texture and are entirely altered (buff/cream coloured). Since both phenocrysts have a similar colour/size, it is difficult to estimate percentages of each. Locally there are subrounded clasts which are textually and mineralogically identical to the host - suggesting that there may be small/limited sections of Late Phase breccia.

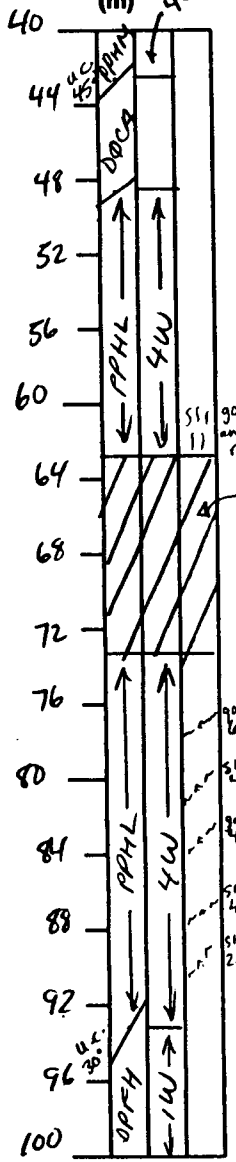
Alteration/Mineralization - Usually Late Phase rocks are phyllic altered and pale grey, but this unit appears to have prominant carbonate alteration and has been called alteration type #4. Both plagioclase and hornblende phenocrysts are moderately carbonate/ankerite altered and give a cream/buff colour to the minerals. The groundmass appears weakly sericitized and possibly silicified. Pyrite is finely disseminated throughout along with the occasional blob. Trace pyrite veinlets; trace qtz-pyrite veins and

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 193
Logged By: I. Fraser
Date: Aug. 29/95



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				trace carbonate / ankerite veinlets.																		
				Structure - 14.90 gouge																		
				15.60 m gouge seam 30°																		
				15.72 m gouge / shear																		
				17.20 - 17.37 m gouge																		
				23.92 m gouge seam 30°																		
				24.56 m gouge																		
				29.00 - 29.40 m gouge / broken																		
				30.50 - 31.50 broken and minor gouge																		
				33.35 - 35.66 m gouge, and poor core recovery																		
				35.90 m gouge																		
				36.30 - 38.70 m gouge and broken rock.																		
				38.74 - 38.89 m gouge / shear																		
				42.00 - 42.30 m shear / gouge																		
				@ 42.30 m Upper contact of DQCA @ 45° to core axis.																		
	42.30	48.50	DQCA	—	—	—	—	—	0.5	—	—	—	—	—	—	—	—	—	TR	TR (gypsum)	—	

Lithology - Tan to medium green aphanitic DQCA dike. The groundmass has a slight/weak granular texture. Generally the dike is massive, carrying approximately 3-5% 1mm - 1cm white carbonate - pale green gypsum filled amygdules, locally there is up to 15% 1-2 mm white carbonate filled amygdules. The largest amygdules are in the core of the dike from @ 44 - 46.0 meters. Smaller, more numerous amygdules are located from 46.0m - 48.50m (the lower portion of the dike). The upper contact is sheared and lower contact is broken (no angle measured).

Alteration / Mineralization - The dike has trace disseminated pyrite which is very

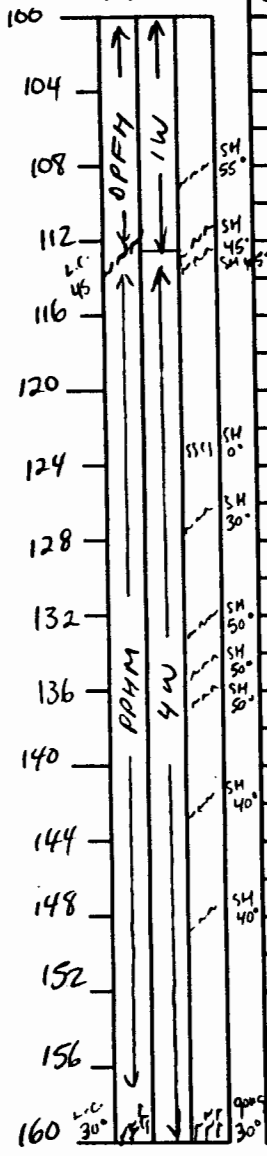
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 193
Logged By: T. Fraser
Date: Aug 29/95

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
			fine grained. The unit is cut by thin, trace white carbonate veinlets.																			
			Structure - 42.55m - 42.77m sheared DQCA near the upper contact @ 48.50 m broken lower DQCA contact, which has very weak flow banding probably parallel to the contact.																			
	48.50	93.10	PPHL	4	W	-	-	<0.3	4	0	0	0	0	M	0	0	0	TR	VW	(gyp) TR	0	M
			Lithology - Similar to interval 9.14 - 42.30m but the lithology varies from buff to pale orange to light green in colour. Late Phase plagioclase porphyry is heavily carbonate-sericite altered near the top but phenocryst compositions are visible down-hole. Plagioclase phenos are subhedral and light green (pale green) in colour. Plagioclase phenos are 1-5mm in diameter and comprise 30-35%. Hornblende phenos are less prominant and are approximately 1-2mm, beige in colour 5-8% by volume. The groundmass varies from buff to pale orange																				
			Alteration/Mineralization - the unit is locally hematite stained (pale orange). Plagioclase phenocrysts are moderately to weakly sericitized and may be locally carbonate altered (esp at the top). Hornblende phenos vary from green to buff in colour and are sericite-carbonate altered. Pyrite is finely disseminated throughout and locally blebby. There are trace pyrite veins and very weak to trace white carbonate veins. Trace white carbonate - orange gypsum veins.																				
			Structure - 51.05 - 51.27 m broken and minor gouge. 56.53 - 57.00 m gouge. 57.40 - 57.80 m broken with gouge. 60.53 - 63.09 m gouge and broken rock.																			

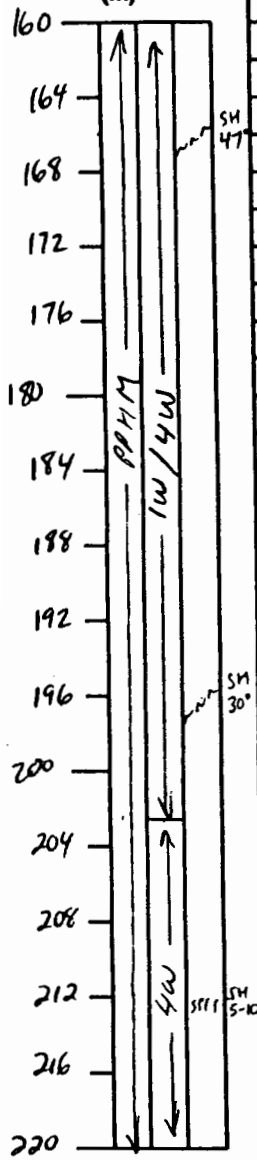
TRICONED from 63.09 - 73.15 (no core recovery)

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 193
Logged By: I Fraser
Date: Aug 30/95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				77.28 m gouge seam 60°																		
				80.68 m Shear @ 40°																		
				80.00 gouge																		
				83.21 m gouge 45°																		
				81.56 m gouge 40°																		
				84.40 - 84.48 m gouge																		
				85.30 - 85.35 DQFA dike																		
				87.43 - 87.48 m Shear / gouge 45°																		
				88.00 - 88.50 m section with ~12% blebby pyrite																		
				90.30 - 90.53 m Shear 20°																		
				@ 93.10 m upper contact of DPFH dike 30°																		
	93.10	112.85	DPFH	1	W	—	—	<0.3	3	0	2	TR	W	W	0	0	0	TR	W	0	0	W

Lithology - The plagioclase hornblende porphyry dike varies in colour from pale green (dominantly sericitized) to dark reddish brown (potassic). Plagioclase phenos are very dominant - the unit is highly porphyritic. Plag phenos are subhedral to locally euhedral, pale green and 1-3 mm in length. Most grains are somewhat lath-shaped. Plagioclase phenos comprise approximately 40-50%. Hornblende phenos are 5-10% and are generally euhedral and pale green. Hornblende phenos average 1-5mm.

