GM 04013-B

ASSAY RESULTS

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ROY TWP.

PORTAGE ISLAND C.M.L.

SAMPLE SHEET of DDH.

1957

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

REVISED ASSAY SHEET

P124

FOOTAGE	WIDTH	FIRST SAMPLINGS NUMBER	AU	CU	SECOND SAMPLINGS NUMBER	AU	CU	MEAN CU VALUE
545.0 - 546.0	1.0				1092	0.02	0.65	
546.0 - 551.0	5.0	1081	0.01	0.35	1090	0.01	0.60	0.47
551.0 - 556.0	5.0	1082	0.01	0.100	1091	0.01	1.25	0.67
556.0 - 560.0	4.0				1093	0.01	0.60	
	15.0							

Average 15 ft. at 0.010 oz. AU & 0.584% CU.

576.3 - 577.5	1.2				1088	0.01	0.55	
577.5 - 580.5	3.0	1083	0.03	3.65				
580.5 - 582.0	1.5	1084	0.01	1.100				
582.0 - 585.0	3.0				1089	0.01	0.25	
	8.7							

Average 576.3 - 585.0 8.7' at 0.017 oz. AU & 1.61% CU

576.3 - 582.0 5.7' at 0.019 oz. AU & 2.32% CU.

JGT:wat

ASSAY RESULTS

CONTINUATION P 130

NUMBER	FOOTAGE	WIDTH	DESCRIPTION	CU	AU
5797	385.0 - 390.0	5.0'	Mineralized granite & volcanics		
5798	390.0 - 393.0	3.0	" " "		
5799	393.0 - 398.0	5.0	" " "		
5800	398.0 - 401.0	3.0	" " "		
9301	401.0 - 404.0	3.0	" " "		
9302	404.0 - 406.5	2.5	" " "		
9303	406.5 - 410.0	3.5	" " "		
9304	410.0 - 412.5	2.5	" " "		
9305	412.5 - 416.0	3.5	" " "		
9306	416.0 - 422.0	6.0	" " "		
9307	422.0 - 426.0	4.0	" " "		
9308	426.0 - 430.0	4.0	" " "		
9309	430.0 - 435.0	5.0	" " "		
9310	435.0 - 439.0	4.0	" " "		

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

SAMPLE SHEET

P139

SAMPLE NO.	FOOTAGE	WIDTH	DESCRIPTION	ASSAY	
1127	28.0 - 32.0	4.0'	Py. with carbonate in chlor. zone.	AU: CU:	 0.010
1128	370.0 - 372.5	2.5'	Minor Py. & Cpy.	AU: CU:	 1.100
1129	381.0 - 386.0	5.0'	Minor Py. in chlor. volcanics	AU: CU:	 0.250
1107	386.0 - 394.0	8.0'	Py & minor Cpy in chlor. volcan. 3' core missing.	AU: CU:	0.010 0.600
1108	394.0 - 398.0	4.0'	Py & 6% Cpy in chlor. volcan. 1.3' core missing.	AU: CU:	0.020 4.700
1109	398.0 - 401.0	3.0'	Py. & 2% Cpy in chlor. volcanics.	AU: CU:	0.020 1.650
1110	401.0 - 405.0	4.0'	Py. & 1% Cpy. in chlor. volcanics.	AU: CU:	0.010 1.500
1111	405.0 - 408.0	3.0'	Py & Cpy with pink carb. veins in chlor. volcan.	AU: CU:	0.010 1.500
1112	408.0 - 412.5	4.5'	Same as 1111. 2% Cpy.	AU: CU:	0.020 1.850
1113	412.5 - 415.5	3.0'	75% Cpy. in pink-white carbonate vein.	AU: CU:	0.030 25.000
1114	415.5 - 418.0	2.5'	Py. & some Cpy. in chlor. volcanics.	AU: CU:	0.020 2.750
1115	418.0 - 423.0	5.0'	Minor Py. & Cpy. in chlor. volcanics.	AU: CU:	0.010 0.750
1116	423.0 - 428.0	5.0'	Same as 1115.	AU: CU:	0.010 0.600
1130	428.0 - 433.0	5.0'	Minor Py. in chlor. volcanics.	AU: CU:	 0.15

AVERAGES: 386.0 - 428.0 42.0' 3.23% CU.

394.0 - 418.0 24.0' 5.19% CU.

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

SAMPLE SHEET

P139

SAMPLE NUMBER	FOOTAGE	WIDTH	DESCRIPTION	ASSAY
1131	457.0 - 459.0	2.0'	Minor Py. & Cpy. in carb. rich volc.	AU: Tr. CU: 0.05
1132	459.0 - 464.0	5.0'	As above.	AU: 0.01 CU: 0.05
1117	464.0 - 469.0	5.0'	Py. & minor Cpy. in chlor. volc.	AU: 0.01 CU: 0.20
1118	469.0 - 473.5	4.5'	As above, carbonate rich.	AU: 0.01 CU: 0.60
1119	473.0 - 475.0	1.5'	Same as 1118, plus pink carb. vein material.	AU: 0.02 CU: 0.90
1120	475.0 - 477.5	2.5'	2% Cpy. in chlor. & carb. rich volcanics.	AU: 0.02 CU: 2.00
1121	477.5 - 480.5	3.0'	5% Cpy. in pink carb. vein	AU: 0.06 CU: 4.50
1122	480.5 - 482.5	2.0'	As above. 2% Cpy.	AU: 0.07 CU: 2.50
1123	482.5 - 485.5	3.0'	Same as 1121.	AU: 0.02 CU: 4.00
1124	485.5 - 488.0	2.5'	Minor Cpy. in chlor. & carb. rich volc.	AU: Tr. CU: 0.50
1125	488.0 - 492.0	4.0'	0.75% Cpy. in chlor. & carb. rich volc.	AU: Tr. CU: 0.65
1126	492.0 - 495.0	3.0'	4% Cpy. in brecciated carb. vein material.	AU: 0.02 CU: 3.00

Rock following 495.0' is anorthositic and barren.

AVERAGE:

464.0 - 495.0	31.0'	1.72% CU
473.5 - 495.0	21.5'	2.45% CU

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.,

SAMPLE SHEET

P139

SAMPLE NO.	FOOTAGE	WIDTH	DESCRIPTION	ASSAY
1138	682.0 - 687.0	5.0'	Minor Py. & some Cpy. in granite dyke.	AU: CU:
1139	687.0 - 689.5	2.5'	Massive Py. in quartz.	AU: CU:
1140	689.5 - 692.5	3.0'	Same as 1139.	AU: CU:
1141	692.5 - 697.5	5.0'	Py. & occasional Cpy. in chlor. volcanics.	AU: CU:
1142	697.5 - 702.5	5.0'	Py. & Cpy. in chlor. volcanics.	AU: CU:
1143	793.5 - 798.5	5.0'	Cpy. with carb. veins in chlor. volcanics.	AU: CU:
1144	810.5 - 812.0	1.5'	Cpy. in carb. stringers.	AU: CU:
1145	854.0 - 857.0	3.0'	Minor Py. in chlor. volc.	AU: CU:
1146	857.0 - 861.0	4.0'	Py. & Cpy. in chlor. volcanics.	AU: CU:
1147	869.5 - 874.5	5.0'	Py. in granite dyke.	AU: CU:
1148	874.5 - 878.5	4.0'	Minor Py. & Cpy. in chlor. volc.	AU: CU:
1149	878.5 - 881.0	2.5'	Same as 1148.	AU: CU:
1150	881.0 - 885.0	4.0'	Same as 1148.	AU: CU:
1151	885.0 - 888.0	3.0'	Py. in chlor. volc.	AU: CU:

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.,

SAMPLE SHEET

P139

SAMPLE NO.	FOOTAGE	WIDTH	DESCRIPTION	ASSAY
1152	888.0 - 893.0	5.0'	Py. & minor Cpy. in chlor. volcanics.	AU: CU:
1153	893.0 - 896.5	3.5'	Py. & 2% Cpy. in chlor. volcanics.	AU: CU:
1154	896.5 - 900.0	3.5'	Py. & minor Cpy. in chlor. volcanics.	AU: CU:

INTERIM SAMPLE SHEET

P139

August 4, 1956

SAMPLE NO.	FOOTAGE	WIDTH	AU	CU
1107	386.0 - 394.0	8.0'	0.01	0.600
1108	394.0 - 398.0	4.0'	0.02	4.700
1109	398.0 - 401.0	3.0'	0.02	1.650
1110	401.0 - 405.0	4.0'	0.01	1.500
1111	405.0 - 408.0	5.0'	0.010	1.500
1112	408.0 - 412.5	4.5'	0.020	1.850
1113	412.5 - 415.5	3.0'	0.030	25.000
1114	415.5 - 418.0	2.5'	0.020	2.750
1115	418.0 - 423.0	5.0'	0.010	0.750
1116	423.0 - 428.0	5.0'	0.010	0.600
1117	464.0 - 469.0	5.0'	0.010	0.200
1118	469.0 - 473.5	4.5'	0.010	0.600
1119	473.5 - 475.0	1.5'	0.020	0.900
1120	475.0 - 477.5	2.5'	0.020	2.000
1121	477.5 - 480.5	3.0'	0.060	4.500
1122	480.5 - 482.5	2.0'	0.070	2.500
1123	482.5 - 485.5	3.0'	0.020	4.000
1124	485.5 - 488.0	2.5'	Tr	0.500
1125	488.0 - 492.0	4.0'	Tr	0.650
1126	492.0 - 495.0	3.0'	0.02	3.000

Averages

386.0 - 428.0 42.0' 3.23% Cu

394.0 - 418.0 24.0' 5.19% "

464.0 - 495.0 31.0' 1.72% Cu

473.5 - 495.0 21.5' 2.45% Cu

PONTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

SAMPLE SHEET

F141

SAMPLE NUMBER	FOOTAGE	WIDTH	DESCRIPTION	ASSAY
1155	421.0 - 424.0	3.0'	Py. & Cpy. with carb. in chlor. volcanics.	AU: CU:
1156	424.0 - 428.0	4.0'	As above.	AU: CU:
1157	428.0 - 433.0	5.0'	Minor Py. in chlor. volcanics.	AU: CU:
1158	433.0 - 438.0	5.0'	As above.	AU: CU:
1159	680.0 - 684.0	4.0'	Py. in granite dyke.	AU: CU:
1160	684.0 - 689.0	5.0'	As above.	AU: CU:
1161	689.0 - 694.0	5.0'	Fine Cpy. in chlor. volcanics.	AU: CU:
1162	694.0 - 697.5	3.5'	As above.	AU: CU:
1163	697.5 - 700.5	3.0'	6% Cpy. in chlor. volcanics.	AU: CU:
1164	700.5 - 703.5	3.0'	Minor Cpy. in chlor. volcanics.	AU: CU:
1165	703.5 - 706.5	3.0'	4% Cpy. in chlor. volcanics.	AU: CU:
1166	706.5 - 711.5	5.0'	Chlor. volcanics, apparently barren.	AU: CU:

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

SAMPLE SHEET

P143

SAMPLE NUMBER	FOOTAGE	WIDTH	DESCRIPTION	ASSAY
1170	480.0 - 485.0	5.0'	10% Py in chloritized volcanics.	AU: Tr CU: 0.10
1171	485.0 - 490.0	5.0'	Ditto	AU: 0.02 CU: 0.10
1172	490.0 - 495.0	5.0'	Ditto	AU: 0.01 CU: 0.10
1173	495.0 - 500.0	5.0'	Ditto	AU: 0.01 CU: 0.15
1174	500.0 - 505.0	5.0'	Ditto	AU: TR CU: 0.35
1175	593.5 - 598.5	5.0'	Fine pyrite in granitic dyke	AU: Tr CU: 0.05
1176	669.5 - 675.5	6.0	Massive pyrite in altered granite	AU: 0.02 CU: 2.65
1177	Sample combined with 1176			
1178	675.5 - 679.0	3.5'	Massive pyrite & some chalco-pyrite in altered granite	AU: 0.05 CU: 5.20
1179	679.0 - 682.0	3.0'	5% Cpy in chloritized volcanics	AU: Tr CU: 0.70
1180	682.0 - 685.0	3.0'	Minor Py and Cpy in chloritized volcanics	AU: Tr CU: 0.40
1181	685.0 - 690.0	5.0'	Ditto	AU: Tr CU: 0.35
1182	690.0 - 695.0	5.0'	Ditto	AU: Tr CU: 0.25
1198	907.0 - 911.0	4.0'	Massive Py and some Cpy in altered granite. Recovery 75%	AU: CU:
AVERAGE	Sample combined with 1176			
	669.5 - 682.0	12.5'	0.025 OZ AU; 2.86% CU.	
	675.5 - 679.0	3.5'	Massive pyrite & some chalco-pyrite in altered granite	AU: 0.05 CU: 5.20
	682.0 - 685.0	3.0'	5% Cpy in chloritized volcanics	AU: Tr CU: 0.70
	685.0 - 695.0	10.0'	Minor Py and Cpy in chloritized volcanics	AU: Tr CU: 0.30
	Sample combined with 1198			

POINTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

SAMPLE SHEET

P145

SAMPLE NUMBER	FOOTAGE	WIDTH	DESCRIPTION	ASSAY
1183	289.0 - 293.0	3.0'	Massive Py in chloritized volcanics	AU: CU:

1184	308.5 - 313.5	5.0'	Py with carbonate in chloritized volcanics	AU: 0.03 CU: 0.45
1185	313.5 - 318.5	5.0'	Ditto	AU: 0.01 CU: 0.05

1186	334.0 - 339.0	5.0'	Minor Cpy in granite dyke	AU: 0.01 CU: 0.20
1187	339.0 - 344.0	5.0'	Ditto	Au: 0.01 Cu: 0.30

1189	378.0 - 380.0	2.0'	Minor Cpy in granitic volcanics	AU: CU:
1190	380.0 - 382.5	2.5'	Minor Py in volcanics	AU: CU:
5653	382.5 - 384.5	2.0'	Minor Py in granitic volcanics	AU: CU:
5654	384.5 - 390.0	5.5'	Minor Py in volcanics	AU: CU:
5655	390.0 - 395.0	5.0'	Ditto	AU: CU:
5656	395.0 - 396.0	1.0'	45% Cpy in quartz-carbonate	AU: CU:
5657	396.0 - 398.0	2.0'	Minor Py in volcanics	AU: CU:
5658	398.0 - 399.0	1.0'	Py and 8% Cpy in quartz-carbonate	AU: CU:
5659	399.0 - 404.0	5.0'	Minor Cpy in volcanics volcanics	AU: CU:

	380.0 - 382.5	2.5'	Minor Py in volcanics	AU:
5660	598.0 - 599.5	1.5'	Massive fine Py in tuff	AU: CU:
	382.5 - 384.5	2.0'	Minor Py in granitic volcanics	AU: CU:
5661	627.5 - 629.5	2.0'	5% Cpy with carbonate in	AU:
	384.5 - 390.0	5.5'	volcanics in volcanics	AU: CU:
	390.0 - 395.0	5.0'	Ditto	AU: CU:
	290'0 - 292'0	2'0'	Ditto	AU: CU:
	284'0 - 290'0	6'0'	Minor Py in volcanics	AU: CU:
	289'0 - 294'0	5'0'	Minor Py in granitic volcanics	AU: CU:

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

D. D. H. #146

FOOTAGE	DESCRIPTION
1,000	From 804 to 905' is a pink quartz-carbonate vein containing minor fine pyrite and chalcopyrite. Core becoming slightly broken up after 831 feet.

END OF HOLE

ASSAY RESULTS

NUMBER	FOOTAGE	WIDTH	DESCRIPTION	ASSAY
5662	810.0 - 814.0'	4.0'	15% pyrite with minor carbonate and some magnetite in andesite.	AU: CU:

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

D. D. H. #149

SAMPLE SHEET

NUMBER	FOOTAGE	WIDTH	DESCRIPTION	ASSAY
5663	367.0 - 370.0	3.0'	Minor Cpy in talcose, altered anorthosite.	AU: CU:
5664	370.0 - 373.0	3.0'	Fine Py in granite	AU: CU:
5665	373.0 - 378.0	5.0'	Pyrite and minor Cpy in granite	AU: CU:
5666	378.0 - 379.3	1.3'	15% Cpy in altered granite	AU: CU:
5667	379.3 - 384.0	4.7'	Fine Py in granite	AU: CU:
5668	384.0 - 389.0	5.0'	PYrite and minor blebs of Cpy in granite	AU: CU:
5669	389.0 - 394.0	5.0'	Minor Py and Cpy in granite	AU: CU:
5670	394.0 - 398.5	4.5'	Minor Py in volcanics	AU: CU:
5671	398.5 - 402.0	4.5'	Minor Py in volcanics and granite	AU: CU:
5672	402.0 - 407.0	5.0'	Minor Py and Cpy in altered granite	AU: CU:
5673	407.0 - 411.5	4.5'	As above	AU: CU:
5674	411.5 - 416.0	4.5'	As above	AU: CU:
5675	416.0 - 420.5	4.5'	15% Cpy in brick red alteration of volcanics	AU: CU:
5676	420.5 - 425.0	4.5'	5% Cpy in altered volcanics	AU: CU:
5677	425.0 - 430.0	5.0'	3% Cpy in altered volcanics	AU: CU:
5678	430.0 - 434.5	4.5'	Minor Cpy and Py in volcanics	AU: CU:
5679	434.5 - 439.5	5.0'	As above	AU: CU:

PONTAGE ISLAND (CHIBOUGAMAU) MINES LIMITED

D. D. H. P149

SAMPLE SHEET

NUMBER	FOOTAGE	WIDTH	DESCRIPTION	ASSAY
5680	600.0 - 604.0'	4.0'	Minor Cpy in tuffaceous volcanics	AU: CU:
5681	604.0 - 608.0'	4.0'	Ditto	AU: CU:
5682	608.0 - 612.0'	4.0'	Ditto	AU: CU:
5683	700.0 - 705.0'	5.0'	Minor Cpy in quartz-carbonate veinlets	AU: CU:
5684	706.0 - 709.3'	4.3'	Ditto	AU: CU:
5685	709.3 - 710.8'	1.5'	15% Cpy in quartz-carbonate	AU: CU:
5686	710.8 - 715.0'	4.2'	Minor Cpy associated with quartz-carbonate stringers in volcanics	AU: CU:

PORTAGE ISLAND (CHIB) MINES LTD:

SAMPLE SHEET

D. D. H. P150

NUMBER	FOOTAGE		WIDTH	DESCRIPTION	ASSAY
5688	689.5	694.5	5.0'	Minor Py and negligible Cpy in chloritized volcanics	AU: CU:
5689	694.5	698.0	3.5'	Minor Py and Cpy with magnetite in chloritized volcanics	AU: CU:
5690	698.0	700.0	2.0'	Massive Py and some Cpy in altered granite	AU: CU:
5691	700.0	702.7	2.7'	As above	AU: CU:
5692	702.7	705.0	2.3'	5% Py and 2% Cpy in chloritized volcanics	AU: CU:
5693	705.0	708.0	3.0'	Minor Py but negligible Cpy in chloritized volcanics	AU: CU:
5694	708.0	712.5	4.5'	As above	AU: CU:
5695	712.5	717.0	4.5'	As above	AU: CU:

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

D. D. H. P152

SAMPLE SHEET

NUMBER	FOOTAGE	WIDTH	DESCRIPTION	AU	CU
5697	492.5 - 496.5'	4.0'	Minor Py and Cpy in volcanics		
5698	496.5 - 498.0'	1.5'	Two large blebs of Cpy in quartz stringers.		
5699	498.0 - 500.0'	2.0'	Minor Py and Cpy in volcanics		
5700			----------		
5700	508.0 - 511.0'	3.0'	Minor Py and Cpy in volcanics		
5701	511.0 - 514.3'	3.3'	6% Cpy in 25% quartz-carbonate		
5702	514.3 - 518.0'	3.7'	Minor Py and Cpy with carbonate veins in volcanics		
5703	518.0 - 523.0'	5.0'	As above		

5704	774.0 - 779.0'	5.0'	Minor Py and Cpy in volcanics		
5705	779.0 - 781.5'	2.5'	As above		
5706	781.5 - 784.0'	2.5'	90% Pya and minor Cpy in altered granite		
5707	784.0 - 787.0'	3.0'	15% Py and minor Cpy in volcanics		
5708	787.0 - 789.0'	2.0'	20% Py and 4% Cpy in altered granite		
5709	789.0 - 793.0'	4.0'	Minor Py and 5% Cpy in volcanics		
5710	793.0 - 798.0'	5.0'	Minor Py and Cpy in volcanics		
5711	798.0 - 802.5'	4.5'	As above		

