APPENDIX B

DISCONTINUITY DATA AND POINT LOAD TEST RESULTS

APPENDIX B

IMPERIAL METALS CORPORATION
MT. POLLEY PROJECT

DISCONTINUITY DATA AND POINT LOAD TEST RESULTS

DRILLHOLE MP89-152 (285/55)

DEPTH from	DEPTH to	ROCK TYPE	R.Q.D.	FRACTURE INDEX (jt/ft)	GAUGE (psi)	COMP.STRENGTH (psi)	COMP.STRENGTH (MPa)
10	20	DIORITE	60	2.0	3200	36188	250
20	30		82	2.0	3200	36188	250
30	40		83	1.0	3500	39581	273
					2900	32796	226
40	50		68	1.5	3500	39581	273
					2800	31665	218
50	60		95	1.2			
60	70		80	2.0	1000	11309	78
70	80		88	1.0	2000	22618	156
					4000	45235	312
80	90		93	1.5	2900	32796	226
90	100		68	3.0	2000	22618	156
100	110		93	1.0	1000	11309	78
110	120		100	1.2	2200	24879	172
120	130		65	2.7			
130	140		80	1.0	2800	31665	218
140	150		80	1.2	3000	33926	234
150	160		75	1.3	3000	33926	234
160	170		97	1.7	1900	21487	148
170	180		75	1.7	2600	29403	203
180	190		80	High	400	4524	31
190	200		20	High			
200	210		40	High	1800	20356	140
220	230		20	V.High			
220	230	SYENO	40	High	400	4524	31
230	240		60	2.5	1500	16963	117
240	250		35	3.0	1000	11309	78
250	260		18	High			
260	270		35	High	200	2262	16
270	280		25	High	200	2262	16
280	290		10	High	900	10178	70
290	300		7		100	1131	8
300	310		5	High			
310	320		3	High	700	7916	55

APPENDIX B (Continued)

DRILLHOLE MP89-152 (285/55)

DEPTH from	to	ROCK TYPE	R.Q.D.	FRACTURE INDEX (jt/ft)	GAUGE (psi)	COMP.STRENGTH (psi)	(MPa)
320	330		0	High			
330	340		15	High	700	7916	55
340	350		-	1.5	600	6785	47
					800	9047	62
350	360		85	1.8	1700	19225	133
					2200	24879	172
360	370		99	0.7	1100	12440	86
370	380		95	1.5	2700	30534	211
380	390		95	1.2	2600	29403	203
390	400		80	4.0	1200	13571	94
					2000	22618	156
400	410		80	1.0	2100	23748	164
410	420		80	3.3	1800	20356	140
					2600	29403	203
420	430		65	3.3	1200	13571	94
430	440		70	3.0	700	7916	55
440	450		15	High	1200	13571	94
450	460		83	1.7	1200	13571	94
					1000	11309	78
460	470		94	1.4	1600	18094	125
470	480		90	1.0			
480	490		85	1.1	2800	31665	218
					400	4524	31
490	500		80	2.0			
500	510		65	1.0	700	7916	55
510	520		40	3.0	900	10178	70
520	530		70	1.6	1800	20356	140
530	540		75	0.8			
540	550		85	0.8	700	7916	55
					1200	13571	94
550	560		45	High	900	10178	70
560	570		45	High	600	6785	47
570	580		35	High	400	4524	31
			35	High	600	6785	47
580	590		30	High	2800	31665	218
590	600		15	High	700	7916	55
					1500	16963	117
600	610		92	0.4	2100	23748	164
610	620		98	0.5	1900	21487	148
620	630		73	1.6			

APPENDIX B (Continued)

DRILLHOLE MP89-152 (285/55)