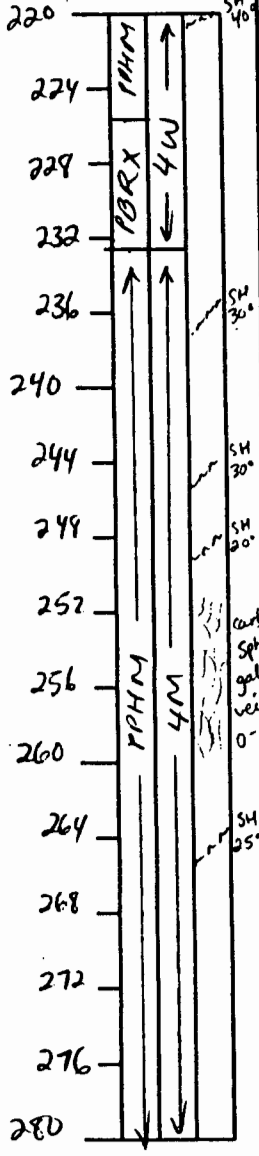
Alteration/Mineralization - Locally the dike is moderately potassic altered. Reddish brown K-spar alteration is interstitial/matrix alteration. In other sections, the matrix appears to be hematite stained along with plagioclase phenos. Plagioclase phenos are weakly sericitized and hornblende phenos appear to be chlorite - sericite - carbonate altered. The dike is cut by weak carbonate veins and trace carbonate - pyrite veins. Rare carbonate -

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 193
Logged By: T. Fraser
Date: Aug 30/95



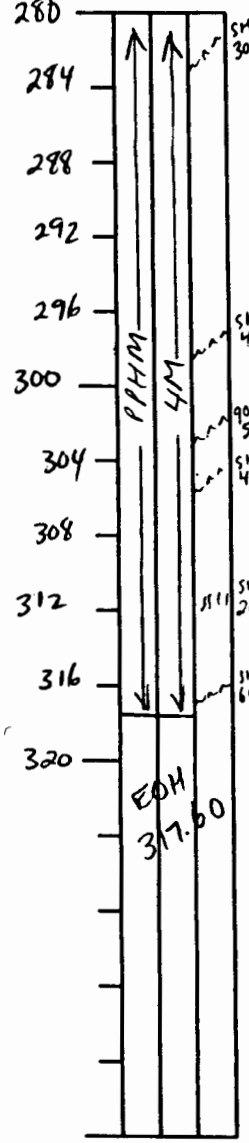
P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				Sphalerite veins. Pyrite is finely disseminated and there are trace pyrite veins.																		
				Structure - 108.56 m shear 2cm @ 55° to core axis.																		
				111.40 - 111.47 m gouge.																		
				@ 112.85 m lower contact DPFH @ 45°																		
	112.85	158.55	PPHM	4	W	-	-	0.4	3	0	TR	0	0	W	0	0	VW	TR	W	0	0	W
				Lithology - Very pale orange coloured Main Phase plagioclase hornblende porphyry. Plagioclase phenos are difficult to distinguish - they blend in with a light orange coloured groundmass since they are both weakly hematite stained. Plagioclase phenos generally appear to be subhedral to rounded in shape (approximately 2 mm diameter). Hornblende phenos are quite prominant and are cream to light green coloured. Hornblende comprises 8-12% by volume and average 1-3 mm euhedral to subhedral in shape. The unit could be hematite altered Late Phase since there are very few quartz stringers and minimal mineralization.																	
				Alteration/Mineralization - The lithology is weakly altered - dominantly hematite stained groundmass and plagioclase phenocrysts. There are weak to moderate white carbonate veins and trace pyrite veinlets. Pyrite tends to be finely disseminated. Trace quartz-pyrite-carbonate veins and trace quartz-pyrite-chalcopyrite veins. Trace disseminated chalcopyrite. Trace quartz-carbonate-pyrite-chalcopyrite veins. Mafics (hornblende) is carbonate-sericite altered ± pyrite. Trace disseminated hematite. Plagioclase phenos are weakly to moderately sericitized.																	

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 193
Logged By: T. Fraser
Date: Aug 31/95



PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
			Structure	- 112.85 - 113.07m Shear 45°																		
				113.40 - 114.18 m Shear/gouge @ 45°																		
				123.20 - 123.70 Shear // to C.A.																		
				126.23 - 126.60 DQCA LC. 60°, L.C. broken																		
				127.25 - 127.40 Shear/gouge @ 30°																		
				131.39 - 131.95 m DQCA Upper + lower contacts 60° to C.A.																		
				132.62 - 132.85m Shear 50-55°.																		
				135.49 - 135.58 DQCA / DMAF ?																		
				135.07 - 135.13 Shear 50°																		
				135.58 - 135.70 Shear 70°																		
				136.24 - 136.43 Shear 50°																		
				136.43 - 136.90 sheared DQCA																		
				137.10 shear/gouge																		
				138.0 - 138.13 Shear/gouge																		
				140.59 - 140.87 Shear with gouge																		
				142.60 m shear 40°																		
				148.81 m shear 40°																		
				151.41 m gouge																		
				153.60 - 153.87 m gouge																		
				154.30 - 154.53 broken																		
				157.33 - 157.48 gouge / broken core.																		
				C 158.55 - 158.80 m Shear/gouge @ 30° to C.A.																		
	158.55	202.65	PPHM	1	W	4	W	0.6	4	0	TR	0	M	W	0	0	TR	VW	VW	M	TR	W

Lithology - Dark reddish brown plagioclase hornblende porphyry - Main Phase. The unit is fine to medium grained and plagioclase phenos are subhedral, approximately 25-35%, 1-3 mm. Hornblende phenos are not very distinctive but probably comprise 5-8%, 1-2 mm euhedral to subhedral dark green phenos. The groundmass is aphanitic to fine grained.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 193
Logged By: T. Fraser
Date: Aug 31/95

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				Alteration/Mineralization - The unit is variably Kspar altered. Potassium feldspar alteration of the groundmass changes from weak to moderately strong (interstitial/matrix alteration). Pyrite is finely disseminated throughout. The most prominant feature of this unit is the moderate gypsum stockwork throughout. White carbonate veins are very weak to weak in intensity. There are trace quartz veins which carry carbonate-pyrite. Trace gypsum-carbonate veins. Trace disseminated red-brown hematite and trace hematite veins.																	
				Structure - 166.62 m shear @ 47°																		
				172.40 - 172.68 m DMAF 20° to C.A.																		
				175.14 - 175.87 m DQCA Upper contact 60°. Lower contact broken.																		
				175.97 - 176.05 DQCA with irregular contacts.																		
				183.58 - 183.76 DMAF @ 65°																		
				196.45 m shear 30°																		
				@ 202.65 m there is no gypsum stockwork, it is a gradational contact																		
	202.65	225.92	PPHIN	4	W	—	—	0.6	5	0	TR	O	O	M	O	O	Ws	W	W	O	O	W
				Lithology - Same as interval 158.55 - 202.65 m but the colour varies from pale green to medium orange colour. The description for the unit is as for the previous interval																		
				Alteration/Mineralization - The unit, unlike interval 158.55 - 202.65, is not pervasively altered. Instead the lithology is locally hematite stained. Pyrite is finely disseminated and also within weak pyritic stringers. There are trace carbonate-pyrite veins and quartz-pyrite veins. Locally there is blebby pyrite-chalcopyrite surrounded by pale grey quartz-sericite envelopes. Trace disseminated chalcopyrite and red-brown hematite.																	