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

D. D. H. #155

SAMPLE SHEET

NUMBER	FOOTAGE	WIDTH	DESCRIPTION	AU	CU
5728	746.0 - 751.0'	5.0'	15% Py in volcanics. Occasional flecks of chalcopyrite.		
5729	751.0 - 755.5'	4.5'	As above		
5730	755.5 - 760.0'	4.5'	As above		
5731	760.0 - 764.5'	4.5'	As above		
5732	764.5 - 769.5'	5.0'	As above		

5733	845.0 - 850.0'	5.0'	10% Py in volcanics		
5734	850.0 - 854.5'	4.5'	As above		
5735	854.5 - 857.5'	3.0'	As above		

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

D. D. H. P156

SAMPLE SHEET

NUMBER	FOOTAGE	WIDTH	DESCRIPTION	AU	CU
5720	191.0 - 195.5'	4.5'	Volcanics		
5721	195.5 - 197.5'	2.0'	15% Cpy in brecciated carbonate veins in volcanics		
5722	197.5 - 200.5'	3.0'	Negligible sulfides in volcanics		

5723	213.0 - 217.0'	4.0'	Minor Py in volcanics		
5724	217.0 - 219.5'	2.5'	Minor Py and Cpy in volcanics		
5725	219.5 - 220.5'	1.0'	Py and 3% Cpy in carbonate		
5726	220.5 - 225.0'	4.5'	Minor sulfides in volcanics		

5712	169.5 - 172.5'	3.0'	Minor Py in volcanics		
5713	172.5 - 175.0'	2.5'	5% Cpy with carbonate in volcanics		
5714	175.0 - 177.0'	2.0'	Minor Py in volcanics		
5715	177.0 - 180.0'	3.0'	Minor Py and Cpy in volcanics		

PORTAGE ISLAND (CHIBOUGAMAU) MINES LIMITED

SAMPLE SHEET

P158

NUMBER	FOOTAGE	WIDTH	DESCRIPTION	AU	CU
5736	579.0 - 584.0'	5.0'	Occasional Py in volcanics		
5737	584.0 - 586.0'	2.0'	Volc-gran. Complex, 5% Sulf. Minor Cpy & moderate Magnetite		
5738	586.0 - 590.0'	4.0'	25% Sulfides in altered granite Average of 4% Cpy.		
5739	590.0 - 593.0'	3.0'	As above, 15% Sulfides.		
5740	593.0 - 596.0'	3.0'	As above, 20% sulfides.		
5741	596.0 - 599.0'	3.0'	As above, 15% sulfides.		
5742	599.0 - 602.0'	3.0'	Occasional Py in volcanics.		

5743	646.0 - 650.0'	4.0'	Minor Py and Cpy in volcanics.		
5744	650.0 - 653.0'	3.0'	Py & Cpy in altered granite.		
5745	653.0 - 655.0'	2.0'	Negligible sulfides in volcanics		
5746	655.0 - 657.5'	2.5'	15% Py & 5% Cpy in altered granite.		
5747	657.5 - 659.0'	1.5'	Py & some Cpy in volcanics.		
5748	659.0 - 664.0'	5.0'	Minor Py & Cpy in volcanics with some granitic inclusions.		

5749	810.0 - 815.0'	5.0'	Minor Py in volcanics		
5750	815.0 - 818.0'	3.0'	Py & 2% Cpy in volcanics.		
5751	818.0 - 820.5'	2.5'	5% Cpy & massive Py in altered granite.		
5752	820.5 - 824.0'	3.5'	Py & minor Cpy in volcanics.		
5753	824.0 - 827.5'	3.5'	Minor Py & Cpy in volcanics.		
5754	827.5 - 832.0	4.5'	As above.		
5755	832.0 - 837.0'	5.0'	As above.		
5756	837.0 - 838.5'	1.5'	Small carb. veins with Cpy.		
5757	838.5 - 841.0'	2.5'	Volcanics, minor Py.		

ASSAY RESULTS

Sample No.	Footage	Width	Description	Cu.	Au.
9344	301.3 - 305.0	3.7'	Mineralised Volcanics		
9345	305.0 - 307.2	2.2'	"	"	
9346	307.2 - 309.2	2.0'	"	"	

9347	556.0 - 563.3	7.3'	Mineralised Volcanics	
9348	563.3 - 565.4	2.1'	"	"
9349	565.4 - 568.9	3.5'	"	"
9350	568.9 - 573.3	4.4'	"	"
9351	573.3 - 580.0	6.7'	"	"
9352	580.0 - 585.0	5.0'	"	"
	From 585.0 - 585.6 - Missing Core.			
9353	585.6 - 591.9	6.3'	"	"
9354	591.9 - 595.8	3.9'	"	"
9355	595.8 - 602.7	6.9'	"	"
9356	602.7 - 606.6	3.9	"	"
9357	606.6 - 622.7	16.1'	"	"
9358	622.7 - 635.0	12.3'	"	"
9359	635.0 - 641.0	6.0'	"	"
9360	641.0 - 651.5	10.5'	"	"

ASSAY RESULTS

P 172

Sample No.	Footage	Width	Description	Cu.	Au.
9361	559.0 - 561.0	2.0'	Mineralized Volcanics		
9362	561.0 - 562.7	1.7'	"		
9363	562.7 - 570.5	7.2'	"		
9364	570.5 - 572.0	1.5'	"		

ROY TWP.

PORTAGE ISLAND (CHIBOUGAMAU) MINES.L.

D.D.H.# P-124,
P-130,
P-132,
P-133,
P-136,
P-139,
P-141,
P-143,
P-145,
P-146,
P-147,
P-149,
P-150,
P-152,
P-153,
P-155,
P-156,
P-158,
P-160,
P-161,
P-165,
P-172,
P-174,

1957.

DIAMOND DRILL LOG

PORTAGE ISLAND (CHIBOUGAMAU) MINES LIMITED

HOLE No.	P124	LOCATION	Line 1250 W, 3410 N.	DATE STARTED	May 5, 1956
DIP	45°	LAT.	9,384.92 DEP. 3410 N.	DATE FIN.	MAY 19, 1956
BEARING	49° N.	ELEVATION	12.2 Ft.	LOGGED BY	J.G. Thompson
DEPTH	838'	DIP TESTS	41° at 250'; 39° at 500'; 36° at 790'		

Footage		Description
0	16.0	CASING
16.0		ALTERATION ZONE - ANORTHOSITE
		Light green colour. Blocky. Fairly hard. Fine grained sheared appearance. Slightly talcose. Low chlorite. Medium to high carbonate. Abundant relic type feldspar laths with distorted appearance.
	20.0	Some brown lucoxene. Foliation appears to be about 60 - 70° CA.
20.0		ALTERATION ZONE - ROCK TYPE INDEFINITE, PROBABLY ANORTHOSITIC OR GABROIC
		Darker greyish green colour than above. More massive. Fine grained Hard. Low chlorite. Low to medium carbonate. Slightly porphyritic in texture with slight alignement at 60 - 70° CA. Upper contact distinct, but lower contact more gradational. Core tends to fracture
	31.0	at 50° CA.
31.0		ALTERATION SHEAR ZONE - PROBABLY OF ANORTHOSITIC ORIGIN
		Dark blue grey to grey green. Massive. Reasonably soft. Dense fine grained appearance. Low to medium chlorite. Medium to high carbonate. Abundant light coloured lucoxene, giving speckled appearance. Some pyrite inc arbonate at 53 ft. Medium shear good foliation at 50° CA.
	66.0	Generally more anorthositic in appearance. Grey green to grey colour. Reasonably soft. Low chlorite. Low carbonate. Generally slightly talcose throughout. Distorted ghost type feldspar laths in most places. Variable luccxene. Medium shear, good schistosity at 50° CA. throughout. Degree of alteration varies greatly, in some places the anorthositic origin of the rock is readily discernable, but in other places the rock is homogenious in appearance and the anortho-
	491.0	sitic appearance is absent. Much of the core is badly broken up.
491.0		ROCK TYPE INDEFINITE (Altered Pyroclastic)
		Light grey to brown colour. Massive. Fine grained. Reasonably soft. Occasional quartz and other unidentified phenochrysts. Definite bedding or foliation at 70° CA. Low chlorite. Medium carbonate, but in the form of minuite fracture fillings. Both contacts have been ground, but appear to have been sharp at 70° CA. Completely barren. Section 492 - 493 feet contains 25% light grey quartz replacement and has definite bands of light brown material
	502.0	giving tuffaceous appearance.
502.0		DIORO-ANDESITE
		Medium grey colour, slightly speckled appearance. Fine grained. Massive. Medium hard. Low to medium chlorite. Medium carbonate Some white carbonate fracture fillings many containing pyrite and some with chalcopyrite. Fairly definite banding or foliation at 45 - 55° CA. Note: 513.0 - 514.5 is similar to above section.

Footage		Description
	530.0	As above, but slightly brecciated. Increasing chlorite. Low carbonate. Darker colour. Note: 545 - 560 . Mineralized Zone CONTAINING 5% pyrite but very little carbonate.
	560.0	As above but less brecciated. Slight foliation at 50° CA. White and some pink carbonate inclusions, some containing pyrite. Mineralized Zone 577.5 - 582.0' 3% chalcopyrite, minor pyrite associated with carbonate inclusions 5%.
	686.0	As above. Medium chlorite. Low to medium carbonate. Medium shear, good foliation 40° CA. Numerous white carbonate veinlets and fracture fillings, some of which have been partly leached out, leaving cavities. Barren.
	740.0	As above. Fewer carbonate veinlets. Small irregular granite inclu-
	777.0	sions after 766.0 ft.
777.0		GRANITE - GRANDINES TYPE
		Generally salmon pink colour. Medium grained. Hard. Low shear, 40 - 50° CA. Note: 779 - 782 and 793 - 797' Rock type indefinite possibly a sheared phase of the granite. Grey green colour. Hard. Low chlorite. Low carbonate. Numerous quartz phenochrysts. Very finely disseminated pyrite throughout. Medium shear, foliation 40 - 50° CA. Section is similar to some of the more altered section
	821.0	in the bottom of P 97.
821.0		DIORO-ANDESITE
		Dark green colour. Massive. Fine grained. Hard. Low chlorite. Low carbonate. Low shear, foliation 50° CA. Some white carbonate
	838.0	inclusions containing pyrite.
		END OF HOLE

ASSAY RESULTS

NUMBER	FOOTAGE	WIDTH	DESCRIPTION	ASSAY
1092	545.0 - 546.0	1.0	5% pyrite in dioro-andesite	Cu. 0.650
1081	546.0 - 551.0	5.0	As above	Au. 0.010 Cu. 0.350
1082	551.0 - 556.0	5.0	As above	Au. 0.010
		1.250		Cu. 0.100
1093	556.0 - 560.0	4.0	As above	Cu. 0.660
1088	576.3 - 577.5	1.2	3% chalcopyrite and minor pyrite with some carbonate in dioro-andesite	CU. 0.550
1083	577.5 - 580.5	3.0	Same as above	Au. 0.030
				Cu. 3.650
1084	580.5 - 582.0	1.5	As above but 2% chalcopyrite	Au. 0.010
				Cu. 1.100
1089	582.0 - 585.0	3.0	As above	Cu. 0.250

Au. 1083 & 1084 4.5' at 0.023 Au. & 2.80% Cu.

