85-342-13710

1984 EXPLORATION REPORT

ON THE

UNION MINE PROPERTY

GREENWOOD MINING DIVISION

LATITUDE 49°34'

LONGITUDE 118°22'

N.T.S. 82 E/9W

VOLUME II

APPENDIX A

DRILL LOGS

PAGE 1 of 6

DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
		Footage	Azimuth	Dip
NORTH	9926.21			
EAST	8851.72			
ELEVATION	2829.41			
AZIMUTH	002.18°	000'		+60°
DIP	+60.5°	176'		
MAP REFERENCE		METHOD:		

PROJECT HAYDEN - HAYES PEARL/UNION
PROPERTY NAME UNION
DRILLING CONTRACTOR RAINBOW DIAMOND DRILLING
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE MAIN VEIN BELOW 3 LEVEL

HOLE Nº.	PU-1
CLAIM NAME	UNION
COMMENCED	NOV 6/84
FINISHED	NOV 8/84
LOGGED BY	J. DROWN
DATE LOGGED	NOV 7 to

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP - DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
0	35.3	PCT	Grey-green, mottled, massive	chl-py-cc. as												
		Chert/tuff	largely brecciated to < 3/4" pieces	stringers.												
			Num. grey-black stringers of	cc. stngrs. alone												
			chlorite-calcite-pyrite Vein qz													
			to 2%; Bedding @ 30° to CA.		20'	Bedding	30°									
			Hardness 4½;													
			RQD - 81%													
35.3	37.5	Dacite Porph.	Dark green-white mottled,													
			porphyry. Frag. size, altered to													
			altered. up to 3 mm dia.													
			Grey-green massive matrix	Clay alt'n of Frag	35.3 / 37.5	clay alt'n	50°									
			possible sericite alt'n.	along fracs.												
			RQD - 100%; Hardness 5.													
37.5	45.8	Dacite Porph. Siliceous	Grey green mottled,	Py on some fractures												
			same as 35.3 - 37.5 with													
			½ - 1 cm white q.vs at 45° to	Silic. qz Q.Vs. to 1 cm	37.5 / 45.8											
			20° to CA	wide												
			Bx. frags of Porphyry silicified													
			& argillized. 30% Qtz overall.													
			Hardness 5½													
			RQD - 80%													

85-32

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.	
CLAIM NAME	
COMMENCED	
FINISHED	
LOGGED BY	
DATE LOGGED	

INTERVAL		LITHOLOGY		ALT'N – MIN.	DEPTH	STRUCTURE		SAMPLE				ASSAYS			VISUAL LOG
FROM (m) Ft.	TO (m) Ft.	ROCKTYPE	DESCRIPTION		FROM TO	STRUC.	DIP – DIR	FROM (m)	TO (m)	WIDTH	Nº.	Au oz/t.	Au ppb	Ag oz/t.	
45.8	55	Dacite Porphyry	Dark green-white mottled by subhedral to anhedral plag. phenos to 3 mm.		45.8										
			Many phenos only ghostly, due to sericite alter of matrix.	sericite of matrix											
			<1% diss. py & tr. on fracts.	C.C. stringers @ 100cm intvls.	47'										
			Possible porph. dyke rock!												
			Hardness 5												
			RQD – 50%												
55	58.2	Cherty tuff Breccia.	Similar to 0-35.3' with less well defined bx. clasts & py. Grey; massive textured clasts & host. Becoming silicified toward bottom of section.	quartz – 15% Pyrite – tr. Calcite – Tr.		Ribbouring Bedding to	40°	56	58.2	2.2	3322	0.001		0.08	
			Hardness – 5½												
			RQD – 56%												
58.2	62.5	Quartz Vein.	Grey-white; Brecciated & silicified; num. hairline fractures; some with c.c.	Py-chlorite on fractures Minor C.C. stngrs.				58.2	62.5	4.3	3323	0.001		0.12	
			Looks barren! RQD – 90%												

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PD-1
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag oz/t
62.5	88.5	Andesite Breccia	Dark green-beige mottled. Angular clasts of aphyric andesite porphyry most abundant; others of cherty tuff & silty tuff. Fragments to 4cm across. Matrix of bx is largely andesitic grit or tuff. Calcite stringers common. Hardness - 4½ RQD - 80%		75'	Bedding	60° to C.A.	62.5	65.0	2.5'	3324	0.005		0.17
88.5	97.5	Dacitic Breccia	Beige fine grained cherty breccia; clasts angular to ≤10 cm long × 3cm wide, most equant at 2-5cm. 1% Diss & fine py. c.c. vnlts common throughout. Hardness 5 RQD - 90%											
97.5	112	Cherty Tuff Laminated	Beige-black striped (laminated) Highly fractured & c.c. cemented in part brecciated. Tr. f.g. py.	fg cross cutting bedding at 60° to C.A.		Bedding	35° to C.A.							

VISUAL LOG

Blk. Cut
Beige tuff

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
NORTH	Footage	Azimuth	Dip
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
			Locally py to 5% as frac. filling	calcite, pyrite												
			RQD – 84%	minor clays.												
			Hardness – 4½													
112	119.3	ANDESITIC	Similar to 62.5 to 88.5													
		Breccia	Numerous subrounded clasts	calcite stringers												
			Lith. < 1 cm with py cores.	pyrite												
			Clasts of various types	chlorite ± sericite												
			grey cherty tuff, beige tuffs	of matrix.												
			andesite & limestone/minor													
			Hardness – 4													
			RQD – 85%													
119.3'	127.4'	Cherty tuff	Grey-green, beige v.f.gr. cherty	Tr – diss. py.		Upper &										
		Breccia	tuff clasts in grey carbonate			Lower contact	50° to CA.									
			matrix. Clasts subrounded to													
			angular up to 2cm; mostly													
			0.5 to 1 cm.													
			Hardness 5													
			RQD – 95%													
127.4	130	Andesitic	Same as 112 to 119.3	Lower contact												
		Breccia	RQD – 100%	gradational.												

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-1
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL FROM (m/ft)	INTERVAL TO (m/ft)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM TO	STRUCTURE STRUC.	STRUCTURE DIP–DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
130	141.5	Dacitic ~~Tuff~~ Breccia	Beige-grey, mottled. Angular to subrounded clasts from < 1cm to 5 cm. Clasts consist of grey laminated cherty tuff, beige cherty tuff, Grey f.g. limestone & Numerous green-beige ~~tuff~~ tuffaceous rock fragments of dacitic - andesitic composition. No discernible bedding. Hardness 5 RQD. - 96%												
141.5	150	Andesite Breccia	Dark green, beige mottled; Bx. clasts to 5cm; mostly a. f.g. andesite; andesite porphyry & andesitic tuff. Trace disseminated & on fractures Hardness - 4 1/2 RQD - 94%			Contacts gradational.									
150	176	Cherty tuff	Laminated, beige, dacitic tuff. Occas. rounded, alt'd porphyry clasts; minor rounded L.st. clasts			Bedding	42°/CA								

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PQ-1
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL		LITHOLOGY		ALT'N – MIN.	DEPTH	STRUCTURE		SAMPLE				ASSAYS			VISUAL LOG	MAG
FROM (m)	TO (m)	ROCKTYPE	DESCRIPTION		FROM TO	STRUC.	DIP–DIR	FROM (m)	TO (m)	WIDTH	Nº.	Au oz/t.	Au ppb			
				Py – tr/l diss & fnd	160.2 160.5	Bx.	50° to CA.									
			occasional rounded & rotated	C.C. Units common.												
			dark clasty clasts with													
			contorted soft sediment texture.													
			RQD – 95, Hardness 4½													
			FOOT OF HOLE 176'													

UNION GOLD PROJECT

DATE: Nov. 7 1984 — DRILL HOLE: PU-1

FROM	TO	WIDTH	RECOVERED	FROM	TO	WIDTH	RECOVERED
0	6	6	4	166	171	5	5
6	11	5	5	171	176	5	5
11	16	5	5			END OF	HOLE
16	21	5	5				174
21	26	5	5				% = 174/176 = 98.9
26	31	5	5				99%
31	36	5	5				
36	41	5	5				
41	46	5	5				
46	51	5	5				
51	56	5	5				
56	60	4	4				
60	65	5	5				
65	70	5	5				
70	75	5	5				
75	79	4	4				
79	84	5	5				
84	89	5	5				
89	94	5	5				
94	99	5	5				
99	104	5	5				
104	109	5	5				
109	114	5	5				
114	119	5	5				
119	125	6	6				
125	131	6	6				
131	136	5	5				
136	141	5	5				
141	146	5	5				
146	151	5	5				
151	156	5	5				
156	161	5	5				
161	166	5	5				

PAGE 2 of 4

DIAMOND DRILL LOG

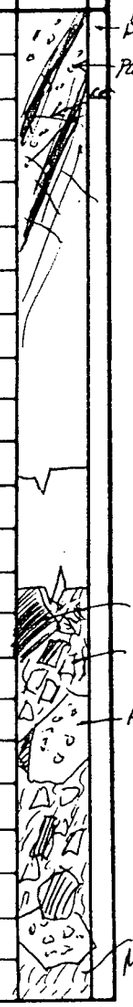
Collar:		HOLE SURVEY		
		Footage	Azimuth	Dip
NORTH	9923.58			
EAST	8851.57			
ELEVATION	2829.44			
AZIMUTH	002.45°			
DIP	+85.10°			
MAP REFERENCE		METHOD:		

PROJECT PEARL / UNION
PROPERTY NAME UNION MINE
DRILLING CONTRACTOR RAINBOW DIAMOND DRILLING
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE MAIN VEIN EXTENSION

HOLE Nº.	PU-2
CLAIM NAME	UNION
COMMENCED	Nov 8/1984
FINISHED	Nov 9 1984
LOGGED BY	T. DROWN
DATE LOGGED	Nov 9 1984

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	VISUAL LOG
0	30.5'	Cherty	Laminated, where massive; dark	-c.c. as stgrs	0'		Bedding	30° to C.A.							
		Andesitic tuff-bx.	green with beige & H. green	-fy - cubes to 3%	15'		Bedding	30° to C.A.							
			clasts & bands (where bedded)	-chlorite-sericite											
		(PCT$_L$)	Numerous diss crossy calcite	of matrix &											
			stringers. Frequent ghosty	-sericite after											
			outlines of relic plagioclase	plagioclase											
			in sense of groundmass												
			and some clasts.												
			Resembles laminated cherty												
			tuff seen on surface												
			Hardness 5												
			RQD. - 95%												
20.5	40	Cherty	Similar comp to above but												
		-tuff	broken to 1 to 4 cm angular	- fy - 3%, diss & fracts.											
		Breccia.	pieces. Med. green andesitic				Lower Contact	35° to C.A.							
			tuff groundmass filling fx.	- C.C. as stringers											
			Frequent beige clasts of	-chlorite -											
			cherty tuff; Green chloritic												
			clasts less frequent (30% as												
			compared to 60% beige PCT)												
			Andesitic porphyry clasts												
			common (25% overall)												

RQD - 95%
Hardness - 4½



DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL/UNION
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-2
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM–TO	STRUCTURE STRUC.	STRUCTURE DIP–DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	VISUAL LOG
40	62.2	Andesite	Dark green, f.g: 0.2 to 0.5 mm plag. phenos visible. Dk green to black matrix < 0.5 mm. largely chloritic. Occasional bleached patch or chert tuff clast. Much f.g. py 5% + Calcite-py as num. fines frequent bleached envelopes along fractures outward for 1 mm Hardness – 4½ RQD. – 90%											
62.2	76.8'	Cherty Breccia	Similar to above 20.5–40' with dk. green fg. andesitic bx. matrix. Frags. mostly beige cherty tuff, matrix has 20+% chlorite; 2% py. Hardness. 4½ RQD – 95%		69.5	Fault	40° to CA.							
						2 cm chl.-crusted fx.								
76.4	78.6	Porphyry Dyke.	Dk.-med green/white mottled with 1-2 mm plag. phenos largely alt'd to fg. massive grey mx.											

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL/UNION
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-2
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag oz/t	VISUAL LOG
~~78.6~~	~~82.6~~	Cont'd.	Numerous 0.5 to 1mm c.c. vn/lts. at 70°, 30°. Hardness - 4½ RQD - 50%			U/C	45° Fault								
						L/C	35° Fault								
78.6	82.6	Cherty Breccia	Silicified; Same as 20.5 to 40' with alt'n by SiO_2 & clay. Grey to lt. green, Beige clasts variably alt'd to clays - sericite - qtz, have mottled colours; beige fresh to grey; green intermed. alt'n. Some clasts have grey envelopes & beige interiors. Num. c.c. stringers. Py <1% mostly on fractures. Hardness - 5 RQD - 60%	-SiO_2. -Clays -Sericite.				78.6	82.6	4.0	33325	0.005		0.19	
82.6	95.7	Quartz Vein	Grey, white mottled, due to brecciation & re-silicification Bx. frags. rimmed with new Qtz &/or white calcite;	-Calcite. -Manipositie with Some c.c. on vn/lts											

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
NORTH	Footage	Azimuth	Dip
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.	
CLAIM NAME	
COMMENCED	
FINISHED	
LOGGED BY	
DATE LOGGED	

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM TO	STRUCTURE STRUC.	STRUCTURE DIP–DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag/t	VISUAL LOG
			Uniform sulphides throughout 2-3% fine grained: Euhed. pheno's in Qtz. & along fractures. Minor silver grey flecks ? Vein very uniform in colour, texture & sulphides! Hardness: ≤7 RQD – 58%	chlorite wisps & patches.		L/C	45° to C.A.	Bx.							
						U/C	46° to C.A.								
								82.6	87.0	4.4	3326	0.008		0.17	
								87.0	92	5.0	3327	0.001		0.06	
								92	95.7	3.7	3328	0.005		0.11	
										3.1'					
95.7	107	Cherty Breccia	Beige & grey mottled. Weakly silicified on H.W. of Vein. Bx. clasts range up to 6 cm. Composed of 60% beige massive cherty matt; 30% grey chert ? 10% beige, green, grey, tattaceous-grit. Matrix of Bx is largely grey green grit (0.2 to 1 mm size). RQD – 84% Hardness – 5 ~~Foot~~ End of Hole 107'					95.7	97	1.3	3329	0.003		0.13	

UNION GOLD PROJECT

DATE: Nov 9 1984 | DRILL HOLE: Pd-2

FROM	TO	WIDTH	RECOVERED	FROM	TO	WIDTH	RECOVERED
0	5	~~5~~	3.5				
5	~~10~~ 10	6	5.0				
~~10~~ 10	16	~~6~~ 5	5				
16	21	5	5				
21	26	5	5				
26	32	6	6				
32	37	5	5				
37	42	5	5				
42	47	5	5				
47	52	5	5				
52	57	5	5				
57	62	5	5				
62	67	5	5				
67	72	5	5				
72	77	5	5				
77	~~82~~ 82	5	5				
82	87	5	5				
87	92	5	5				
92	97	5	5				
97	102	5	5				
102	107	5	5				
		FOOT OF HOLE					
		total Recovered	104.5' / 107'	=	97.7%	or	(98%)

DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
NORTH	9923.07'	Footage	Azimuth	Dip
EAST	8855.61'			
ELEVATION	2829.8'			
AZIMUTH	080.39°			
DIP	+ 53.1°			
MAP REFERENCE		METHOD:		

PROJECT Bird / Union
PROPERTY NAME Union Main Vein
DRILLING CONTRACTOR Rainbow Diamond Drilling
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE Main Vein Extension.

HOLE Nº.	DU-3
CLAIM NAME	Union
COMMENCED	Nov 9 1984
FINISHED	Nov 10/84
LOGGED BY	T. DRown
DATE LOGGED	Nov 10/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM–TO	STRUCTURE STRUC.	STRUCTURE DIP–DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
0	15	Cherty Tuff (Breccia, ANDESITIC)	Dark green; mottled with dk. beige-grey patches where clasts more cherty. Aphan. andesite. Matrix, dark green, massive andesitic. Ghostly outlines of 1-2mm plag. phenos; relic? Num c.c. stgrs at 60°, 10°. Finely laminated where not brecciated (cherty tuff & silty tuff indicated) Hardness – 5 RQD – 47%	Py – fracs mostly – tr, diss. Bleached envelopes 0.5mm along some fractures.	15'	Bedding	30°↑CA								
15	31.6	Dacitic tuff.	Dark beige, green & white mottled by variable alteration & plag. relics. Bedding visible where silty (minor). Calcite stringers mostly at 60°↑CA. Sericite alt'n evident by greenish colouration of otherwise beige tuff. RQD – 78% Hardness 5	c.c. stgrs. abound. Py – tr diss – mostly fracs. Sericite/plag. Py – Tr. outlines –		Bedding	30°↑CA								

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT Pearl Lunar
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PL-3
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL FROM (m)	INTERVAL FROM ft	INTERVAL TO (m)	INTERVAL TO ft	ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS	VISUAL LOG
31.6		33.3		Breccia	Dark green matrix (andesite) with white/grey quartz clasts to 2cm and grey limestone patches to 5cm long, 2-3% diss. py, Calcite abundant. Chlorite in matrix after andesite. Hematite ~~with~~ in matrix of the limestone. RQD - 100% Hardness - 3-7	Py - 2-3% Chlorite of matrix Calcite common	31.6' 31.9'		Fault	40°								
33.3		37.6		Dacitic tuff Breccia	Grey to beige; Bx. frags to 5cm; of chenty grey rock, and some beige silty tuffs Matrix is greenish-grey, grit with chlorite-calcite & minor py. RQD - 93% Hardness 5	- C.C. Veins common. to 0.5cm across - Py - diss 1% - fracs 1%			Bedding	?								
37.6		53.8		Dacitic Dust tuff	Grey to beige; V.f.g. dusty to silty groundmass with <0.2 mm dog. visible fragments (breccia clasts) of more massive tuffs. Calcite common on fracs. RQD - 93% Hardness.	- C.C. on fracs - Py - diss - <1% - on fracs mostly	54'		Bedding Fault	30° TCA 80°								

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT Pearl / Union
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-3
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM–TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
53.8	80.8	Dacitic lapilli Breccia	Same as 33.3 to 37.6.		59'	Bedding	20° to CA								
			Matrix is dusty grey grit	-c.c. stgrs common.	59	u/c	Gradational								
				-Py-diss-Tr											
			RQD - 67%	-fine's minor											
			Hardness - ~~5~~ 4½	-sericite bleaching											
				of some bx..clasts											
80.8	83.1	Andesite	Dark green - black; v.fg. aphanitic												
			groundmass with occasional												
			1 mm plag. phenos throughout.												
			Occasional py ± lor c.c. stgrs.												
			(hairline) RQD - 91%												
			Hardness - 4½												
83.1	101	Dacite lapilli	Beige; very fg. gritty matrix		90	Bx	60°								
			with occas. plag. porphyry patch		90-91.5										
			(relic or bx frag?)		91.5	Bx	?								
			Frequent hairline c.c. stgrs.												
			± py coating fractures.												
			Black mineral with py?												
			chlorite? on frac's.												
			RQD - 88%												
			Hardness - 4½												

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag oz/t.	VISUAL LOG
101	106.2	Quartz vein	Grey, white mottled by c.c. stngrs. & patches. Bx'd & silicified. Frequent bleached rx. frags to 2cm (angular) from 105' to 106.2' Abundant hairline to 2mm c.c. stngrs. in criss cross pattern. RQD - 93% Hardness 6-7	Py - traces; euh. cubes & on fracs.	102.3	103'	Bx'th Banding C/C L.C.	45° 35° to C.A. Gradational to Bx.	101	102.4	1.4'	3330	0.011		0.17	
									102.4	105	2.6	3331	0.013		0.07	
									105	106.2	1.2	3332	0.027		0.07	
106.2	109.2	Silicified Breccia	Lt. beige with grey-white mottling of. quartz veining; up to 50% qtz, 45% silicified feldt frags, 5% cc. Tiny Rx frags. mostly have pyrite rims of 0.1 to 0.2mm wide Some qtz. veining has c.c. core or chalcedonic banding; RQD - 100% Hardness 5½						106.2	109.2	3.0	3333	0.013		0.06	
109.2	116	Silicified Breccia	Same as 106.2 to 109.2 but with < Qtz, > Rx frags; 35% Qtz. At least 2 phases of Qtz as veins, X-cut others! RQD - 60% Hardness 5½.						109.2	115	5.8	3334	0.008		0.06	

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT Pearl/Illusion
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-3
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY T. DROWN
DATE LOGGED NOV 10/84 (5:35 pm)

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM – TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
116	125	Dacitic Tuff (Breccia)	Beige to grey. In Part brecciated. V.f.g. tuffaceous to clasty, fragments in otherwise massive beige tuff matrix. Abundant c.c. vnlts., Tr. diss. py., where laminated bedding at 30°±0CA. Hardness 4½ RQD. – 80%	-C.C. stringers -fg – diss (minor) -contacts (mostly) -Sericite alt'n of tuff clasts where bxtd.	123'	Bedding	30°±0CA								
			FOOT OF HOLE.												

DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
		Footage	Azimuth	Dip
NORTH	9923.51			
EAST	8858.22			
ELEVATION	2828.83			
AZIMUTH	080.35°			
DIP	+30.89°			
MAP REFERENCE		METHOD:		

PROJECT Reed / Union
PROPERTY NAME Union Main
DRILLING CONTRACTOR Beaubar Diamond Drilling
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE Main Vein Extension.

HOLE Nº.	PU-4
CLAIM NAME	
COMMENCED	NOV 10/84
FINISHED	NOV 11/84
LOGGED BY	T. DRown
DATE LOGGED	NOV 11 1984

INTERVAL FROM (m) Ft	INTERVAL TO (m) Ft	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
0	24	Cherty tuff Andesitic	Andesitic groundmass; Dk. green, mottled by dk. beige cherty tuff clasts. Ghostly outlines of 1-2mm plag. phenos. Nom c.c. vnlts, Finely laminated where not brecciated. Nom. Py filled fractures, Minor diss. py. Hardness 4½ RQD – 61%	C.C. Vnlts Py – diss. minor – fracs, mostly.											
24	36.9	Cherty tuff Bx.	Dk. grey – beige; Grey & beige (minor) clasts of laminated silty tuff & cherty (massive) tuff in grey-green gritty tuff matrix. Occasionally laminated where not bx'd. RQD – 88%; Hardness – 5	– C.C. Vnlts, common Py – mostly on fractures Blk-limey Py gouge & bx. frags	36.5 36.9'	Py fracts. Bedding Fault Bx	30°, 60° 46° to CA. 45° to CA.								
36.9	82	Cherty tuff.	Grey – beige; finely laminated mostly. Occas. jumbled section (bx)	Py – diss, minor – Tr on fracs. C.C. vnlts. frequent	46.6 49.6	Bedding Bx'd	40° 40°								

DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
NORTH		Footage	Azimuth	Dip
EAST				
ELEVATION				
AZIMUTH	≈ 080°			
DIP	+30°			
MAP REFERENCE		METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.	PC-4
CLAIM NAME	
COMMENCED	
FINISHED	
LOGGED BY	T. Rawn
DATE LOGGED	

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
			RQD - 87%												
			Hardness - 5												
82.	88.3	Breccia (Multi-Lith)	Grey, mottled multi-lithic breccia; Clasts ang. to rounded of above unit, limestone, chert & rebrecciated frags of beige cherty bx., conformable L.C. with soft sediment slump features into underlying silty tuff. Groundmass of grey cherty grit. Hardness - variable 4-5½ RQD - 90%	Py - trace only C.C. - trace.		L/C. U/C.	45° to CA 40° to CA								
88.3	119.6	Cherty tuff Breccia	Grey, beige mottled occasionally by beige clasts of Lamin. dust (silty tuff.) Clasts to 5cm; mostly of grey-beige cherty & dusty tuffs (50:50) C.C. common as stringers as bx. filling Hardness - 5; RQD. - 88%	C.C. - on fracs - bx. filling	107/108'	Bedding L/C with silic. Bx.	50° to CA 30° to CA.								

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH ± 080°			
DIP ± +30°			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PC-4
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM – TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag %	VISUAL LOG
119.6	121.3	Silicified Breccia.	Grey; silicified equiv of above Bx. unit. 25-35% Qtz as Patches, cross cutting veinlets 0.5 to 2cm across Ground mass largely replaced by quartz. Clasts mostly intact except where cut across by Q.veins. Minor hairline c.c. vnlts. Hardness 5½-6 RQD – 100%			Qtz Veinlets	40° to C.A.	119.6	121.3	1.7	3335	0.001		0.03	
121.3	124.3	Quartz Vein.	Grey, white mottled, brecciated & silicified. 80% Qtz, Some tuff frags remain; Abun. X cutting c.c. veinlets hairline to 2mm. 1% diss py. Alt'n on most fracs. Hardness 6½-7 RQD - 100%	Py-diss – 1% & on fracs. c.c – vnlts.				121.3	124.3	3.0	3336	0.003		0.04	
124.3	126.8	Porphyry dyke.	Grey, white speckled by clay alt'd plag xtals to 1.5 mm. Chlorite spots to 1mm after some matic. Hardness 4½. RQD - 100%.			4C U/C	45° 40°	124.3	126.8	2.5	3337	0.001		0.04	

2.1' Tuff

1.7' Tuff

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH ± 080°			
DIP ± 30°			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. DL-4
CLAIM NAME
COMMENCED Nov 10 1984
FINISHED Nov 11 1984
LOGGED BY T. Brown
DATE LOGGED Nov 11 1984

INTERVAL FROM (m)	INTERVAL FROM (ft)	INTERVAL TO (m)	INTERVAL TO (ft)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP–DIR	SAMPLE FROM (m)	SAMPLE FROM (ft)	SAMPLE TO (m)	SAMPLE TO (ft)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag oz/t.	VISUAL LOG
126.8	3.3	131.5		Silicified tuff-Bx.	Grey, ~~10 to 15%~~ Qtz, Mostly replacing matrix of Bx. Similar to 119.6 to 121.3'. Hardness – 5–6 RQD – 95%						126.8		131.5		4.7	3338	0.001		0.12	
131.5	4.3	138.3		Quartz Vein.	Grey; massive & bx'd – silicified with num. white c.c veinlts in criss Xing fashion. 2% diss. py; & on most fractures. Upper contact gradational ~~&~~ silicified Breccia with up to 70% Qtz. as leave vein. Hardness 7 RQD – 94%	Pyrite – on fracs & ~2–3% diss. C.C. – hairline to 1mm wide.			L/C	60° to CA.	131.5'		136.6		5.1	3339	0.013		0.48	
											136.6		138.3		1.7	3340	0.002		0.18	
138.3		144		Chl-py tuff Breccia	– Beige clasts to 5cm in greenish-grey gritty matrix; Where less Bx'd; Laminations in Bx clasts continuous from clast to clast. Hardness – 5 RQD – 100%	Chl – py on fracs common Py – fr diss. C.C. – occas. veinlts.	143		Bedding	40° to CA.										