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 193
Logged By: T. Fraser
Date: Aug 31/95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				Structure - 205.6 - 205.80 m Shear/broken																		
				211.10 - 212.14 m broken with gouge																		
				212.23 - 212.90 shear with gouge 5-10° to C.A.																		
				214.48 - 214.72 gouge / broken																		
				215.15 - 216.35 gouge / broken																		
				220.45 - 220.60 Shear 40°																		
				@ 225.92 m a gradational contact with PBRX.																		
	225.92	232.70	PBRX	4	W	-	-	0.6	12	0	0	0	TR?	W	0	0	W	TR	vW	0	0	M

Lithology - The unit is an undetermined breccia - possibly related to faulting by brittle means since the fragments are subangular to angular. The matrix appears to be a combination of blebby and fine grained pyrite, occasionally chalcopyrite and rock flour/grey quartz. The breccia does not seem to be porphyritic and doesn't look like either Late or Main Phase breccias. The unit is probably a tectonic breccia. Clasts are medium orange and these are set in a grey to whitish groundmass. Fragment percentage probably approaches 40-45%.

Alteration/mineralization - Fragments are variably hematite stained and may even have trace potassium feldspar alteration. Clasts contain disseminated pyrite. The matrix displays a high degree of disseminated and blebby pyrite along with trace blebby chalcopyrite. There are trace pyrite veins and weak quartz-pyrite veins. Very weak white carbonate veins cut the breccia. Portions of the clasts are weakly devitrified.

Structure - @ 232.70 m the lower contact is gradational with PPHM

DRILL HOLE NO. 95 - 193

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 193
Logged By: I. Fraser
Date: Aug 31/95

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
	232.70	317.60	PPHM	4	M	–	–	0.5	5	0	TR	0	0	M	0	0	Ws	M	W	0	0	W

Lithology – The unit is light green to pale orange Main Phase plagioclase hornblende (sph) porphyry. The majority of the interval has hematite stained plagioclase phenos, approximately 1-3 mm. Plagioclase phenos are subhedral to rounded, and comprise 35% by volume. Hornblende phenos are generally beige coloured, euhedral and comprise 8-10% of <1mm – 3mm. The groundmass is aphanitic and varies from light orange to light green.

Alteration/Mineralization – The unit is only weakly altered between 232.70-243 and 280 - 317.60 m but has moderate to quite strong silicification between 243-280 m. The lithology is strongly hematite stained but it tends to be patchy. About half of the pyrite veins have thin to 0.5 cm wide qtz ± sericite envelopes, grey in colour. Pyrite is also finely disseminated. Vein pyrite ≈ disseminated pyrite. Weak quartz stringers contain traces of white carbonate and disseminated pyrite (± CPY). Trace disseminated chalcopyrite. Trace disseminated red/brown hematite. There are generally traced to weak carbonate veins, but between 240 - 260 m white to light pink carbonate veins contain euhedral, brown sphalerite grains and galena. Also this area has strong sericite altered plagioclase.

Structure –
- 236.28 - 236.48 m shear/gouge 30-35°
- 244.60 - 244.80 m shear 30°
- 249.40 - 249.47 m gouge/shear 20°
- 252.07 - 253.10 carbonate - sphalerite - galena vein 10-20° to CA.
- 253.96 - 254.25 carbonate - sphalerite - galena (± qtz) vein
- 260.10 - 261.83 m carbonate - qtz - sphalerite - galena ± pyrite vein 0°-10° CA
- 261.83 - 261.90 m gouge/shear
- 264.95 shear 25° to CA.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 193
Logged By: T. Fraser
Date: Sept 1/95

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
					267.31-267.80 m broken																	
					282.20-283.55 m shear/carbonate vein 30°																	
					283.90-285.0 broken with gouge																	
					298.37 m shear 40°																	
					302.67-303.30 m shear with gouge 50°																	
					305.85 m shear 45°																	
					311.85 m shear 20°																	
					312.92 m shear 20°																	
					316.50-316.60 m gouge/shear 60°																	
					316.86-316.93 m gouge																	
	EOH @		317.60 m																			

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

DRILL HOLE NO. 95 - 194

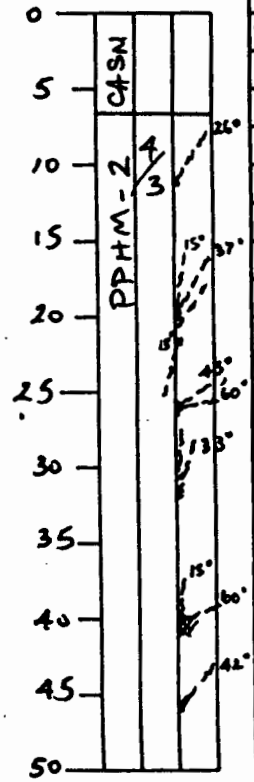
AMERICAN BULLION MINERALS LTD.

Location Sketch

Grid Northing (m):	99699	Date Started:	AUG. 29 (A.M.)
Grid Easting (m):	48500	Date Completed:	SEPT. 2 (A.M.)
Elevation (m):		Logged By:	G-ALLEN
Total Length (m):	391.97	Date Logged:	AUG. 30 - SEPT. 2
Casing Depth (m):	6.75	Data Entry:	
Reduction Depth:	—	Entry Date:	
Collar Core Size:	NQ	Casing (In/Out):	OUT

Survey	Depth	Azimuth	Dip
G.A.	COLLAR	OOD	-60
S.S.	152.4	008½	-61
"	381.00	*316½	-62½
* AZIMUTHS		SUSPECT	
MAGNETITE?			

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	SL	Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	0	6.75	CASN																				
P	6.75	69.63	PPHM-2	4	M	3	W	T	5			T			M			VW	W	W-M			W

LITHOLOGY: Mottled light to medium greenish to brownish - grey medium-grained plutonic. Fine-grained sericitic groundmass with 25% pale greenish-grey stubby euhedral to subhedral 1-2 mm feldspar phenocrysts. 15% 1-2 mm euhedral pinkish euhedral lathe + prisms of altered hornblende apparent sporadically.

ALTERATION: Pervasive sericite-carbonate alteration. Mod. reaction to HCl on scratched surface. Minor 1-2 mm dark clots sericite with pyrite.

MINERALIZATION: 5% predom dissem PY in 1-2 mm clots c̄ sericite. Traces CP + SL (dark red-brown) predominantly with quartz-carbonate stringers.