Au. 1088, 1083, 1084, 1089 - 8.7' at 1.61 Cu .

DIAMOND-DRILL LOG

PORTAGE ISLAND (CHIBOUGAMAU) MINES LIMITED

HOLE NO.	P130	LOCATION	930 W - 3900 N	DATE STARTED	June 30, 1956
DIP	40 Deg	LAT. ____	DEP. ____	DATE FINISHED	July 4, 1956
BEARING	180 Deg	ELEVATION	2.0 feet	LOGGED BY	J. G. THOMPSON
DEPTH	351	DIP TESTS	38 Deg. @ 350'		

FOOTAGE		DESCRIPTION
0.0 -	6.0	CASING
6.0		CHLORITIZED ANDESITE Dark green colour. Core somewhat broken up. Fairly soft. Medium alteration, and some indications of brecciation in places. Low to medium chlorite. Low carbonate. Medium shear, good foliation, at 30 Deg. CA. Some weak pyrite and
	16.6	chalcopyrite mineralization 6.0 - 10.0'.
16.6		MINERALIZED QUARTZ VEIN Pinkish coloured quartz, containing some carbonate 10% Chalcopyrite mineralization with some associated pyrite. Good
	19.6	foliation at 35 Deg. CA at 17'
19.6		CHLORITIZED ANDESITE Same as section 6.0 - 16.6. Slightly vesicular in places due to leaching out of carbonate. Numerous vesicular carbonate veinlets and inclusions, some containing pyrite and chalco-
	78.5	pyrite. Medium shear, good foliation at 40 Deg. CA.
78.5		MINERALIZED QUARTZ RICH ZONE Same as section 16.6 - 19.6 only quartz structure is not as
	82.0	strong, amounting to only 50%.
82.0		CHLORITIZED ANDESITE As above. Minor pyrite and chalcopyrite adjacent to above quartz rich zone. Vesicules disappearing after 145' and core becoming more massive. Some disseminated pyrite throughout.
	178.0	Medium shear, poor foliation 30 - 40 Deg. CA.
178.0		ALTERED PYROCLASTIC Same as section 491.0 - 502.0 in P124. Light grey to brown colour. Massive. Reasonably soft. Occasional quartz and other unidentified phenochryats. Generally well banded at 45 Deg. CA. Low chlorite. Generally high carbonate. Upper
	198.0	contact indistinct, lower contact at about 45 Deg. CA.
198.0		ALTERATION SHEAR ZONE - ANORTHOSITIC ORIGIN Similar to section 31.0 - 491.0' in P124. Dark blue grey colour. Massive but with some broken up sections. Dense fine grained anorthositic appearance. Soft and in places talcose. Low chlorite. Low carbonate. Distorted ghost type feldspar laths in most places. Some lucoxene. Medium shear, poor foliation 45 Deg. CA at 226'. Note 200 - 201.5', 202.0 - 203.5', 205.0 - 206.0' Light grey rock. Hard. Contacts often quite sharp. High carbonate.
	272.0	Possibly dykes.
272.0		GREY DYKE Light grey colour. Massive. Hard. Fine grained. Low chlor-
	275.0	ite. High carbonate. Well sheared, good foliation 45 Deg CA.
275.0		ALTERATION SHEAR ZONE - ANORTHOSITIC ORIGIN Same as section preceding dyke. Variable alteration - medium to high. Medium shear, poor foliation 25 - 30 Deg CA. Note: 335.0 - 338.5; 345.5 - 349.0 Fine grained, massive dark grey rock. Possibly fine grained gabbro dykes. Lower
	351.0	contacts sharp at 30 Deg. CA.

END OF HOLE

JGT:wet

POSTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

ASSAY RESULTS

P130

NUMBER	FOOTAGE	WIDTH	DESCRIPTION	ASSAY
1095	6.0 - 10.0	4.0'	Minor Py. & Cpy. in brecciated volcanics.	AU: 0.020 CU: 1.250
	10.0 - 13.6	3.6'	Not mineralized	
1096	13.6 - 16.6	3.0'	Same as 1095	AU 0.010 CU 0.350
1097	16.6 - 19.6	3.0'	Heavy Cpy mineralization & some Py in quartz vein	AU 0.030 CU 6.900
1098	19.6 - 22.0	2.4'	Same as 1095	AU 0.010 CU 0.400

AVERAGES:

6.0' - 22.0' - 1.730% CU over 16.0'
13.6' - 22.0' - 2.700% CU over 8.4'

1099	78.0 - 78.5	2.5'	Minor Py & Cpy in chloritized, brecciated volcanics.	AU 0.010 CU 1.050
1100	78.5 - 82.0	3.5'	Py & 10% Cpy with 50% quartz in chloritized volcanics.	AU 0.010 CU 4.750
1101	82.0 - 86.0	4.0'	Weak Py & Cpy in chloritized volcanics. Some core missing.	AU 0.030 CU 0.850
1102	86.0 - 90.0	4.0'	Weak Py & Cpy in chloritized volcanics.	AU 0.010 CU 0.200
1103	90.0 - 98.0	3.0'	10% Py in chloritized volcanics.	AU 0.010 CU 0.350

AVERAGES:

76.0' - 86.0' - 2.265% CU over 10.0'
76.0' - 90.0' - 1.670% Cu over 14.0'

JGT:wet

DIAMOND DRILL LOG

HOLE NO. P 130 cont'd LOCATION 930 W - 3900 N DATE STARTED Nov. 26/56

DIP 40° LAT. 10,002.56 DEP. 10,018.83 DATE FINISH. Nov. 30/56

BEARING 180° ELEVATION 2.0 Feet LOGGED BY J. A. Pearce

DEPTH 543 DIP TESTS 38° - 350', 35° - 30' - 543'

FOOTAGE		DESCRIPTION
351.0		ALTERATION SHEAR ZONE - ANORTHOSITIC ORIGIN
		Dark blue grey colour. Fine grained anorthositic appearance. Medium hard to soft. Low chlorite and low carbonate. Medium shear, poor foliation approximately 30°. Lucoxene present
	360.0	in variable quantities.
360.0		VOLCANICS
		Medium green in colour, fairly soft. Medium chlorite, medium carbonate. There are a considerable number of carbonate filled fractures. Mineralization consists of fine disseminated pyrite, no appreciable amount. No definite shear or foliation.
	385.0	Upper contact ground, lower contact grades into granite.
385.0		MINERALIZED ZONE (ALTERED GRANITE WITH VOL. SECTIONS)
		Granite is altered and grades in and out of volcanic sections. Major chalcopyrite mineralized areas are related to the granite. Volcanics carry a moderate amount of pyrite dissemination with minor chalcopyrite. One short section from 404.6 to 406.3 show massive chalcopyrite estimated at approximately 60%. There are also some narrow zone well mineralized with chalcopyrite widely scattered throughout whole section. The major part of the mineralized zone is between 395.0 - 414.0. However, the balance of the section shows enough disseminated chalcopyrite and
	433.0	pyrite to warrant including it as part of the zone.
433.0		VOLCANICS
		Medium green in colour; slightly altered over whole section. Medium chlorite, low to medium carbonate. A moderate amount of carbonate filled fractures are present. A small amount of pyrite and chalcopyrite dissemination is visible. Fracturing
	466.0	is at 50° - 55° to CA.
466.0		TALCOUS ALTERATION ZONE (ANORTHOSITE)
		Dark blue grey in colour. Medium shear, foliation where visible 35° - 40°. Negligible carbonate, chlorite, low at start of section grading to medium. Hardness varies from medium hard to soft. A moderate amount of lucoxene is present. Feldspar laths are relic type, rather small in size where visible. Ground becomes badly broken up after 495.0 and
	543.0	talc content rises. Core recovery is about 90% - 95%.
		END OF HOLE.

Se #1

DIAMOND DRILL LOG

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

HOLE NO.	P132	LOCATION	930 W, 3900 N	DATE STARTED	July 4, 1956
DIP	35 Deg.	LAT. ____	DEP. ____	DATE FINISHED	July 6, 1956
BEARING	90 Deg.	ELEVATION	2.0 Feet	LOGGED BY	J. G. Thomson
DEPTH	318 Ft.	DIP TESTS	32 Deg. at 300'		

FOOTAGE		DESCRIPTION
0.0 -	2.0	CASING
2.0		CHLORITIZED VOLCANICS - ANDESITE Dark green colour. Massive. Reasonably hard. Very fine grained. Medium to high chlorite, usually in form of stringer - like replacement, but massive for first 10'. Low carbonate, slightly mottled, almost brecciated appearance in places. First 20' contains fair number of white carbonate veinlets, which are barren. Fair amount of pyrite, in places fairly massive, scattered throughout the core. Foliation and some fracturing 30 - 40 Deg. CA.
	87.0	As above. Chlorite sometimes in form of small irregular blobs. Slightly lighter in colour. White carbonate veinlets reappearing and some containing pyrite and occasionally minor chalcopyrite. Fracturing at 40 Deg. CA at 140'.
	147.0	As above, but only occasional Pyrite. Some of the carbonate stringers trend at 40 Deg. CA. Small granitic inclusions at 183'. Core becoming more broken up, although still quite massive in places.
	209.0	Core badly broken up in places, and becoming slightly vesicular due to leaching out of carbonate. Negligible mineralization. Core badly ground between 239.0 and 247.0', only 20% recovery, possible fault. Granite
	233.0	intrusive 231.0 to 233.0'.
233.0		GRANITE - GRANDINES TYPE Fairly massive. Characteristic reddish to grey-white colour. Contains a few inclusions of above volcanic rock. Granite is slightly vesicular in places. Medium shear, good foliation 35 - 40 Deg. CA.
	275.0	As above. No volcanic inclusions. No shear. Still vesicular in places. Barren.
	295.0	Grey colour becoming predominent. Generally massive but core ground up in places. Evidence of shear at 307.0 but no definite foliation. Only occasional
	318.0	vesicules. Barren.