FOOT OF HOLE!

UNION GOLD PROJECT

DATE: Nov 1, 1984 — DRILL HOLE: DU-4

FROM	TO	WIDTH	RECOVERED	FROM	TO	WIDTH	RECOVERED
0	3	3.0	0.5				
3	8	5	5				
8	14	6	6				
14	19	5	5				
19	24	5	5				
24	28	~~4~~	~~5~~ 4				
28	33	5	5				
33	38	5	5				
38	43	5	5				
43	49	6	6.				
49	144	95	95				
			141.5				
	100%	141.5 / 144	= 98%				

DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
NORTH	9921.94	Footage	Azimuth	Dip
EAST	8855.70			
ELEVATION	2829.83			
AZIMUTH	098.38°			
DIP	+55.08°			
MAP REFERENCE		METHOD:		

PROJECT Read / Union
PROPERTY NAME Union Main
DRILLING CONTRACTOR Rainbow Diamond Drilling
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE Main Vein Extension

HOLE Nº.	U-5
CLAIM NAME	Union
COMMENCED	Nov 11/84
FINISHED	Nov 13/84
LOGGED BY	T. DeRoun
DATE LOGGED	Nov 12/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
0	39.4	Cherty tuff (Andesite)	Dk. grey-green, beige-white mottled with cherty tuff clasts & c.c. respectively. Ghostly outlines of 1-2mm plag. phenos in clasts? Laminated where less broken. Hardness 4½-5. RQD - 79%	Py - diss - Tr - On fracs Tr c.c. - veins.		Bedding	25° to C.A.								
39.4	44.7	Pacific Rusty tuff.	Grey, Laminated, beds <1mm to 1cm thick; mostly 2-3mm. Num. c.c veins ~~in~~ criss ~~cross~~ X ing fashion. Locally brecciated & filled by c.c. Soft sediment faulting with offsets of laminae 1mm to 2cm. Hardness 5, RQD-75%			Bedding	30° to C.A.								
44.7	47.3	Cherty ~~Breccia~~ tuff	Dk. green, white mottled by c.c. in Bx. matrix. Matrix mostly chloritic, andesite; Tuff frags 3mm to 2cm; subrounded. Hardness 4½ RQD-89%	Py - 3-5% mostly as patches. c.c. - 3-5% with Py		L/C.	30°								
						U/C	30°								

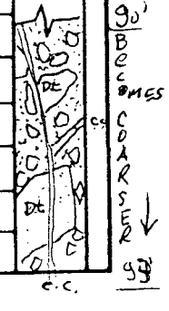
DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PL-5
CLAIM NAME Lucien
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL FROM (m) ft	INTERVAL TO (m) ft	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS	VISUAL LOG
47.3	62.5	Cherty tuff Bx.	Greeny-beige, occasionally laminated where not bx.t'd., Clasts to 3cm, fit together, more shattered than syngenetic Bx. Similar to 0 to 39.4 but lighter colour; Hardness 4½ RQD-84% Grading upwards to a dusty tuff. similar to 39' to 44.7'	c.c.-patches -vn lts. 45°, 60° Py-diss-Tr -on fracs 2%	47.3' 45.9'		Fault Bedding	35° to CA 30°								
62.5	85.1	Dusty tuff.	Grey-beige; v.fgr, aphanitic dusty tuff; thin Laminae to 1cm; mostly 2-3 mm. Occas. broken/shattered section Num. cc. stryes. Py stryes to 1mm @ 45°±60°; RQD-94% Hardness 4½	Py-fracs Tr. -diss.. Tr. c.c.-mostly 60°	64'		Bedding	35° to CA								
85.1	99.4	Dust tuff Breccia	Grey-green with frags with greenish matrix. Clasts of dust tuff, often bleached to lt. green/beige on margins Hardness-4½ RQD 95%	Py-diss Tr -fracs 1%. cc. vnlts common			c/c ↑ l/c ↓	30° 35°								



DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. RL-5
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY T. O'Rourke
DATE LOGGED Nov 12/13

INTERVAL FROM	INTERVAL TO	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
99.4	111.4	Multi Lithic Breccia	Beige-green-grey; Clasts up to 6 cm, consisting of beige cherty tuff, grey limestone, greeny cherty tuff, andesite porphyry & white quartz. Matrix of Bx is Limey, greenish-grey-beige cherty tuff with flow textures & swirls around clasts. Hardness - 4-6½ RQD - 83%.	Py - Tr on fracs C.C. - Tr. as patches only.			L/C	~~Elf~~ 35°								
							U/C	30°								
111.4	117.2	Tuff Breccia	Beige-green, with grey mottling by grey ~~clasts~~; frags. Matrix largely greenish tuff. Frags mostly beige silty to cherty tuff. Some frags/bleached rims fresh cores. Hardness - 5 RQD - 78%	- Sericite alt'n of frags causing bleeding.			Bedding	Too jumbled to feel.								

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.	PL-5
CLAIM NAME	
COMMENCED	
FINISHED	Nov 13/84.
LOGGED BY	
DATE LOGGED	Nov 13 84

INTERVAL		LITHOLOGY		ALT'N – MIN.	DEPTH	STRUCTURE		SAMPLE				ASSAYS			VISUAL LOG	
FROM (m) / ft	TO (m) / ft	ROCKTYPE	DESCRIPTION		FROM TO	STRUC.	DIP – DIR	FROM (m)	TO (m)	WIDTH	Nº.	Au oz/t.	Au ppb	Ag o/t		
117.2	130.4	Tuff Breccia	Grey to lt. green; brecciated cherty tuff; frags up to 5 cm, mostly < 2 cm; Matrix of Bx is grey-green -black grit; hardness 4½ - RQD - 85%	c.c. Stgys. in mtrx		L/C	60°/CA.									
						U/C	30°/CA.									
				Py-diss Tr -on frac's 1%												
130.4	156.3	Feldspar Porphyry. (Dyke)	Dyke on F.W. of vein? Grey; white speckled by 1-3 mm plagioclases. in grey-green sericitized groundmass. Plag phenos mostly kaolinitized. 0.2 to 0.5 mm patches of black-green chlorite after matrix; Often with py cores RQD - 62% Hardness 4½	Py-diss & patches 1% -on frac's mtrx.		L/C	30°/CA.									
				cc-vnlts, hairline size common -2-3 mm wide												
				frequent; 2 per 10 cm.												
156.3	169.8.	Silicified Tuff	Grey-beige mottled; Frags of beige cherty tuff floating in matrix of quartz & tiny breccia frags. 15 to 20 % Qtz.	Py-diss-Tr- -frac's Tr. cc-hairline vnlts common mina patches of 2% Py over 5 cm length.				156.3	163.	6.7	3341	0.004		0.18		
								163	169.8	6.8	3342	0.063		0.28		

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-5
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 13/84.

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag oz/t	VISUAL LOG
			~~Hardness~~. Frags. rounded to angular. Qtz as vnlts and bx. fillings. Hardness variable 4½-7 RQD-48%												
169.8	172.8	Quartz Vein	Massive grey quartz. 5% Pyrite, diss, patches & on fracs. Minor chloritic rx. frags. Non hairline cl. stngrs. Hardness - 7 RQD. - 40%.	Py - diss 5% Grey-black sulphide 1%. cc. - hairline vnlts chlorite - with Py on fracs.		L/C U/C.	20° 40CA Gradational.	169.8	172.8	3.0	3343	0.032		0.34	
172.8	176.4	Quartz Vein.	Chloritic greeny-grey; 5-8% Pyrite, 1% black sulphide? Some Rx frags. Calcite patches & vnlts to 1cm. This may be section of silicified porphyry dyke as frequent rectangular white patches may indicate feldspars. Hardness - 6; RQD - 94%	Py - patches & diss 5-8% Blk sulphide 1% (not with py) cc. - common as vnlts & patches. chlorite - 6-10% of Rx			Sphalerite & Galena	172.8	176.4	3.6	3344	0.284		3.41	

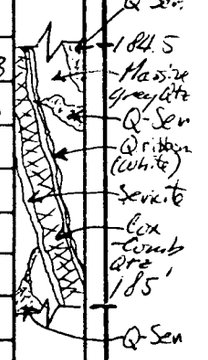
DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
NORTH	Footage	Azimuth	Dip
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PM-5
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 13/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM-TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag oz/t	VISUAL LOG
176.4	193.7	Quartz Vein	Massive & brecciated, grey, white mottled by multiple Si.Oz phases. Occas. clay patch 4cm round. Frequent rusty patches (hematite?) at 15cm intervals for 5cm. Frequent rock fragments brecciated (angular) & cemented by quartz. Hardness 7 I RQD-45% Sericite occurs as felted masses w. Fr secondary quartz & as envelopes along 2nd ang qtz vn lts RQD-55% Hardness-7	Py-disseminations & patches 3-5% -on fractures 2% Hematite-Traces Clays-1-2% Chlorite-Minor. Sericite-envelopes on second phase qtz vn lts.				176.4	180	3.6	3345	0.091		2.86	
								180	182.5	2.5	3346	0.061		2.20	
								182.5	185	2.5	3347	0.154		3.32	
								185	190	5	3348	0.402		10.73	
						More sericite than others. →		190	193.7	3.7	3349	0.432		11.20	
193.7	195.1	Silicified Tuff.	Beige-cream coloured, with hairline to 3mm Qtz. Vn lts at 40°, 60°, crossXing. Pyrite frequently as envelopes of qtz vn lts. RQD-0% Hardness-4½ overall.	Py-with Qtz 3% -disseminations Tr				193.7	195.1	1.4	3350	0.024		3.38	



DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PH-5
CLAIM NAME
COMMENCED
FINISHED Nov 13/84
LOGGED BY T.I. Dolmage
DATE LOGGED Nov 14/84

INTERVAL FROM (m) ft	INTERVAL TO (m) ft	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP–DIR	SAMPLE FROM (ft)	SAMPLE TO (m) ft	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag/t	VISUAL LOG
195.1	210	Quartz Vein	Grey – massive & bx'd, silicified with 2nd phase white quartz ± sericite-pyrite envelopes & patches. Traces of reddish hematite whisps where core has less sericite. RQD – 45% Hardness – 6-7	Qtz-Sericite -5% ser Py – 5-8% disc in old & new Qtz – on fracts/%.				195.1	201.4	6.3	3351	0.283		29.08	
								201.4	205	3.6	3352	0.140		2.22	
								205	210	5.0	3353	0.172		2.33	
210	223.5	Quartz Vein & Silicified Tuff	Quartz vein mostly with 20% Angular tuff frags, surrounded & silicified by grey-white quartz. Chlorite 5-8%, mostly in matrix with quartz; Not in frags. RQD, 85% Hardness. 5-6	Py – 5% disc & on fracs Chlorite-with Qtz cementing frags				210	215	5	3354	0.017		0.17	
								215	220	5	3355	0.004		0.12	
								220	223.5	3.5	3356	0.222		8.17	
223.5	229.5	Quartz Vein	Grey massive & bx'd – silicified qtz. Similar to 195.1 to 210' in Py-Ser content & Texture RQD-95%	Py – 5-8% Qtz-Sericite with Py				223.5	229.5	6.0	3357	0.222		8.17	

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PH-5
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY T. Dixon
DATE LOGGED Nov 14/84

INTERVAL		LITHOLOGY		ALT'N – MIN.	DEPTH	STRUCTURE		SAMPLE				ASSAYS			VISUAL LOG
FROM (m) ft	TO (m) ft	ROCKTYPE	DESCRIPTION		FROM TO	STRUC.	DIP – DIR	FROM (m) ft	TO (m) ft	WIDTH	Nº.	Au oz/t.	Au ppb	Ag o/t	
229.5	235	Silicified Tuff.	Grey-beige; mottled.					229.5	235	5.5	3358	0.086		6.82	
			Beige tuff frags (angular)	Py – 3%											
			floating in grey Qtz matrix.	Ser – tuff frags											
			3% Py, Tr – Scheelite.	Clay – tuff frags											
			RQD – 0%	Feldspars.											
			Hardness 5-6½												
			Broke into old workings												
			at 235'												

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PV-5
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 13/84.

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag oz/t	VISUAL LOG
			~~Hardness~~. Frags. rounded to angular. Qtz as vnlts and bx. filling. Hardness variable 4½-7 RQD-48%												
169.8	172.8	Quartz Vein	Massive grey quartz. 5% Pyrite, diss, patches & on frac's. Minor chrsty px. frags. Many hairline c.c. stgrs. Hardness - 7 RQD. - 40%	Py - diss 5% Grey-black sulphide 1%. c.c. - hairline vnlts chlorite - with Py on frac's.		L/C U/C.	20° 40CA Gradational	169.8	172.8	3.0	3343	0.032		0.34	
172.8	176.4	Quartz Vein.	Chloritic greeny-grey; 5-8% Pyrite; 1% black sulphide?; Some Rx frags. Calcite patches & vnlts to 1cm. This may be section of silicified porphyry dyke as frequent rectangular white patches may indicate feldspars. Hardness - 6; RQD - 94%	Py - patches & diss 5-8% Blk sulphide 1% (not with py) c.c. - Common as vnlts & patches. chlorite - 6-10% of Rx			Sphalerite & Galena	172.8	176.4	3.6	3344	0.284		3.41	

UNION GOLD PROJECT

DATE: Nov 12/94

DRILL HOLE: DU-5

FROM	TO	WIDTH	RECOVERED
0	5	5	4
5	10	5	5
10	15	5	5
15	20	5	5
20	25	5	5
25	30	5	5
30	35	5	5
35	40	5	5
40	45	5	5
45	50	5	5
50	55	5	5
55	57	2	2
57	60	3	3
60	65	5	5
65	70	5	5
70	75	5	5
75	80	5	5
80	85	5	5
85	90	5	5
90	95	5	5
95	100	5	5
100	105	5	3
105	110	5	5
110	115	5	5
115	120	5	5
120	125	5	5
125	130	5	5
130	135	5	5
135	140	5	6
140	145	5	5
145	150	5	5
155	160	5	5
160	165	5	5
165	170	5	5
170	175	5	5
175	180	5	5
180	182.5	2.5	2.5
182.5	185	2.5	2.5
185	190	5	5
190	195	5	5
195	200	5	6
200	205	5	5
205	210	5	5
210	215	5	5
215	220	5	5
220	225	5	5
225	230	5	5
230	235	5	2

Total

% Recovered = $\frac{231'}{235'} \times$

$= 98\%$

DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
		Footage	Azimuth	Dip
NORTH	9923.52			
EAST	8847.95			
ELEVATION	2828.52			
AZIMUTH	297.47°			
DIP	+46.26°			
MAP REFERENCE		METHOD:		

PROJECT Peak/Union
PROPERTY NAME Union Mine
DRILLING CONTRACTOR Rainbow Diamond Drilling
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE Main Vein Extension

HOLE Nº.	PU-6
CLAIM NAME	Union
COMMENCED	Nov 13/84
FINISHED	Nov 14/84
LOGGED BY	T. Dixon
DATE LOGGED	Nov 14 to 15th/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP–DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
0	16	Andesitic Cherty-tuff	Dk. to Lt. green. Frequent 1-2mm plag. ghosts visible. Laminations at 65°. Hairline to 1mm c.c. vnlts common. Frequent beige laminae of cherty tuff, 0.5 to 1cm wide. Hardness 4½ RQD = 30%	Py-diss-Tr -mostly on fractures 1%			Bedding	65° to CA.								
16	27.8	Cherty tuff	Cherty tuff. Beige clasts with dk. green andesitic gritty groundmass. Abundant c.c. vnlts hairline to 1cm. In part brecciated. Chlorite common in groundmass. Hardness 4½ RQD - 100%	chlorite - in grnd-mass			Bedding	60° to CA.								
				Py-diss Tr -on fracs Fr.												
							Fault U/C	60° to CA.								
27.8	54.5	Cherty tuff Breccia	Similar to above unit but grey-lt. beige, and more broken. Much c.c. as vnlts ± 1cm pyrites. Hardness - 4½ RQD - 100%	Py-diss 2-3% ± on fracs.												

DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
NORTH		Footage	Azimuth	Dip
EAST				
ELEVATION				
AZIMUTH				
DIP				
MAP REFERENCE		METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.	
CLAIM NAME	
COMMENCED	
FINISHED	
LOGGED BY	
DATE LOGGED	

INTERVAL		LITHOLOGY		ALT'N – MIN.	DEPTH	STRUCTURE		SAMPLE				ASSAYS			VISUAL LOG	MIN.
FROM (m/ft)	TO (m/ft)	ROCKTYPE	DESCRIPTION		FROM TO	STRUC.	DIP-DIR	FROM (m)	TO (m)	WIDTH	Nº.	Au oz/t.	Au ppb	Ag g/t		
54.5	64.4	Cherty Argillite (possible tuff)	Black with minor hairline to 0.5 mm c.c. vnlts. Massive rock. Cut by Q.Vs. at 62.1' to 62.4' @ 30° to CA & 62.8 to 62.9 @ 40° to CA. Hardness 4½ RQD - 100%			C/C	60°									
64.4	69.5	Quartz Vein	Massive & Bxtd white. green mottled Q.V. Chlorite-sericite patches & along fractures. Occasional beige tuff fragment. Hardness 6½-7 RQD - 95%	Py - diss Tr-1% on fractures & vnlts 3%.				64.4	69.5	5.1	3359	0.018		0.76		
69.5	72	Cherty tuff.	Grey; massive, possibly silicified Unit from 54.5 to 64.4'. Cut by occas. qtz vnlt to 3 cm wide at 40° & 60° to CA. RQD - 100% Hardness 5	Py - Traces mostly on fractures				69.5	72	2.5	3360	0.005		0.41		

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 15/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag%	VISUAL LOG
72	76.8	Quartz Vein.	White-grey mottled. Bx't'd & Silicified; Frequent greeny (sericite-chlorite?) patches. RQD-85%, Hardness 7	Qtz-sericite Py-Tr to 1% relatively barren looking			L/C	65° to CA.	72	76.8	4.8	3361	0.004		0.19	
76.8	78.5	Silicified & Bx't'd Tuff.	Beige, grey mottled by qtz stgrs.; 15-20% Qtz as hairline to 1cm veins & patches. Hardness 5, RQD-95%	Silicification & Bleaching of Tuff frags.			U/C.	60° to CA.	76.8	78.5	1.7	3362	0.007		0.25	
78.5	81.8	Qtz. Vein.	Grey-beige mottled with up to 20% tuff frags. broken & Silicified: Pyrite minor <1%. Mostly on fractures & veins. Hardness 6-7, RQD-98%	Silicification of Tuff frags Py-<1% total.			Ch U/C	70° to CA.	78.5	81.8	3.3	3363	0.024		0.17	
81.8	85.4	Porphyry Dyke.	Med. green; white speckled by 1-2 mm plag. phenos. Plag. largely sericitized in matrix & phenos; RQD-100%	Py-diss 1%												

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
NORTH	Footage	Azimuth	Dip
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 15 '84

INTERVAL FROM (m)	INTERVAL FROM (ft)	INTERVAL TO (m)	INTERVAL TO (ft)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
85.4		95.4		Dacitic tuff-Bx	Grey-beige; clasts with greenish gritty groundmass. Clasts massive to chloritic. Abundant c.c. as stgrs. Bx. Frags all shapes, up to 5cm size, Hardness 4½ RQD. - 95%	Py - diss 1% ± on fracts.													
95.4		101		Siltstone tuff.	Black; Finely Laminated Num hairline to 1mm c.c. vnlts. at all xs. Hardness 4½; RQD-95% Similar to chloritic argillite seen earlier in hole but with fine laminations.	Py - Tr. mostly on fracts.			Bedding L/C (irreg. shape)	68° to CA. 45° to CA.									
101		123.5		Dacitic tuff.	Grey; Frequently laminated Clasts (Fragments) mostly of grey dacitic tuff; Ang. to subrounded. Dust to 3cm. sizes: Num, c.c. vnlts, up to 1cm wide. Hardness 5 RQD - 95%.	Py - diss <1% - on fracs Tr. C.C. - stgrs.			Bedding	45° to CA.									

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL FROM (m/ft)	INTERVAL TO (m/ft)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	MIN
123.5	140	Silty tuff. (PST)	Black & grey mottled, Thinly laminated. Frequent grey laminations in mostly black rock. Num. c.c. vnlts to 0.5cm. Hardness 4½ RQD - 98%	Py - Tr. c.c. vnlts.			Bedding U/C L/C Vnlts.	60°↑CA 60° 60° 30°, 50°									
140	143.8	Cherty tuff.	Grey; massive, Sub conchoidal fracturing. Mottled with cream col. patches; Possible alt'd. patches. Hardness 5½, RQD - 80%	Py - diss 3% v.f.g. c.c. vnlts common mostly <0.1mm													
143.8	152.2	Silty tuff PST	Black; Finely laminated Similar to 123.5' to 140' Num. white c.c. vnlts. mostly 0.5 mm size at 60°, 20° in Criss Xing fashion.	Py - 3% v.f.g diss & on fracs.		151 151.5	Bedding U/C Fault	60°↑CA 50°↑CA 20°↑CA									
152.2	~~155.8~~ 158.8	Dacitic tuff-Bx	Grey-beige; Same as 85.4 to 95.4'. Hardness - 4½ RQD - 100%														

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
NORTH	Footage	Azimuth	Dip
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 15/84

INTERVAL FROM (m)/ft	INTERVAL TO (m)/ft	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM/TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
~~138.8~~	161.1	Silty tuff	Black, finely laminated and some 1 to 2cm ~~beds~~ beds of limey tuff. V.f. grained pyrite on ~~bedding~~ planes & fracs. RQD - 90% Hardness - 4 1/2	c.c. - vnlts minor Py - diss Tr - mostly on fracs & bedding.		Bedding L/C U/C.	45°/CA 30° 40°								
161.1	173.9	Andesitic Bx. to Lapilli tuff.	Med. green with beige-grey patches after beige-grey frags (clasts) Clasts of aegite porpho andesite, beige docite, grey limestone & andesite tuff. Pyrite common on fractures, & some diss Hardness - 5 RQD - 75% Upper contact bx'd - bleached	Py - diss 1% - on fracs 2% c.c. - vnlts & ~~clots~~ OR on fracs.		U/C	40° 45 CA.								
173.9	177	Silty tuff. Bx	Black - grey, with patches of beige-grey frag docite - limestone clasts respectively. Num c.c. stgrs. Hardness 4 1/2 RQD - 90%. FOOT OF HOLE	Py - mostly on fracs. 1-2% c.c. - abundant as vnlts.		L/C	40° & Bx'd								

UNION GOLD PROJECT

DATE: Nov 15/84

DRILL HOLE: PU-6

FROM	TO	WIDTH	RECOVERED
0	6	6	3
6	11	5	5
11	16	5	5
16	21	5	5
21	26	5	5
26	31	5	5
31	37	6	6
37	42	5	5
42	47	5	5
47	52	5	5
52	57	5	5
57	62	5	5
62	67	5	5
67	72	5	5
72	77	5	5
77	82	5	5
82	87	5	5
87	92	5	5
92	97	5	5
97	102	5	5
102	107	5	5
107	112	5	5
112	117	5	5
117	122	5	5
122	127	5	5
127	132	5	5
132	137	5	5
137	142	5	5
142	147	5	5
147	152	5	5
152	157	5	5
157	162	5	5
162	167	5	5
167	172	5	5
172	177	5	5
		FOOT OF HOLE	

% Core Recovered

$= \frac{\text{Ft Core}}{\text{Ft drilled}} \quad \frac{174'}{177'} \times 100$

$= 98\%$

DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
		Footage	Azimuth	Dip
NORTH	9922.31			
EAST	8850.34			
ELEVATION	2829.45'			
AZIMUTH	301.46°			
DIP	+78.80°			
MAP REFERENCE		METHOD:		

PROJECT Pearl / Union
PROPERTY NAME Union Mining
DRILLING CONTRACTOR Kombow Diamond Drilling
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE Main Vein Extension

HOLE Nº. PU-7
CLAIM NAME Union
COMMENCED Nov 14/1984
FINISHED
LOGGED BY T. O'Connor
DATE LOGGED Nov 15 to 16/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
0	29.7	Dacitic Tuff	Grey-green with beige patches. Massive to very finely Xline. Occas. laminated. Kyrsto-chloritic units or fracture fillings to 0.5 mm wide. Hardness 5, RQD-50%	Py - diss - 1% -on fracs 1% cc - common as bairline units & as patches Epidote - Trace Chlorite - on fracs.			Bedding	~~180~~ 60° to CA								
29.7	29.7	Dacitic tuff Bx	Similar to above with same material as frags. in a darker green chloritic andesitic matrix. Frags to 3 cm long. Py - chl. on fracs & as tiny stgrs. RQD - 95% Hardness - 4½	Py - diss 1% -on fracs 1% cc. - Minor units												
29.7	31.9	Andesite tuff.	Dk. green. Fine grained Visible outlines of 0.5 to 1mm plag phenos. Minor fragmental ~~breccia~~ clasts to 1 cm. mostly rounded. RQD - 99% Hardness - 4½	Py - diss 2% - Minor on fracs cc - units & patches common.												