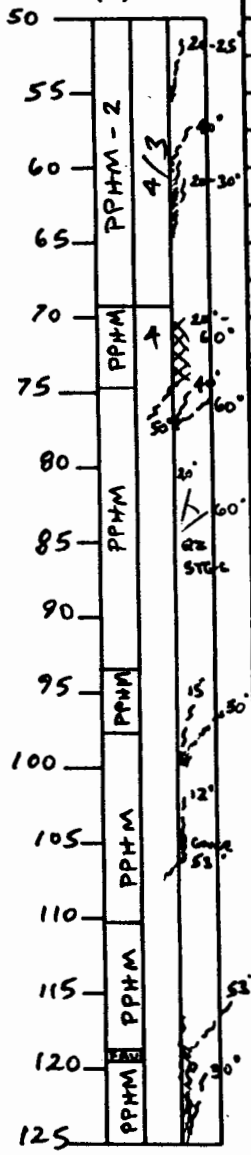
STRUCTURE: W-M white carbonate stockwork + minor breccia filling. Stringers generally ≤ 1 cm. Minor quartz stringers + quartz-carbonate stringers. Quartz + carb stringers appear to be following same fracture set. 30 + 60° CA 30° predom.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 194
Logged By: G. ALLEN
Date: AUG. 30



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bl	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.	
					12.65 - 12.85 - Minor crush / shear zone. Minor gouge														26° CA.				
					19.60 - 20.42 - "						"						Gouge. 37° CA. + 15° CA.			Calc flooded breccia.			
					21.13 - 21.6 - Shear zone + gouge - carbonate vein														15° CA.				
					25.73 - 26.3 - Weak fracture zone. Minor gouge shear														45-60° CA.				
					29.15 - 30.57 - FRACTURE ZONE - Minor gouge on shear														30° or subparallel CA.				(H:
					31.26 - 31.5 - " Shear 33° CA.																		
					39.2 - 41.76 - BLOCKY CORE. Fractured 15° - 60° CA.																		
					45.13 - 45.66 - Sheared blocky core 42° CA. Minor gouge																		
					54.7 - 56.17 - Weak crush zone, almost gouge. Shear 20-25° CA.																		
					59.6 - 59.75 - Crush + gouge. Shear 40-70° CA.																		
					60.05 - 64.4 - Weak crush / shear zone with zone unbleached rock to 50cm.																		
					20-30° CA.																		
					63.31 - 64.4 - Strong carbonate stringer zone.																		
				LITHOLOGY (CONT'D):																			
					35.06 - 69.63 - Zone with distinct subhedral to euhedral plagioclase phenocrysts + finely altered hornblende. Typical type 2 PPHM. No distinct difference in Py or Qz stringer content above unit. Subtrachytic texture																		
P	69.63	74.60	PPHM	4	M			0.3	3-4					M			WN-W	W	U-M		T	M	
				LITHOLOGY: Mottled medium greenish to brownish-grey medium-grained feldspar porphyry. Phenocrysts 1-2 mm + generally altered, subhedral to euhedral. Mafics not apparent as above. Obvious texture change due to alteration? or different host lithology? Probably alteration.																		
				ALTERATION: Pervasive sericite + carbonate alteration.																			

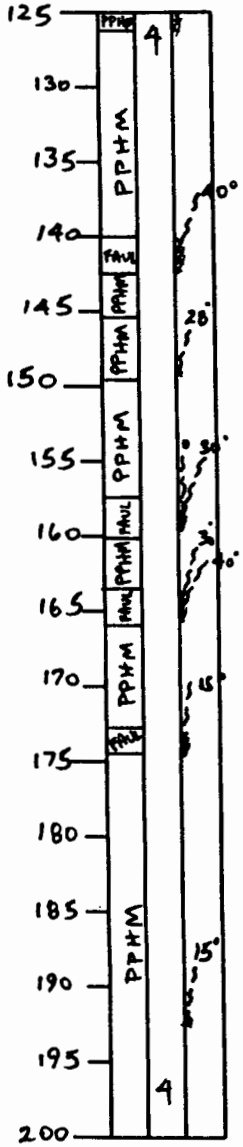
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 194
Logged By: G. ALLEN
Date: AUG. 30

Graphic Log (m)



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

MINERALIZATION: 3-4% dissem & fracture-related pyrite. Traces to 0.3% chalcopyrite predom in & adjacent to quartz stringers. Traces f-g blue-grey metallic possibly galena or molybdenum? Minor dark sphalerite in carbonate stringers.

STRUCTURE: Moderate white carbonate stringer zone. Stringers to 1cm. Quartz and carbonate stringers appear to occupy same fracture system 45-60° CA

71.1 - 74.6 - Blocky core. 20-60° CA.

P	74.6	93.57	PPHM	4	M			0.6	2-3		2				M			W-M	VW	W		M	

LITHOLOGY: Predominantly medium brownish to greenish-grey medium-grained plutonic with 25% stubby greenish-grey plag. phenos av 1-2mm. 15% grey to pinkish euhedral hornblende laths. Subtrachytic.

ALTERATION: Pervasive sericite - carbonate alt. Mod-strong fizz with HCl on scratched surface. No potassic stain.

MINERALIZATION: Sporadic pyrite generally < 3% dissem. Pyrite appears to be replaced by magnetite & hematite (possible?). At any rate magnetite & hematite content up to 2-3% & pyrite content down. Chalcopyrite content up to ~ 0.5-1% predom. in blue-grey quartz stringers. 5% black mineral in streaks constant 50° CA. Mix of magnetite & hematite. Magnetite altering to hematite. Predom. hematite.

STRUCTURE: Quartz stringers more abundant than carbonate stringers. Quartz 1mm - 2cm 20°-60° (generally 40-50° CA). Blue-grey colour with hematite, pyrite & CP & magnetite.

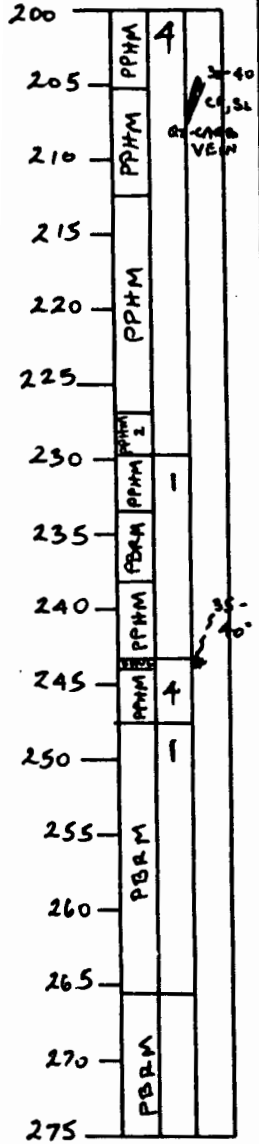
74.6 - 75.29 - Sporadic weak shear/crush zone 50° & subparallel CA.
77.33 - 77.6 - Shear/gouge zone 40-60° CA.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 194
Logged By: G. ALLEN
Date: AUG. 30


Graphic Log
(m)
200
205
210
215
220
225
230
235
240
245
250
255
260
265
270
275
PPHM
PPHM
PPHM