DEPTH from	DEPTH to	ROCK TYPE	R.Q.D.	FRACTURE INDEX (jt/ft)	GAUGE (psi)	COMP.STRENGTH (psi)	COMP.STRENGTH (MPa)
630	640		92	1.0	2000	22618	156
640	650		92	0.8	800	904	762
650	660		35	1.2	300	3393	23
660	670		98	0.5	200	2262	16
					900	10178	70
670	680	IB	95	0.8	1700	19225	133
					1600	18094	125
680	690		95	0.7	400	4524	31
					1000	11309	78
690	700		87	1.3	3000	33926	234
					2000	22618	156
					1700	1922	133
700	710	DYKE	95	1.2	1200	13571	94
		IB			1000	11309	78
710	720		100	0.6	2800	31665	218
720	730		85	1.1	600	6785	47
730	740		90	1.0	1900	21487	148
740	750		50	1.0	300	3393	23
					100	1131	8
750	760		100	0.4	1300	14701	101
					1200	13571	94
760	770		90	0.6	300	3393	23
					700	7916	55
770	780		40	High	50	565	4
780	790		35	1.5	1900	21487	148
790	800		25	High	1500	16963	117
800	810		-	0.9	3200	36188	250
810	820		92	0.9	1100	12440	86
					3200	36188	250
820	830		87	1.1	2500	28272	195
830	840		80	1.1	900	10178	70
					2100	23748	164
840	850		50	High	600	6785	47
					1600	18094	125
850	860		90	1.1	2300	26010	179
					1500	16963	117
860	870		95	1.1	1100	12440	86
870	880		25	1.2	800	9047	62
880	890		96	0.5	200	2262	16
					500	5654	39

APPENDIX B (Continued)

DRILLHOLE MP89-152 (285/55)

DEPTH from	DEPTH to	ROCK TYPE	R.Q.D.	FRACTURE INDEX (jt/ft)	GAUGE (psi)	COMP.STRENGTH (psi)	COMP.STRENGTH (MPa)
890	900		94	0.7	300	3393	23
900	910		90	1.7	800	9047	62
910	920		55	3.0	300	3393	23
920	930		45	2.0	200	2262	16
					400	4524	31
930	940		30	High	100	1131	8
940	950		87	1.4	3500	39581	273
950	960		70	2.0	1200	13571	94
960	970		90	1.5	1500	16963	117
970	980		93	1.4	2500	28272	195
					200	2262	16
980	990		85	1.3	1500	16963	117
990	1000			1.5	2300	26010	179

DRILLHOLE MP89-153 (253/50)

DEPTH from	DEPTH to	ROCK TYPE	R.Q.D.	FRACTURE INDEX (jt/ft)	GAUGE (psi)	COMP.STRENGTH (psi)	COMP.STRENGTH (MPa)
30	40		25	High	1000	11309	78
40	50		15	High			
50	60		35	High	500	5654	39
60	70		70	High	1000	11309	78
70	80	DYKE IB	35	High	2500	28272	195
					600	6785	47
80	90		15	High	100	1131	8
90	100		35	High	100	1131	8
100	110		18	3.0	800	9047	62
110	120		50	2.2	2300	26010	179
120	130		15	3.0	1700	19225	133
130	140		12	4.0	1200	13571	94
140	150		95	1.1	400	4524	31
150	160		95	0.9	1300	14701	101
160	170		91	1.0	2000	22618	156
170	180		35	2.6	1200	13571	94
180	190		65	2.4	100	1131	8
					300	3393	23
190	200		87	1.3	2700	30534	211
200	210		99	0.8	3600	40712	281
210	220		94	1.2	1800	20356	140
					2500	28272	195
220	230		97	0.7	3800	42973	296
230	240		92	1.1	2900	32796	226

APPENDIX B (Continued)

DRILLHOLE MP89-153 (253/50)