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. KL-7
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY T.Dicapo
DATE LOGGED Nov 16/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM-TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
31.9	56.5	Dacitic tuff-Br.	Beige-green with grey-green-beige clasts in beige-green matrix. Clasts subrounded to ang. up to 3cm. Sections of finer bx. & tuff some with coarser clasts. Hardness - Variable 4½-5½ RQD - 95%	Py - 2% -on fracs 2% c.c. - veinlets & patches to 1cm long -frequently with py in stgrs.	42' 55'	Bedding Bedding	30° to C.A. 40°								
56.5	63	Andesite	Dk. green v.f.g to massive, chloritic ~~matrix~~ - pyrite on stgrs. Chl. in center, Py along ~~rims~~ edges. Minor reddish hematite along stgrs with chl-pyrite. RQD - 100%; Hardness 4½	c.c. - patches & stgrs common to 1cm wide. Py - diss 1-2% -on fracs 5%		L/C U/C	40° to C.A. 45° to C.A.								
63	71.1	Dacitic tuff.	Beige-grey frags in green-grey matrix of grit. Clasts lapilli size (to 3cm) Mostly rounded - subrounded. Hardness - 5 RQD - 80%			L/C U/C	45° Grad.								

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PH-7
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 16/84

INTERVAL FROM (m) FT	INTERVAL TO (m) FT	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag o/t	VISUAL LOG
71.1	79.3	Dacitic	Grey; v.f.g. dusty nature	Py – mostly in												
		Dust	Some laminations at 45°	stgrs – 2%			Bedding	45°								
		tuff	Occas. section of coarser	c.c. – vnlts &												
			tuff to 1 cm long	patches.			U/C	40°								
			Minor tiny quartz stringers													
			(weakly silicified; proximal	SiO2 – vnlts 5%												
			to vein ?)													
			Hardness 4½ – 5													
			RQD – 100%													
79.3	82.6	Porphyry	Grey-green mottled; Speckled	Sericite of grnd.			L/C	50°								
		Dyke.	by white grey plag. to	mass												
			2 mm. Matrix largely	Py – 1% diss			U/C	65°								
			greenish from sericite.													
			Hardness 4½, RQD – 98%													
82.6	88'	Silicified	Grey. Massive v.f.g. Largely	Py – 2% mostly			L/C	65°	~~82.6~~	~~88'~~						
		Tuff.	Bx'd, cemented by Qtz.	with chl. in stgrs			U/C	60°	82.6	88'	5.4	3364	0.004		0.06	
			20 – 25% Qtz. Upper	cc – minor.												
			½ of section more massive	Qtz – 20 – 25%												
			& less bx'd but silicified													
			by tiny stringers of Qtz.													
			Hardness – 5½,													
			RQD – 75%.													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PH-7
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM – TO	STRUCTURE STRUC.	STRUCTURE DIP–DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag o/t	VISUAL LOG
88	93	Quartz Vein.	Grey. Nearly massive, Some Bx'd sections. 5% + greenish mineral within patches & veinlets, Possibly sericite. Hardness 6-7, RQD – 30%	Sericite – patches & stgrs. Py – mostly as stgrs 2-3%				88	93	5	3365	0.044		0.87	
93	97.3	Silicified Breccia.	Grey-green to beige with white-grey mottling from Qtz; 30% cementing Bx. Clasts of beige & green tuffs; some with bleached rims; frags rounded to subangular up to 4cm long. Bx. frags also of qtz indicating multi-phases of Qtz veining. RQD – 90% Hardness – 6	Py – 5% diss – 2-3% as irreg. patches c.c. veinlets common Sericite – as veinlet frequent.		L/C	Grad	93	97.3	4.3	3366	0.010		0.13	
97.3	101.8	Silicified Bx.	Similar to above with (50%) more quartz. More exotic appearance to Bx. Some clasts stockworked by Qtz. others eroded &/or bleached. RQD – 90% Hardness	Py – 5% diss – 2-3% as patches Ser – common as stgrs. c.c. – common as stgrs		L/C	Grad	~~REJ.~~							
						L/C	Grad.	97.3	101.8	4.5	3367	0.008		0.13	

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. 84-7
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 16/84

INTERVAL FROM (m/ft)	INTERVAL TO (m/ft)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM/TO	STRUCTURE STRUC.	STRUCTURE DIP–DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag g/t	VISUAL LOG
101.8	104.6	Quartz Vein.	Grey-green. Minor broken soft frags. to 2cm long. 80% Qtz. Abun. c.c. stgrs in Criss Xing fashion some with sericite? (or greeny clay mineral?) Qtz. largely Bx'd & silicified with visible Qtz. Bx frags floating in massive quartz. Hardness 7, RQD – 50%	Py – diss < 1% – on frac's 1–2% c.c. – abundant as stgrs. Ser – altn of rx. frags & as stgrs.				101.8	104.6	2.8	3368	0.004		0.06	
104.6	109	Quartz Vein	White-grey; mottled by bx'tn & re-silicification. Patches of light green clay? (Sericite) possibly once rock frags assimilated in vein. Looks barren!! RQD – 85%, Hardness 7	Py – 1–2% most diss – on frac's 1% Ser-altn of assimil. rock frags.				104.6	109	4.4	3369	0.005		0.05	
109	111	Silicified Bx.	Grey-green: Grey qtz. (30%) cementing rx. frags (soft) c.c. v. rare frequent with sericite stgrs. Hardness 6 RQD – 100%	Py – 1% diss – on frac's Tr.				109	111	2	3370	0.001		0.05	

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
NORTH	Footage	Azimuth	Dip
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PM-7
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
111	114	Tu-A Bx.	Grey-beige: Massive & Bx'td. Weakly silicified 10% Qtz as vnlts. Some green clay mineral as stngrs. possibly sericite or montmorillonite. Occurs frag. within rx. frags. Hardness - 5 RQD - 85%	Py - 2-3% Cc - as vnlts Ser-Mont? - stngrs.												
			FOOT OF HOLE @ 114'													

UNION GOLD PROJECT

DATE: Nov 16/84 DRILL HOLE: DDH A4-7

FROM	TO	WIDTH	RECOVERED	FROM	TO	WIDTH	RECOVERED
0	9	9	7				
9	14	5	5				
14	19	5	5				
19	24	5	5				
24	29	5	5				
29	34	5	5				
34	39	5	5				
39	44	5	5				
44	49	5	5				
49	54	5	5				
54	59	5	5				
59	64	5	5				
64	69	5	5				
69	74	5	5				
74	79	5	5				
79	84	5	5				
84	89	5	5				
89	94	5	5				
94	99	5	5				
99	104	5	5				
104	109	5	5				
109	114	5	5				
	EOT OF HOLE						

Total Core Rec = 112' / Total Drilled = 114 × 100% = 98 % Recovered

PAGE 1 of 6

DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
		Footage	Azimuth	Dip
NORTH	9922.61			
EAST	8847.93			
ELEVATION	2829.07			
AZIMUTH	284.40°			
DIP	+47.25°			
MAP REFERENCE		METHOD:		

PROJECT Pearl Union
PROPERTY NAME Union Mines
DRILLING CONTRACTOR Rainbow Diamond Drilling
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE Main Vein Extension

HOLE Nº.	PU-8
CLAIM NAME	Union
COMMENCED	Nov 15/84
FINISHED	Nov 16/84
LOGGED BY	T. Quinn
DATE LOGGED	Nov 16 to

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
0	16	Dacitic Tuff	Greenish-beige; V.f.g. to massive with minor bx'd patches & veins. bedding laminae; Num. c.c. veinlts to 0.5 cm wide at 60°, 45°. I some c.c. patches. Hardness - 4½ RQD - 60%	Py - < 1% diss - 1% on frac's.			Bedding	60°								
16	38.8	Tuff Bx.	Dacitic tuff; Brecciated & fragmented vdc. Beige-green clasts to 3cm; mostly & beige-green fg. tuffs as above with greenish chloritic matrix. Matrix varies in colour depending on amount of beige or grey-green clasts. RQD - 90% Hardness - 4½	Py - Tr diss - 1-2% as vnlts cc - vnlts & patches.		22' 34.4'	Fault Bx	20° to CA								
						36'	Fault	40° to CA								
38.8	67	Multi-Lithic Breccia	Grey with beige & green mottling by variation in clast comp. Clasts mostly 0.5 to 1.5 cm; up to 3cm Clasts of beige, green tuffs,													

DIAMOND DRILL LOG

PAGE 2 of ____

Collar:	HOLE SURVEY		
NORTH	Footage	Azimuth	Dip
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.	
CLAIM NAME	
COMMENCED	
FINISHED	
LOGGED BY	
DATE LOGGED	

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	MINERALIZATION
			andesitic porphyry, limestone, and minor qtz (chert) pebbles (rounded clasts) Hardness – 5, RQD – 95% Occasional more massive green tuff sections; 57' to 58', 61.6' to 62'	Py – 1% mostly in ground mass or particular pyritic clasts. Num cc-veinlets ± patches.												
67	72	Cherty Argillite	Black, massive; cut by num. white 0.5 to 2 mm cc stages at various angles. Occasional quartz patch 2-3 cm long, discontinuous	Py – 3-5% mostly as stringers RQD – 100% Hardness 4½												
72	84.6	Cherty tuff	Grey; massive; in part fragmented (Bx td) into angular 0.2 to 1 cm pieces Contact with argillite below is very jumbled with 20° foliation to C.A. Hardness 5 RQD – 100%	Py – 2-3% as stringers only.		U/C	20° to CA with argillite ± Bx									
84.6	96	Cherty Argillite	As above RQD – 100%.			L/C U/C	40° to CA 40° to CA									

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL FROM (m)	INTERVAL FROM Ft	INTERVAL TO (m)	INTERVAL TO Ft	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP–DIR	SAMPLE FROM (m)	SAMPLE FROM Ft	SAMPLE TO (m)	SAMPLE TO Ft	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag o/t	VISUAL LOG
86		95		Porphyry Dyke	Grey-green, mottled & speckled by white plag. phenos 0.5 to 2mm long. Mostly euhedral. Cut by frequent black-grey pyrite stringers with chlorite. RQD – 100%, Hardness – 4½				U/C	40° to CA.										
95		100.4		Silicified Breccia	Grey, white mottled, grey breccia frags to 5cm, flooded & veined by grey &/or white quartz 50% quartz overall, locally 70%. Quartz has 2-3% Py, 0.5% Sphalerite. Tr Cpy. Sp both amber & black? Sulphides largely ppy bx frags (See drog) RQD – 100%, Hardness 6	Py – 2% Tr-Cpy Sp – ½ to 1% Otz – flooding @ 15° to CA					95		100.4		5.4	3371	1.086		62.71	
100.4		106.8		Cherty Argillite.	Black, massive as above L/C broken with some qtz flooding in first @ 10cm. Hardness 4½ RQD – 90%				L/C	40° to CA.	100.4		103		2.6	3443	0.031		1.62	
											103		106.8		3.8	3444	0.003		0.27	

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
NORTH	Footage	Azimuth	Dip
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PH-8
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 16

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP–DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag o/t	VISUAL LOG
106.8	111.7	Tuff	Grey; with black argillite	Py – as stgrs					106.8	109	2.2	3445	0.004		0.20	
		Breccia	frags & beige chalky tuff	only												
			frags. Pyrite only as stgrs.													
			Frags variable in size 1/cm													
			to 4cm long													
			Minor quartz clots, ≤ 5% of						109	111.7	2.7	3446	0.026		0.53	
			rock overall. RQD – 100%													
			Hardness – 5													
111.7	113	Quartz	Massive, white with vnlts	Py – 3%			Parallel	15°	111.7	113	1.3	3372	0.392		19.25	
			of Pyrite, rimmed with	Sp 1-2%												
			sphalerite (amber) and galena.	Ga – Tr.												
			with Traces of cpy.	Cpy – Tr.												
			Hardness 6 1/2 – 7,													
			RQD – 100%													
113	116.5	Multi-	Beige, grey, Pyritic quartz													
		Lithic	eye tuff ~~breccia to~~ ; limestone,	Py – 1-2%					113	116.5	3.5	3373	0.092		2.45	
		Breccia	beige chalky tuff & multi-	mostly with												
		(Silicified)	lithic bx frags in beige	qtz on vnlts.												
			gritty groundmass. Cut by	Qtz – 10%												
			frequent hairline to 2mm													
			qtz. vnlts. Hardness – 5													
			RQD – 100%.													

DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
		Footage	Azimuth	Dip
NORTH				
EAST				
ELEVATION				
AZIMUTH				
DIP	+45°			
MAP REFERENCE		METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.	PD-8
CLAIM NAME	
COMMENCED	
FINISHED	
LOGGED BY	
DATE LOGGED	

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag o/t	VISUAL LOG
116.5	117.6	Quartz	Grey, massive vein:			L/C	25° to CA.								
		~~Breccia~~	With 5-8% Py as patches	Py - 5-8%		U/C	30° to CA.								
		Vein.	& black sulphide (sphal.)					~~No Core~~							
			to 2%. as patches.	Blk sulphide - 2%				116.5	117.6	1.1	33714	0.011		0.36	
			TW of vein about ~~4~~ 8 cm.	(Sphal).											
			Occasional rock frags, lenticular												
			sericitized & clay alt'd.	Sericite after											
			Hardness 6½-7	feldspars in											
			RQD - 100%	rock frags.											
117.6	120.6	Multi-	As from 113-116.5 without												
		Lithic	weak silicification. Lst												
		Bx.	frags to 6 cm & rounded.												
			RQD - 100%, Hardness - 5												
120.6	127.9	Argillite	Black, with num, white-			L/C	Grad								
			grey stngrs. at C.C. at 30°,												
			45° to CA. in Criss Xing			U/C	40° to CA.								
			fashion. U/C brecciated												
			with overlying rx unit												
			containing argillite bx												
			frags. (tops is up!!)												
			Hardness 4½, RQD - 100%												

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP +45			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.	AL-8
CLAIM NAME	
COMMENCED	
FINISHED	
LOGGED BY	
DATE LOGGED	

INTERVAL		LITHOLOGY		ALT'N - MIN.	DEPTH	STRUCTURE		SAMPLE				ASSAYS			VISUAL LOG
FROM (m) / FT	TO (m) / FT	ROCKTYPE	DESCRIPTION		FROM / TO	STRUC.	DIP - DIR	FROM (m)	TO (m)	WIDTH	Nº.	Au oz/t.	Au ppb		
121.9	123	Multi-	As above unit 117.6 to			4/C	40°to C	A							
		Lithic	120.6' Contains frags												
		Breccia	of underlying argillite at												
			~~FOOT OF HOLE~~												
			Lower contact.												
			Hardness 5; RQD-100%.												
			FOOT OF HOLE 123'												

UNION GOLD PROJECT

DATE: Nov 16/84 | DRILL HOLE: UG-8

FROM	TO	WIDTH	RECOVERED	FROM	TO	WIDTH	RECOVERED
0	6	~~6~~	4				
6	11	5	5				
11	18	7	7				
18	23	5	5				
23	28	5	5				
28	33	5	5				
33	38	5	5				
38	43	5	5				
43	48	5	5				
48	53	5	5				
53	58	5	5				
58	63	5	5				
63	68	5	5				
68	73	5	5				
73	78	5	5				
78	83	5	5				
83	88	5	5				
88	93	5	5				
93	98	5	5				
98	103	5	5				
103	108	5	5				
108	113	5	5				
113	118	5	5				
118	123	5	5				

FOOT OF HOLE @ 123

% Recovered = Core Recovered / Core Drilled = ~~122~~ 121' / 123 × 100% = 98%

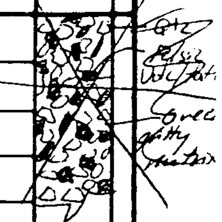
DIAMOND DRILL LOG

Collar:	
NORTH	10067.93
EAST	8399.61
ELEVATION	2825.75
AZIMUTH	001.39°
DIP	+45.00°
MAP REFERENCE	

HOLE SURVEY		
Footage	Azimuth	Dip
190'		+45°
METHOD:		

PROJECT Pearl / Union
PROPERTY NAME Union Mine
DRILLING CONTRACTOR Rainbow Diamond Drilling
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE Gold Stope Extension

HOLE Nº.	PU-9
CLAIM NAME	Union
COMMENCED	Nov 17/84
FINISHED	Nov 19/84.
LOGGED BY	T. DeRosen
DATE LOGGED	Nov 18 to

INTERVAL FROM ~~(m)~~ Ft	INTERVAL TO ~~(m)~~ Ft	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM/TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
0	27	Quartzite ~~Qtz~~ ?{ Altered Quartz Pebble tuff	Dark green, with white-beige spots from qtz. & felsic volcs respectively. Qtz. pebbles to 5 mm, subrounded to rounded. Mostly grey-white, Felsic volc ~~frags~~ grains/frags? to 1 cm often angular, mostly sub-rounded. 40% Qtz, 35% felsic material; Matrix is greenish gritty almost andesitic in composition. This is same rock as in N^th drift, may be fig. equiv. of PCG. Felsic grains appear to be more alt'n (Kaolinite) than grains; also occur as tiny stringers/vnlts cross cutting rock. RQD - 85% Hardness 6	Py - 2% diss & on vnlts. Clay - alt'n of felsic grains to creamy mass. Hem-Ep - Minor spotty, along fracs with calcite. c-c-vnlts common mostly hairline											
27	40.5	Dacitic ~~Andesitic~~ tuff.	Dark green, with red-brown hematite patches. Clasts from 1.0 mm to 2 cm; of above unit, ~~frequently~~ and green												

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PH-9
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
			f.g. dacite clasts to 1cm (minor 10% other 40%)	Py - 2% in clasts & matrix											
			Matrix is lt. green gritty												
			tuff, clasts < 0.5 mm size	Qtz-clay-as											
			with frequent creamy-beige	veinlets in		?									
			clay mineral. (kaolinite?)	matrix.		Bedding ?	35° to CA								
			Bedding indistinct by												
			may be at 35° to CA.	cc.-hem-veinlts											
				common.											
			(quartz rich & chloritic)												
				hematite-veinlts											
			Hardness - 4½-5½ variable	& locally in											
			RQD - 95%	matrix up to											
				5%.											
				Epidote-patches											
				& veinlts. minor											
40.5	50.5	Quartzite?	Same as 0 to 27' but			Bedding	?								
		Altered Quartz Pebble tuff?	end of section grading												
			into coarser, almost												
			pebble size; fg. conglomerate												
			with chloritic-quartzose												
			matrix. Hardness 5												
			RQD - 100%												

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PH-9
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM TO	STRUCTURE STRUC.	STRUCTURE DIP–DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
50.5	60	Altered Quartz-Pebble Feld-conglomerate.	Sericite to 0 to 2? with coarser qtz. pebbles to 2cm; Mostly in 1cm range Creamy felsic (clay rich) material as interstitial to quartz & as irregular shaped frags/pebbles. Foliation may be bedding. Creamy material very hard 6+; may be cherty. Matrix mostly chloritic – quartzose mush. RQD – 100% Hardness 5-7	Py – 2-3% mostly in matrix. Minor in pebbles.		U/C	35° to CA								
						Foliation	40° to CA								
60	70	Andesite Breccia (Lahar)	Med. green, 0.5 to 1mm dk green-black matrix (Augite) throughout Bx frags & matrix. Matrix of frags same as matrix of Bx, but a bit darker green in frags. Frags from block size to 1mm size. Frags mostly Sub angular. Larger may be vole. bombs.	c.c. – veins common but not frequent. Py – 1% in frags – not in matrix. Chl. – RQD – 100% Hardness 4 1/2		U/C	35°								
						U/C	70°								

Lgr Frag Matrix
Andesite Matrix
Chl.
And Frags
And Matrix

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. MM-9
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED NOV 18.

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP–DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS	VISUAL LOG
70	71.9	Altered	Same as 50.5' to 60'	Mod to more												
		Qtz-Pebble		Creamy matrix												
		Cherty		looks like												
		Conglom.		chert!			C/K	Foot Hill 75°								
71.9	72.8	Fault	Andesite frags. to 3 cm x 1				L/C	75° to								
		Bx.	cm floating in white c.c.					CA.								
			Mostly angular, lenticular				C/C	75°								
			frags. Some frags altd to													
			beige massive rock, similar													
			to creamy matrix above in													
			Conglomerate. RQD-90%													
			Hardness - 3 to 4½													
72.8	93.1	Andesite	Med-green, white-green	±80' mostly ~~Ep~~ Ser.												
		Feldspar	speckled by fresh / altered	± minor Ep alt'n												
		Porphyry	plag. phenos respectively.	of Feldspars.												
			Plag. to 2 mm long, largely	80+, base salmon												
			altered to sericite ± clay	hue of K-spar												
			epidote (minor)	alt'n in matrix & phenos.												
			Rock in part fragmental 20%	c.c.-veins minor												
			Hardness - 5	Ep - increases with			C/C	70° to								
			RQD - 100%	> K-spar alt'n,				CA.								
				Py - < 1%												

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
NORTH	Footage	Azimuth	Dip
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE No. DU-9
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 18/84

INTERVAL FROM (m/ft)	INTERVAL TO (m/ft)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m/ft)	SAMPLE TO (m/ft)	SAMPLE WIDTH	SAMPLE No.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag o/t	VISUAL LOG
93.1	121.5	Cherty Quartzite	Dark green-black with ss bands of reddish hem. at 10 cm intervals throughout. Same as 0'-27'; in coarseness. Minor Qtz-Hem stringers up to 0.5cm wide at 30 cm intervals at 70°, 45°, 30° to CA. Hardness - 5-7; RQD-98%	Py - 1-2%. c.c. - strgs throughout											
121.5	123.8	Cherty Quartzite.	Same as above but lighter colour ? several 2cm to 4cm qtz. Veins at 40° to CA. Hardness 5½; RQD - 100%.	Chl-hem envelopes to Qtz veins. Py - 2-3% in qtz. - 1-2% in rock.				121.5	123.8	2.3	3375	0.001		0.03	
123.8	128	Quartz Vein.	Massive; dark to H. grey with green chl-ser? patches & black-red. patches hem? unknown sulphates (? photolevite) Hardness 7, RQD - 100% (Very hard to drill!!)	Py - 5% Hem - 2-3% ± Blk sulphide or spk. hem ? photolevite. Chl-ser? - as bright grn. patches. c.c. - units common		U/C U/C Fault	35° to CA. 20° to CA.	123.8	128	4.2	3376	0.001		0.23	

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. RL-9
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 19/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS %/%	VISUAL LOG	MIN
128	129.2	Quartz Vein	As above with 30% rx. frags. Fault cuts off vein.			Fault	20° to CA.	128	129.2	1.2	3377	0.001		0.04		
		½ Fault + Bx														
129.2	149.3	Multi-lithic Conglomerate	Similar to cherty-quartz pebble conglom but with greater variety of rock type pebbles. Including. beige tuff, cherty tuff, grey quartz, grey limestone occasional epidotized tuff pebbles & one or two diorite pebbles. Pebbles imbricated allowing for bedding determination. RQD - 95%, Hardness 4-6	c.c. veins common Py - Tr diss in matrix, minor in clasts pebbles		Bedding	35°-40° TO C.A.								
149.3	155.2	Silty-cherty tuff	Grey-black: Laminae of alternating cherty tuff & silty tuff; 2-3cm thicknesses at 35°-40°. Hardness - 4½, RQD - 100%	c.c. veins common		Bedding	35°-40°									
155.2		Multi-Lithic Conglomerate	As above 129.2 to 149.3 With epidotized section of dk grey tuff from 159'/65.5'			Bedding	40° to CA.									

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PH-9
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 19/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP–DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS	VISUAL LOG
			180 – 185.5 – Finer grained conglomerate more like quartzite at some comps												
			185.5 to 200' Multi-lithic Conglomerate as before, with frequent L.stone cobbles to 6cm across, mostly rounded. RQD – 100%, Hardness 4½-7.												
			LAST 55' of hole had compressor problems & low air!												

DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
		Footage	Azimuth	Dip
NORTH	10064.367			
EAST	8399.459			
ELEVATION	2821.98			
AZIMUTH	139000°			
DIP	+~~25~~01°	188°		+26°
MAP REFERENCE		METHOD: ~~ACID~~ ACID		

PROJECT Bard / Union
PROPERTY NAME Union Mines
DRILLING CONTRACTOR Rainbow Diamond Drilling
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE Gold Stope Extension

HOLE Nº. BU-10
CLAIM NAME Union
COMMENCED Nov 19/84
FINISHED
LOGGED BY T. Drown
DATE LOGGED Nov 20 to 114

INTERVAL FROM (m/ft)	INTERVAL TO (m/ft)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM/TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (ft)	SAMPLE TO (ft)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
0	18	Dacitic tuff	Grey; beige mottling from beige clasts. Clasts mostly <0.5cm, some to 1.5cm. Beige felsic clasts mostly welded, compressed into spaces between cherty or/t qtz. frags & grains. 60:40 Qtz:Felsic clasts. Hardness - 5, RQD - 60%	Py - diss 1% Chlorite 3-5% + in matrix of tuff. c.c. - stgrs 1-2%.		L/C	65° to CA.								
18	27	Sharpstone Conglomerate	Grey; wht-beige mottled with qtz-felsic clasts respectively. Felsic clasts largely welded, Similar to above unit by coarser grained & less. chloritic matrix. 40% Qtz, ~~35~~% felsic clasts. 20% Greenish clasts & matrix. Hardness 5-6; RQD-90%	Py - 1% diss - 1-2% on frac's c.c. - vnlts - 1-2% Hematite - Tr as patches. *L/C - sheared may be fault contact.		*L/C	40° to CA								
27	34.8	Felsic Tuff	Lt. to dk. green; Alternating lt. (felsic) & dk (andesitic) ~~beds~~ layers with occasional Sharpstone conglom. bed or lens. Tuff clasts from 1cm to 10cm size.	Hem - reddish, in vns. & matrix. 1% Py - diss 1% - on frac. 1% Qtz - as hairline vns 10cm apart.		Bedding	60° to CA								

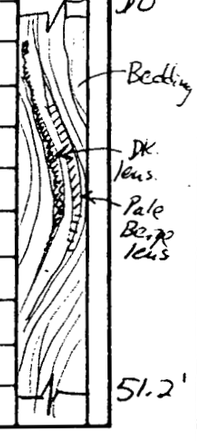
DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. DH-10
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 21/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM-TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
34.8	44	Andesite	DK. to med. green. Occas. beige	c.c.-vn lts 35°,80°											
		Tuff	felsic layers (1-2mm wide)	Py-diss 1%		Bedding	30°toCA								
			Texture variable, massive clasts	-on fracs. common		from felsic band									
			to f-g grnthy clasts; all of	at varying %s.	46'	Bedding	40°toCA								
			andesitic comp.												
			Hardness 4½-5, RQD-95%												
44	44.7	Multi-	Same comp. as Multi-Lithic	Py-2% as patches											
		Lithic	conglom. with >80% angular	to 2cm.											
		Breccia.	frags & shear planes at 20°toCA.	-1% as vn lts.											
			No bedding or welding of clasts												
			Grey-beige mottled. cut by												
			num cc. vn lts. to 5mm wide.												
			Hardness 5-7, RQD-100%												
44.7	51.2	Dacite	Dark green with lt. green	Py-Tr, only as		U/C	30°toCA								
		tuff.	swirls & bands & patches.	frac. fillings											
			Bedding is variable 5° to 30°												
			to CA. Hardness-5, RQD-95%												
51.2	54.8	Multi-	Similar to conglom. in			U/C.	40°toCA.								
		Lithic	comp. but felsic frags												
		welded	mostly welded & deformed												
		tuff.	by qtz. clasts (pebbles)												
			Clasts of grey-white & clear												



DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
		Footage	Azimuth	Dip
NORTH				
EAST				
ELEVATION				
AZIMUTH				
DIP				
MAP REFERENCE		METHOD:		

PROJECT
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.	
CLAIM NAME	
COMMENCED	
FINISHED	
LOGGED BY	
DATE LOGGED	

INTERVAL		LITHOLOGY		ALT'N – MIN.	DEPTH	STRUCTURE		SAMPLE				ASSAYS			VISUAL LOG
FROM (m)	TO (m)	ROCKTYPE	DESCRIPTION		FROM / TO	STRUC.	DIP – DIR	FROM (m)	TO (m)	WIDTH	Nº.	Au oz/t.	Au ppb		
~~54.1~~			quartz, beige & creamy	Py – 1% in matrix											
			felsic frags (clasts) & minor	variable in clasts.											
			limestone clasts. Frequent	Hem – rimming											
			rims of hematite on all type	clasts, to 3%.											
			of clast.												
			Hardness 5-7; RQD-45%												
54.1	58'	Dacite	Lt. Green – mottled with hem.	Py – diss – Tr	~~55.2'~~	Bedding	40° to CA.								
		tuff.	red patches. And beige felsic	– on fracs 2%											
			frags at various angles.	Hem – 3% as											
			Grading into welded tuff	patches & on unit.											
			at top of interval.												
			Hardness 5, RQD-100%												
58	62.5	Welded	Grey-beige; 2-8mm qtz-	Hem – as stgrs											
		quartzose	frags, welded together with	2mm wide @ 15°;		Bedding	70° to CA.								
		tuff.	beige & green felsic frags.	& as patches in											
			Accents. Coarse felsic frag. 2cm	matrix.											
			wide showing type welded fabric.	Py – minor diss											
			Hardness 5-6, RQD-95%												
62.5	68	Dacite	Similar to 54.1 to 58' with												
		tuff	some mottling. Bedding variable due												
			to orientation of laminated clasts.												

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-10
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY T. Dkoun
DATE LOGGED Nov 21/84

INTERVAL FROM (m/Ft)	INTERVAL TO (m/Ft)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM/TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	MIN
			Colour variable from dk. green-	c.c. vnlts common		Bedding	40° to CA									
			black to medium green.	at num XS to CA.		at 68°										
			POSSIBLE MAJOR FAULT	30°, 60°, 45°.	69.5	FAULT	15° to									
			WITH SLICKENSIDES AT ~~35~~° to CA.	Py-Tr.			CA.									
			Hardness. 5, RQD-90%	Ep-minor aspatches												
75	79	Welded	Grey-green with beige	c.c vnlts common		L/C	40°									
		quartzo	mottling by felsic frags welded	hem-as stgrs			to CA.									
		feldspathic	to qtz frags. Green chloritic	<1mm & patches												
		tuff.	matrix. Hem. stgrs. frequent	to 2mm x 1mm												
			Hardness. 6-7, RQD-100%													
79	83.1	Dacitic	Med. green, laminated at	Py-diss Tr		Bedding	60° to CA.									
		tuff.	60° to CA. with cross bedding	-on fracs <1%												
			of laminations	hem-stgrs 4%												
			Occurs. hem-maroon patch.	-patches 1%		U/C	50°									
			& minor beige lamellae	c.c-vnlts minor												
			at 60° to CA Hardness 5-6	to 2mm												
			RQD-95%													
83.1	93.8	Multi-	Dk. grey-green with maroon			L/C	50°									
		Lithic	hem background ~~from 83.1~~													
		welded	~~to~~ throughout.													
		tuff	Composed of Qtz. (50%), Fels.													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-10
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL		LITHOLOGY		ALT'N-MIN.	DEPTH	STRUCTURE		SAMPLE				ASSAYS			VISUAL LOG	MAG SUS
FROM (m)	TO (m)	ROCKTYPE	DESCRIPTION		FROM TO	STRUC.	DIP-DIR	FROM (m)	TO (m)	WIDTH	Nº.	Au oz/t.	Au ppb			
			welded & unwelded clasts	hem - 5-8%												
			35% (Beige) andesite clasts	Py - diss Tr												
			10-15%; chloritic matrix	- on fracs <1%												
			to 15%. Minor L.st.	- patches to 2%												
			clast. Grains from <1mm	locally (2-4mm size)												
			to 5mm dia.			U/C	40° to									
			Hardness 5-6; RQD-100%				CA.									
93.8	106.1	Andesite	Dk. to med. green. F.g. with	Py - Tr.		L/C	40°									
			black matrix <0.2mm size			U/C	45°									
			(5%) Ploy. phenos visible to													
			0.5 mm long. Matrix													
			chloritic. Num. c.c. veins													
			up to 2mm at 75°; 60° to CA													
			Mostly. Hardness 4½-5													
			RQD-100%													
106.1	117.5	Multi-	Dk. grey with maroon hem	Hem - 15%		Bedding	40° to									
		Lithic	patches. (15%) Clasts	~~Ep - Minor as~~			55°									
		welded	ang - sub ang from <1mm	occurs. patch.												
		tuff.	to 15mm. Felsic material	Py - 1-2% in matrix												
			is largely welded; Matrix	- Common. on fracs.												
			is chloritic - hematitic.	Ep - Common as patches												
				in matrix. 3%												

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-10
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 22 /94

INTERVAL FROM (m)	INTERVAL FROM (Ft)	INTERVAL TO (m)	INTERVAL TO (Ft)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
117.5		119.8		Andesitic tuff.	DK. green, with maroon patches from hematite-clasts rounded, lapilli size to <2mm. Andesitic gritty ± crystalline matrix. Num c.c. stngrs. at 45° to CA. Clasts mostly green andesite and about 30% of clasts are beige felsic (dacitic) tuff. Hardness - 4½, RQD - 100%	Py-patches in matrix 2% -on fracs, 1%. c.c.-as tiny stngrs.			C/C	30° to CA								
119.8		126.3		Quartz eye felsic welded tuff.	White-beige speckled; Qtz pebbles ± lithics rounded to angular, from white to transparent; 50% of rx Felsic lithics largely welded, beige from <2mm to 3-4 cm. 35% of rock. Other clasts of andesite ± dacite tuffs, 3-5 cm. Hardness - 6; RQD - 90%	Py - 2-3% as patches ± stngrs. -diss-minor. Chl'ite - 10% as matrix filling hem-as patches ± stngrs, freq. with Pyrite.												
126.3		130.2		Chloritic tuff Breccia	Dark green to med. green, mottled by bleaching of clasts. Clast 0.5 to 3 cm; sub angular, to angular. Matrix fg gritty equiv. of clasts.	Py - 2-3% throughout c.c. - minor	128'		L/C Shear zone with Py-hem	40° to CA 30° to CA								

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE No. PU-10
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 22 '84

INTERVAL FROM (m) Ft	INTERVAL TO (m) Ft	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m) Ft	SAMPLE TO (m) Ft	SAMPLE WIDTH	SAMPLE No.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag opt	VISUAL LOG
			Occurs. beige clasts to 3 cm.												
			Angular, over length of 10 cm												
			Hardness 5, RQD - 65%												
130.2	137.8	Quartz	Green-grey with hematitic												
		-felsic	patches & veinlets. Qtz 30-35%	Py - 3-5% overall											
		welded	felsic clasts (welded) 20%,	diss, pebbles & vns.											
		tuff.	chloritic matrix 20%, Other												
			clasts composed of chalcy	Hem - 2% in											
			tuff, dacitic tuff & andesite	matrix & veinlets											
			make up 30% of rx.	with Py.											
			Vns of Qtz-hem up to 3 cm wide	Qtz-veins at		B.Vs.	60°-40° to CA.								
			at 10 cm intervals from	irreg. intervals.											
			133.6' to 137.8' (silicified zone)					133.6'	137.8'	4.2	33378	0.001	~~0.05~~	~~1.05~~	
			Hardness - 6; RQD - 90%												
137.8	146.3	Quartz-fe	Green-beige mottled. Grading	hem - 5% near		L/C	Gradational.								
		lspathic	from dk. green to lt green	1st 1/2 of section											
		tuff.	with decreasing chl. content.	then < 1%.											
			Tuff clasts from 1 to 40 mm	chlorite - 20-25%											
			Qtz clasts mostly sub rounded like	for 1st 1/2 of section											
			pebbles. Felsic clasts irregular	then 5-10%.											
			shaped some welded. &	Q.Vs. - 143.2 - 146.3				143.2	146.3	3.1	33379	0.002		0.01	

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-10
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 22/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m) Ft	SAMPLE TO (m) Ft	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag oz/t	VISUAL LOG
			Hardness 5; RQD - 95%	1cm - 2cm at		Q.Vs.	65° to C.A.								
				10 cm intervals.											
146.3	148.4	Silicified	Grey - maroon, white speckled												
		Multi-	by Qtz. clasts (frags) to 2cm.	Qtz - hairline to		Bedding	50°	146.3	148.4	2.1	3380	0.003		0.01	
		Lithic	Similar to conglomerate but more	3cm wide with		(from bergy felsic layer)									
		Quartzose	angular frags. Minor bergy	15-20% hem; 5%											
		Breccia	felsic layer (bed) 2-3 cm wide	py pyrite at 60° to C.A.											
			showing good bedding.			Veins dip 80°									
			Dusk - green - black chlorite in			to Bedding.									
			matrix up to 25% of Rx.												
			Hardness - 5½ - 6, RQD - 70%												
148.4	149.3	Quartz	Grey - maroon; with 25%	hem - 15% as		L/C	60°	148.4	149.3	0.9	3381	0.001		0.01	
		Vein	hematite; 5% pyrite, hairline	patches in vein		U/C	60°								
			mtx of sphalerite?	py - with hem &											
			Hardness 6½ - 7, RQD - 10%	on fractures & as											
				isolated 1cm patches											
149.3	153	Multi-Lithic	Similar to 146.3 - 148.4			U/C	Gradational								
		Quartzose	without silicification But												
		Breccia	has 10% hematite,												
			Hardness 5½; RQD - 50%												

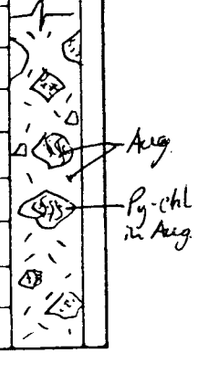
DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-10
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 22/84

INTERVAL FROM	INTERVAL TO	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	VISUAL LOG
153	178.7	Multi-	Lt. Green overall. with											
		Lithic	dark chloritic section from	Py - disS <1%										
		tuff.	153' to 158' (5% hem).	- Pockets 1%										
			Composed of Subrounded											
			to angular quartz clasts	c.c. - vnlts 60° to CA.										
			averaging 8 mm, 25%,	up to 3 mm.										
			Beige felsic clasts angular											
			to irregular shapes up to	Occurs. hematitic										
			20 mm. 30%, Andesitic	pockets 5cm										
			clasts; Lt-dk. green, chloritic	long:										
			5mm - 20mm; 15% & lt. green											
			chloritic gritty matrix makes			U/C	60° to CA.							
			remainder of rk			(Possible)								
			Hardness 5 1/2, RQD - 100%.			Bedding	55°							
178.7	185.6	Andesite	Med - DK. green. Mottled by	Py - 2-3%										
		~~Tuff~~	darker colour of ~~augites clasts~~; of ~~same~~	Chl - 15-20%										
		(Augite Porph)	~~composition. Augites, v. fg, <5mm~~											
			Chloritic matrix. Augites from <1mm	c.c. vnlts - 1%.										
			to 5mm; mostly alt'd to chl-	hem - vnlts 1%.										
			Py rate mixture. Hardness - 4 1/2 RQD - 80%											
185.6	187.4	Shear	DK. green finely laminated tuff			Shearing	15° & 30°							
		Zone.	of some comp as. 178.7 - 185.6				to CA.							



DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 22/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM/TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	KEY
Fb			Gouge of chloritic clay & c.c.	hem - 15%												
			on shear sfces. Possible	Chl - 50% +												
			shearing at 50° instead of	c.c. - 10%												
			bedding laminations ??													
187.4	200	Felsic	Lt. green, beige & white	Py - <1% diss												
		Tuff.	mottled by beige & white	- mineral on		Foliation	40°									
			felsic & qtz clasts respectively.	fractures		U/C	Fault									
			Clasts variable in comp.	Chl-Ser - 15-20%		L/C	?									
			mostly beige to green tuffs	Qtz-Ser - 10-15%												
			with lesser qtz. pebbles.	c.c. - vn. lts to		c.c. vn lts	40°									
			Felsic clasts largely altd	5 mm												
			to qtz-sericite & or ser-chl.													
			Clasts mostly average 5-10													
			mm; some up to 5 cm.													
			Matrix is felsic green grit.													
			with abundant chl-ser.													
			Hardness - 5, RQD - 95%													
			END OF HOLE = 200'													
			Core Recovery 100%													

DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
		Footage	Azimuth	Dip
NORTH	10067.789			
EAST	8400.786			
ELEVATION	2825.58			
AZIMUTH	33.896°			
DIP	+44.13°	210'		+41°
MAP REFERENCE		METHOD: ACID ETCH		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR RAINBOW DIAMOND DRILLING
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE Gold Slope Extension

HOLE Nº. PU-11
CLAIM NAME Union
COMMENCED Nov 22 1984
FINISHED Nov 24 1984
LOGGED BY T. Brown
DATE LOGGED Nov 23 - 25/84

INTERVAL FROM (m/ft)	INTERVAL TO (m/ft)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM/TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	KEY
0	1	Quartzose -felsic welded tuff	Grey-H. green, with beige & white patches from felsic & qtz pebbles respectively. Clasts < 8mm size, felsic clasts irregular shaped due to welding. Quartz component mostly rounded to subangular. Matrix is H. green-grey grit with abundant chlorite. Hardness - 6, RQD - 0% 6" core from 1st foot.	Py - diss tr - on fracs tr. c.c. - vnlts minor. chlorite - in matrix 40% of matrix.		U/C	Core broken no attitude.									
1	9.7	Dacitic tuff.	Dark - H. green, laminated alternating green - beige (altered) layers & beds & lenses up to 1 cm thick; mostly 3-8 mm. Texture is massive. Hardness 5½, RQD - 98%	Py - 3%, mostly on fracs & vnlts - 1% diss. Epidote - patches. Hem - along bedding ~~bands~~		Bedding U/C	20°/035° to CA. 35°									
9.7	25.9	Quartzose felsic welded tuff.	Grey-green, mottled by beige & white felsic & qtz clasts respectively. felsic tuff													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.	PU-11
CLAIM NAME	
COMMENCED	
FINISHED	
LOGGED BY	
DATE LOGGED	Nov 23

INTERVAL		LITHOLOGY		ALT'N - MIN.	DEPTH	STRUCTURE		SAMPLE				ASSAYS			VISUAL LOG	MK
FROM (m/Ft)	TO (m/Ft)	ROCKTYPE	DESCRIPTION		FROM / TO	STRUC.	DIP - DIR	FROM (m)	TO (m)	WIDTH	Nº.	Au oz/t.	Au ppb			
			clasts angular to subrounded.			L/c	35°									
			Beige felsic component			U/c	30°									
			largely irregular & welded	Py - Tr diss												
			Quartz clasts, rounded like	- Tr on fracs		Bedding	30° to CA									
			pebbles to angular; mostly													
			3-4 mm; up to 15 mm.	Hem - minor												
			Felsic & tuff clasts up to	patchy & vnlts.												
			25 mm; mostly 5 mm.													
			Matrix is f.g. chloritic	c.c. - mm. vnlts												
			grit of similar comp. to	& in groundmass												
			clasts. Occas. coarse	of tuff.												
			bed; 10-15 cm wide													
			with clasts averaging	Chlorite - 20% +												
			15 mm. Hardness - 6	in matrix.												
			RQD - 95%.													
25.9	40.6	Dacitic	Grey-green; with beige	Py - 1% diss		L/c	40° to CA									
		tuff.	mottling. Tuff clasts	- on fracs.		U/c	45° to CA									
			mostly < 1 mm, occas. zones Py	Hem - vnlts to 1 cm.												
			up to 5 cm; and minor	c.c. - vnlts < 1 mm.												
			chl-hem veins on beds													
			up to 3 cm wide; c.c. vnlts													
			common. < 1 mm. at 60° & 45°													
			Hardness - 5½ RQD - 80%													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. AU-11
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 23/84

INTERVAL FROM (m/ft)	INTERVAL TO (m/ft)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP - DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
40.6	46.2	Andesite	F.g., dark green with black patches & phenos probably of aegite or other matic. Pebbles largely alt'd to chl-py. C.C. vnlts throughout < 0.5 mm at various angles. Pyrite, vf.g., mostly diss. Hardness - 4½, RQD - 100%	Py - diss 1% -on fracs 1% c.c. - vnlts abundant & in matrix.			U/C	35° to CA.									
46.2	54.7	Dacite - Andesite	F.g. med. green. with <.5 mm black matic phenos. Very similar to above by lighter colour. c.c. vnlts abundant, <.5 mm Hardness 4½, RQD - 90%. Upper 2' kattaceous with visible bedding; Clasts to 2 cm. Beige & green felsic frags. ~~Hardness~~	Py - 1-2% diss -on fracs 1% chl - alt'n matrix & in matrix. c.c. - abundant but < than above unit.			U/C	46° to CA									
							Bedding	35° to CA									
54.7	66.2	Quartz Felsic welded tuff	Grey-green. Clasts mostly 2-4 mm; some to 4 cm. Clasts composed of Qtz - 3% Beige felsic (welded) - 20%,														

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-11
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 23 1984

INTERVAL FROM (m/ft)	INTERVAL TO (m/ft)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	VISUAL LOG
			beige & green cherty tuff clasts 20%. Clasts mostly subangular with quartz beige 50% rounded. Matrix mostly gritty-chloritic material of similar comp to andesite tuff. Bedding from lenticular felsic clasts. (Olive grn.)	Py - 1-2% diss & on fracs cc - as vnlts & in matrix.		Bedding U/C	30° 60°TOCA							
66.2	68	Tuff Cherty	Dk green. Cherty nature, Mottled, bleached along fractures & or bedding planes Hardness - 5, RQD - 0%	Py - along fracs ≤ 1% cc - as hairline vnlts.		L/C U/C	30° 30°							
68	74.9	Quartzose Felsic welded tuff.	Same as 54.7' - 66.2' Beige & H. green felsic clasts show welded appearance. RQD - 95%, Hardness 6'2-7			L/C	30°							
74.9	76.2	Cherty tuff.	Olive green. fragmented & laminated. Same as 66.2 - 68'. Hardness - 5, RQD - 70% Lamination = H - dark alternating 3-8 mm thick.	Py - along fracs cc - as < 1 mm vnlts.		Bedding L/C U/C	30° 30° 32°							

DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
NORTH		Footage	Azimuth	Dip
EAST				
ELEVATION				
AZIMUTH				
DIP				
MAP REFERENCE		METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-11
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 24/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM-TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS	VISUAL LOG	MIX
76.2	79	Qtz-Feldspathic welded tuff.	Grey-green, white & beige spots from quartz-feldspar and felsic clasts respectively. Clasts range up to 3cm; mostly 3-5 mm. Angular through to rounded & many irregular (welded) felsic clasts. Clasts include white cherty tuff, white to grey quartz, beige to green tuffs, and green andesite. Fine c.c. throughout matrix & as thin hairline size vnlts. Matrix is grey-green grit.	Py - 1% diss. Some calc-gtz. - on fracs & vnlets. 1% c.c - as vnlts & in matrix. Chlorite - in matrix & And. clasts.		Bedding	35° to CA.									
						U/C	45° to CA.									
79	85.8	Andesite Augite porphyry.	DK - med green with black angular to euhedral augites up to 10 mm across & many < 1 mm. 15% + matrix. Hardness - 4½, RQD - 100%.	Py - diss 1% & on fracs & after augite. c.c. - vnlts minor		U/C	40° to CA.									

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-11
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 24 1987

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP - DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	MIN
85.8	88.3	Silty tuff.	Med green, Olive colour with maroon hem. patches. Massive and brecciated. Hardness - 5, RQD - 50%	Py - 1% mostly as fnes, minor diss. c.c. - vn/fs minor.		u/c	40°									
88.3	91.6	Quartrose felsz Welded tuff.	Same as ~~T2fc~~ 76.2' to 79' except with 1-2% hem. as maroon patches & vn/fs. Frequent olive coloured 1cm wide tuff lenses or beds at 10cm intvls. Hardness 6, RQD - 95%			u/c.	40°									
91.6	93.6	Cherty tuff.	Same as 66.2' - 68' Olive green. Hardness 5, RQD.			Bedding	35° to C.A.									
93.6	97.8	Quartrose Welded tuff & Cherty tuff.	Inter bedded olive green cherty tuff above with typical grey-green welded tuff. Beds of each grading into one another, Bed from 5cm to 40cm thick. Hardness 4½ - RQD - 90%.	Py - 1-2% variable ~~from~~ between rx types. c.c. - vn/fs common hem - stngs & patches mostly in welded tuff.	96.5 - 96.9	Fault & 3cm Bx with	25°	Stringers @ 80° to C.A. Qtz - c.c. cement.									

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-11
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 24/84

INTERVAL FROM (m) FT	INTERVAL TO (m) FT	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m) FT	SAMPLE TO (m) FT	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag %	VISUAL LOG	KEY
97.8	105	Dacite	Similar to Quartrose Fels.z													
		welded	welded tuff but finer	Py – Po diss												
		tuff	grained & less quartz	in matrix		Py-chl	45° &									
			component and more			vn lts.	70° to CA									
			green gritty tuff matrix.	Chlorite in												
			Lt. green; with grey-beige	matrix 10%												
			mottling by quartrose-felsic	& as <1mm												
			clasts respectively. Clasts	vn lts with												
			<3mm mostly. Pyrite	Pyrite at 5cm												
			diss in matrix 1%, minor	intvls.												
			& variable in clasts.													
			Hardness 5½, RQD-95%													
105	108	Silicified	As above with 5-6 cm	Py-hem with		Contacts		105	108	3.0	5382	0.001		0.01		
		Dacite	wide qtz patches (indistinct	qtz. flooding		Gradational.										
		welded	veins?) and flooding of	-diss as above.												
		tuff	matrix. 25-30% Qtz.													
			3-5% Py in Qtz areas +	Qtz. patches &												
			possible black sphalerite.	veins @ 40° to CA.												
			Hardness 5-7, RQD-100%													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-11
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 24/84.