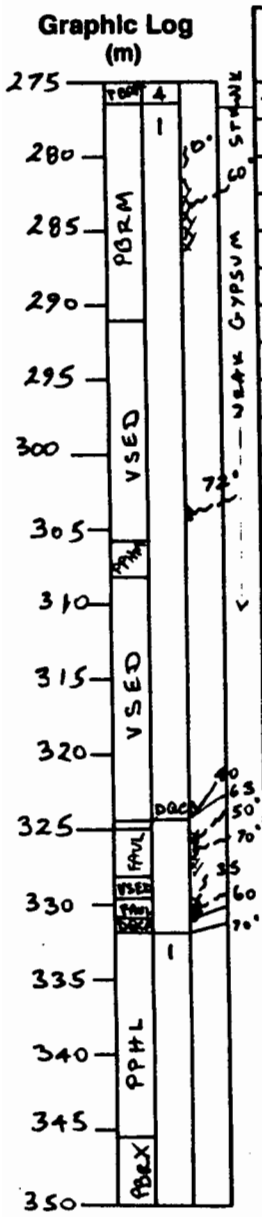
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 194
Logged By: G. ALLEN
Date: AUG. 31

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	110.5	118.55	PPHM	4	M			0.6	1-2		1				M			W	W	W			

LITHOLOGY: Much as above. Mottled medium greenish to brownish - grey. Most of interval has distinct subhedral greenish plagioclase phenocrysts to 2 mm + 15% euhedral prisms & laths of greenish to pinkish altered hornblende. Subtrachytic. Minor fragmental sections.

ALTERATION: Pervasive sericite + moderate carbonate alteration.

MINERALIZATION: 1-2% pyrite predom. along fractures and associated with quartz stringers. Fragmental zones have 5% dissem. PY. Traces CP in most quartz veins. 1-2% black specs hematite after magnetite dissem in matrix of plutonic + probably giving blue-grey colour to quartz stringers.

STRUCTURE: Weak carb. stockwork with stringers to 1 cm 30° CA.
Quartz stringers to 1 cm in an irregular stockwork 30° - subparallel CA.
Quartz broken into fragments in breccia zones.
111.4 Gouge along shears c̄ carb stg 30 + 56° CA.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	118.55	119.84	FAUL	4	M			0.5	4		1				M			M					

Rubble, gouge zone. Shearing 53°, 30°, subparallel CA.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	119.84	126.06	PPHM	4	M			1.0	1-2		2				M			M	W	W		W	

LITHOLOGY: As above. Greenish to brownish - grey.
ALTERATION: Sericite - carbonate
MINERALIZATION: - 1-2% PY predom with quartz stringers. 1-2% reddish to black hematite dissem throughout host + in quartz stringers. CP in traces in most quartz stringers. Actually looks less than 1% but probably runs 0.3% Cu.

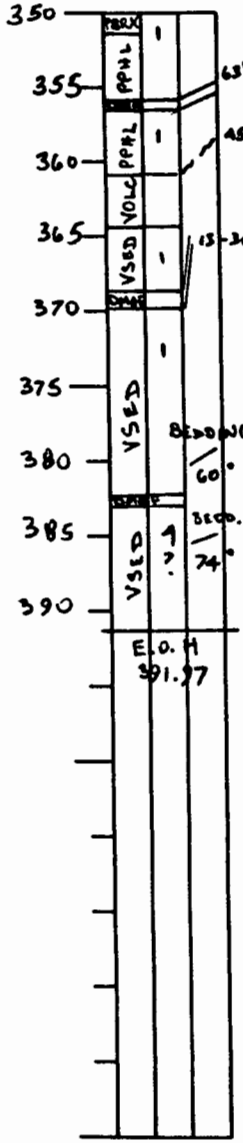
RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 194
Logged By: G. ALLEN
Date: AUG. 31

Graphic Log (m)



P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				STRUCTURE: Much of interval weakly sheared + crushed subparallel to 30°CA. Quartz stringers 30-45° and subparallel - 15°CA. Quartz stringers truncated by shears.																			
				Healed shear at end of interval 50°CA.																			
P	126.06	140.0	PPHM	4	M			0.5	2		2				M			W	W	W			
				LITHOLOGY: As above. Predom greenish-grey, lesser medium brown.																			
				ALT.: Sericite - carbonate.																			
				MIN.: 2% pyrite predom concentrated in quartz stringers. Almost no dissem. PY in host. ~2% black specs hematite in host porphyry matrix. Traces CP in most quartz stringers. Stringers widely spaced. Minor sphalerite with carbonate.																			
				STRUCTURE: Carb stringers generally 30°CA. Quartz stringers also 30°.																			
P	140.0	142.34	FAUL	4	M			1.0	5						M			M		W			
				LITHOLOGY: Weak to moderate shearing with 20cm gouge zones. Protolith as above.																			
				MIN: 5% dissem PY. Hematite mostly absent except in quartz stringers. Traces SL. CP in most quartz stringers.																			
				STRUCTURE: Shearing 40°CA. Quartz stringers fragmented. 15-30°CA.																			
P	142.34	145.39	PPHM	4	M	3	M	1.0	4-5		<1				M			W-M	W	W			
				LITHOLOGY: Mottled light to dark greenish-grey plutonic. Textures largely obscure.																			

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 194
Logged By: G. ALLEN
Date: AUG. 31

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				ALTERATION: Pervasive sericite - carbonate. Some dark sericitic clots + envelopes around fractures typical of type 3 alteration (weak)																			
				MINERALIZATION: Sporadic disseminated PY in host plutonic. Minor reddish hematite specs dissem also. CP in most quartz stringers (traces to 5%). Massive CP to 1cm in white carbonate with dark brown sphalerite.																			
				STRUCTURE: Quartz stringers 20-40 + 70° CA.																			
				142.95 - 1cm gouge 34° CA																			
	145.39	149.31	PPHM	4	M			0.3	2		1-2				M			VW	VW	VW		VW	
				LITHOLOGY: Mottled medium to dark greenish-grey feldspar-hornblende porphyry. As above. Textures largely obscure.																			
				ALTERATION: Sericite - carbonate. Moderate reaction to HCl on scratched surface.																			
				MINERALIZATION: 2% pyrite dissem + in quartz stringers. 2% black specs hematite in pluton matrix. Traces CP in quartz stringers. Hem in matrix.																			
				STRUCTURE: 148.75-149 - Shear / gouge 28° CA																			
	149.31	157.3	PPHM	4	M			0.3	1-2		2				M			W		W		W	M
				Much as above but with modest increase in quartz stringers. Blue-grey quartz stringers to 1cm subparallel to 15° CA with PY, hematite + CP.																			