END OF HOLE

JGT:wet

DIAMOND DRILL LOG

POINTAGE ISLAND (CHIBOUGAMAU) MINES LIMITED

HOLE NO.	P133	LOCATION	3900 N - 1075 W	DATE STARTED	July 8, 1956
DIP	40 Deg.	LAT. ____	DEP. ____	DATE FINISHED	July 15, 1956
BEARING	180 Deg.	ELEVATION	6.0'	LOGGED BY	J. G. Thompson
DEPTH	594'	DIP TESTS	35 Deg. @ 300'; 31 Deg. @ 590'.		

FOOTAGE	DESCRIPTION
0.0 - 10.0	CASING
10.0	CHLORITIZED VOLCANICS - ANDESITE
	Medium green colour. Soft. Fairly massive. Variable chlorite, fairly low to medium. Sometimes chloritization is uniform, but often it is in form of stringers. Low carbonate. Medium shear, good foliation: 60 degrees at 23.0'; 50 degrees at 33.0'. Pyrite and occasional chalcopyrite throughout, usually following trend of foliation. 3" stringer of massive chalcopyrite at 40.0'. Much fine magnetite scattered through parts of the core. Fairly numerous white carbonate veinlets, most of which are barren.
58.0	As above. Core becoming vesicular due to partial leaching of carbonate. Scattered pyrite as before, but no magnetite or chalcopyrite. Foliation 40 degrees at 75.0'. Core blocky in places. Recovery 80%.
105.0 - 128.0	Same as section 10.0 - 58.0'. Negligible mineralization. Chloritization medium and fairly uniform. Core blocky in places, recovery 80%.
128.0	ALTERED PYROCLASTICS - TUFFS
	Core highly fractured and badly ground. Recovery 40%.
141.0	Bedding at 50 degrees C.A. High carbonate.
141.0	ALTERATION SHEAR ZONE - ANORTHOSITIC ORIGIN
	Dark blue grey colour. Fine grained sheared appearance. Fairly massive, good recovery. Low chlorite and carbonate. Scattered white, relic type feldspar laths. Medium shear but poor foliation 20 - 40 degrees C.A. Some very finely disseminated pyrite. Lucoxene appearing towards end of section.
205.0	As above. Slightly lighter in colour. Blotchy appearance caused by ghost type feldspar laths. Feldspar and lucoxene sometimes show foliation due to shearing. Medium shear variable foliation 30 - 40 degrees C.A. Barren. Core becomes blocky after 250'.
255.0	As above, but darker, more uniform colour. Core blocky up to 282.0'. Recovery 65%. Ghost type feldspar laths only faintly discernable. Medium shear, fair foliation and fracturing 35 degrees C.A. 264.0', and 30 degrees at 287.0 and 295.0'.
303.0	Different type of alteration than above, and slightly harder. Almost quartzose in appearance. Massive. Light grey colour, with brown streaking. Abundant brown lucoxene. Fairly distinct contacts.

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

D. D. H.#133

FOOTAGE	DESCRIPTION
317.0	Same as section preceding 303.0'. Core very blocky and badly broken up in places. Recovery. Light brown lucoxene throughout. Medium shear, poor foliation 35 - 50 degrees C.A. Barren. Faint traces of anorthositic texture in places.
385.0	Slightly lighter in colour. Anorthositic texture evident in more places. Medium shear, poor foliation, general trend of fracturing is 30 - 40 degrees C.A. Barren. Core badly fractured. Recovery 85%.
474.0	Lighter grey colour. Somewhat more massive, recovery 95%. Ghost type feldspar laths appearing and becoming quite prominent after 515.0'. Fair amount of brown lucoxene, but no mineralization. Medium shear,
524.0	but poor foliation at 30 - 40 degrees C.A.

END OF HOLE

NO SAMPLES

JGT:wet

DIAMOND DRILL LOG

PORTAGE ISLAND (CHIBOUGAMAU) MINES LIMITED

HOLE NO.	P136	LOCATION	5960 N - 1200 W	DATE STARTED	July 22, 1956
DIP	-35 Deg	LAT.	DEP.	DATE FINISHED	July 27, 1956
BEARING	130 Deg	ELEVATION	14.0'	LOGGED BY	J. G. Thompson
DEPTH	591'	DIP TESTS	35 Deg. @ 300'; 36 Deg. @ 590'.		

FOOTAGE		DESCRIPTION
0.0 -	6.0	CASING
6.0		ANDESITE
		Dark uniform green colour. Massive. Moderately hard. Low chlorite. Low carbonate. Low shear, foliation at 40 degrees C.A., where apparent. Some of the white carbonate veinlets containing pyrite also have this trend. Larger carbonate veins up to 0.5' at 26.0' and 64.0', contain pyrite and some
	88.0	chalcopyrite.
88.0		ANDESITE - TUFF COMPLEX
		As above with some tuffaceous beds, which increase in size and number towards middle of section. Tuffs are fairly well banded
	102.0	at 35 - 45 degrees. Lower contact indefinite.
102.0		TALCOSE ALTERATION ZONE - ANORTHOSITE
		Dark blue grey colour. Still fairly massive, although some of the core is broken up. Medium but no definite foliation, but fracturing trends at 35 - 45 degrees C.A. Low chlorite. Low carbonate. No visible feldspar laths. Occasional pyrite. Recovery 80 - 85%. Some brown lucoxene appearing after 130',
	192.0	As above. Contains some lighter coloured sections which exhibit relic and ghost type feldspar laths.
	228.0	As above. Lucoxene and ghost type feldspar laths show alignement due to shearing at 35 degrees C.A.
	265.0	Rock becoming more talcose and badly broken up. Generally dark blue grey colour. Medium shear 35 degrees C.A. Recovery 70%.
	342.0	Different type of alteration than usual, almost quartzose in appearance. Medium shear, very good foliation 35 degrees C.A. Light grey colour. Fairly abundant brown lucoxene and some pyrite. Fairly distinct contacts. Low chlorite. Low carbonate.
	361.0	Dark grey-black colour. Core generally badly broken up. Mottled effect caused by ghost type feldspar laths distorted by shearing. Quite talcose. Low chlorite. Low carbonate. Some brown coloured lucoxene. Recovery 80%. Medium shear, foliation has been obliterated, but fracturing trends at 40 - 45 degrees C.A. after 500'. Note: Pure white barren quartz veins: 529.0 - 530.0'; 542.0 - 543.5'; 548.0 - 548.7'; 557.0 - 561.0'; 567.0 - 569.0
	583.0	Grey green colour. Massive. Low chlorite. Low carbonate. Occasional lucoxene. Only a few ghost type feldspar laths visable. Medium shear. Good foliation and fracturing
	591.0	throughout, 30 - 40 degrees C.A. Barren.

END OF HOLE

JGT:wet

NO SAMPLES

DIAMOND DRILL LOG

PORTAGE ISLAND (CHIBOUGAMAU) MINES LIMITED

HOLE NO.	P159	LOCATION	930 W - 3300 N	DATE STARTED	July 31, 1956
DIP	45 Deg	LAT.	DEP.	DATE FINISHED	Aug. 10, 1956
BEARING	0 Deg	ELEVATION	25.0 Feet	LOGGED BY	J. G. Thompson
DEPTH	953'	DIP TESTS	47 Deg @ 250'; 45 Deg @ 500'; 44 Deg @ 700'; 43 Deg @ 950'.		

FOOTAGE		DESCRIPTION
0.0 -	12.0	CASING
12.0		ALTERATION ZONE - ROCK TYPE INDEFINITE
	17.0	Blue green colour. Soft. Blocky. Medium chlorite. High carbonate. Minor brown lucoxene. Fairly well sheared, but foliation indefinite, possibly 35 - 50 degrees C.A.
17.0		CHLORITIZED ZONE - ROCK TYPE INDEFINITE
	32.0	Fairly massive to blocky. Soft. Dark green colour. High uniformly distributed chlorite. Variable carbonate, low to medium. Speckled appearance caused by numerous small light brown inclusions, which are similar to lucoxene in appearance, but are very hard and lack the usual lucoxene lattice work. Upper contact distinct at 55 degrees C.A. Lower contact indistinct and gradational. Medium shear, fair foliation and fracturing 45 - 50 degrees C.A. Several white carbonate veins containing considerable pyrite.
32.0		TALCOSE ALTERATION ZONE - ANORTHOSITE
		Dark grey to greenish colour. Core somewhat broken up in places. Soft. Medium black chlorite and several short sections with green chlorite. Low carbonate. Talc content is low, but increasing. Brown coloured lucoxene throughout. Occasional pyrite associated with white carbonate fracture fillings. Medium shear, fracturing 50 degrees at 55.0', and 55 - 60 degrees at 60.0' and 65.0'.
	70.0	As above. Colour a uniform medium grey. Core generally more broken up, and more talcose. Medium shear, highly fractured at 50 degrees C.A. Recovery 80%.
	115.0	As above. Becoming dark, almost black coloured. Core badly broken up. Recovery 70%.
	162.0	As above. Becoming more massive. Faint mottled appearance in many places caused by ghost type feldspar laths. Recovery 90%.
	220.0	As above, only quite massive, although still well fractured. Still very talcose and well sheared. Foliation and fracturing 45 - 50 degrees C.A. at 232.0'. Somewhat lighter in colour.
	270.0	As above. Distinct mottled effect caused by light coloured ghost feldspar laths in a black matrix. Well fractured at about 50 degrees C.A.

PONTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

D. D. H. P139

FOOTAGE	DESCRIPTION
290.0	As above. Reverting to black to grey-green colour. Core highly fractured. Recovery 75 - 80%. Well sheared and very talcose, but no definite foliation. Fracturing 40 - 50 degrees C.A. at 340.0'. Anorthositic texture only occasionally visable.
369.0	
369.0	ALTERED CHLORITIZED VOLCANICS Section starts with a grey coloured, high carbonate material, which gradually assumes a dark green colour, as chlorite increases and carbonate decreases. Fairly massive, but with some short sections of broken up and ground core. Soft. Recovery 90%. Low shear, but foliation poorly developed, possibly 45 - 50 degrees C.A. Section contains a fair amount of pyrite and some chalcopyrite, usually, but not always, associated with carbonate. Much of the mineralization follows trend of foliation, and some of the mineralized stringers are offset from one plane of foliation to another.
386.0	Mineralized Zone, but otherwise as above. Chalcopyrite varying from 1.0 to 12.0%, with minor pyrite. The richer sections are associated with carbonate, but there is a lot of chalcopyrite throughout the rock. Medium chlorite. Low carbonate, except as above. Finely disseminated magnetite throughout much of the core. Some graphite observed at 398.0'. Low shear, foliation generally poor - 35 degrees at 387.0'; 55 degrees at 404.0'; 40 - 45 degrees at 408.0'; 40 degrees at 413.0'; 40 degrees at 418.0'; 50 degrees at 423.0'; 30 degrees at 426.0'. 2' core missing between 386.0 and 394.0' 1' core missing between 394.0 and 398.0' Note 412.5 to 415.5'; 75% chalcopyrite in white to pinkish white carbonate vein. Some very finely disseminated magnetite, but negligible pyrite.
426.0	As above; Altered Chloritized Volcanics. Massive. Dark green colour. Fairly hard. Medium uniform chlorite. Low carbonate. Fairly numerous irregular white carbonate veinlets, some containing minor pyrite and chalcopyrite. Low shear, poor foliation 30 - 35 degrees at 428.0; 50 degrees at 550.0'; 40 degrees at 555.0'.
464.0	Mineralized zone, but otherwise as above. Chalcopyrite ranging from 1.0 to 12.0%, with subordinate pyrite. Occasional very finely disseminated magnetite. Medium shear, poor foliation - 55 degrees at 468.0'; 40 degrees at 477.0'; 35 degrees at 486.0'; 35 degrees at 495.0'; 50 degrees at 500.0'. Note 477.5 to 482.5'; Pinkish-white carbonate vein containing 12.0% chalcopyrite. Several other small pink carbonate rich sections occur throughout the mineralized
495.0	zone.

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

D. D. H. #139

FOOTAGE		DESCRIPTION
496.0		ALTERATION ZONE - ROCK TYPE INDEFINITE (ANORTHOSITE?)
	545.0	Dark blue-grey colour. Massive. Soft. Medium black chlorite. Sporatic carbonate rich sections. Some very fine lucoxene and minor pyrite. Medium shear, foliation oblitterated, but good fracturing 35 degrees C.A. at 496.0'; 40 degrees C.A. at 506.0'; 50 degrees C.A. at 527.0'; 45 - 50 degrees at 537.0'.
545.0		TUFF
	547.0	Well banded. Fairly soft. Low to medium chlorite. High carbonate. Bedding at 40 - 50 degrees C.A. In places the core has a tendency to fracture at right angles to the bedding. Barren except for a few blotches of pyrite.
547.0		ALTERATION ZONE - ROCK TYPE INDEFINITE
	571.0	Massive. Uniform green colour. Medium hard. Medium chlorite. High carbonate. Speckled appearance caused by much tan coloured lucoxene. Only occasional white carbonate fracture fillings. Barren. Low shear, some foliation 50 degrees C.A. at 557.0'. Lucoxene and carbonate fade out gradually towards end of section.
571.0		ALTERED VOLCANICS - (ANDESITE?)
	612.0	Fairly uniform green colour. Medium hard. Medium, uniformly distributed green chlorite. Low carbonate, except in a few short sections. Fairly numerous white carbonate fracture fillings, usually barren, but some containing pyrite. Occasionally pyrite occurs without association with carbonate. Low shear, poor foliation, but some consistant fracturing at 50 - 55 degrees C.A.
612.0		GRANITE DYKE
	619.0	Reddish coloured. Hard. Some finely disseminated pyrite in upper part of dyke. Both contacts ground.
619.0		ALTERED VOLCANICS - (ANDESITE?)
	665.0	As before dyke, but with slight increase in amount of pyrite, and some chalcopyrite appearing. Strong chalcopyrite in a 4 inch quartz vein at 651.0'. Core becoming slightly vesicular towards end of section. Low shear, indications of foliation at 35 degrees C.A. 643.0'. General trend of fracturing and some of the mineralisation is at 40 - 50 degrees C.A.
665.0		GRANITE
	676.0 686.5	Massive. Generally grey coloured. Granite appearance not too pronounced. Very finely disseminated pyrite throughout. Some chalcopyrite associated with carbonate stringers. Low shear, foliation 35 degrees. As above. Becoming redder in colour and more granitic in appearance. Low shear, foliation at 30 - 40 degrees C.A.

PORTAGE ISLAND (GUIBOUGAMAU) MINES LTD.

D. D. H. #139

FOOTAGE	DESCRIPTION
686.5	MINERALIZED ZONE
692.5	90% pyrite apparently associated with quartz. Low carbonate. Negligible chalcopyrite. Foliation at beginning and end of zone, is 35 - 40 degrees C.A. Some carbonate inclusions.
692.5	ALTERED VOLCANICS - (ANDESITE?)
	Dark green colour. Massive. Medium chlorite, often streaked in direction of foliation. Low carbonate, except for occasional white stringers. Low shear, foliation 35 - 40 degrees up to 710.0', and 45 degrees at 734.0'. Moderate pyrite and 1.0% chalcopyrite mineralization up to 703.0'. Some of chalcopyrite is associated with pink carbonate veins, trending with foliation. Mineralization decreases after 703.0', with the chalcopyrite all but disappearing completely.
725.0	As above. Core becoming slightly vesicular. Only occasional pyrite, and very minor chalcopyrite. Low shear, foliation 50 - 60 degrees C.A. at 743.0'.
764.0	As above. Vesicules disappearing. Very few carbonate stringers. Low shear, foliation 45 degrees at 769.0', but fracturing at about 60 degrees towards end of section.
794.0	As above. Carbonate veins up to four inches becoming numerous. Many of these veins contain appreciable amounts of chalcopyrite. Some weaker chalcopyrite mineralization occurs without associated carbonate. Small granitic inclusion at 799.0'.
812.0	As above. Carbonate veins persist, although smaller in size and are not mineralized to any extent. Several small granitic inclusions.
838.5	Becoming grey-green colour. Chlorite decreasing slightly and assuming the form of streaks and irregular inclusions. Low carbonate. Several granitic inclusions or dykes, the largest of which is between 838.5 and 841.0'. Low shear, foliation 35 - 40 degrees C.A.
861.0	Carbonate stringers becoming less numerous and usually barren. Some chalcopyrite and pyrite in last few feet of section, in purplish coloured, slightly magnetic rock.
861.0	GRANITE DYKE
874.0	Reddish coloured. Upper contact contains some quartz stringers and is at 60 degrees C.A. Low contact is indistinct. Some finely disseminated pyrite.
874.0	ALTERED VOLCANICS - (ANDESITE?)
	Green colour. Massive. Fairly hard. The first five feet are fairly well banded at 55 - 60 degrees C.A., the banding being caused by chlorite alteration. Low carbonate. Sporatic pyrite and some chalcopyrite throughout. Three foot section starting 895.0' estimated at 1% CU. After 900.0' the core becomes slightly lighter in colour, and mineralization is negligible. Low shear, fair foliation 40 degrees C.A.
953.0	The core is badly broken up after 939.0'.

END OF HOLE

DIAMOND DRILL LOG

PORTAGE ISLAND (CHIBOUGAMAU) MINES LIMITED

HOLE NO.	F141	LOCATION	930 W - 3300 N	DATE STARTED	Aug. 11, 1956
DIP	55 Deg	LAT.	DEP.	DATE FINISHED	
BEARING	0 Deg	ELEVATION	25.0 Feet	LOGGED BY	J. G. Thompson
DEPTH		DIP TESTS	53 Deg. @ 250'; 48 Deg. @ 500'.		

FOOTAGE		DESCRIPTION
0.0 -	12.0	CASING
12.0		ALTERATION ZONE - ROCK TYPE INDEFINITE
	19.0	Blue-green colour. Soft. Blocky. Medium chlorite. Variable carbonate, low to medium. Medium shear, foliation 50 degrees C.A.
19.0		CHLORITIZED ZONE - ROCK TYPE INDEFINITE
	56.0	Dark green colour. Fairly massive to blocky. High uniformly distributed chlorite. Generally low carbonate. Much light brown lucoxene speckling throughout. Upper contact is sharp, but core has been ground. Lower contact is gradational. Low shear, poor foliation 40 degrees. Some pyrite in carbonate stringers. Note: 54.0 - 38.0' Highly altered grey coloured rock, possibly a quartz porphyry dyke.
56.0		TALCOSE ALTERATION ZONE - ANORTHOSITE
	128.0	Dark grey to greenish colour. Soft. Core broken up in places. Medium chlorite. Low carbonate. Talc content is low, at first, but increasing. Some brown lucoxene throughout. Medium shear, poor foliation, but fracturing at 45 to 50 degrees at 60.0', foliation 30 degrees at 114.0'.
	237.0	As above. Uniform grey-black colour. Core more highly fractured and increasingly talcose. Medium shear, foliation obliterated, but fracturing at 40 degrees C.A. Recovery 80%. Occasional Opalescent quartz eyes appearing around 168.0'
	296.0	Becoming more talcose. High shear, foliation and fracturing 50 degrees at 240.0'; 30 degrees at 268.0'; 35 - 40 degrees at 272.0'. Recovery 85%.
	321.0	As above. Slight mottled appearance caused by indistinct ghost type feldspar laths in a black matrix. High shear, fracturing 35 - 40 degrees at 310.0'.
	330.0	Same as foregoing section, except feldspathic remnants are in a green coloured matrix. Consistant fracturing 35 degrees at 325.0'; 50 degrees at 332.0'.
330.0		ALTERATION ZONE - ROCK TYPE INDEFINITE
	350.5	Uniform light grey-green colour. Hard. Low chlorite. Medium carbonate. Minor disseminated pyrite. Contacts are abrupt, and lower contact appears to be at 45 degrees C.A. Might possibly be an altered grey dyke.