INTERVAL FROM (m/ft)	INTERVAL TO (m/ft)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
108	116.3	Dacitic tuff	Same as 97.8 to 105	Py - 1-2% diss - on fracs <1%												
			Lt. grey-green, with clasts ≤ 5 mm. Mode up - mostly of felsic tuff (beige-grey-green) and minor quartz clasts. Matrix, chloritic gritty fg. tuff <0.5 mm. Bedding from 1 cm beige felsic lens 40° to CA. Hardness 5, RQD-95%	c.c.-valts common.			c/c	40°							
							Bedding	40°								
116.3	118.4	Andesite tuff.	DK-med. green. v. fg gritty tuff. < 0.2 mm clasts. Matrix chloritic with 2% pyrite. Accs. beige felsic lens 1-2 cm wide (good bedding indicator) Hardness 4½, RQD-65%	Py - 1-2% diss - on fracs too- c.c. - valts common. 1-2 mm wide			c/c	35° to CA.								
118.4	124.3 (405.5)	Multi-Lithic Conglom - Bx.	Grey with white patches from qtz-felsic clasts Clasts variable from <1 mm													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-11
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 24/84

INTERVAL FROM (m)	INTERVAL FROM (ft)	INTERVAL TO (m)	INTERVAL TO (ft)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
					to 30 mm. Matrix mostly	cc-vnlts 5% in												
					~~comp~~ same comp with	matrix.												
					5% chloritic-andesitic													
					material. Clasts consist	fg-2-3% ass												
					of Qtz - 35% grey felsic tuffs	particles in												
					15% white felsic tuff 15%,	matrix												
					andesite 10%, beige felsic	- rare in clasts												
					tuff 10%; Matrix remainder													
					Clasts subangular to				U/C	35°								
					subrounded. Accrs. Large													
					L. stone clast to 5cm.													
					Hardness variable. 5-7,													
					RQD - 95%													
124.3	407	125.5	411.7	Cherty tuff.	Olive-beige, laminated.	fg-2% v.fg		Bedding	30°									
					Interbeds 1-2cm thick,				L/C	35°								
					alternating green-beige	cc-vnlts common			U/C	40°								
					Hardness 5, RQD - 70%													
125.5	411.7	134.2	440.2	Andesitic tuff.	Dark-med green. with grey-													
					green ~~bed~~ interbeds of													
					multi-lithic conglom-ox													
					to 10 cm wide: 40% andesitic													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-11
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 24/04

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
			30% conglomeratic.	py - 1-2% in		Bedding	35° to									
			1-3 mm c.c. veinlets	andesitic ~~RX~~			45°									
			at 50° common at 10cm	- 2% in			to CA.									
			intervals.	conglom. lx.			~~Ef~~									
			Hardness 4 1/2 - 6, RQD - 90%			c/c	40°									
							to CA									
134.2	136.8	Multi-	Similar to Multi-Lithic	py - 2% disS												
		lithic	conglom. but clasts smaller	± on frac's												
		tuff.	Mostly < 5 mm; Signif. frag.													
			andesitic component in													
			green matrix. Contact													
			with above unit gradational													
			over 30 ~~cm~~ - 50 cm.			Bedding	35°									
			Andesitic component 40%,				to CA.									
			~~Sc~~ felsic multi-lithic													
			component 60%.													
			Hardness 5, RQD - 90%													
136.8	150.2	Multi-lithic	Grey-green; white mottled	py - 2% in matrix		c/c	60° to CA									
		conglom-	by clasts. Clasts angular	- variable clasts												
		breccia	through ~~sub~~ rounded; 1 mm up to	cc. - 1-2% in matrix												
			50 mm; mostly 20 mm size	- as veins												
			Clasts of beige, green, white tuffs													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. UU-11
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 25/94

INTERVAL		LITHOLOGY		ALT'N – MIN.	DEPTH	STRUCTURE		SAMPLE				ASSAYS			VISUAL LOG
FROM (m)	TO (m)	ROCKTYPE	DESCRIPTION		FROM TO	STRUC.	DIP – DIR	FROM (m)	TO (m)	WIDTH	Nº.	Au oz/t.	Au ppb	Ag oz/t	
			quartz, andesite, andesite & dacite tuffs, minor limestone clasts. Hardness 4-6, RQD-95%												
150.2	155.8	Dacitic Multi-lithic Breccia	Similar to above in that clasts of same comp, but matrix comprises 30% of rock & is dacitic-andesitic in comp. dk-med green, quite chloritic. Hardness - 5½, RQD - 100%	Py - 2-3% in matrix. Chlorite - 10% in matrix c.c. - vnlts & in matrix.		L/C U/C	60° 45°								
155.8	159.1	Silty tuff.	Black, brown mottled by 5-10mm bedding laminae. Cut by num hairline size c.c. vnlts. Hardness 4½, RQD - 95%	Py - diss. minor - on fracs, v.f.g. c.c. - vnlts common.		Bedding L/C U/C	45° 45° 55°								
159.1	165.4	Multi-lithic Conglom-breccia.	Grey - lt green; Same as 138.8 - 150.2. Some sections silicified; cut by 0.5mm to 3cm qtz. veins, mostly at 20° - 30° to C.A.			L/C Qtz Veins U/C (Gradational)	55° 20-30° 50°								
			159.1 - 162 - 20% Qtz as vnlts	Qtz. Veining				159.1	162	1.9	3383	0.001		0.01	

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. 88-11
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 25 '88

INTERVAL FROM	INTERVAL TO	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag/t	VISUAL LOG	MAG SUS
		Qtz Vein	162 – 162.5 Massive with Chlorite	Py – Tr, Mina Chl				30° to CA	162	162.5	0.5	3384	0.001		0.06		
		Silicified	162.5 – 163.2 Silicified, 20% Qtz.	Qtz as Patches & vnlts				30° to CA	162.5	163.2	0.7	3385	0.001		0.06		
165.4	167	Silty tuff.	Black, thinly laminated	Py – diss minor			L/C	50°									
			Same as 155.8 – 159.1	– as fracs < 1%			U/C	45°									
			Hardness – 4½ RQD – 100%	cc. vnlts common													
167	178.6	Multi-	Grey-green, c.g., clasts	Py – 2% diss			L/C	45°									
		lithic	1 cm – 6 cm; mostly 2 cm	in matrix			U/C.										
		Breccia –	range. Angular to subrounded	– < 1% on fracs													
		Conglom.	Composed of green & beige	cc. – vnlts &													
			dacitic tuff 30% grey tuff	in matrix													
			15% Qtz; 15% beige felsic	& with Qtz veins													
			welded clasts 15%, matrix is	presents as veins.													
			remainder. Some sections														
			silicified as follows:														
			168 – 169.4 Silicified, 15% Qtz				Veining	20°	168	169.4	1.4	3386	0.001		0.05		
			175 – 176.1 Silicified, 15% Qtz.						175	176.1	1.1	3387	0.001		0.06		
			176.1 – 176.9, Dacitic tuff Bed.						176.1	176.9	0.8	3388	0.001		0.04		
			176.9 – 178.6 Silicified, 20% Qtz.				Veining	15°-20°	176.9	178.6	1.7	3389	0.001		0.03		
178.6	184.1	Dacitic	Green; with beige-grey mottling														
		breccia	after dacitic clasts, clasts														
			mostly 5 – 6 cm; subangular														

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. UU-11
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 25 '84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag oz/t	VISUAL LOG
			Grey patches of quartz and												
			frequent veined sections												
			as follows.												
			178.6 - 180.2, 15% Qtz.					178.6	180.2	1.6	3390	0.001		0.01	
		Qtz Vein.	180.2 - 180.6, ~~30 Qtz~~.	Tr hem-Sph-Py		Veining	30° to CA	180.2	180.6	0.4	3391	0.002		0.06	
			180.6 - 183, Silicified dacite Bx.	15% Qtz flooding.				180.6	183	2.4	3392	0.001		0.03	
			183 - 184.1 Silicified 35% Qtz.	35% Qtz.		Veining	30° to CA	183	184.1	1.1	3396	0.001		0.01	
			Hardness variable, 5-6½,												
			RQD - 80%												
184.1	185	Qtz	Massive, white with thin	Chlorite as		U/C	35°	184.1	185	0.9	3397	0.001		0.01	
		Vein	grey stringers. Sph-Py &	5-10mm patches		U/C	30°								
			hem in stringers.												
			Hardness 7, RQD - 100%												
185	190.4	Dacite	Same as 178.6 - 184.1												
		Breccia	Variably silicified, by flooding												
			of matrix as follows.												
			185 - 189.1 wkly. silicified	10% Qtz		Veining	20°	185	189.1	4.1	3398	0.001		0.01	
			189.1 - 190.4 wkly silicified	25% Qtz Tr hem		Veining	35°, 40°	189.1	190.4	1.3	3393	0.001		0.01	
			Hardness 5-6, RQD - 95%	Py - sph in veins											
190.4	191.2	Qtz. Vein	Massive, grey-white with	Py-hem-sph		L/C	40°	190.4	191.2	0.8	3394	0.001		0.07	
			Py-hem-sph stringers at 35°	veinlets.		U/C	35°								

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-11
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 25/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag oz/t.	VISUAL LOG
				3-5mm sph. fleck & wisps.												
191.2	192	Dacite Breccia (Silicified)	Same as 185-190.4 with 5 to 10% Qtz. as matrix flooding Hardness 5½, RQD – 100%	Py – minor Chlorite – minor			C/C	30° CA.	191.2	192	0.8	3395	0.001		0.01	
192	200.7	Silty to Ash.	Black, thinly laminated	C.C.-veinlets common, up to 3mm wide			C/C	30°								
			Same as 155.8-159.1				Bedding	30°								
200.7	210	Dacite to Ash.	Near massive, beige with ¼ green-beige matrix. Clasts < 2mm mostly minor beige felsic flags lenticular in shape paralleling bedding, to 10cm x 2cm. Hardness 5, RQD – 100% FOOT OF HOLE				C/C	30°								
				Py – diss < 1% – on fracs < 1%			Bedding	30° 40 CA								
				Cc. – veinlets common but not abundant.												
			% Recovery = 100%													

DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
		Footage	Azimuth	Dip
NORTH	10068.259			
EAST	8402.528			
ELEVATION	2823.09			
AZIMUTH	38.902°			
DIP	+25.14°	199'		+25½
MAP REFERENCE		METHOD: ACID		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR RAINBOW DIAMOND DRILLING
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE GOLD STOPE EXTENSION

HOLE Nº. UU-12
CLAIM NAME Union
COMMENCED Nov 24 1984
FINISHED Nov 27/1984.
LOGGED BY T. Drown
DATE LOGGED Nov 25 - 1984

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP - DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
0	3.5	Quartzose felsic welded tuff.	Grey with beige mottling, fiamme beige felsic welded clasts. Clasts of grey-qtz, grey chert, tuff, beige & green chloritic tuffs. Matrix grey-green grit of similar comp to clasts. c.c. throughout matrix. Clasts range up to 8cm, mostly in 10-15 mm range. Hardness 5-6, RQD - 10%	Py - diss & as patches in matrix, 1% c.c. - vnlts & in matrix.			U/C Brecciated.	?								
3.5	19.1	Dacitic tuff.	Med-grain - beige with frequent maroon, hematitic patches. Num py vnlts at 60° to CA. Minor epidote patches. Hardness - 5, RQD - 90%	c.c. - vnlts frequent at 5°, 20°, to CA. up to 5 mm wide. Py - as vnlts common, mostly hairline - also 2% diss. hem - patches; usually with Py - Ep			Bedding	15° to CA								
19.1	23.2	Dacite Breccia	Similar to above Dacitic tuff with angular fragments & shattered zones. Moderately bleached to lt. green.				Fault at Lk	35° to CA								

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. M-12
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 26/84

INTERVAL FROM	INTERVAL TO	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	MAG SUS
			Matrix of breccia flooded	Ep-2-3%		Crude Bedding	35°									
			with mixture of Py-Ep-	hem-2%												
			hematite.	Py-patches 3%		u/c	60°									
				-veinlets 1%												
			Hardness 5, RQD-75%	c.c.-units throughout												
				at 60°, 40° to CA.												
23.2	28.8	Dacitic	Same as 3.5-19.1'			Bedding	20° to CA									
		tuff.	with minor bx. sections			u/c	45°									
			2-3 cm wide. Thinly													
			laminated where not													
			mottled by hem-Ep:dote.													
			Alternating bands of H.-dk													
			green as laminations. Possibly													
			bleached. Hardness-5, RQD.													
28.8	31.6	Quartzose	Grey with green matrix	Py-2% disseminated		u/c	45°									
		Felsic	Clasts of quartz, cherty tuff	on units												
		tuff.	& beige felsic tuff. Clasts	hem-units to 5		hem units	30°									
			mostly 5-15 mm, some	mm wide												
			up to 30 mm. Matrix has	-cross cutting												
			30% + sericite & lor chlorite.	u/c into Andesite												
			Felsic clasts largely sericitized.													
			Hardness 6, RQD-100%													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.	MU-12
CLAIM NAME	
COMMENCED	
FINISHED	
LOGGED BY	
DATE LOGGED	

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS	VISUAL LOG	MAG SUSC
30.6	38	Dacitic tuff	Same as above dacitic tuff.													
			Brecciated patches & veins			Bedding	20° to CA									
			wider, up to 10 mm			U/C	30° to CA									
			Hardness - 5 RQD - 95%													
38	39.1	Quartz feldspar tuff	As above 28.6 - 30.6 Grey with green-grey matrix.			U/C	40° to CA.									
			Hardness 5-6, RQD, - 60%													
39.1	44	Andesite	Dark green, f.g. with black to dk. green augite phenos <0.5 mm. Plag. phenos just vis. 3%, about 0.2 mm or less. Pyrite throughout as diss. & 2 mm patches. Occas c.c. vnlts to 3 mm wide. Hardness - 4½, RQD - 100%	Py - 2% diss & patches c.c. - vnlts up to 3 mm.		U/C	40° to CA									
44	47.2	Dacitic tuff	Med. green with beige & green clasts. Mostly 2-3 cm size. Grading to 5-10 mm size at upper contact. Bedding not evident except in minor laminated clasts. Hardness - 5 RQD - 100%	Py - 1% diss - minor as blebs c.c. - vnlts common. hem - limonite irreg. patches.		U/C	Gradational 35° 40° CA.									

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-12
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 26 '84

INTERVAL FROM	INTERVAL TO	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
47.2	~~63~~ 51	Quartz	Dark grey with white clasty	Py - 3-5% in												
		Felsic	mottling from qtz & ~~felsic~~	matrix												
		tuff.	clasts, with black, chloritic	- minor veining,												
			ground mass. (Plus hematite)	hem-black &												
			Hardness 5-7, RQD - 98%	maroon in												
			Clasts mostly 5-10 mm size	matrix; 2%												
			angular to subrounded.													
51	63	Quartz	Similar to above with	Py - <1%												
		felsic	lighter col. matrix and	mostly disc.												
		welded	15-20% beige welded			Bedding	?									
		tuff.	felsic clasts. Grey-beige	hem - 1% +,		Foliation	40-35°									
			colour, mottled. Maroon	as patches		(Poss. bedding)										
			hem. patches common.													
			Clasts up to 5cm; mostly			U/C	40° to CA									
			5-10 mm size. Andesitic			Possible fault										
			clasts largely altered to													
			chl-py-hem. Hardness - 5-6													
			RQD - 98%													
63	70	Dacitic	Beige with greenish gritty													
		Tuff.	matrix. Mottled by maroon													
			hem patches. Dacitic clasts													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. UU-12
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 26/84

INTERVAL FROM (m)	INTERVAL FROM (ft)	INTERVAL TO (m)	INTERVAL TO (ft)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag oz/t	VISUAL LOG
					mostly beige with crystalline texture. Becoming more green - dk. grey towards ~~EOH~~ 68'.	Py - 2% diss - on fracs also hem-pistolites & vnlts at 90°, 70°		Bedding	40° to CA								
								U/C	40°								
					Hardness 5, RQD - 98%												
70	78	Quartzose felsic tuff.	Dk. grey-green. Clasts of multi-type tuffs & quartz. Clasts average 5-8 mm. Occasional beige welded felsic clasts to ~~2cm~~ 5 mm. Matrix dk. green, andesitic with black-green chlorite & f.g. pyrite. Weak silicification with 1cm - 2cm qtz veins at 50° to CA. Veins with 3-5% Py, much dk. grn chlorite & black-maroon hematite. Hardness 5½, RQD 98%	Py - 2% diss & pistolites in matrix. hem-black as pistolites & veinlets.		U/C with Q.V.	50°	70	73	3	3399	0.001		0.01
										73	76	3	3400	0.001		0.01	
										76	78	2	3401	0.001		0.01	
								~~Veins~~ Qtz. Vs.	50° to CA.								
78	199	Qtz Vein	Dark green mottled with numerous green-beige clasts & brecciated tuffs. Vein Bx + Q & silicified.	Py - 5% hem-Spec & red 5%:		U/C	45-50°	78	79.9	1.9	3402	0.001		0.01	

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. UU-12
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 26/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Au g/t	VISUAL LOG
79.9	82.5	Quartzose	Same as 70'-78'					~~79.9~~	~~82.5~~	3403					
		Felsic	Wkly silicified by mm.												
		tuff	5 mm quartz veins at					79.9	82.5	2.6	3403	0.001		0.01	
			40°-50° to CA. RQD - 100%												
82.5	85.5	Quartz	About 60% QFP, 40% quartzose												
		Vein.	Felsic tuff above. Veining	Py - 2% in veins		Veining	~~50~~ °to CA	82.5	85.5	3.0	3404	0.001		0.01	
			2-3 cm each at 3-4 cm	1% in tuff											
			intervals. Veins contain 5%												
			dk. green chlorite; 2% Py,	hem - Tr in veins											
			traces of spec. hem. goss. sphal.	Chlorite - in veins											
			Hardness 5-7; RQD - 75%	& in matrix											
				of tuff.											
85.5	90.4	Quartzose	Dk. green, beige & grey mottled			L/C.	Gradational								
		Felsic	by felsic & qtz clasts respectively	Py - 1% disc			with sheared								
		tuff.	Clasts mostly 1-2 mm size	Chlorite - abundant			zone at								
		(Partly	ang. to subrounded & beige	in matrix		U/C.	50°								
		welded)	felsic welded clasts irregular												
			shapes. Matrix is quite chloritic,												
			indicating andesitic comp.												
			Hardness 5, RQD - 80%												

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-12
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 26/84

INTERVAL FROM (m)	INTERVAL FROM (ft)	INTERVAL TO (m)	INTERVAL TO (ft)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	MAG SUS
90.4		95		Andesitic flow Bx	Dark green, H. green mottling laminated at 55°-60° to C.A. Breccia clasts angular to subangular, rotation indicated and parallel to bedding laminae. Bx. clasts up to 15 mm; Matrix is finely crushed andesitic grit. Hardness 4½-5, RQD-100%	Py - 2% as patches & d.t.g. diss. chlorite throughout matrix 10%+			Bedding	55°-60°									
									U/C	50°									
95		101.2		Quartzose felsic welded tuff.	Med green; beige-white mottled ~~laminated~~ Bedding evident from variably coloured beds. to 3cm each. Clasts similar to other welded quartzose tuffs with 25-30% green chloritic matrix. Hardness 5, RQD-100%	Py - 1-2% v. fg d.s. C.C. as patches in matrix.			U/C Fault Bx. with 2cm old gouge	@ 30°									
									Bedding	45° to C.A.									
~~101.2~~				~~Quartzose felsic~~															

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. UM-12
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP - DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Au oz/t	VISUAL LOG	MIN
101.2	154.5	Multi-	Dark grey with dark	Py - 2-3% diss.												
		lithic	green matrix. Clasts													
		Breccia	up to 5cm. of all	Dtz - 0.3' Q.V												
		to conglom.	different types including	at 50° to CA.				102.45	102.75	0.3'	34405	0.059		0.06		
			variable tuffs, quartz,	with 2% Py, 2% Cpy.												
			limestone, and andesite.	5% Spec. Hem.												
			Grading to coarser													
			equivalent with depth													
			clasts becoming more													
			dacitic to tuffs with less													
			quartz. Limestone clasts													
			up to 10 cm wide;			L/C	Gradational.									
			Most other clasts in 2-4 cm													
			range. Hardness variable 3½-6													
			RQD - 90%													
154.5	173.9	Dacitic	Lt. Grey to dark grey,			L/C	Gradational.									
		Breccia	with beige-grey clasts			Bedding	over 20cm 50°									
			to 5cm. Mostly angular													
			to subangular. Matrix is													
			grey-green grit, dacitic comp.													
			Frequent pyrite patches													
			to 2cm across & occurs as stngrs.													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. MU-12
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 27/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM-TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	VISUAL LOG
			Upper 1/3 of section is more tectaceous than brecciated with bedding evident. Hardness 5½, RQD-95%	Py-3% disc & pebbles c.c.-vnlts minor	167-167.6 172.2-172.9	Fault with grey gouge & breccia Fault with grey gouge.	65°/CA 60°/CA							
173.9	184.4	Quartrose Felsic Welded tuff. to Breccia	Grey-green overall; with grey qtz pebbles (35%) rounded to subangular beige to green tuff (felsic) clasts (25%), angular to irregular (welded) clasts mostly in 5-8mm size range Matrix is grey-green dark grit. with green from chlorite Hardness-5-7; RQD-	Py-Tr in matrix -Tr in clasts c.c.-in matrix mostly; minor as vnlts.		L/C Bedding	GRAD. 40°-45°							
						U/C	40°							
184.4	187.4	Quartrose Felsic tuff.	Dk green; grey-beige mottled Similar to above (173.9-184.4) with less qtz. clasts (15-20%) and much more basic & chlorite matrix giving overall dk green colour.	Py-1% in matrix; Tr in clasts c.c.-mostly in matrix, 1-2%		L/C Bedding	40° 40°							

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE No. UG-12
CLAIM NAME
COMMENCED
FINISHED Nov 27/84
LOGGED BY
DATE LOGGED Nov 27/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE No.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
			Clasts range from about 3-5 mm in lower ½ of section to 8-15 mm in upper ~~half~~ ½; change is very gradual. Clasts overall of same comp's throughout except more welded beige felsic clasts toward ~~end~~ upper ½ of section. Hardness 5½ overall, RQD - 90%													
197.4	199'	Dacite tuff & Quartzose felsic welded tuff.	Interbedded: beige fg.-massive dacitic tuff and above fg. quartzose felsic welded tuff. Beds of each about 5-8 cm wide, in alternating fashion. Hardness - workable 5-6; RQD 75%	fg - Tr in welded tuff matrix only.		Bedding	50° to CA									
			DIP TEST AT 199' = 25½°													
			CORE RECOVERY = 100%													

DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
		Footage	Azimuth	Dip
NORTH	10068.06			
EAST	8395.547			
ELEVATION	2825.65			
AZIMUTH	324.36°			
DIP	+45.18°	199		+45°
MAP REFERENCE		METHOD: ACID		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR Rainbow Diamond Drilling
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE Gold Stope Extension

HOLE Nº. 84-13
CLAIM NAME Union
COMMENCED Nov 27 1984
FINISHED Nov 29/84
LOGGED BY T. Dunn
DATE LOGGED Nov 28 to 1984

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
0	17	Quartzose felsic welded tuff	Med. green; Beige grey. Beige clasts (welded) of felsic rock largely filling in spaces between chloritic & quartzose grey clasts. All clasts in range of 1mm. Very little matrix. Quartzose clasts make up 50-60% of rock. Hardness 6, RQD - 90%	Py - 1% disc - 1% on fracs		Bedding u/c	60° to CA Gradational								
17	31.3	Dacitic tuff & welded felsic tuff	Dk. green - with maroon mottling from hem patches. Tumbled collection of above welded tuff unit and dacitic laminated tuff. About 60% dacitic tuff 40% welded tuff. Hardness - 5-6; RQD - 90%	hem - patches 3% epidote - with hem py - 2% disc - hem fracs		Bedding u/c	Variable 45° to 60° 50°								
31.3	38.3	Quartzose Felsic welded tuff.	Dk. green & beige mottled by 1-4 mm size welded felsic clasts; Irregular shapes in filling between other clasts.	py - 1% disc - 1% on fracs hem - 3-5% patchy & veins with c											

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-13
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 26/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM - TO	STRUCTURE STRUC.	STRUCTURE DIP - DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
			Clasts mostly 2-4mm. Composed of quartz (35%) green tuff (25%), grey cherty tuff (15%), felsic clasts welded to other clasts (20%), Matrix is mostly dk. green-black chloritic gnt. Occurs. veinlet of same beige felsic material as welded clasts. Hardness 5½6, RQD-100%	cc.-vn/fr with hem coves to 0.5mm		Bedding	55°								
38.3	40.5	Dacite tuff.	v.fny. Dk green, finely laminated Olive green colour. Pyrite mirror as veinlets. Bleached to lighter green near upper contact. Hardness 5, RQD-90%	Py-Tr-1% diss -Tr chloe's.		L/C Bedding U/C	40° 40° 40°									
40.5	59.7	Quartz-fels. welded tuff.	Similar to 31.3-38.3 Numerous beige veinlets of felsic material, some as welded clasts composed of.	hem-maroon patches & in fr to 5% Py-patches-1%		Bedding	50°									

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-13
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 20/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP - DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
			52'-53' - Brecciated section with dacitic tuff clasts & welded tuff matrix. Hardness 5-6, RQD-100%													
59.7	70	Dacitic tuff & welded tuff mtx.	Similar to 17'-31.3' Same style of rock, same composition & ratios of rk. types Bedding not too distinct. Alternating bands (beds) of each rock type at 30 cm intervals, bands 15-20 cm wide; some quartz less. Hardness 5-6, RQD-90%			Bedding L/C U/C	45° ±5° 60° Grad.									
70	73.2	Dacite tuff.	Dk. green, hem. patches giving maroon mottling Similar to dacite in 17 to 31.3'. Black borders on bedding lamellae. Hardness 5, RQD - 100%	hem - 1% Patches Py - 1% disc - minor py fracs & veinlets. Epi - minor with hem.		L/C Bedding U/C	40° 40° to CA 40°									