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 194
Logged By: G. ALLEN
Date: AUG. 31

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	157.3	160.1	FAUL	4	M			0.6	3-4									M		W			

Sheared PPHM as above. Sheared subparallel to 30° CA. Greenish crush/gouge. Blue-grey quartz stringers to 1cm fragmented in fault. Traces CP in most quartz veins. Pyrite disseminated in sheared host & in quartz.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	160.1	163.44	PPHM	4	M			0.3	1-4		2				M			W-M	VW	W			

LITHOLOGY: Predom greenish-grey distinct feldspar - hornblende porphyry.
ALT: : Sericite - carbonate.
MINERALIZATION: Sporadic PY to 5% predom in quartz stringers. Some dissem. in host rock & in fractures crosscutting quartz. Hematite dissem in plutonic & in quartz stringers.
163.1 - 3cm white carbonate vein with masses dark sphalerite to 1cm + CP.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	163.44	166.10	FAUL	4	M				3-4						M			W		W			

LITHOLOGY - Zones of crushed PPHM & gouge to 1m.
MINERALIZATION: Sporadic 1-4% disseminated pyrite. Traces CP dissem in host & in quartz stringers.
STRUCTURE: Shearing in fault zone: 30-40°.
Quartz - carb. veins 65° CA.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	166.10	173.3	PPHM	4	M			0.3	1-2		2				M			W		W			

LITHOLOGY: Mottled light greenish-grey to dark greenish-grey to red-brown weakly sheared PPHM with textures largely obscure.
ALTERATION: sericite - carbonate.
MINERALIZATION: Sporadic 1-2% pyrite dissem & in quartz stringers. 1-2% black specs hematite in host plutonic gm. Traces CP in most quartz stringers.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 194
Logged By: G. ALLEN
Date: AUG. 31

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm		Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
				STRUCTURE: Quartz stringers 60° CA, subparallel CA.																			
P	173.3	174.38	FAUL	4	M			T	5						M								
				Shear, crush, gouge zone 15° CA to subparallel CA. 4-5% dissem PY, trace CP. Sheared PPHM.																			
P	174.38	205.3	PPHM	4	M			0.3	2		4				M			M	W	M		W	
				LITHOLOGY: Mottled light greenish-grey to dark greenish-grey to red-brown hematitic stained feldspar porphyry. 25% 1-2 mm waxy green stubby prismatic anhedral feldspar phenocrysts apparent in some intervals. Textures mostly obscure.																			
				ALTERATION: Pervasive sericite / carbonate alteration.																			
				MINERALIZATION: ~2% pyrite predom. along fractures cutting everything (incl. veins) + within quartz stringers. 4-5% black hematite disseminated in PPHM, sporadically altered to reddish colour in patches to 5cm. CP occurs in traces in some veins. CP is surprisingly scarce given the density of quartz stockwork																			
				STRUCTURE: Several sets intersecting blue-grey quartz stringers to 1cm ranging from subparallel to CA to near 90°. Most stringers are 15-30° + 50-70° CA. Hematite appears to be following the same structures. Moderate carbonate stockwork rarely carries CP also.																			
				192.3 - 192.7 - FAULT - Gouge / rubble zone. 15-20° CA.																			

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 194
Logged By: G. ALLEN
Date: AUG. 31

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
P	205.3	212.45	PPHM	4	M			0.6	2		3			M			M-S	M	M		M	

LITHOLOGY: Dark grey to light greenish - grey medium grained feldspar phyric plutonic as above. Textures largely obscure.

ALTERATION: Pervasive sericite - carbonate. Mod. reaction to HCl on scratched surface.

MINERALIZATION: 2-3% PY predom. in quartz veins in masses + stringers to 1 cm wide. Minor disseminated pyrite. 3-4% black to red hematite as breccia matrix with quartz. Minor chalcopyrite predom in quartz stringers with white carbonate. Some magnetite mixed with hematite. (Magnetite protolith?)
206.35 - 207.6 - Quartz - carbonate vein with 10% PY, 3-4% CP.
Minor black sphalerite with white carbonate.

STRUCTURE:
206.35 - 207.6 - Quartz - carb breccia zone 30-40° CA.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
P	212.45	227.04	PPHM	4	M			0.3	2-3		2			M			M				W	

LITHOLOGY: Medium - grained feldspar - hornblende porphyry. Mottled light greenish - grey to dark grey. Waxy green subhedral fp phenos to 2mm. 15% euhedral pinkish alt hb. prisms to 2mm. Most parts of interval texture destroyed by alt +/or shearing. DQCA 216.36 - 216.53 35° CA.

ALTERATION: Pervasive sericite - carbonate. Some dark sericitic envelopes around fractures.

MINERALIZATION: PY sporadic 1-3%. Some parts PY occurs disseminated + in other parts

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 194
Logged By: G. ALLEN
Date: SEPT. 1/95

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
					pyrite is absent but has up to 4% disseminated hematite (upland?) Both pyrite + hematite occur along fractures & with quartz ± carbonate stringers. CP occurs in trace amounts in many of the blue-grey quartz stringers.																	
					STRUCTURE: Moderate white carbonate stockwork 30° CA. Quartz + quartz - carbonate stringers also ~ 30° CA. White carbonate stringers cut quartz + quartz - carb stringers. Qz - carb stgs have core of white vuggy carbonate. PY generally in core of stringers also.																	
P	227.04	229.75	PPHM-2	4	M				1-2		2-3			M			VW		W		VW	
					LITHOLOGY: Red-brown homogeneous feldspar - hornblende porphyry. Red-brown (hematite) groundmass with 25% stubby euhedral plag (waxy grey) & 1% 1-2 mm euhedral pinkish carb-alt hornblende laths and prisms.																	
					ALTERATION: Pervasive sericite - carbonate alt. Red-brown colour suggestive of K-alt but no stain, ∴ probably hematitic.																	
					MINERALIZATION: 1-2% pyrite evident along fractures. Minor disem PY. Hematite disem + along fracture also. No visible CP. Very weakly magnetic.																	
					STRUCTURE: Weakly aligned quartz - carb. stringers 25° CA.																	

DRILL HOLE NO. 95 - 194

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 194
Logged By: G. ALLEN
Date: SEPT. 1/95

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	229.75	233.56	PPHM	1	M			<0.3	1-2		4		?	M				VW	W	W		W	

LITHOLOGY: Dark brown to black sporadically strongly magnetic fine to medium-grained feldspar porphyry probably as above. No distinct contact with unit above. Hornblende not apparent.

ALTERATION: Moderate potassic alteration. Strong potassic stain. Some dark fine-grained mineral minerals in groundmass probably mostly magnetite, but possibly biotite. Carbonate alteration also.

MINERALIZATION: 1-2% pyrite predominantly along fractures. 4-5% hematite mixed with magnetite predom along fractures with quartz. Minor hem/mag dissem in host rock. Minor CP in quartz stringers

STRUCTURE: Widely spaced quartz stringers. Intersecting set. Subparallel to 30° CA and 60-70° CA.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	233.56	237.82	PBRM	1	M			0.6	1-2		5		?	M				W	W	VW		W	

LITHOLOGY: Dark brn-grey to black mottled inhomogeneous fragmental. Moderately hard. Greenish grey to black subangular lithic fragments to 2cm. Textures indistinct but some parts clearly feldspar porphyritic. Fragmental texture could be from inhomogeneous alteration.

ALTERATION: Moderate potassic. Strong yellow stain: K-feld. Probably f-g biotite also.

MINERALIZATION: 4-5% disseminated hematite - magnetite (along fractures also). 0.6-1% CP dissem and in blue-grey quartz veins.

STRUCTURE: Blue-grey quartz stringers up to 2cm 20-40° CA.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 194
Logged By: G. ALLEN
Date: SEPT. 1

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P.	237.82	243.15	PPHM	1	M			0.6	1		5		?	M				W	W	VW		W	

LITHOLOGY: Mottled dark brown, dark grey to black relatively hard, medium-grained plutonic with waxy green subhedral 1-2 mm stubby plag phenos (~25%). Mod - strongly magnetic.

ALTERATION: Moderate potassic alteration. Strong yellow $CoNO_3$ stain ∴ K-feld. Probably f-g biotite in groundmass. Moderate reaction to HCl on scratched surface. Carbonate alt ubiquitous regardless of primary alteration.