DEPTH from	DEPTH to	ROCK TYPE	R.Q.D.	FRACTURE INDEX (jt/ft)	GAUGE (psi)	COMP.STRENGTH (psi)	COMP.STRENGTH (MPa)
240	250		100	0.6	2500	28272	195
250	260		80	1.4	1100	12440	86
260	270		100	0.4	1000	11309	78
			100	0.4	1400	15832	109
270	280		100	0.4	3000	33926	234
			100	0.4	1500	16963	117
280	290		80	1.2	2600	29403	203
290	300		96	0.7	1700	19225	133
300	310		89	1.1	1400	15832	109
310	320		96	0.9	2400	27141	187
320	330		50	2.7	1300	14701	101
330	340	DYKE IB	80	1.2	600	6785	47
					400	4524	31
340	355		83	1.0	2200	24879	172
350	360		98	0.6	1500	16963	117
360	370		100	0.6	1400	15832	109
370	380		80	1.6	1000	11309	78
380	390		100	0.4	1600	18094	125
390	400		98	0.9	2200	24879	172
400	410		100	0.3	2000	22618	156
410	420		100	0.5			
420	430		100	1.0	1300	14701	101
430	440		100	0.5	2000	22618	156
					1200	13571	94
440	450		91	0.4	1900	21487	148
450	460		96	0.6	1800	20356	140
460	470		100	0.5			
470	480		100	0.7	1200	13571	94
480	490		100	0.3	1200	13571	94
490	500		100	0.0	1200	13571	94
					1000	11309	78
					4000	45235	312
500	510		100	0.4	2500	28272	195
510	520		98	0.7	1500	16963	117
520	530		97	0.7	3000	33926	234
530	540		90	0.8	2200	24879	172
540	550		100	0.3	2200	24879	172
550	560		100	0.7	2300	26010	179
560	570		65	1.8	800	9047	62
570	580		50	2.6	300	3393	23

APPENDIX B (Continued)

DRILLHOLE MP89-153 (253/50)

DEPTH from	DEPTH to	ROCK TYPE	R.Q.D.	FRACTURE INDEX (jt/ft)	GAUGE (psi)	COMP.STRENGTH (psi)	COMP.STRENGTH (MPa)
					700	7916	55
580	590		20	2.0	500	5654	39
					2800	31665	218
590	600		75	1.5	1100	12440	86
600	610		40	3.0	50	565	4
					100	1131	8
610	620		82	1.3	800	9047	62
620	630		97	0.6	1000	11309	78
630	640		95	0.3	2400	27141	187
640	650		80	1.2	2000	22618	156
650	660		100	0.3	2800	31665	218
660	670		100	0.1	500	5654	39
					1000	11309	78
670	680		98	0.4	2700	30534	211
					700	7916	55
680	690		95	1.1	100	1131	8
				1.1	700	7916	55
690	700		96	0.8	1000	11309	78
700	710		89	0.9	2200	24879	172
710	720		92	0.7	900	10178	70
720	730	DYKE	70	1.4	1000	11309	78
730	740		75	0.8	1500	16963	117

DRILLHOLE MP89-154 (245/50)

10	20	IB	20	2.5	2000	22618	156
					2800	31665	218
20	30		30	2.5	1400	15832	109
30	40		50	1.8	400	4524	31
40	50		30	1.8			
50	60	DYKE	70	1.7	100	1131	8
		IB			300	3393	23
60	70		25	3.0	1100	12440	86
70	80		95	High	400	4524	31
80	90		45	High	400	4524	31
90	100		7	High	1100	12440	86
100	110		45	1.9	600	6785	47
110	120		55	1.9	2600	29403	203
120	130	DYKE	55	2.1	600	6785	47
130	140	IB	30	High	350	3958	27

APPENDIX B (Continued)

DRILLHOLE MP89-154 (245/50)