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-13
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 26/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP - DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	VISUAL LOG
73.2	76	Welded (lapilli) tuff.	Dark green with abundant maroon patches. Laminated beds & contorted & welded 5-15 mm thick. Composed of grey-beige-green felsic tufts; very little quartz. Occas. 2cm qtz pebble. Individual beds may contain breccia & flat tuff fragments of adjacent beds. Hardness 5½, RQD - 90%	hem - 10-15% patches Ep - 5% with hem Py - 2%, locally up to 8% c.c. - as wisps & in matrix		c/c	40°							
						Bedding	50° to CA							
						c/c	50°							
76	79.5	Dacite tuff	Olive green; v.f.g; visible laminations <0.5 mm thick. Same as 38.3 to 40.5' Hardness 5, RQD - 75%			c/c	50°							
79.5	90.7	Multi-lithic Breccia (Conglom) (Lapilli (welded)	Dk. grey-green with maroon mottling from abundant lapilli. Bedding similar to welded tuff above. Wispy & contorted (welded)	hem - 15% + throughout Ep - 3-5% as patches Py - 2% diss & as patches with Ep.		Bedding	45° to CA							

PAGE 4 of ___

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.	
CLAIM NAME	
COMMENCED	
FINISHED	
LOGGED BY	
DATE LOGGED	

INTERVAL		LITHOLOGY		ALT'N - MIN.	DEPTH	STRUCTURE		SAMPLE				ASSAYS			VISUAL LOG
FROM (m)	TO (m)	ROCKTYPE	DESCRIPTION		FROM / TO	STRUC.	DIP - DIR	FROM (m)	TO (m)	WIDTH	Nº.	Au oz/t.	Au ppb		
			Clasts composed of qtz, grey-white cherty tuff, green cherty tuff, andesite, minor limestone and beige felsic tuff. Frequent 1-2cm laminae of beige or green ~~to~~ massive - fg. tuffs. Hardness - 5½, RQD - 90%			U/C.									
90.7	100	Quartz-feldspar welded tuff	Similar to 73.2 to 76 in appearance but contains abundant more qtz fragments (welded) beige felsic tuff at 55° to C.A. frequently surrounding individual qtz &/or tuff clasts Lower ½ of ~~section~~ contains abundant hem, gradually tapers off to no hem in upper ½. Hardness - variable 5-6, RQD - 100%	hem - 15-20% in Low ½ - Ep - 2-3% locally Py - 1-2% diss & patches. c.c. - vnlts & patches common		Bedding	50°-55°							Tuffs Qtz. Felsic welding

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-13
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 28/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
100	116.6	Multi-lithic pebble conglom.	Grey to dark grey with variable coloured mottling for different types of clasts. Clasts in 2-3 cm range. Composed of quartz, felsic tuffs, cherty tuffs, andesite, dacite, limestone; in decreasing order of abundance. Matrix is mostly same comp. but more of a grit. Hardness variable 3½-7. RQD - 100%.	Py - 1-2% variable cc. - common as vnlts & patches hem - Tr only			c.c. varies	60°, 30°, 50°									
116.6	127.4	Cherty tuff breccia	Black, with grey mottling from angular cherty clasts to 5cm. Matrix is black cherty tuff to cherty argillite. Minor grey qtz clasts similar in size & shape to cherty tuff clasts. Hardness 4-4½-7; RQD - 100%	Py - 1-2% mostly on fractures. cc. - abundant veinlets to 2mm			c/c u/c c.c. veinlets u/c	45° 40-50° 30°, 50°, 80°. 40° to CA									

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.	PU-13
CLAIM NAME	
COMMENCED	
FINISHED	
LOGGED BY	
DATE LOGGED	Nov 29/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
122.4	146.9	Andesite	Olive green with <1mm black-dk. green specks of matrix mineral (Aug.to?) Plag. mostly <0.5mm with some to 1.5mm. Where visible mostly altered to sericite-chlorite. Hardness - 4½ RQD-100%.	Py - <1% as patches & on fractures C.C. - abundant veinlets to 3mm some with hem borders.			c.c. veinlets c/c	45°, 30°, 60° 35°									
146.9	151.5	Dacite tuff	Grey; v.fg. laminated with swirls & whispy bedding. Alternating ~~dk & lt~~ dark-light grey beds 5mm to 5cm wide. Locally individual beds may be brecciated with clasts of same tuff as matrix. Towards end of section tuff becomes almost black, argillaceous then grads. into next unit. Hardness 5, RQD-100%	Py - 2% both diss & on fracs or veinlets C.C. - in matrix & as veinlets.			Bedding	45° to CA.									

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
NORTH	Footage	Azimuth	Dip
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 29/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	MAG SUS
151.5	163	Multi-lithic Conglom (Breccia)	Grey; mottled with white-grey-green-beige clasts of quartz, cherty tuff, dacite and felsic tuffs respectively. Frequent L.st. clasts. Clasts mostly sub-rounded; and range up to 2cm; mostly 5mm-15mm range. Matrix gritty tuff as some comp. as clasts. Hardness 5½, RQD-100%	Py-tr.												
				cc.-throughout matrix and as hairline stringers.		c/c.	45°									
163	179.4	Dacitic tuff breccia conglomerate.	Grey-green with maroon mottling locally from hematite in matrix. Thin (1-3cm) beds of massive grey-beige dacite tuff with rounded 3-6cm clasts of some comp between beds. Lives jumbled appearance. Hem frequent in clasts, not so much bedded tuff. Hardness -5-6; RQD-40%	Py-2% as veinlets												
				Hem-within clasts & matrix of clasts		Bedding	48°									
				cc.-common, up to 5mm wide		c/c	Gradational.									

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
NORTH	Footage	Azimuth	Dip
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-13
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 29/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM/TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
179.4	191.9	Interbedded	Interbedded (not too well bedded)	cc-veinlets												
		multi-lithic	multi-lithic breccia same as	numerous up												
		Breccia &	151.5-163 and grey-beige	to 2cm.												
		dacite tuff.	dacite tuff, similar to 146.5			Bedding	60° to CA.									
			-151.5. Individual rock	Py-1% diss.												
			type scatters from 2cm	-occasionally												
			to 15cm. Bedding obvious	as stgrs & in fract.												
			from dacite layers	fillings.												
			Clasts of breccia up to 5 cm													
			across: Angular to rounded.			c/c.	Gradational									
			Hardness - 5-6; RQD - 90%													
191.9	196.6	Dacite	Dk. green; with maroon-	Py-common as												
		~~strongly~~	pistachio mottling from hem-	stgrs with c.c.												
		tuff.	epidote locally. Rx. v.f.g. massive	c.c. - with Py &		Bedding	65°									
			tuff. with num. black c.c.-Py	alone in stgrs												
			veinlets up to 2mm wide.	to 2mm.												
			Locally brecciated with c.c.			c/c	80°									
			filling. Hem-Ep as patches													
			as well together or isolated													
			alone. Hardness 5½, RQD-95%													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-13
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 29 '84

INTERVAL FROM (m)	INTERVAL FROM Ft	INTERVAL TO (m)	INTERVAL TO Ft	ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP - DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag oz/t	VISUAL LOG	MK
196.6		197.8		Quartzose felsic tuff.	Dark grey, white-beige mottling from felsic tuff clasts. Clasts of qtz, cherty tuff, felsic tuff, dacite, dacite tuff in decreas. order of abundance. Matrix largely calcite; Hardly any matrix at all. Hardness - 5½, RQD-100%	Py - Pb diss frequently with c.c.-chlo-hem in veinlets to 1cm wide c.c. - matrix & as veinlits. Ep - patches to 10% locally.			L/C	60°									
									U/C	40° to CA	196.6	197.8	1.2	3406	0.001		0.01		
197.8		198.5		Quartz Vein	Grey-white, with epi-hem stringers & wisps. Num. c.c. veinlets & occasional subangular quartz breccia, bxxys. Total Sulphides Low 1-2% Hardness - 7, RQD - 100%	Py - 1-2% as diss & in stringers with c.c-hem & with ep patches Chlorite - minor. as patches			L/C	40° to CA	197.8	198.5	0.7	3407	0.003		0.01		
198.5		200		Dacite tuff	Same as 191.4 - 196.6. With occasional beige felsic beds to 3-5 cm wide at 60° to CA. Hardness 5½ RQD - 100%				U/C	40° to CA	198.5	200	1.5	3408	0.001		0.01		

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-13
CLAIM NAME
COMMENCED
FINISHED Nov 29/84
LOGGED BY
DATE LOGGED Nov 29/84

INTERVAL FROM (FEET)	INTERVAL TO (FEET)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP - DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag oz/t	VISUAL LOG
200	200.5	Quartz vein	White grey; cut by num. py-chl-cc. vnlts. Upper contact is breccia contact with dacitic rock. Hardness 7, RQD-100%	Py-5% patches. Hem-patchy Sphalerite-Tr					200	200.5	0.5	3409	0.001		2.01	
200.5	211.4	Dacite tuff	Same as 191.9-196.6 RQD-100%, Hardness-5.	Py-minor stringers & trace as patches. hem-occas. patch. ep-occas. patch.			Bedding U/C	46° 40°								
211.4	212.8	Multi-lithic tuff.	Dark green with maroon patches from 2-5% hematite. Clasts to 10mm; mostly 2-3mm. Similar to 179.4-191.9 but less coarse grained & less quartz. Matrix is chlorite-hematite throughout. possibly alt'd andesite.	Py-2% diss. & vnlts. cc.-vnlts, patches & in matrix Hem-2%			U/C	40°								
212.8	214	Dacite tuff	Same as 200.5 to 211.4 (CORE RECOVERY = 100%) FOOT OF HOLE = 214'				Bedding	40°								

DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
		Footage	Azimuth	Dip
NORTH	10070.375			
EAST	8396.647			
ELEVATION	2824.65			
AZIMUTH	322.68°			
DIP	+26.06°	199'		+27°
MAP REFERENCE		METHOD: ACID ETCH.		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR Rainbow Diamond Drilling
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE Gold Stope Extension

HOLE Nº. UG-14
CLAIM NAME Union
COMMENCED Nov 29/84
FINISHED Dec 1, 1984
LOGGED BY T.D.Rowe
DATE LOGGED Nov 30 to Dec 1/84

INTERVAL FROM (m)	INTERVAL FROM (FT)	INTERVAL TO (m)	INTERVAL TO (FT)	ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
0		21.8		Dacite.	Lt. Green; v. fg. to massive accas. brecciated or fragmental sections. Freq. c.c. stgrs. to 2mm. Occas. bleached &/or beige felsic units <5cm wide. Hardness - 5, RQD - 80%	Py - 1% diss			Bedding	40°?									
						c.c - vnlts & in matrix.			u/c	35°									
21.8		30.6		Multi-lithic breccia. (Conglom.)	Grey - with maroon mottling & patches from hematite! Local abundance of variation in clast type. Angular to rounded. Mostly in 5-20 mm range. Calcite as fractures in matrix & as vnlts. Hardness variable RQD-6	Py - 1-2% diss & on fracs													
						hem - 3-5% locally 10% in matrix.			u/c	45°									
						c.c - vnlts & patches													
30.6		35		Andesite tuff.	Med green; with maroon & distorted mottling from hematite & epidote as streaks - patches in ground mass. Hardness 4½ - RQD 100%	Py - 2% diss - on fracs, to 3 mm wide.			Bedding	40°									
									u/c	40°									
						ep - patches													
						hem - patches													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-14
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 30/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	MIN
35	53	Multi-lithic Conglom-breccia	Grey; mottled with beige, white & maroon patches from felsic tuffs, quartz-chert and hematite flooding respectively. Some beige felsic clasts are welded (squished) to other clasts. Matrix is quite chloritic & frequently hematitic. Hardness - 5-7; RQD-100%	Py - 1-2% on fracs mostly c.c. - in matrix & as veinlets		Bedding	38° 40°									
						U/C	40°									
53	66	Dacite tuff & quartz-feldspar tuff mixed.	Grey-green; Jumbled mix of dacite tuff and quartz-feldspar tuff. Indurated beds non-existent. Section of dacite: quartz tuff are about 40:60. Hardness - 5-6; RQD - 90%	Py - mostly on fracs Hem - mostly in matrix of QFT c.c. - common throughout.	61.5 / 61.7	Fault with BX	38° to CA.									
						U/C	45°									
66	66.8	Dacite tuff.	Green-grey; mottled by variations in colour of													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
NORTH	Footage	Azimuth	Dip
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. 86-14
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Nov 30/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP - DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
			Individual tuff beds.	Py - 1-2% diss & as micro-stringers												
			Locally laminated & welded.			Bedding	40°-50°									
			Locally, welded sections													
			have rounded clasts of			U/C	Undetermined.									
			qtz &/or clasty tuff.	cc. - veinlets & some patches.												
			caught up.													
			Hardness - 5, RQD - 95%.	Epidote - frequent patches 72'-83'												
86.8	104.5	Dacite agglom.	Similar to above but mostly grey with some green mottling by epidote & frequent porphyritic clasts with ghosts of each. phase. Matrix grey grit with minor py. Hardness - 5, RQD - 100%	Py - 1-2% diss & patches. cc. - minor as patches in matrix & veinlets		U/C	45° to CA									
104.5	120	Crystal felsic welded tuff.	Dk. green-green. Mottling by white & beige clasts of quartz & felsic tuff respectively. Qtz clasts mostly subrounded to rounded felsic clasts are also common													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. 84-14
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Mon Dec 1/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM–TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	MIN
			Creamy beige felsic clasts are irregular shaped from welding. Clasts mostly 5-15mm size with up to 2cm locally. Weathered flooding of matrix is common. Hardness 5-6; RQD-100%	Py-Tr-1% in matrix Hem-2-5% remobe locally cc-mm patches in matrix		L/C Bedding u/c u/c	45° 45° ~~Irregular at 45-50°~~ Gradational									
120		Dacite.	~~Olive green, Massive rock with frequent 0.1mm pg. stringers.~~													
120	129.6	Quartz-felsic tuff.	Dk. grey-black with pronounced white spots from qtz clasts. Beige welded felsic clasts minor, Other clasts mostly grey to green felsic tuffs/(dacites etc) Matrix is black-dk green grit with 5-8% Pyrite. Mum. 05mm Py stringers. Hardness 5/2 RQD-100%	Py-5-8% diss & patches -1% as veins to 0.5mm Hem-spec. in matrix? cc-hem-vnlts to 0.5mm common.		u/c	Irregular 45°-50°									

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-14
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Dec 1, 1984

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
129.6	133.5	Dacite	Massive, olive green rock with frequent py. stngrs. to 0.5 mm. Minor lt-green to beige felsic leusses to 20 mm thick at 55°TCA. Hardness 5, RQD-100%	Py-1-2% mostly as stringers. cc-1% mostly as vn lts to 1 mm		L/C	Irreg. 45°-50°									
						Bedding	55°									
						U/C	Schist 65°									
133.5	142.4	Quartz-felsic tuff	Dk grey-black with white & maroon mottling from dk ~~5-1~~ clasts & hem flooding respectively. Clasts mostly in 5 to 15 mm size. Clasts rounded to subangular for qtz. and mostly rounded for felsic clasts. Minor beige welded clasts. Hardness 5-7, RQD-100%	Py-2% dss in matrix & as stngrs. cc-vn lts comm acid apatites in matrix hem-locally up to 5% as flooding of matrix.		U/C	50°									
142.4	148.2	Dacite.	Dk-med. green. V. fg to massive Frequent maroon hem stringers, often with Py & or c.c. Hardness-5, RQD-100%	Py-3% as apatites & hairline stngrs. hem-stringers. c.c.-stringers.		L/C	50°									
						U/C	45°									

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. Pu-14
CLAIM NAME
COMMENCED
FINISHED Dec 1, 1984
LOGGED BY T. Brown
DATE LOGGED Dec 2 1984

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP - DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	VISUAL LOG
148.2	149.2	Quartz Felsic pebble conglom.	Grey, white mottled by 5-15 mm qtz & cherty felsic pebbles. Felsic pebbles mostly grey to lt. green felsic (dacitic) to 15 mm. Matrix is grey-black grit. Pyrite is minor. Hardness 5-7; RQD - 100%	Py - minor as disc. cc. - pebbles in matrix		l/c	45°							
						u/c	45°							
149.2	163	Dacite	Same as 142.4 to 148.2. Num. cc. veins to 8 mm, becoming more frequent with depth. Hardness 5, RQD - 100%											
163	173.3	Dacite Breccia.	Same dacite as above but broken to 1 to 3 cm angular clasts, cemented by calcite. See VB. log. Hardness 3-5, RQD - 95%	cc. - up to 20% c.c. as cement of breccia Py - as above.		l/c	Gradational							Dacite / c.c.
						u/c	10°-15° to C.A.							
173.3	182	Dacite	Same as 142.4 to 148.2 Hardness - 5, RQD - 100%	as above 142.4 - 148.2.		u/c	45°							

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Dec 2/84

INTERVAL		LITHOLOGY		ALT'N – MIN.	DEPTH	STRUCTURE		SAMPLE				ASSAYS			VISUAL LOG	MAG SUS
FROM (m)	TO (m)	ROCKTYPE	DESCRIPTION		FROM TO	STRUC.	DIP – DIR	FROM (m)	TO (m)	WIDTH	Nº.	Au oz/t.	Au ppb	Ag oz/t		
182	189.1	Andesite.	Dk green, with num 0.2 to 0.5	Py – 1% diss		L/C	45°									
			mm black-dk green matrix	throughout.												
			(aegirine), cathedral to	c.c – frequent		u/c	40° to CA.									
			cathedral. V.fg, andesite,	stgrs.												
			plag. not visible individually.													
			Hardness 4½5, RQD-100%.													
189.1	194.5	Quartrose	Grey, M. green mottled with	Py – 2½ diss												
		felsic	dark green chloritic matrix.	in matrix.		Bedding	50°									
		tuff.	Clasts largely quartz ⅛/cc	– Minor stgrs												
			wh.to-grey cherty ~~tuffs~~.	c.c – common in												
			Minor green-grey dacite	matrix.												
			tuff clasts. Mostly rounded	Chlorite-altered in		u/c	60°									
			to subangular up to 2cm	matrix												
			size. Hardness 4-6, RQD-100%													
194.5	195.8	Andesite.	As above, 182-189.1.	c.c – stringers		L/C	60°									
				to 0.5cm at 30°		u/c	irreg.									
				in cross-Xing fashion												
195.8	198.6	Quartrose	Dk. green with white-beige					195.8	198.6	2.8	3410	0.001		0.01		
		felsic	mottling from felsic clasts, quart													
		tuff.	clasts & felsic tuff clasts respectively.													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PRL-14
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag oz/t	VISUAL LOG
			Clasts variable in size/shape up to 3cm / rounded to angular. Matrix chloritic with some sericite alt'n of intermediate clasts. 2cm wide q.v. cutting rx. at 45° TCA. with 5% pyrite, 2% red hem & traces of epidote & black chlorite. (Sampled whole section due to proximity to overlying qtz vein.) Hardness 5½; RQD-100%	Py-minor diss cc-abundant in matrix. hem-minor patch in matrix to 0.5cm.		Q/V.	45° TCA.								
198.6	200.6	Qtz. Vein	Massive quartz, grey-white with 2-3% Py patches overall with one 2cm wide zone of 60% Py. Numerous maroon hem patch & freq. chlorite patch & wisp. Calcite stgrs cut vein, up to 1mm wide often with hem. borders. RQD-100%.	Py-2-3% as patches locally 60% Py hem-patches & stringers. Chlorite-patches & wisps Sph-? grey-blk dust along fracs.		L/C U/C	45° 55°	198.6	200.6	2.0	3411	0.001		0.01	

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. UU-14
CLAIM NAME
COMMENCED
FINISHED Dec 1 1984
LOGGED BY
DATE LOGGED DEC 2, 1984

INTERVAL		LITHOLOGY		ALT'N - MIN.	DEPTH	STRUCTURE		SAMPLE				ASSAYS			VISUAL LOG
FROM (m)	TO (m)	ROCKTYPE	DESCRIPTION		FROM TO	STRUC.	DIP-DIR	FROM (m)	TO (m)	WIDTH	Nº.	Au oz/t.	Au ppb	Ag oz/t	
200.6	213	Quartz-Feldspar Porphyry	Grey-green with white-beige matting from qtz-felsz clasts respectively. Clasts range up to 2cm mostly < 5 mm. Frequent beige felsz clast (or less) up to 5cm across Matrix is med green chloritic gnt. with 2-5% calcite. Sampled 200.6 to 204 due to proximity to vein ± 2, < 1cm qtz, cutting core in this interval. Hardness 6, RQD-100%	fg-1% diss f.c.c-common in matrix.				200.6	204	3.4	3412	0.001		0.01	
			FOOT OF HOLE = 213 DIP TEST AT 199'												

DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
		Footage	Azimuth	Dip
NORTH	10068.484			
EAST	8397.791			
ELEVATION	2813.98			
AZIMUTH	00°00'			
DIP	~~-90°~~ -29.76°	248		-26°
MAP REFERENCE		METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR RAINBOW DIAMOND DRILLING
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE GOLD STOPE EXTENSION

HOLE Nº. PU-15
CLAIM NAME UNION
COMMENCED DEC. 1 1984
FINISHED DEC. 5 1984.
LOGGED BY T. DROWN
DATE LOGGED DEC 3 to 1984

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	MIN
0	6	Multi	Poor core recovery 1st 6 ft.													
		lithic	only 2ft. Dk. grey-green	Py - Tr - 1%												
		tuff-Bx.	with white speckling from	diss in matrix												
			qtz & cherty clasts. Clasts													
			made up of quartz, cherty tuff,	c.c - in matrix												
			dacite, dacite tuff, andesite	& as hairline												
			Matrix is largely grit with	veinlets.												
			chlorite & calcite. Clasts 2-4cm													
			Hardness - 5½ - 6, RQD - 10%			u/c	70°									
6	20.2	Mixed	Dk-green, mottled with	Py - 1-2% diss												
		Quartzose	maroon hem patches in dacite	& as stgrs		Bedding	35 to 40°									
		felsic tuff	& matrix of tuff. Tuff	c.c - mostly as			to CA.									
		& dacite.	similar comp to above 0-6'	veinlets &												
			with more chlorite matrix	matrix of tuff.												
			& less coarse clasts mostly													
			4-10 mm; various shapes.	hem - 2% locally.		u/c	35°									
			Hardness 5-6½, RQD - 100%													
20.2	27.8	Quartzose	Lt. green. Similar to quartzose	Py - tr.												
		dacite	felsic tuffs in other holes	c.c. - abundant												
		tuff.	with much less qtz. and	in matrix 10%+												
			lighter col'd matrix.													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-15
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY T. Brown
DATE LOGGED Dec 3 1984

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
			Matrix largely sericite, with same H. green chlorite.													
			Lighter col. enhanced by abundance of C.C in matrix.													
			Clasts 3-10 mm mostly.													
			Ang. to rounded:													
			Hardness 4-7; RQD-100%			U/C	35°									
27.8	40.3	Diorite.	Grey to dk. green. Massive rock.													
			Grey over 1st half then	Py-Tr to 1% locally												
			gradually to dk green													
			until. Frequent beige	hem-mina patches												
			felsic bases to 3cm wide													
			at 35°-45° to CA.	CL: common as												
			Minor hem in matrix	veinlets.		U/C	18° to CA.									
			of dk green section.		33.5'	Shear Zone	25° to CA.									
			Hardness 5, RQD-100%			up to Hy hem										
40.3	59	Quartz-Fels. tuff.	Grey to H. green with white & beige mottling by quartz and felsic clasts.	Py-Tr to 1% locally												
			Clasts ang. to subrounded up to 20 mm; mostly <5 mm.	CL-common in matrix as 0.1 to 1 mm veinlets.												

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-15
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Dec 3 1984

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	MIN
			Frequent narrow (1-2 mm)	Hem-occas.												
			stringers of beige felsz	patches in matrix												
			material (Kaolinite ov?)	& flooding.		u/c	Gradational.									
			Hardness -5-6, RQD-100%													
58	68.3	Quartzose	As above with > chlorite													
		felsz	& hematite making rock													
		tuff.	green to dk green. Otherwise			u/c	35°									
			Identical.													
			Hardness 5-6, RQD-100%													
68.3	82	Andesite.	Dark green: Non massive													
		(Altered	with H. green mottling	Py-2% mostly												
		porphyry)	from epidote, sericite &	as patches												
			ghostly outlines of plag.													
			phenos to 1mm long. Common	Fep-minor patches												
			also are black to dk. green													
			mafics (augite) to 1mm	Ser.-common												
			every so often. Original rock	throughout												
			probably porphyritic.	after plag.												
			Pyrite common as patches.	C.C-v.rare common												
			Hardness 5; RQD-100%.	throughout &												
				some in ground-												
				mass.												