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

D. D. H. #141

FOOTAGE		DESCRIPTION
390.5		TALCOSE ALTERATION ZONE - ANORTHOSITE
		Dark grey to black colour. Soft. Core badly broken up. Recovery 90%. Occasional ghost type feldspar laths visable. Abundant lucoxene showing alignement with shearing. Barren. High shear, good foliation and fracturing 30 - 35 degrees
	421.0	C.A. at 393.0 and 398.0'; 40 - 45 degrees at 412.0'
421.0		ANDESITE
		Mineralized Zone: Uniform green colour. Massive. Fairly hard. Medium to high chlorite. Much pyrite, in places quite massive, and some chalcopyrite associated with irregular white carbonate veinlets and stringers. The chalcopyrite is confined mostly to the four foot section adjacent to the contact. Low shear, poor foliation 25 - 30 degrees.
	433.0	As above. Numerous white carbonate fracture fillings, most of which are very small, and give the rock a brecciated appearance. There is some scattered pyrite and very occasionally chalcopyrite. Low to medium chlorite. Low shear, no foliation except after 550.0', where it is
	558.0	20 - 25 degrees.
558.0		ALTERATION ZONE - POSSIBLY ANORTHOSITE
		Massive. Blue-grey-green colour. Soft. Low to medium chlorite. Low carbonate. Only occasional feldspar laths.
	568.0	Some brown lucoxene. Boundries are gradational.
568.0		TUFF
		Well banded. Medium chlorite and carbonate. Bedding
	574.0	appears to vary between 30 and 50 degrees C.A.
574.0		TUFFACEOUS VOLCANICS
		Dark green colour. Massive. Soft. Medium chlorite and carbonate. Tuffaceous banding trends at 35 degrees C.A. and fades out towards end of section. Barren except for occasional pyrite and a 1½ foot carbonate vein containing
	617.0	massive pyrite at 590.0'.
617.0 - 625.0		GRANITE DYKE
625.0		ANDESITE
		Massive. Uniform dark green colour. Medium chlorite. Low carbonate. Core slightly vesicular. Some pyrite and chalcopyrite associated with small isolated carbonate veins. Some disseminated magnetite throughout. Low shear, indefinite foliation.

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

D. D. H. P141

FOOTAGE		DESCRIPTION
671.0		GRANITE DYKE
		Grey colour at start, but assuming a reddish tinge towards end. Medium alteration in places with quartz and feldspar grains only just visable. Low carbonate. Mineralized throughout with fine grained pyrite and occasionally chalcopyrite. From 679.5 to 681.5' is a very fine grained, dense, black
	684.0	rock.
684.0		ROCK TYPE INDEFINITE:
		Possibly an alteration of the above granite. Much fine pyrite throughout, in places quite massive. Some chalco-
	688.0	pyrite. Low shear, fair foliation 35 degrees C.A.
688.0		ANDESITE: Mineralized Zone:
		Dark grey-green, but sometimes with a reddish tinge. Very fine grained. Average of 4% chalcopyrite over the full section. Much of this mineralization is very finely disseminated throughout the rock, without association with carbonate. Some small blobs of quite massive chalcopyrite are associated with quartz and carbonate. Mineralization sometimes has a trend of 60 - 65 degrees C.A., but this is not general. Pyrite is a minor constituent and is usually very finely disseminated. Some fine magnetite throughout. No foliation from shearing is discernable.
	705.5	As above, but void of mineralization.
	717.0	
717.0		GRANITE
		Usual light grey to reddish colour. Massive. Hard. Low alteration. Negative shear. Some pyrite and very occa-
	735.0	sionally chalcopyrite, usually with carbonate.

END OF HOLE

JGT:wot

DIAMOND DRILL LOG

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

HOLE NO. F143 LOCATION 1000W, 3300N. DATE STARTED Aug. 16th, 1956

DIP 55 Deg LAT. _____ DEP. _____ DATE FINISHED Sept. 1st, 1956

BEARING 0 ELEVATION _____ LOGGED BY J. G. Thompson

DEPTH 996' DIP TESTS 53 Deg at 250'; 40 Deg at 500'; 39 Deg at 750'; 35 Deg at 950'.

FOOTAGE		DESCRIPTION
0.0	9.0	CASING
9.0		ALTERATION ZONE - PROBABLY ANORTHOSITE
		Light to medium grey colour. Fairly massive. Medium hard. Fine grained. Low to medium chlorite. Medium carbonate. Anorthositic texture completely obliterated. Moderate amounts of light brown coloured lucoxene. Medium shear, but foliation poorly developed, 30 deg at 31', 45 deg at 47'.
	56.0	As above. Chloritized, medium to high dark green chlorite, givin rock a green colour. Carbonate content variable, low to medium. Lucoxene has become light tan coloured. More carbonate veinlets than before, but all barren. Medium shear, foliation appears to be 40 degrees C.A.
	84.0	As above. Chlorite content decreasing and rock becoming grey coloured. Low to medium carbonate. Anorthositic texture becoming more apparent, with occasional relic and ghost type feldspar laths appearing. Medium shear, fair foliation and
	103.5	fracturing 35 - 40 degrees C.A.
103.5		FINE GRAINED GABBRO DYKE
		Massive. Green. Speckled appearance caused by very fine lucoxene. Medium hard. Medium chlorite. Low to medium
	132.0	carbonate. Abrupt contacts, the lower one being at 50 degrees C.A.
132.0		ALTERATION ZONE - ANORTHOSITE
		Same as section preceding dyke. Medium shear, fair foliation and fracturing 45 degrees C.A.
	163.0	Darker in colour, in places black. Becoming quite talcose and very soft. Core highly fractured. High black type chlorite content. Low carbonate. Medium shear, indefinite foliation.
	195.0	As above. Patchy green chlorite becoming prominent, giving rock a green colour. Variable carbonate, low to medium. Abundant tan coloured lucoxene. Some fine pyrite associated with carbonate veins. Medium shear, poor foliation 50 degrees C.A. Green chlorite gradually fading out towards end of section
	213.0	Grey coloured. Fairly massive, but soft. Medium black chlorite Low carbonate. Anorthositic texture faintly visable in places. Rock is only slightly talcose. Minor lucoxene altered to
	270.0	ilmenite. Medium shear, foliation 55 degrees at 220'; 30 to 35 degrees at 235'; Fine grained gabbro dyke 241 to 248 feet.
270.0		TALCOSE ALTERATION ZONE - ANORTHOSITE
		Gradational change from above. Becoming darker in colour. Core quite badly broken up and very talcose. Medium black chlorite. Low carbonate. Faint anorthositic texture. Medium shear, foliation obliterated, but fracturing trending 40 to 60 degrees C.A. Core becoming more massive after 300'.

PORTAGE ISLAND(GRIBOUGANAU) MINES LTD.

D. D. H. #143

FOOTAGE		DESCRIPTION
	310.0	As above. Mottled effect caused by ghost type feldspar laths. Moderate amounts of brown lucoxene. Medium shear, poor foliation and fracturing, 35 - 45 degrees C.A. at325' and 30 - 35 after
	360.0	340'.
360.0		ROCK TYPE INDEFINITE - ALTERED DYKE ?
		Light grey-green colour. Massive. Hard. Low chlorite. Low carbonate, although occasionally medium. Porphyritic appearance. Fine disseminated pyrite throughout. Sharp contacts, both chilled
	374.0	Lower contact at 45 degrees C.A.
374.0		TALCOSE ALTERATION ZONE - ANORTHOSITE
		Same as section preceding dyke. Medium shear, most frequent angle of fracturing 30 - 45 degrees C.A. Core becoming badly broken up after 384'. Recovery 80%.
	411.0	More massive. Fine grained. Mottling less distinct than above.
	453.0	Medium shear, foliation 45 - 50 degrees at 451.
453.0		TUFF
		Bedding not as distinct as usual. Medium chlorite, Medium carbonate. Bedding direction variable, possibly cross bedding, 20 degrees and 40 - 50 degrees. In some places the bedding is
	470.0	contorted. Some pyrite associated with carbonate.
470.0		ALTERED VOLCANICS
		Uniform dark green colour. Massive, Medium uniform chlorite. Low to low-medium carbonate, 10% pyrite, the more massive of
	506.0	which is associated with carbonate
506.0		TALCOSE ALTERATION ZONE - ANORTHOSITE
		Dark blue-grey colour. Core quite broken up but recovery fairly good. Soft. Medium black chlorite. Low carbonate. Occasional feldspathic remnants. Low to medium talc. Medium shear, foliation and fracturing 30 - 35 degrees C.A. Some light brown lucoxene.
	535.0	As above, but less talc. Slightly lighterin colour and more
	569.0	massive.
569.0		TUFF
		Well banded, Massive. Low chlorite. Medium carbonate. Most of the bedding trends at 45 degrees, but in some places it is
	579.0	contorted and brecciated.
579.0		ANDESITE
		Massive, very fine grained. Medium green colour. Medium uniform chlorite. Medium carbonate. Numerous small white carbonate veinlets. Minor disseminated pyrite. Low shear, poor foliation
	593.5	possibly 60 degrees C.A.
593.5		GRANITE DYKE
	602.0	Massive. Low alteration. Upper contact 60 degrees, lower contact 40 degrees. Much fine disseminated pyrite throughout.

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

D. D. H. #145

FOOTAGE		DESCRIPTION
	603.0	ANDESITE Same as before dyke. Slightly coarser grained. Low shear, foliation adjacent to dyke 60 degrees C.A. Some pyrite and occasional chalcopyrite associated with carbonate. Occasional small, indefinite, granitic inclusions.
633.0		GRANITE DYKE Low alteration. Upper contact gradational and upper contact
	658.0	fairly sharp. Fine disseminated pyrite throughout.
658.0		ANDESITE Same as that preceding dyke, except that carbonate content is becoming erratic. Carbonate stringers less frequent than before, and only occasional pyrite. Segregations of magnetite appearing towards end of section. Low shear, foliation 35 - 45 degrees
	669.0	C.A., AND AT 60 degrees in last few feet of section.
669.0		MINERALIZED ZONE- MASSIVE SULFIDES IN ALTERED GRANITE The first two feet are well sheared at 50 degrees C.A., and are of indefinite rock type. Mineralization is predominently pyrite 80%. Chalcopyrite is present but is obscured by the pyrite which is tarnished. The mineralization varies from coarse to
	679.0	fine and is often banded at 40 - 55 degrees C.A.
679.0		ALTERED VOLCANICS - ANDESITE Medium green colour, Massive but sometimes brecciated in appearance. Medium chlorite. Low carbonate. Low to medium shear, foliation 55 degrees at 681, and 40 degrees at 688'. First few feet of section are mineralized with 5% chalcopyrite and some pyrite.
	703.0	As above. Still has brecciated appearance with chlorite replacement around fragments. Fairly frequent vesicular white carbonate veinlets, a few of which trend at 30 degrees C.A. Core is barren except for occasional pyrite. Negligible shear
	800.0	As above, becoming slightly less massive with core ground up
	849.0	in some places. Medium shear, fair foliation 50 degrees C.A. at 831'
849.0		GRANITE DYKES Several small granite dykes within the above volcanics. Largest dyke is from 863 to 872'. Some pyrite and minor chalcopyrite is associated with carbonate stringers in the volcanics. The
	872.0	granite contains some fine pyrite. Negligible shear.
872.0		VOLCANICS Same as section 703 to 800'. Medium shear, fair foliation 55 to 60 degrees C.A. Barren except for occasional pyrite and some
	907.0	magnetite rich sections.
907.0		MINERALIZED ZONE 75 - 90% pyrite plus indefinite amounts of chalcopyrite in altered granite. Pyrite is tarnished making it difficult to distinguish the chalcopyrite. Some of the core has been ground up and in places it appears to have slip planes running parallel
	911.0	with the core. Some core is missing.