DEPTH from	DEPTH to	ROCK TYPE	R.Q.D.	FRACTURE INDEX (jt/ft)	GAUGE (psi)	COMP.STRENGTH (psi)	COMP.STRENGTH (MPa)
140	150		25	3.0	350	3958	27
150	160		55	1.7	150	1696	12
160	170		55	1.0	300	3393	23
170	180		35	High			
180	190		30	High	300	3393	23
190	200		60	High			
200	210	DYKE	12	High	300	3393	23
210	220	IB	3	High	250	2827	19
220	230		3	High	50	565	4
230	240		15	High			
240	250		40	High	1100	12440	86
250	260		30	High			
260	270		45	High			
270	280		14	High			
280	290			High			
290	300	DYKE	18	High	500	5654	39
300	310	IB	5	High			
310	320		18	High	300	3393	23
320	330		45	7.5	700	7916	55
					900	10178	70
330	340		75	1.5	4100	46366	320
340	350		95	1.2	5000	56544	390
350	360		85	1.6			
360	370		94	0.9	3000	33926	234
370	380		91	1.1	2600	29403	203
380	390		40	2.2	3400	38450	265
390	400		97	1.2	4100	46366	320
					3600	40712	281
400	410		93	1.3	3000	33926	234
410	420		93	1.2	1400	15832	109
420	430		92	1.4	3500	39581	273
430	440		83	2.3			
440	450	SYENO	85	1.6	2900	32796	226
450	460		90	1.1	2800	31665	218
460	470		95	0.8			
470	480		87	1.0			
480	490		95	1.1			
490	500		94	1.2			
500	510		96	1.2			
510	520		91	1.0			

APPENDIX B (Continued)

DRILLHOLE MP89-154 (245/50)

DEPTH from	DEPTH to	ROCK TYPE	R.Q.D.	FRACTURE INDEX (jt/ft)	GAUGE (psi)	COMP.STRENGTH (psi)	COMP.STRENGTH (MPa)
520	530		92	1.4			
530	540		100	0.4			
540	550		98	0.7			
550	560		92	0.9			
560	570	IB	87	1.3	2400	27141	187
570	580		95	1.1	2000	22618	156
580	590	DYKE	82	0.8	3400	38450	265
				25	High		
600	610	SYENO	100	0.1	3600	40712	281
610	620	IB	97	1.2	1400	15832	109
620	630	DYKE	95	0.7	1600	18094	125
630	640	SYENO	90	0.9	900	10178	70
640	650		92	1.3	3700	41843	289
650	660		85	1.4	1600	18094	125
660	670		90	1.3	1700	19225	133
670	680		96	0.7			
680	690		99	1.0	1400	15832	109
690	700		95	1.0	3500	39581	273
700	710	IB	87	1.0	500	5654	39
710	720		80	1.3	100	1131	8
					1500	16963	117
720	730		30	2.0	900	10178	70
730	740		40	2.0	500	5654	39
740	750		30	High	500	5654	39
750	760		20	High	0	0	0
760	770		25	V.High			
770	780		10	V.High	0	0	0
780	790		18	V.High	50	565	4
790	800		15	V.High			
800	810		34	High	50	565	4
810	820		23	High	300	3393	23
					0	0	0
820	830		6	V.High	150	1696	12
830	840		40	High			
840	850	IB	68	1.4	600	6785	47
850	860		53	1.4	1300	14701	101
860	870		50	1.2			
870	880		85	1.1	150	1696	12
880	890		70	1.3	800	9047	62
890	900		100	1.0	300	3393	23

APPENDIX B (Continued)

DRILLHOLE MP89-154 (245/50)

DEPTH from	DEPTH to	ROCK TYPE	R.Q.D.	FRACTURE INDEX (jt/ft)	GAUGE (psi)	COMP.STRENGTH (psi)	COMP.STRENGTH (MPa)
900	910		100	0.4	800	9047	62
910	920		97	0.7	400	4524	31
920	930		65	1.0	1200	13571	94
930	940		100	0.6	800	9047	62
940	950		89	0.8	500	5654	39
950	960		98	0.7	1400	15832	109
960	970		90	1.4	200	2262	16
970	980		18	1.5	400	4524	31
980	990		70	1.2	2000	22618	156
990	1000		93	1.6	300	3393	23
1000	1010		15	High	100	1131	8
1010	1020		15	High			
1020	1030		85	1.5	1100	12440	86
1030	1040		85	1.5	1500	16963	117