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-15
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Dec 5/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	MIN
82	95	Multi-lithic breccia	Grey-green; white-beige mottled by vuggy clast types. Clasts of dacite, andesite, silty-clasty tuffs, limestone and ocas. 3-5 cm lenses of beige felsic tuff. Hardness 5-6, RQD-100%	Py-Tr-1% in matrix. Hem-sporadically in matrix. c.c-ubiquitous in matrix & stkwks.													
95	120.8	Dacite.	Grey-green, massive rock Many c.c. veinlets/stkwks. Broken/brecciated sections may be faults. Cemented by white c.c. Hardness 5, RQD-100%	Py-minor <1% c.c-frequent stkwks.	112.8	113.1	Fault	45°									
							BX										
					117.9	118.2	Fault	50°									
							BX.										
							C/C	35°-40°	Irregular								
120.8	125	Quartz felsic tuff.	Green with white mottling by qtz-felsic clasts. Matrix H. green chlorite with siliceous grit. In part shattered/brecciated. Hardness variable, RQD-100%	Py-<1% diss -Tr on fract's Hem-minerals pathos & stkwks.	124.8	125	Fault	50°									
							c.c. cement										

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-15
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Dec 5 '84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
125	128.4	Dacite.	Green-beige, swirly appearing rock with 70:30 H.green dacite & bands/lenses of beige felsic rock. Hardness 5, RQD-100%	Py-1% to 1% cc: common on fracs/stkgs.		Bedding	35° to CA								
						c/c	38°								
128.4	132.6	Quartz felsic tuff.	Same as 120.8'-125' spotted some way.			c/c	40°								
132.6	187.7	Multi-lithic breccia	Dk green to black with white-beige-grey mottling from various types of clasts. Clasts largely quartz, felsic tuffs, dacite & limestone. Matrix mostly quartzy-chloritic with tuff. Clasts ang to subrounded, ranging up to 5cm; mostly 5mm to 20mm. Hardness 5-7, RQD 100%	Py-1-2% in matrix as patches/diss. cc.-common in matrix & as tiny veins hem-frag. in matrix to 2% locally.		bedding (locally)	40°								

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. AU-15
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Dec 5 '87

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	VISUAL LOG
187.7	191.7	Dacite.	Lt.-med olive green. Massive rock cut by num. white 1-5mm c.c. vnlts Freq. beige clot &/or bed to 2cm wide. Hardness 5, RQD-85%	Py-Tr. c.c-abundant as vnlts.		L/C	40°							
						U/C	48°							
191.7	210	Multi-lithic tuff-Dx.	Lt. to med green. Similar to 132.6 to 187.7 but lighter matrix; less chlorite clasts similar size/comp. Hardness-6-7; RQD-100%	Py-2-3% diss ?hem-minor to 1% locally over 2-5cm's C.C-common in matrix.		U/C	Gradational.							
210	213	Dacite	Similar to 187.7 to 191.7 without beige felsic clots. Hardness-5, RQD-80%	Py-Tr. Cc.-as vnlts		U/C								
213	248	Multi-lithic conglom-breccia	Lt. green, mottled by white-green-grey-beige clasts up to 5cm across. Clasts mostly ang to subang.	Py-1-3% diss & patches cc.-common as vnlts &										

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PUL-15
CLAIM NAME
COMMENCED
FINISHED DEC 5 1984.
LOGGED BY T. Brown.
DATE LOGGED DEC 5/84

INTERVAL FROM (m) / ft	INTERVAL TO (m) / ft	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS	VISUAL LOG	MIX
			Matrix quite calcite	abundant in												
			w/ 5-10% overall.	matrix.												
			Chlorite present but minor.													
			Locally coarseness varies													
			down to 1 to 3 mm size													
			over 1 to 2 ft.													
			FOOT OF HOLE = 248'													
			DIP TEST AT 248'													
			= -26°													

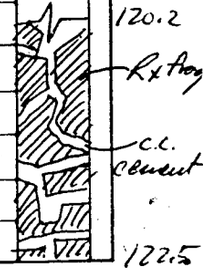
DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
		Footage	Azimuth	Dip
NORTH	10227.232			
EAST	8235.702			
ELEVATION	2822.49			
AZIMUTH	335.14°			
DIP	+39.48°	200'		+38
MAP REFERENCE		METHOD: ACID ETCH.		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR RAINBOW DIAMOND DRILLING
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE DELPHIM ZONE

HOLE Nº. PU-16
CLAIM NAME UNION
COMMENCED DEC 5 1984
FINISHED
LOGGED BY T. DROWN
DATE LOGGED DEC 6 to 184

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP - DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	VISUAL LOG
0	6.7	Andesite	Dk. - med. green, massive, Num bleached patches and cc. stgrs < 0.5mm. Breccia with c.c. cement at 3' over 6cm Hardness 4½, RQD - 80% Core recov. at start = 5'/6'	Py - 1% diss., v.f.g. cc. - v.m.lts ± stgrs ± cementin Bx.	3 / 3.7T	Bedding Breccia	50° HCA ?							
6.7	15	Dacite tuff	Lt. grey-green to dk. green. Occasional laminated patches Num ep-py patches over widths up to 10 cm. Num cc. stgrs. Hardness 5, RQD - 90%	Py - 3-5% patches often with Ep. C.C. - common, stgrs Ep - 3% locally. in matrix & v.m.lts.		Bedding u/c	50° 50°							
15	22.5	Andesite.	Dk. green; with 3-5% fg. diss Py; Chlorite on most fracs, Massive rock. Occas. patches of Ep-Hem over 3cm widths. Hardness 5, RQD - 95% Signif. breccia with cc. cement at ₩20.2 to ₩22.5 (Pos. Fault)	Py - 3-5% diss Chl - abundant on fracs. Ep - Hem - minor as patches.	₩20.2 / ₩22.5	Breccia with c.c. cement. ⇒ u/c	40°-50° 48°							



DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-16
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Dec 6/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t	ASSAYS Au ppb	ASSAYS Ag oz/t	VISUAL LOG
22.5	25.9	Dacite tuff	Same as 67 to 15' with ep-hem-py patches as before. Grey-green where no Ep-py-hem present otherwise dk. green-maroon mottled. Hardness - 5, RQD - 100%	Ep - 5% as patches otherwise py & or hem. Py - 2-4%, locally 5-8%.		u/c	45°	22.5	25.9	3.4	3413	0.00		0.01	
25.9	31.6	Quartz Vein.	Massive & recrys. bx. ~~sections~~ fragments. Py-hem-~~gth~~ -ep and tr. cpy. Sulphides parallel contact with dacite throughout vein where they occur as stgrs. Ep. occurs only where rock frags are silicified; within rx frags. Hardness 7, RQD - 100%	Py - 5-8% Sph - amber, Tr in patches (1cm) hem - 1% Ep - Tr - 1% as patches Cpy - Tr.		u/c	40°	25.9	29	3.1	3414	0.001		0.01	
								29	30	1.0	3415	0.001		0.01	
								30	31.6	1.6	3416	0.001		0.01	
								~~31.6~~	~~35~~	~~3.4~~	~~3417~~				
31.6	51	Quartz feldspar tuff.	Dk. green, with white mottling from qtz clasts. Epidote flooding matrix 15%	Py - 3% diss. Ep - 10-15% in matrix.											

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE DELPHIM ZONE

HOLE No. UG-16
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Dec 6/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE No.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag oz/t.	VISUAL LOG
			Clasts mostly subangular					~~3E~~	~~3~~						
			and less than 10mm.												
			Ep-hem stringers off					31.6	35	3.4	3447	0.001		0.01	
			from 38' to 44', then												
			resumes. Occas. qtz stngrs			Qtz	45°								
			up to 3.5' thus sampled.			Stngrs									
			Hardness 5-7, RQD-100%			u/c	Gradational								
51	66.8	Multi-	Dk. green-black, white mottled												
		lithic	by qtz & felsic clasts.	Py-1-2% in											
		breccia	Clasts of qtz, felsic tuff,	matrix & patches.											
		to conglom.	dacite, andesite & limestone	hem-1-2% in											
			with chlorite matrix, with	matrix & stngrs											
			2% hem & frequent Ep.	Ep-patches											
			patches. Clasts angular to	at 20cm intvls.											
			sub rounded; up to 5cm			u/c	45°								
			mostly in 1-2cm range	cc-throughout		Definite.									
			Hardness 5-7, RQD-100%	matrix & stngrs.											
66.8	84.2	Dacite	Dk. green with thin lighter	Py-minor, mostly		Bedding	45°								
			green laminations, 1-3mm wide	as hairline vnlts											
			Num. c.c. vnlts to 2mm;	cc-abundant											
			Occas. Ep alt'd patches.	as stngrs to 2mm.											

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.	PU-16
CLAIM NAME	
COMMENCED	
FINISHED	
LOGGED BY	
DATE LOGGED	Dec 7/84

INTERVAL FROM	INTERVAL TO	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM/TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag	VISUAL LOG	
			Hardness-5, RQD-100%			U/C	Gradational.									
84.2	88.9	Dacite tuff.	Med. green-beige, 0.5 to 1mm tuff grains of green-beige dacite in otherwise green dacite matrix. Occas. Ep patch as above;	Py-tr. diss; <1% as stgrs. Ep-minor as patches												
			84.6-85-qtz vein at 75° to ~~CA.~~ bedding. with 5% Py, 1% hem ± tr sph & Py	cc.-numerous veins to 5mm.		Q.V.	75° to Bedding	84.6	85	0.4	3418	0.002		<0.01		
			88.8'-1" qtz. vein with 2% Py tr. hem:			U/C	45° to CA									
			Hardness 5½, RQD-100%													
88.9	994	Dacite	DK-med green, laminated with alternating M.-dark green and occas. beige beds. to ~~20~~ ~~mm wide~~. 10 cm wide; mostly 2-5mm.	Py-minor, as veins/stgrs. cc.-frequent as tiny stgrs.		Bedding U/C	45°									
			Same as 68.8' to 84.2'													
			Hardness. 5, RQD-100%													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE No.
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL		LITHOLOGY		ALT'N - MIN.	DEPTH	STRUCTURE		SAMPLE				ASSAYS			VISUAL LOG
FROM (m) ft	TO (m) ft	ROCKTYPE	DESCRIPTION		FROM TO	STRUC.	DIP - DIR	FROM (m)	TO (m)	WIDTH	No.	Au oz/t.	Au ppb	Ag oz/t	
99.4	101.8	Dacite tuff.	Same as 84.2 to 88.9.			U/C	40° to CA.								
			with large gritty tuff												
			more common than green.												
			Hardness - 5½, RQD - 100%												
101.8	107.4	Dacite.	Laminated; dk-med green.			U/C	45°								
			Same as 88.9 - 99.4.			Bedding	45°								
			Hardness 5, RQD - 100%												
107.4	108.5	Dacite tuff.	Same as 99.4 to 101.8.			Bedding	50°								
			Upper 0.6' is thinly laminated			L/C	45°								
			almost welded.			U/C	70°								
			Hardness 5½, RQD - 100%												
108.5	134.2	Dacite.	Dk-H. green, alternating	Py - Tr to 1%											
			in thin ~~laminae~~ laminae.	as stngrs.		Bedding	45° to CA								
			Same as dacite from 88.9'												
			to 99.4'.	C.C. - common cl											
			115.1' to 115.3' - gtz vein with	tiny stngrs.		Q.V.	75° to Bedding	115.1	115.3	0.2	3449	0.001		0.01	
			3-5% Py, Hem, Tr sph, cpy.												
			Hardness - 5, RQD - 95%												
			Bands of alternating dk-H		126.5 128.5	Breccia with	15° to CA								
			↔ becoming less pronounced			cl cement									
			with depth.												

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-16
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL		LITHOLOGY		ALT'N-MIN.	DEPTH	STRUCTURE		SAMPLE				ASSAYS			VISUAL LOG	MAG SUS
FROM (m)	TO (m)	ROCKTYPE	DESCRIPTION		FROM / TO	STRUC.	DIP-DIR	FROM (m)	TO (m)	WIDTH	Nº.	Au oz/t.	Au ppb			
134.8	138.7	Andesite tuff.	Dk. green. Fg., tuff frags mostly < 2mm. Freq. cc. vnlts & minor lt. green sericite patches. Occas. lam-cc vnlt. to 5mm. On upper contact, 1/4" q.v. with 3% Py; at 45° to CA. Hardness 4.5, RQD - 100%	Py - 1-2% diss cc.-mm. stngrs some with lam.												
						Bedding	40°-45°									
						U/C	45°									
						1/4" Qv. at contact	45°									
138.7	156.5	Dacite.	Dk. & med - lt. green, laminated with indiv. beds of lt & dk dacite more or less alternating. Beds 5cm to 20cm wide. Similar to other lam. dacite above.	Py - 1%, mostly stngrs. cc.-freq, 1-2mm stngrs.		Bedding	45°									
			142 - 143.1 Multi-lithic tuff section, grey; with clasts to 1cm; mostly 3-5mm. Contacts; L/C = 45°, U/C = 55° ~~Lost~~ Lost 1.0' of section is suspected, where contact approached			U/C	Bx td. Irregular									

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
NORTH	Footage	Azimuth	Dip
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-16
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Dec 8, 1984

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM-TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	MIN.
156.5	163.3	Multi-lithic breccia	Grey; beige-white-green mottled by felsic, quartz-chert and andesitic (chloritic) clasts respectively. Clasts mostly 3 to 10 mm size; frequently up to 80 cm. Angular to subang. Section gradually becomes more beige with increasing felsic tuff clasts from 160 to 163.3' Hardness—variable 4-7, RQD - 100%	Py - minor diss c.c. - veins & within matrix.		u/c	Irregular 40°-50°								
163.3	169	Dacite.	Same as 138.7 to 156.5 with less distinct bedding laminations. Brecciated from 166.5'-168' with c.c. cement, frags. only broken to 4-6 cm size angular & irregular shapes. Hardness - 5, RQD-100%	Py - tr - 1% diss & on fracs. c.c. - frequent 1 mm stgrs		Bedding u/c	45° to CA 48°								

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-16
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Dec 8, 1967

INTERVAL FROM (m/ft)	INTERVAL TO (m/ft)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM-TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	MAG SUS
169	174.8	Dacite. quartz feldspar tuff mixed.	Mixed in alternating beds 10-15cm thick within section. Clasts in tuff composed of quartz, grey white cherty tuff, light green dacite, beige dacite and minor andesite. Clasts mostly range 2-5mm; some up to 2cm. Dacite is mass. massive med green vx. with ocars. beige felsic bands to 2cm wide. Hardness 5-6; RQD-95%	Py-Po; diss mostly. c.c.-stgrs in matrix of tuff. Hem-staining matrix of tuff.		Bedding	45°									
174.8	179.8	Quartz feldspar tuff.	DK. to med. grey-green. Mottled by white-grey qtz-felsic clasts and maroon hematite staining of matrix. Clasts same as above; with similar size/angularity. Chlorite-hem in matrix. Hardness 5-6; RQD-100%	Py-Tr diss & on stgrs. with hem-chl. c.c.-stgrs & patches. Hem-2% in matrix.		u/c	45°									
179.8	184.8	Quartz feldspar tuff.	Dk. to med. grey-green. Mottled by white-grey qtz-felsic clasts and maroon hematite staining of matrix. Clasts same as above; with similar size/angularity. Chlorite-hem in matrix. Hardness 5-6; RQD-100%	Py-Tr diss & on stgrs. with hem-chl. c.c.-stgrs & patches. Hem-2% in matrix.		u/c	45°									

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PRL-16
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Dec 8, 1984

INTERVAL FROM (m) / Ft	INTERVAL TO (m) / Ft	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP - DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
179.8	183.6	Dacite tuff.	Similar to laminated dacites previously in hole with less distinct bedding an more gritty in nature DK - med green; clasts of qtz, < 1mm. Freq, cc. stgrs. Hardness 5, RQD - 100%	Py - Tr to 1% disss & stgrs. c.c. - stgrs to 2mm.		c/c	48°									
183.6	189.7	Andesite.	Olive green, with tiny black - dk green mottles <0.5mm (augites) Near massive texture. Hardness 4½, RQD - 100%	Py - Tr to 1% disss. c.c. - vnlts common to 1mm.		c/c	40°									
[redacted]																
189.7	194.3	Quartz feldspar tuff.	Grey; beige-white mottled by felsic - qtz. clasts respectively. Clasts ang. to sub ang. Mostly in 3-8 mm size range; Freq. up to 3 cm. Hardness variable, RQD - 100%	Py - minor c.c - vnlts & dusting in tuff matrix.		c/c	45°									

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-16
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Dec 6, 1987.

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
194.3	197.9	Dacite breccia	Lt green-beige. Clasts angular to 5cm. Composed of beige felsic textured or green massive dacite. Matrix of med green dacite. No particular orientation to clasts or bedding. Hardness 5, RQD-80%	Py-TR; diss cc-minor as vnlts.		u/c	45°									
197.9	200	Andesite.	Same as 183.6 to 189.7.													
			FOOT OF HOLE AT 200'													
			ACID TEST AT 200' = DIP OF 38°													

DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
		Footage	Azimuth	Dip
NORTH	10228.652			
EAST	8242.023			
ELEVATION	2820.21			
AZIMUTH	45.97°			
DIP	+20.79°			
MAP REFERENCE		METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR RAINBOW DIAMOND DRILLING
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE DELPHIAN ZONE.

HOLE Nº. PU-17
CLAIM NAME
COMMENCED DEC 7 1984
FINISHED DEC 8, 1984
LOGGED BY T. DROWN
DATE LOGGED DEC 7 to 9 /84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM/TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag g/t	VISUAL LOG	MIX
0	12	Andesite.	Dk. green; near massive rock	fg - 1% diss &												
(10' Core)			with num. c.c. stgrs to	as stgrs.												
			1mm thick. Where plag	cc - stgrs. &												
			visible; alt'd to sericite-chlorite	minor in matrix												
			Qtz. <1mm veins visible													
			(Argillic)													
			Hardness 4½-5, RQD-90%			U/C	65°									
12	14.5	Dacite.	Med-dk. green; Crudely	fg - 1% diss												
			bedded with qtz. 1-2cm	& mina stgrs.		Bedding	65°									
			H. green beds at 65° to CA.				to CA									
			Freq. H. green-bleached	c.c. - common as												
			patches & along fols.	stgrs.												
			Hardness 5 - RQD-100%													
14.5	27	Andesite.	Dk. green; Similar to above	fg - 2% diss												
			(0-12') andesite	& stgrs.												
			fg-chlorite stgrs. common	cc - common.												
			to 2 mm wide at 30°, 50°, 70°				40°									
			to CA. Hardness - 4½-5,			U/C										
			RQD - 100%													
27	28	Quartz	Highly silicified zone; 70%					27	28	1.0	3420	0.01		0.03		
			Qtz: Mixed with bleached (H. green)													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE No. AU-17
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Dec 8, 1984

INTERVAL FROM (m/ft)	INTERVAL TO (m/ft)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM-TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE No.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	MIN
			Hem-pyrite stringers parallel to contacts & num. Py. patches to 3mm across. Some pink-amber sphalerite as 3 mm wide stringers in qtz. parallel to contact. Hardness 7, RQD-100%	Py-4-5% patches & stngrs, both parallel to vein contact and at 75° to CA. Ep-1% as 1mm patches Hem-common as 1-2mm stngrs with Ep & Py. Sp-1% as patches & vn lts.		L/C	40° to CA.									
						u/c	40° to CA									
28	38.2	Andesite	Dk. green, same as 0'-12' Near massive with minor dk green-blk. augite phenos occas. visible. Hardness 4½-5, RQD-100%	Py-1-2% as stngrs & dzs.		u/c	65° to CA.									
38.2	44.8	Dacite.	Dk.-lt. green mottled rock, with dk. massive dacite-andesite patches in mostly lt. green dacite. Occas. bedding in lt. patches	Py-1-2% stngrs & dzs. Hem-Tr Ep-Tr c.c.-Common as stngrs.	38.2 / 38.4	Fault	50°									
						Bedding	55°									

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
NORTH	Footage	Azimuth	Dip
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-17
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY T. Brown.
DATE LOGGED Dec 9/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM TO	STRUCTURE STRUC.	STRUCTURE DIP - DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG
44.8	50	Multi-	Dk. grey, white green-beige	Py - 2% v.fn, diss		L/C	40° to CA								
		lithic	mottling by varied clasts.	& 1-2 mm. stgrs.											
		breccia.	Clasts up to 8 cm, angular												
			to subrounded.	c.c. - mostly as		Bedding	60°								
			Clasts of qtz, grey cherty	stgrs < 1 mm											
			tuff, green dacite, beige												
			rhyolite (felsic), quartrose	Hem - minaros											
			felsic tuff and andesite.	stgrs. with c.c.											
			Hardness 5-7, RQD-100%			U/C	GRAD.								
50	58	Quartrose	Mixed; not really interbedded,												
		felsic tuff	more, jumbled together.												
		& dacite.	Grey-green moroon	Py - 1-2%											
		mixed.	tuff with ang. to subang	mostly as stgrs.											
			clasts of qtz, chert, dacite,	some diss.											
			limestone & andesite, to 5 mm.												
			Dacite is med green to H.	Hem - 2-3% in		Bedding	50° to CA								
			green, occurs bedded; frequently	tuff sections											
			broken with clasts of	flooding matrix.											
			g.f. tuff within.												
			Hardness - 5-6, RQD-100%	c.c. - common		U/C	45°								
				throughout as			to CA.								
				stringers											

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. UU-17
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Dec 9/84

INTERVAL		LITHOLOGY		ALT'N - MIN.	DEPTH	STRUCTURE		SAMPLE				ASSAYS			VISUAL LOG	MIX
FROM (m)/FT	TO (m)/FT	ROCKTYPE	DESCRIPTION		FROM / TO	STRUC.	DIP - DIR	FROM (m)	TO (m)	WIDTH	Nº.	Au oz/t.	Au ppb			
58	66.7	Quartz-feldspar porphyry dacite tuff.	Dk. grey - maroon with H-green mottling from qtz & clusty clasts. Clasts mostly < 5 mm, ang. to subrounded. Composed of grey quartz, grey cherty tuff, beige felsic tuff and greenish-beige dacite. Flooding of matrix by hematite gives pronounced maroon cast to core. Matrix is < 15% of rock and is dacitic to andesitic in comp. Hardness 5-6½, RQD-100%	Py - 1% diss - 1% as stgrs. Ep-mm veins 1 mm patches Hem - locally 5% or more. flooding matrix & with c.c. as stgrs. C.C. - common as 0.5 mm stgrs.		U/C	45° to CA.									
66.7	69.2	Dacite.	H-dk. green mottled by alternating bands. Similar to (12' - 14.5') other dacites in hole. Hardness 5, RQD-100%	Py - 1% diss & Bands. C.C. - as stgrs		U/C										
69.2	71.7	Dacite tuff	Silicified; Med green with grey & maroon mottling from Qtz - hem patches.			~~U/C~~		69.2	71.7	2.5	3421	0.001		0.02		

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-17
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY T Dixon
DATE LOGGED Dec 9/04

INTERVAL FROM (m)	INTERVAL FROM ft	INTERVAL TO (m)	INTERVAL TO ft	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN	DEPTH FROM-TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag g/t	VISUAL LOG	MIN
					About 25% Qtz, as	Hem - 3% in												
					pervasive flooding of	matrix.												
					tuff matrix & hardening													
					of clasts.	Py - 2% diss												
					Hardness 6, RQD - 100%	& stngrs.												
71.7	72.9			Quartz Vein	Grey, massive qtz. with			L/C	50°									
					5-8% Py. Tr - Cpy, <1%			i/c	40°	71.7	72.9	1.2	3422	0.001		n.01		
					Rose sphalerite, 1-2%													
					maroon hematite.													
					Epidote patches up to													
					1cm common but													
					mostly < 1mm size.													
					Other grey dusty mineral													
					may be Bg, Py or blk.													
					sphalerite. ?													
					Hardness 7, RQD - ~~100~~ 90%													
72.9	76.8			Dacite (silicified)	DK - med green dacite.	Qtz - 10% Qtz.				72.9	75	2.1	3423	0.001		n.01		
					Nearly massive with	~~locally~~ overall				75	76.8	1.8	3424	0.001		n.01		
					some tuffaceous character	with 20% hem.												
					to rock. Cut by numerous	72.9 to 75'												
					1mm to 5cm Qtz veins, 45°, 50° to CA.													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT: PEARL RESOURCES LTD.
PROPERTY NAME: UNION GOLD PROJECT
DRILLING CONTRACTOR:
ASSAYER: MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE:

HOLE Nº. 84-17
CLAIM NAME:
COMMENCED:
FINISHED:
LOGGED BY:
DATE LOGGED: Dec 9/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP - DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS	VISUAL LOG
			Dkr. Veining contains												
			Py, Tr-Cpy, much hem												
			and minor rose spherulite.												
			From 75 to 76.8' mostly												
			5-8mm qtz. vns. at 5-10												
			cm intervals (wkly silicified)												
			Hardness 5, RQD - 100%												
76.8	89.6	Dacite.	Med - lt. green mottled	Py - <1% diss		Bedding	35-40°								
			by alternating bands	& on frac's											
			lt - dk. rock. Bedding	C.C. - freq. as											
			structures range from	<1mm stgrs.		U/C	50°								
			2mm to 20 mm thick.	Dkr. minor as											
			Hardness - 5, RQD - 100%	occas. 2mm stgrs											
89.6	97	Dacite	Beige - med green mottled.												
		breccia	Similar to above dacite but	Py - 1% diss &											
		- tuff.	broken to angular frags	on frac											
			to 3 cm; mostly 5-15mm												
			About 60:40 green: beige	C.C. - common											
			clasts. Matrix is green	as stgrs											
			dacite material as above												
			dacite. Hardness - 5, RQD - 100%			U/C	Grad.								