MINERALIZATION: 5% + mix hematite + magnetite both disseminated + along fractures + stringers. Traces v f g dissem CP throughout + concentrated in quartz stringers.

STRUCTURE: Conjugate qz stringers ~ 20 + 70° CA.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	243.15	244.0	FAUL	4	M	3	W	0.6	5						M			VW		S			M

LITHOLOGY: Medium to dark green altered PPHM sheared & flooded with white carbonate (~20%). Sheared to gouge across zones to 20 cm.
MINERALIZATION: 5% dissem PY. 0.6% CP predom in carbonate stringers.
STRUCTURE: Carbonate stringers + shearing 35-45° CA.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	244.0	247.52	PPHM	4	M			0	4		2								W	W			

LITHOLOGY: Greenish to red-brown grey homogenous feldspar - hornblende porphyry as 227.04 - 229.75. Subtrachytic.
ALTERATION: Sericite - carbonate. No potassic stain, ∴ colour due to hematite.
MIN: ~4% f g dissem + fracture - related Py. No CP observed.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 194
Logged By: G. ALLEN
Date: SEPT. 1

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
P	247.52	265.8	PBRM	1	M	4	M	17.	2-3		4		M	M			W-M		W			

LITHOLOGY: Mottled greenish-grey to red-brown to black. Distinct angular fragments in some parts in black matrix. Darker parts strongly magnetic. Some parts inhomogeneous patches of colour (pseudobreccia ?)

ALTERATION: Sporadic potassic to sericite-carbonate. Dark brown-black parts have a strong potassic stain.

MINERALIZATION: 2-3% py predom on fractures + with qtz + carb in stringers. ~1% cp in quartz stringers, disseminated + coating fractures.

STRUCTURE: Conjugate quartz stringers 20° subparallel CA + 60-70° CA.

| P | 265.8 | 276.45 | PBRM | 4 | M | | | 17. | 3-4 | | | | | | | | M | W | W | | | |

LITHOLOGY: Mottled light greenish-grey to dark grey. Inhomogeneous throughout. Distinct fragments rare. Could be a pseudobreccia caused by inhomogeneous alteration and shearing. Porphyritic texture not apparent.

ALTERATION: Sericite - carbonate

MINERALIZATION: 1% cp in quartz stringers & disem. 3-4% py, disem + stringers. Hematite not abundant.

STRUCTURE: Moderate quartz stockworks. Multiple vein sets up to 1cm wide subparallel to 70° CA

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 195
Logged By: G. ALLEN
Date: SEPT. 1

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
P	276.49	291.2a	PBRM	1	M			2	2				M				M	W	W	VW		

LITHOLOGY: Mottled dark grey/grey - grey to dark brown to black indistinct breccia. Fragments to 2 cm in dark grey matrix or quartz stringer matrix. No phenocrysts apparent in most parts. Sporadically strongly magnetic. Possible breccia along intrusive - sediment contact.

ALTERATION: Moderate potassic. Strong potassic stain. K-feldspar + biotite? Possibly silicified.

MINERALIZATION: 1-2% PY predom along fractures. ~2% CP predom finely disseminated in darker parts of matrix, in masses to 5 mm, coating boudin fractures and in quartz stringers (to 5 mm x 3 cm long).

STRUCTURE: Moderate quartz stringer zone. 10% blue-grey quartz stringers to 4 cm wide. Dark banding in stringers parallel stringers. PY/CP along bands also. Conjugate stringer sets subparallel - 20° to 60-80° CA.

281.85 - 286.4 - Blocky broken core. Fractures subparallel to 60° CA.

| P | 291.2 | 305.95 | VSED | 1 | M | | | 2 | 2-3 | | | M | W | | | | W-M | W | W | W | | |

LITHOLOGY: Mottled dark grey to black, dark brown + red-brown. F & chalky to medium hard aggregate of feldspar + probably biotite. Dark grey/black parts probably chloritic. Rock is sporadically strongly magnetic. Cut by magnetite (altering to hematite) stringers + quartz - magnetite quartz stringers. Rocks could be a hornfelsed volcanic sediment. Some parts have vague feldspar phenocrysts or crystal fragments < 1 mm, mud finer-grained than a typical Red Stock component.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 195
Logged By: G. ALLEN
Date: SEPT. 2/95

Graphic Log (m)

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

ALTERATION: Rock takes a weak yellowish stain in brown parts + none in green parts. Potassic alteration (predom. biotite likely) + sporadic chloritic alt. Very weak reaction to HCl. VW carb alt. Chlorite alteration overprinting biotite.

MINERALIZATION: 2-3% disseminated and fracture-related pyrite. ~2% chalcopyrite f-g disseminated, fracture coating + in quartz stringers.

STRUCTURE: Weak to moderate quartz stockwork. Conjugate set of stringers to 5cm (average <1cm) 20-30 + 50-60° CA. Trace gypsum stockwork. Minor carbonate stringer component.
303.89 - 304.16 - Fault. Healed shear. 72° CA. Minor gouge.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	305.95	307.95	PPHM?	1	M			>1	3-4				?	M				W-M			W	W	

LITHOLOGY: Medium brown-grey groundmass feldspar porphyry. Relatively homogeneous. 25% waxy green anhedral stubby prismatic crystals up to 2mm. Uniformly moderately magnetic.

ALTERATION: Moderate yellow potassic stain.

MINERALIZATION: 3-4% Py/predom. along fractures. ±1% v f-g chalcopyrite disseminated along fractures + with quartz stringers. 3-4% f-g dissem magnetite. Mag + CP form selvage / parallel bands in quartz stringers.

STRUCTURE: W-M quartz stockwork. Dark blue-grey stringers av. ~5mm. 5%. Predom 50° CA. Gypsum stockwork into everything. Strengthening down hole.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 194
Logged By: G. ALLEN
Date: SEPT. 2/95

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
P	307.95	324.53	VSED?	1	M			1.5	5		2	M	M				W		W	M		

LITHOLOGY: Mottled medium grayish-green brownish-grey to blackish fine-grained mod hard f-g feldspar phyric (vague) material. Could be plutonic but more likely fine to mid-grained volcanic sandstone. Hornfelsed?

ALTERATION: Moderate-strong potassic stain. Probably K-feldspar mixed with fine-grained biotite. Greenish parts chloritic, perhaps after biotite.

MINERALIZATION: 4-5% pyrite disseminated PY. 1-2% disseminated chalcopyrite (pyrite disseminated but also along fractures & in quartz stockwork. 3-4% magnetite partially altering to hematite concentrated in quartz stringers but also disseminated.

STRUCTURE: Weak quartz stockwork (blue-grey quartz stringers to 3cm (average <1cm)! Moderate gypsum stockwork! Qtz 30-60° CA.

| P | 324.53 | 325.0 | DQCA | | | | | | | | | | | | | | | | | M | | |

LITHOLOGY: medium blue-green aphanitic groundmass. 5% black specs mafic minerals. 5% ≤ 1cm calcite amygdules. DQCA? DMAF? some?

ALTERATION: Weakly calcareous (amygdules?).