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-17
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Dec 9/84

INTERVAL		LITHOLOGY		ALT'N - MIN.	DEPTH	STRUCTURE		SAMPLE				ASSAYS			VISUAL LOG	MEK
FROM (m)	TO (m)	ROCKTYPE	DESCRIPTION		FROM TO	STRUC.	DIP-DIR	FROM (m)	TO (m)	WIDTH	Nº.	Au oz/t.	Au ppb			
97	100	Dacite.	Wire to med green, massive rock with no bedding or other textural variations.	Py - Tr, dss c.c. - minor vn lts.												
			RQD - 90%, Hardness 5½													
			FOOT OF HOLE AT ~~200~~ 100'													
			(No DIP TEST TAKEN)													

DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
		Footage	Azimuth	Dip
NORTH	10226.365			
EAST	8231.090			
ELEVATION	2820.50			
AZIMUTH	293.64			
DIP	+20.55°	130'		+20°
MAP REFERENCE		METHOD: ACID ETCH		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR RAINBOW DIAMOND DRILLING
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE DELPHIM ZONE

HOLE Nº. PU-18
CLAIM NAME
COMMENCED DEC 8 1984
FINISHED DEC 10 1984
LOGGED BY T. DROWN
DATE LOGGED DEC 9-10 /84

INTERVAL FROM (m/ft)	INTERVAL TO (m/ft)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM/TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t	ASSAYS Au ppb	ASSAYS	VISUAL LOG	MAG SUS
0	8.2	Andesite.	Massive, dk. green-black.	Py - 3% diss. &												
			Occas. Ep-py patches to	patches												
			1cm long. Minor patches													
			of hematite.	cc-minor stgrs												
			Hardness 5, RQD-60%	Ep-patches usually												
			(6' of Core only)	with Py.		c/c	Core Broken.									
8.2	24.6	Dacite.	Med-H green mottled.			Bedding	75°-80°									
			Laminated with beds 1mm to	Py - 2-3% as												
			2cm thick. Lt. green mottling	above.												
			from Epidote, often up to	Hem on fwis.												
			35% locally over 8cm	Ep - 1% locally												
			length. Upper 3.5' of	to 35%												
			section has 15-20%	Hem - 1% overall												
			maroon hematite giving	last 3.5' to 2%.		c/c	GRAD.									
			core dk. maroon-blk colour.	C.C. - minor 2mm												
			Hardness 5, RQD-100%	stgrs.												
24.6	40.5	Quartz	White opaque quartz 70%	Qtz - 70%												
		-Epidote	with epidote 20% + in	Ep - 20% ±												
		Rock.	patches & infilling between	Hem - 5%												
			qtz grains. Bottom looking	Py - 2-3%, variable												
			rock; Does not look like													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-18
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED DEC 10/94

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM-TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Au oz/t	VISUAL LOG
			Rock appears silicified more than a definite vein. Rosy coloured mineral may be garnet; (too hard for sphalerite!)	Garnet-rosy coloured; Traces locally 1% as patches to 5mm.	36 / 40.5	U/C	GRADA 170/44	24.6	27.3	2.7	3425	0.001		0.01	
								27.3	30	2.7	3426	0.001		0.01	
								30	32.5	2.5	3427	0.001		0.01	
								32.5	35	2.5	3428	0.001		0.01	
			From 36 - 40.5; in and out of gtz-Ep rock, with green dacite (above) in between; overall last 4.5' has 40% Gtz-Ep.Rx, 60% dacite. Hardness 5-7; RQD-65%					35	36.5	1.5	3429	0.001		0.01	
								36.5	37.8	1.3	3430	0.001		0.01	
								37.8	38.7	1.3	3431	0.001		0.01	
								38.7	40.5	1.8	3432	0.001		0.01	
40.5	50.7	Dacite.	Lt. green, fg. aphanitic rock. Minor c.c. stringers and 5-8% Epidote throughout giving lt. green colouring. Hardness 5, RQD-100%	Py-Tr-1% cc-stngrs Ep-5-8% Prm-Tr.		U/C	30°/CA.								
50.7	52.5	Quartz Vein	Grey, massive, with epidote patches to 2mm and mm 2-5mm dk. green chlorite patches. Hardness 7, RQD-100%	Py-5-6% mostly patches c.c.-stngrs to 0.5mm		L/C	30°/CA.	50.7	52.5	1.8	3433	0.001		0.01	

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-18
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Dec 10/84

INTERVAL FROM (m)/Ft	INTERVAL TO (m)/Ft	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM-TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag oz/t	VISUAL LOG	MAG SUS
52.5	56.6	Dacite	Brecciated & silicified, Green-	1% mostly				52.5	55	2.5	3437	0.001		0.01		
		Breccia	maroon mottled; Frags	with qtz.				55	56.6	1.6	3435	0.001		0.01		
			to 3cm of dacite and	hem - 2-3%												
			quartz cut by numerous	with qtz &												
			2mm to 10mm qtz. veins	flooding matrix												
			at 30° to CA. Cement of	of Bx.												
			breccia is largely qtz.													
			with maroon hem. borders.													
			Hardness 5½, RQD - 90%													
56.6	64.8	Quartz	Grey, mass. qtz.	5% overall		L/C	30°	56.6	59.3	2.7	3436	0.002		0.01		
		Vein	with occas bx. & healed	as patches to		U/C	40°	59.3	62	2.7	3437	0.001		0.01		
			sections (minor) Frequent	15mm as				62	64.8	2.8	3438	0.001		0.01		
			silicified rock frags with	0.5mm stgrs												
			much chlorite. Frequent	parallel to vn. contact.												
			rosey mineral (Sph - Garnet -													
			or Ep mineral?) Possible	Ep - patches												
			K-spar patches in qtz.	& 0.5mm stgrs												
			particularly where bx.	usually with py.												
			frags caught up.													
			Tr-epy with py.	c.c. - stgrs to 1mm												
			Hardness 7, RQD - 95%	common.												

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-18
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Dec 10/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM-TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	ASSAYS Ag oz/t	VISUAL LOG
64.8	96.4	Dacite.	Lt to Med. green; Highly laminated, Alternating lt.-dk. green beds, mostly < 3 mm thick, but some to 3cm. Hardness 5, RQD-90%	Py-1% disg & stgrs. cc; common as hairline stgrs.		u/c	80°								
96.4	100	Quartz Feldspar Porph.	Grey, maroon mottled by 3-5% hem flooding. Clasts of qtz and felsic porphs; mostly < 1cm and subang. to ang. Matrix chlorite equiv. of some as clasts. Hardness 6, RQD-100%	Py-2% in matrix Hem-3% in matrix. cc-as vnlts & in matrix		u/c	80°								
100	101.4	Dacite.	Same as above dacite with a 15mm wide qtz vein with 5% py, 2% hem & chlorite patches. Hardness, 5½, RQD-100%	Py-5% in Qtz. Vn. 1% in dacite.		Qtz.	25° to CA.	100	101.4	1.4	3439	0.001		0.01	

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. UG-18
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Dec 10/84

INTERVAL		LITHOLOGY		ALT'N - MIN.	DEPTH	STRUCTURE		SAMPLE				ASSAYS			VISUAL LOG	MIX
FROM (m) FT	TO (m) FT	ROCKTYPE	DESCRIPTION		FROM TO	STRUC.	DIP - DIR	FROM (m)	TO (m)	WIDTH	Nº.	Au oz/t.	Au ppb	Ag oz/t		
101.4	105.6	Quartz Vein.	Grey, massive, with dis. pyrite, 1-15% to 102.7 then tapers off to 2-3% diss. Alternating bands at 80° to C.A. of light grey - dark grey quartz probably relic bedding of whatever was silicified; from 102.7 to 105'. Hardness 7, RQD - 100%	Py - 5% overall 8-15% locally. Hem - 1% locally		L/C	20-30°	101.4	102.7	1.3	3440	0.005		0.11		
						U/C	30°	102.7	104.1	1.4	3441	0.002		0.02		
								104.1	105.6	1.5	3442	0.001		0.01		
105.6	110	Quartz-Sericite Schist.	Green - maroon, mottled. Strongly fo. 96.4 to 100' with hematite staining. Hardness 6, RQD - 100%	Py - 1-2% diss & minor stgrs. cc - stgrs & in matrix.		U/C	80°									
110	114	Dacite.	Green-grey, beige mottled, thinly laminated. Similar to 64.8 to 96.4.			U/C	80°									

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-18
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Dec 10/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM-TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	MIN
114	119.6	Quartz-feldspar tuff.	Grey, beige-green-maroon mottled by felsic tuff, dacite and hematite. Clasts mostly <8mm and angular to subrounded. Occurs 5mm qtz stringer at 35° to CA. (3 in total) Matrix is gritty quartzose felsic material. In part welded & bedded. Hardness - 6, RQD - 100%	Py - 3% as discs in matrix Hem - 1% in matrix		Bedding U/C	75° 75°									
119.6	130.1	Dacite tuff.	Thinly laminated; beige to lt. green. Individual beds of grey tuff, dk green dacite, epidotized dacite, hematized dacite. Occurs 2cm thick beige felsic bed. Hardness 5½, RQD - 100%	Py - variable 3% overall, 5% locally C.C. - as stringers Hem - minor Ep - selectively replacing several beds.		Bedding U/C	75°									

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. UU-18
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Dec 10/84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM-TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
130.1	132	Quartrose felsic tuff.	Same as 114-119.6 Less bem here though. RQD-100%, Hardness 6.	Py-3-5% diss		C/C	75°									
						C/C	75°									
132	140.4	Dacite tuff.	Same as 119.6-130.1 with bedding same etc. Hardness 5½ RQD-100%			C/C.	75°									
						Bedding	70°-75°									
140.4	150'	Quartrose felsic welded tuff.	Same as 114-119.6 with large welded clasts too. Welded clasts fg. rhyolitic tuff welded to megular shapes between other rock clasts. Occas. Ep & bem patches (5% Ep locally) Minor c.c. patch 1 to 2cm across;	Py-3% diss c.c-mostly as stringers & occas 2cm patches Ep-locally 5% patchy, Hem-locally 3%, Patchy.		Bedding Bem Welded clasts	75°									
			FOOT OF HOLE AT 150'													
			DIP TEST AT 130' = +20°													

DIAMOND DRILL LOG

Collar:		HOLE SURVEY		
		Footage	Azimuth	Dip
NORTH	10055.672			
EAST	8404.055			
ELEVATION	2821.43			
AZIMUTH	140.67°			
DIP	+23.77°	315'		+26°
MAP REFERENCE		METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR RAINBOW DIAMOND DRILLING
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE SCHULTZ STOPE EXTENSION.

HOLE Nº. PU-19
CLAIM NAME
COMMENCED DEC 10 1984
FINISHED
LOGGED BY T. CROWN
DATE LOGGED DEC 11 to 1984

INTERVAL FROM	INTERVAL TO	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM/TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	MIN
0	7.2	Dacite	Olive green, gritty looking	fg-Tr-1%												
(5.5' core)		tuff.	rock with beige-green-grey	both diss & stgrs.		Bedding	70°-75°.									
			fg. tuff. clasts < 1mm.													
			Matrix is chloritic grit.	c.c - mostly												
			Hardness 5, RQD - 70%	hairline stgrs.		u/c	70°-75°									
7.2	26.5	Quartz-se	Dacite as above; in beds	fg-1-2% overall.												
		feld. tuff	20-40 cm thick;	diss & some stgrs.												
		interbedded	Tuff is multi-lithic			Bedding	75°									
		with	tuff with clasts dominantly	Hem - minor		Contacts										
		dacite.	quartzy, cherty tuffs and	patches in Multi-												
			feld. tuffs (dacites mostly)	lithic tuff.												
			with fg. gritty-chloritic													
			matrix heavy with c.c.,			u/c	Good.									
			Hardness 5-6, RQD - 90%													
26.5	29	Dacite.	Olive & lt. green, thinly laumi.													
			at 70°-75° to C.A. Individ.			Bedding	70°-75°.									
			beds 1-5 mm thick, mostly				± 40° in places									
			1 mm or less. Very massive													
			otherwise, almost cherty.													
			(ie. Cherty tuff)													
			Hardness - 5, RQD - 100%.													

DIAMOND DRILL LOG

PAGE ___ of ___

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. KL-19
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED DEC 11 1984

INTERVAL FROM (m)	INTERVAL FROM (ft)	INTERVAL TO (m)	INTERVAL TO (ft)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM - TO	STRUCTURE STRUC.	STRUCTURE DIP - DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	VISUAL LOG
29		34.7		Quartz eye Felsic welded tuff.	Dk. grey, beige mottled by irregular shaped welded felsic clasts to 2cm long. Clasts mostly green-grey dacite, cherty tuff and grey quartz. Clasts consistently subangular except those welded. Matrix is dacitic-chloritic gritty tuff. Hardness 6-7, RQD-100%	Py-1-2% locally more as 1cm patches. cc.-mica in matrix & calcite stringers.		u/c	75°							welded clasts. qtz. felsic.
34.7		52.6		Dacite.	Med green-dk. green massive almost cherty in places. some sections with visible thin laminations. Very brittle as breaks easily into <1" pieces where broken to put in box. Hardness-5, RQD-90%.	Py-Tr as tiny stringers. cc.-mica as stringers.	42'	bedding	40° ?							
							50'	bedding	70°							
52.6		58.5		Dacite tuff.	Olive green, gritty in appearance. Grit mostly <0.5 mm of beige-grey-green felsic	Py-2% disseminated stringers Ep-patches to		u/c	40° to CA							

DIAMOND DRILL LOG

PAGE ____ of ____

Collar:	HOLE SURVEY		
NORTH	Footage	Azimuth	Dip
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL		LITHOLOGY		ALT'N - MIN.	DEPTH	STRUCTURE		SAMPLE				ASSAYS			VISUAL LOG	MAG SUS
FROM (m)	TO (m)	ROCKTYPE	DESCRIPTION		FROM / TO	STRUC.	DIP - DIR	FROM (m)	TO (m)	WIDTH	Nº.	Au oz/t.	Au ppb			
			clasts. Clasts rounded to	reveal cm												
			angular. Matrix is	across and as		Bedding	40°									
			chloritic-epidotic grit.	alt'n of felsic												
			Bedding indicated by darker	clasts: overall												
			layers of dacite, due to	5-8%.												
			much finer grain clasts.	c.c. - mostly in												
			± less epidote.	stgrs.												
			Hardness 5, RQD-100%			c/c	40°									
58.5	62.7	Multi-	Quartzose felsic tuff, similar	Py-2% diss												
		lithic	to another holes. Same as	± stgrs.												
		tuff	multi-lithic unit from													
			7.2 to 26.5, with Ep/Sote	Ep-2% overall,												
			patches ± locally flooding	locally 10%												
			of matrix. Hem. occurring													
			some as ep but not	Hem-1-2%												
			necessarily with the Ep.	Locally 5%.												
			Hardness 6, RQD-100%.			c/c	40°±60°	Gradational.								
62.7	72.3	Dacitic	Lt-green to grey, thinly			c/c	Gradational.									
		dusty tuff	laminated dusty rock.													
			Going from H-grain													
			Ep/Sote with,													
			↑ at bottom of section to													

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	MIN
			grey-buff colour in top of section; Individ. beds 1mm to 5mm; mostly 2-5mm. Bedding is variable and beds are discontinuous or lenses. Hardness 5, RQD-100%	Py-Tr-1% diss Ep-1% over first 4 feet, c.c.-stgrs, <1mm wh.		Bedding	40°-50° (Variable)									
72.3	79.8	Cherty Argillite breccia	Blocks with grey mottling by cherty clasts, Overall clasts and argillaceous with 15-20% grey cherty tuff. Clasts rounded to angular, 2mm to 20mm. Hardness 4½, RQD-90%	c.c-mm wh/lt cutting argillite. Py-Tr-1%.		Bedding	65°									
79.8	85.5	Argillite	Black, massive with mm. white c.c. stgrs to 2mm. at 20°, 40°, 60° to CA. Hardness 4½, RQD-75%	Py-Tr. v.fg.		c/c	70°									
85.5	91.2	Cherty tuff.	Grey-green with occas black patch 5-10 cm long of argillite. Clasts of tuff 2-4mm			Bedding	70°-75°									

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL		LITHOLOGY		ALT'N - MIN.	DEPTH	STRUCTURE		SAMPLE				ASSAYS			VISUAL LOG	MIX
FROM (m)	TO (m)	ROCKTYPE	DESCRIPTION		FROM TO	STRUC.	DIP - DIR	FROM (m)	TO (m)	WIDTH	Nº.	Au oz/t.	Au ppb			
			mostly green to grey clasty	c.c - veins frequent												
			material; matrix is fg.	⅓ in matrix.												
			out of similar comp.	py - Tr - 1%.												
			Hardness 4½-5, RQD - 100%			LIC	70-75°									
91.2	95.6	Dusty	Same as 62.7' to 72.3'			Bedding	65°									
		clasitic				LIC	60°									
		tuff.														
95.6	102.3	Feldspar	Grey-white mottled. Etched to	py - 1% diss, f.g.												
		porphyry	euhedral pleg. visible, mostly	c.c - occurs. to												
			0.5 to 2mm long Matrix is	2mm at 65°												
			grey aphanitic material,			LIC	60°									
			possibly sericite from H. grn.	- Pleg. has trachytic												
			colouration. Looks very	texture near												
			similar to porphyry "dyke"	contacts; indic.												
			seen adjacent vein on	poss. dyke!!												
			east end of vein.	⅔ LIC is chilled.												
			Hardness, 5, RQD - 100%													
102.3	117.3	Gritty	Green-grey, with occas.	py - 1% ~~stg. diss~~												
		tuff.	white section ~~&~~ with abund.	c.c - stages ~~has~~												
			calcite & clasty clasts.	patches ~~to 15%~~												

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-19
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY T. Brown
DATE LOGGED DEC 12 1984

INTERVAL FROM (ft)	TO (ft)	ROCKTYPE	DESCRIPTION	ALT'N-MIN.	DEPTH FROM-TO	STRUC.	DIP-DIR	SAMPLE FROM (m)	TO (m)	WIDTH	Nº.	ASSAYS Au oz/t.	Au ppb		VISUAL LOG
			Clasts mostly of lt. green massive dacite & near white cherty tuff. Matrix is gritty tuff of same comp. with minor lt. green chl. & calcite.	Ep-Chl-minor as 1-2mm envelopes along some fractures.		Bedding	60°								
			Clasts mostly 0.5 to 2 mm. Hardness 5, RQD-100%.			U/C	60°								
117.3	125.8	Dacite.	Lt. Green, massive except for tuff-like section, 120' to 123'. No visible bedding or other textures. Hardness 5, RQD-100%.	Py-Tr; v.f.g. c.c.-minor as strgrs.		U/C	60°								
125.8	193.4	Dacite tuff.	Grey, with lt. green patches from chl-Ep. &/or sericite. In part brecciated over 10-20 cm lengths. Minor visible relic feldspar phenos. <0.5mm. Num. c.c. strgrs throughout & some in matrix of rock. Occas. beige patches from felsic tuff inclusions.	Ep-<1%, locally Chl-locally in fractures Py-1% v.f.g. diss. C.c.-num. strgrs to 2mm		Bedding	65°								

DIAMOND DRILL LOG

PAGE 1 of ____

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. UU-19
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED Dec 12, 1984

INTERVAL FROM (m/ft)	INTERVAL TO (m/ft)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t	ASSAYS Au ppb	VISUAL LOG
			Upper 8' more fuffaceous with clasts of some comp to 25mm, mostly 3-5mm in matrix some as rest of rock. Hardness - 4½-5, RQD - 95%			U/C	65°							
193.4	208.5	Argillite.	Black with white c.c. stages. & patches. Massive otherwise. Hardness 4½, RQD - 100%	Py - 1% v. fg.	197 / 199.2	Fault BX.	50° to CA							
208.5	222.4	Felsic tuff.	Beige - grey; massive, possibly docite in comp. Frequently seen as clasts in other tuffs & breccias. Colour varies from beige to green - beige. grade reflecting individ. beds Hardness 5½, RQD - 100%	Py - ¼% diss c.c. - as veins common but not abundant.	222.1 / 222.3	Fault with c.c.	55°-60°							
						U/C	60°							
222.4	236.6	Dacitic Gritty tuff.	Grey - green, v.f.g. tuff Frags, mostly ≤ 2mm and gritty in appearance, Felsic to chert in comp. Hardness 5, RQD - 100%.	Py - Tr. diss c.c. - Common as stringers		U/C Poss	35° to CA. Fault.							

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. UU-19
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED DEC 12/84

INTERVAL FROM (m)	INTERVAL FROM FT	INTERVAL TO (m)	INTERVAL TO FT	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM	DEPTH TO	STRUCTURE STRUC.	STRUCTURE DIP - DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
226.6		230		Felsic tuff.	Same as 208.5 - 222.4 with massive beige - felsic rock. Hardness 5½, RQD-100%														
230		232.5		Dacitic gritty tuff.	Similar to above; 222.4 to 226.6'; Hardness 5, RQD-100%				u/c	60° to CA.									
232.5		234.7		Dacite (Felsic tuff)	Beige felsic tuff, Prob. dacitic to rhyolitic composition Hardness 5½, RQD-100%	Py - 4% blebs c.c - minor stgrs			u/c	60°									
234.7		238		Mixed cherty-tuff bx. and silty tuff.	Black, grey mottled. Black silty-tuff in irreg. shaped blocks or bands with pebbly cherty tuff-bx. clasts between. Cherty clasts grey, mostly angular, 10cm average. Hardness - 4-6, RQD - 100%	Py - 1% vfg. c.c. - common as stgrs.			Bedding u/c	65° to CA. 60°									
238		251.1		Multi-lithic breccia	Dark grey to black; mottled grey-white by veratrum clasts. Clasts of quartz, cherty-tuff														

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº.
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM/TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb	VISUAL LOG
			Limestone and other grey-green felsic tuffs & volcs. Matrix is some material only finer grained.	Py-1% diss C.C.-vnlts common	~~257~~	~~Fault~~ ~~fracture zone~~ c/c	~~32°~~ 60°							
251.1	~~258.7~~ 255	Quartzose felsic tuff.	Grey; gritty rock with angular to subang. clasts of quartz (50%), grey cherty tuff 20%, grey quartz tuff clasts 15%. Matrix is grey cherty material of similar composition. Hardness - 5½, RQD-100%	Py-Tr-1% fine, diss C.C.-fine, stringers to 2mm wide.	257	Fault with Vein Bx & c.c. cement c/c	30° to CA - 65°							
258.7	264	Argillite. (cherty)	Black, with num. white c.c. stngrs. to 1cm. wide. Same as 193.4'-208.5' Hardness 4½, RQD-95%	Py-1% v. fine diss. locally 3% as patches.		Bedding c/c	70° to CA. 65°-70°							
264	268.8	Quartzose felsic tuff	Same as 251.1 to 258.7. Lower 1 foot has coarser clasts to 3cm; otherwise clasts ~2mm. Hardness-6, RQD-100%											

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. UU-19
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY
DATE LOGGED DEC 13, 84

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N - MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	MIN
288.8	288.5	Multi-lithic breccia	Same as 238 to 251.1.	Py - v. fny diss 1-2%. cc. - vnlts abund. & patches in breccia matrix. locally to 15%		c/c	Gradational.									
288.5	294	Dacite. felt.	Lt. grey, gritty to massive with several multi-lithic breccia beds within to 10 cm thick. Frequently thinly laminated where not gritty. Hardness 5, RQD - 100%	Py - 1% v. fny. diss. cc. - common as stngrs.		Bedding	70°									
						c/c	70°									
294	325.2	Dacite ± Multi-lithic breccia mixed.	Grey-green massive dacite interbedded with multi-lithic breccia (same as above) in beds 10cm to 1m thick. Breccia beds become thicker with depth, being 2-3 m with	Py - 1-2% diss & stngrs cc - Common as stngrs & patches in Bx.		Bedding	70° TCA.									

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
DRILLING CONTRACTOR
ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-19
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY T. O'Rourke
DATE LOGGED DEC 13 1987

INTERVAL FROM	INTERVAL TO	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N – MIN.	DEPTH FROM / TO	STRUCTURE STRUC.	STRUCTURE DIP – DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
			less ⅕ less dacitic beds & dacite beds becoming only 5–15 cm wide. Hardness 5½–6, RQD-100%			L/C	70° to CA.									
325	334	Dacite	Beige, crudely laminated at 50–60° to CA. Very massive looking, no visible texture. Hardness – 5, RQD – 100%	Py – 2–3% as stngrs, frag. with Epidote Ep – Tr to 2% locally in patches.		Bedding 60°										
334	348	Dacite.	Green, v. fg. with grains of Feldspar <0.2 mm, but just visible. Some thin laminations. Occas. section darker green possibly andesitic (minor however). RQD – 100%, Hardness 5.	Py – 2%, diss & stngrs. Ep – minor patches & stngrs with pyrite. Hem – minor 0.1 mm stngrs.		Bedding 40° to CA. U/C	50°									
348	381.8	Dacite Breccia	Grey with some beige & green sections. Broken to 1–4 cm angular clasts. Cement is calcite & or pyrite.	Py – 2–3% as stngrs & cement of Bx. Cx – cement & stngrs												

DIAMOND DRILL LOG

Collar:	HOLE SURVEY		
	Footage	Azimuth	Dip
NORTH			
EAST			
ELEVATION			
AZIMUTH			
DIP			
MAP REFERENCE	METHOD:		

PROJECT PEARL RESOURCES LTD.
PROPERTY NAME UNION GOLD PROJECT
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ASSAYER MIN-EN LABORATORIES LTD.
PURPOSE OF HOLE

HOLE Nº. PU-19
CLAIM NAME
COMMENCED
FINISHED
LOGGED BY T.O'Rourke
DATE LOGGED DEC 13, 1984

INTERVAL FROM (m)	INTERVAL TO (m)	LITHOLOGY ROCKTYPE	LITHOLOGY DESCRIPTION	ALT'N-MIN.	DEPTH FROM-TO	STRUCTURE STRUC.	STRUCTURE DIP-DIR	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE WIDTH	SAMPLE Nº.	ASSAYS Au oz/t.	ASSAYS Au ppb		VISUAL LOG	
			Hardness 5, RQD - 100%			u/c	35°									
						Pass. Fault Contact										
381.8	386.7	Andesite tuff	Dk green with freq. Ep patches & stngrs. often with py. Tuff. clasts mostly v.f-g, < 0.5mm, just visible. Matrix is quite chloritic. Hardness - 5, RQD - 100%	Py - 3% patches, diss. & stngrs often with Ep Ep - 2% locally as patches & stringers.		u/c	45°									
386.7	395	Diorite. Breccia	Same as 348 to 381.8; with c.c. stngrs & c.c. cement in Bx.													
			FOOT OF HOLE AT 395'													
			DIPTEST AT 315' = +26°													