STRUCTURE: Upper contact 63°, lower contact 40°. Gypsum stringers to 3mm 30° or subparallel CA.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 194
Logged By: _____
Date: _____

Graphic Log (m)

PS	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm	Alteration Mineralogy Bl	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	325.0	327.90	FAUL					T	5		<1			M					W			S
				LITHOLOGY: Intensely sheared gouge rock. 50-70° CA. 5% Py, trace CP.																		
P	327.90	329.6	V SED?						7			M	M						W-M	VW		
				LITHOLOGY: mottled dark green-grey to red-brown f-g aggregate of angular f-g pop xls + 10% chloritic clasts after mafic. Could be intrusive. Crackle breccia flooded by calcite + minor gypsum.																		
				ALTERATION: Potassic. Mod stain.																		
P	329.6	331.6	FAUL					T	7								T		W	W		
				LITHOLOGY: Medium to dark greenish-grey to brown-grey intensely sheared rock. Protolith unclear. Gypsum stringers postdate faulting																		
				MINERALIZATION: 6-7% disseminated pyrite. Trace CP with carbonate in sheared rock.																		
				STRUCTURE: Shearing at 60 & 35° CA. Lower contact 62°.																		
P	331.6	332.3	DQCA																M	W		
				LITHOLOGY: Medium greenish-grey vf-g crystalline aggregate groundmass 5% specs of mafic (amphibole, c/mm) & 5% ≤ 1mm calcite amygdules																		
				STRUCTURE: Mod carb stockwork. Minor gypsum stringers. V open contact 62°, lower contact 70° CA.																		

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 194
Logged By: G. ALLEN
Date: SEPT. 2

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	332.3	345.75	PPHL	1	W	4	M		5					W	M						M		

LITHOLOGY: Medium brown-grey to greenish-grey gm medium-grained plutonic with 25% 1-2 mm greenish stubby anhedral feldspar phenocrysts + 15% dark greenish anhedral masses mafic mineral. (probably chlorite after hornblende). Hornblende-fsp porphyry. Could be late stage.

ALTERATION: Probably sericite-carbonate overprinting potassic. Weak to moderate stain. Strong reaction to HCl on scratched surface.

MINERALIZATION: 5% disem PY, predom with mafic clots.

STRUCTURE: Moderate gypsum stockwork. Stringers to 2 mm.

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
P	345.75	351.8	PBRX	1	S				5					S							M		

LITHOLOGY: Red-brown to orange-brown fsp-hb breccia fragments to 2 cm (~40%) in a f-g sericitic gm.

ALTERATION: Strong potassic. Strong stain. Dark chloritic patches are calcareous.

MIN: Pyrite ~5% disem, but mostly as masses (fragments?) to 5 mm.

STRUCTURE: Weak to mod. gypsum stockwork.

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 194
Logged By: G. ALLEN
Date: SEPT. 2

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Alteration Facies Int.	Alteration Facies Typ	Alteration Facies Int.	Mineralization Cp	Mineralization Py	Mineralization Bn	Mineralization Hm	Alteration Mineralogy Bi	Alteration Mineralogy Kf	Alteration Mineralogy Ms	Alteration Mineralogy Cy	Alteration Mineralogy To	Structure - Veining Qz	Structure - Veining Py	Structure - Veining Cb	Structure - Veining A:	Structure - Veining H:	Structure - Veining Fr.
P	351.8	356.15	PPHL	1	M				5													
				LITHOLOGY: Much as above but unfragmented.																		
P	356.15	356.8	DQCA																			
				Medium lilac-green-grey v f-g to aphanitic dyke. 5% ≤1mm specs mafic mineral (biotite?) 5% white calcite amygdules to 2 mm. (DMAF?) Upper contact 66°. Lower contact 63° CA.																		
P	356.8	361.25	PPHL	1	M				5											M		
				LITHOLOGY: Pinkish to brownish-grey feldspar-mafic phyric medium-grained plutonic. 25% 1-2 mm subhedral bn-gy plag + 15% chloritic clots. Some parts fine-grained aphyric (seds?)																		
				ALTERATION: No staining done but probably potassic as up hole. Moderately hard. Weakly calcareous.																		
				MIN: 5% dissem PY predom with mafic clots.																		
				STRUCTURE: Moderate gypsum stockwork.																		
P	361.25	364.38	VOLC						5													
				LITHOLOGY: Dark green (apt) augite porphyry. Med to dark green-gy gm with 10% 1-2 mm black subhedral augite (?) phenos to 3 mm.																		
				MIN: 5% dissem PY.																		

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 194
Logged By: G. ALLEN
Date: SEPT. 2

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				STRUCTURE: upper contact along shear 45° CA. ~20 cm shear zone. Moderate gypsum stockwork.																			
P	364.38	368.60	VSED	1	?	W			5												M		
				LITHOLOGY: Mottled light grey, dark grey, greenish-grey, bn-gy inhomogeneous sediment. Some parts cherty. Some clearly c-g wacke with angular fragments. Conglomeratic / breccia with frags to 2 cm. Most of interval cherty to m-g wacke with vague fsp sl frags to 1 mm.																				
				ALT: Brownish colour suggests potassic alt.																			
				MIN: 5% dissem + fracture - related PY.																			
				STRUCTURE: Mod gypsum stockwork																			
P	368.6	369.7	DMAF																				S
				Biotite - fsp ppy. Med. green-grey aphanitic g-m with 10% 1-2 mm biotite phenos. F-G (<1 mm) plag laths ~20%. Contacts shallow, 15-30° CA.																			
P	369.7	382.24	VSED	1	?				5											W	M		
				LITHOLOGY: Much as 364.38 - 368.6. Mod hard. Almost cherty. Some colour banding / poor bedding in finer-grained interval 60° CA. Ranges from very fine-grained cherty sed to a c-g wacke. Average fine to m-g wacke. Greenish to brownish-grey.																			
				ALTERATION: Possibly potassic. Moderately hard ∴ not strongly sericitic. Moderate reaction to HCl ∴ carbonatized.																			

DRILL HOLE NO. 95 - 194

Page 21 of 22

RED - CHRIS PROJECT
Liard Mining Division
British Columbia, Canada

GEOLOGIC DRILL LOG

AMERICAN BULLION MINERALS LTD.

DRILL HOLE NO. 95 - 194
Logged By: G. ALLEN
Date: SEPT. 2

Graphic Log (m)

P S	Interval From	Interval To	Rock Code	Alteration Facies Typ	Int.	Typ	Int.	Mineralization Cp	Py	Bn	Hm		Alteration Mineralogy Bi	Kf	Ms	Cy	To	Structure - Veining Qz	Py	Cb	A:	H:	Fr.
				MINERALIZATION: 5% dissem + fracture - related PY																			
				STRUCTURE: Moderate gypsum stockwork. Weak carbonate stkwk.																			
				Bedding 380.2 m - 60° CA.																			
P	382.24	383.05	DMAF																				
				Dark greenish - grey f-g gm. 15% biotite phenos. 5% ≤ 1 mm calcite amygdules. Upper contact 65° CA. Lower contact 61°. Sporadic plag laths to 8 mm.																			
P	383.05	391.97	VSED	4?					5											W	M		
				LITHOLOGY: mottled dark grey, pinkish-grey, brown; grey volc. sed. Predom f-g silty massive material. Some intervals with clear angular fragments to 1 cm (sedimentary breccias).																			
				ALTERATION: Medium hard to mod soft calcareous. Phyllic?																			
				MIN: 5% dissem & fracture - related PY.																			
				STRUCTURE: Mod gypsum stockwork. <5% 2-4 mm stringers 30-80° CA																			
				385.5 - Poor bedding 74° CA.																			
				E.O.H.																			