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

D. D. H. P143

FOOTAGE	DESCRIPTION
911.0	VOLCANICS
	As before, but with negligible shear. Core quite broken up in places, recovery 90%. Several seams containing magnetite sand. Streaky chlorite replacement. Occasional short sections of massive sulfides, but all the core for these has been ground. Other mineralization is negligible and is associated with quartz stringers.
937.0	Some quartz and carbonate stringers which are barren except for pyrite. Several inches of massive chalcopyrite and pyrite in quartz at 960.0'. Rock is still quite fractured, but recovery is better. Brecciated appearance and streaky chloritereplacement
996.0	have disappeared. Low to medium chlorite.

END OF HOLE

DIAMOND DRILL LOG

PORTAGE ISLAND (CHIBOUGAMAU) MINES LIMITED

HOLE NO.	P145	LOCATION	3400 N - 950 W	DATE STARTED	Aug. 20, 1956
DIP	45 Deg	LAT.	DEP.	DATE FINISHED	Aug. 31, 1956
BEARING	0 Deg	ELEVATION		LOGGED BY	J. G. Thompson
DEPTH	850'	DIP TESTS	43 Deg @ 250'; 40 Deg @ 500'; 35 Deg @ 750'.		

FOOTAGE		DESCRIPTION
0.0 -	28.0	CASING
28.0		ALTERATION ZONE - (ANORTHOSITE?)
		Dark grey-green colour. Core badly broken up, recovery 80%. Soft. Medium black chlorite. Low carbonate. Moderate brown lucoxene. Feldspar laths completely obliterated. Well sheared with much fracturing at 40 to 55 degrees C.A. Barren. Note: 28.0 to 30.0', 32.5 to 34.0' and 38.0 to 39.5' - quartz carbonate veins, generally pure white and barren.
	96.0	As above. Becoming slightly more talcose. Core very badly broken up. Recovery 40%. Core missing - 04.0 to 102.0', 105.0 to 112.0', 118.0 to 122.0', 130.0 to 133.0', 146.0 to
	162.0	148.0', 156.0 to 157.0', 160.0 to 162.0'.
162.0		TALCOSE ALTERATION ZONE - ANORTHOSITE
		Gradual change from above. More massive, but still highly fractured. Recovery 95%. Fairly soft. Medium grey colour. Medium chlorite and talc. Low carbonate. Suggestion of anorthositic texture in some places. Fair amounts of brown lucoxene indicating original rock could have been transition rock. Medium shear, poor foliation, but fracturing trends
	249.0	at 30 to 40 degrees C.A.
249.0		TUFF
		Light grey colour. Direction of bedding is variable, often
	251.5	at 15 degrees C.A. Low chlorite. Low to low-medium carbonate.
251.5		ALTERED CHLORITIZED VOLCANICS
		Dark green colour. Massive. Fine grained. Dense. Medium uniform chlorite. Low carbonate. Low to medium shear, poor foliation, fracturing at 30 - 40 degrees C.A. Considerable pyrite, with almost massive pyrite 289.0 - 291.0', 305.0 - 309.0', 314.5 to 316.0'. The more massive pyrite is associated with carbonate. Chalcopyrite is negligible. At 282.0' there is an inclusion of brecciated anorthositic
	334.0	rock.
334.0		GRANITE DYKES
		Two dykes separated by a short section of volcanics. Volcanic section - 340.0 to 342.5'. First dyke contains some pinkish white carbonate, with some coarse chalcopyrite. Dykes are
	346.5	reddish grey coloured.

PORTAGE ISLAND (CHIBOUGAMAU) MINES LIMITED

D. D. H. P145

FOOTAGE		DESCRIPTION
346.5		ALTERED CHLORITIZED VOLCANICS
		As above, except finer grained. The first few feet of section is faintly granitic. Some chalcopyrite associated with small granitic inclusions between 379.0 and 384.0'. 11" section starting at 395.0' averaging 15% Cu in quartz carb. 10" section starting at 398.0'. Minor sulfides, mostly pyrite in adjacent rock.
	415.0	As above, but vesicular, due to leaching out of quartz carbonate. The first 13 feet of the section is quite granitic. Medium uniform chlorite. Low carbonate. Low shear, poor foliation
	473.0	30 - 50 degrees C.A.
473.0		TUFF
		Fairly well banded in two directions 35 and 50 degrees C.A. Medium chlorite. High carbonate. Banding accentuated by
	490.0	pyrite and carbonate stringers.
490.0		CARBONATE RICH VOLCANICS
		Dark green. Fairly massive. Uniform medium chlorite. High carbonate, except in a few short sections. Faintly tuffaceous in places.
	512.0	As above, but finer grained. Carbonate content becoming
	591.0	variable after 550.0'.
591.0		TUFF
		Very well banded at 35 - 60 degrees C.A. Light grey green colour. Low chlorite. High carbonate and some silica. Mineralized with massive very fine grained pyrite between 598.0 and 599.5'. Evidence of cross the bedding slippage at 592.0'
	601.0	Becoming dark green in colour. Bedding less prominent, 50 - 60 degrees C.A. Medium chlorite. Variable carbonate, low to medium. Occasional pyrite aligned with the bedding. Bedding fades out completely between 617.0 and 636'. This non bedded section has low carbonate, but contains appreciable chalcopyrite with quartz-carbonate between 628.0 and 629.0'. Tuffaceous banding reappears strongly after 636.0' and has high carbonate
	646.0	content.
646.0		VOLCANICS - OCCASIONALLY TUFFACEOUS
		Dark green colour. Quite hard. Very fine grained. Low to medium chlorite. Low carbonate, except in a few places. Short
	710.0	granitic section at 685.0'.
710.0		VOLCANIC - GRANITE COMPLEX
	726.0	The above volcanics containing faint granitic sections.
726.0		GRANITE DIKE
	750.0	Massive. Reddish grey colour.

PORTAGE ISLAND (CHIBOUGAMAU) MINES LIMITED

D. D. H. P145

FOOTAGE		DESCRIPTION
750.0		VOLCANIC - GRANITE COMPLEX
	793.0	Mostly volcanics, but with some intrusions of what appears to be granitic material. However, these intrusions are often quite angular, so rock could be a pyroclastic.
793.0		SHEARED AND ALTERED GRANITE DYKE
	795.0	High shear, with excellent foliation and fracturing at 50 degrees C.A.
795.0		CHLORITIZED VOLCANICS
	814.0	Streaky green chlorite. Low carbonate. Medium shear at 50 degrees C.A.
814.0		GRANITE DYKES
	838.0	First few feet are quite schistose at 55 degrees C.A. but shearing virtually disappears towards end. Several short sections of volcanic-granite complex, which exhibits shear at 55 degrees C.A.
838.0		VOLCANICS
	847.0	Same as section 795.0 to 814.0'. Sheared at 50 degrees C.A. Numerous dark coloured magnetite rich segregations.
847.0		GRANITE
	850.0	

END OF HOLE

DIAMOND DRILL LOG

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

HOLE NO. P126 LOCATION 1000W, 3300N. DATE STARTED Sept 1st, 1956
Sept. 13th, 1956

DIP 75 Deg. LAT. DEP. DATE FINISHED

BEARING 0 Deg. ELEVATION LOGGED BY J. G. Thompson

DEPTH 1000' DIP TESTS 70 Deg. at 250'; 64.5 Deg. at 500';
61.5 Deg at 750'; 61.0 Deg. at 1000'.

FOOTAGE		DESCRIPTION
0.0	10.0	CASING
10.0		ALTERATION ZONE ANORTHOSITE
		Dark blue grey colour. Fairly massive. Medium hard. Low to medium chlorite. Low carbonate. Some tan coloured lucoxene. Medium shear, poor foliation 30 - 40 degrees C.A.
	25.0	Lighter grey green colour. Fairly massive, but local grinding of core. Core missing 28.0 - 31.0'. Medium light green chlorite. Medium to high carbonate. Ghost type feldspar laths faintly visable in places. Some brown and some tan coloured lucoxene. Medium shear, fair foliation and some fracturing 25 - 30 degrees
	99.5	C.A.
99.5		FINE GRAINED GABBRO DYKE
		Light grey green colour. Speckled appearance, except in first few feet, caused by much light coloured lucoxene. Low to medium chlorite. Medium carbonate except in first five foot of dyke. Sharp contacts, upper 60 degrees C.A., lower at 35 - 40 degrees
	121.5	C.A. Low shear, indications of regular fracturing 25 - 35 degrees
121.5		ALTERATION ZONE - ANORTHOSITE
		Fairly massive. Quite soft. Patchy light green chlorite increasing towards end. Low carbonate. Some light brown lucoxene. Irregular, barren quartz-carbonate vein 138.5 to 140.0'. Medium shear, good foliation and fracturing 25 to 30 degrees at 136.0'
	153.0	and 35 - 40 at 146.0'
153.0		ALTERED GREY DYKE
		Hard. Fine grained. Massive. Low chlorite. Low carbonate. Upper contact at 40 degrees C.A., lower contact less distinct at
	161.5	70 or 80 degrees.
161.5		ALTERATION ZONE- ANORTHOSITE
		Same as before dyke. Medium shear at 40 degrees. Several short sections of what appears to be fine grained gabbro dyke material,
	183.0	with much lucoxene.
183.0		FINE GRAINED GABBRO DYKE
		Light greenish grey colour. Massive. Very fine grained. Hard. Low chlorite. Medium carbonate. Dyke appears to end at 190.0' with a contact of 45 degrees. At this footage a very similar
	190.0	rock, with a very high lucoxene content, appears.
194.0		ALTERATION ZONE - ANORTHOSITE
		As before, becoming talcose. Core somewhat broken up. Medium
	246.0	shear, foliation variable, 25 to 40 degrees C.A.

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D. D. H. P146

FOOTAGE		DESCRIPTION
246.0		CHLORITIZED ALTERATION ZONE - ANORTHOSITE
		Green colour. Quite massive. High chlorite light green type. Variable carbonate, low to medium, disappearing after 300'. Medium shear, good foliation 30 to 35 degrees. Much tan
	310.0	coloured lucoxene distributed throughout.
310.0		CHLORITIZED GABBRO
		Gradual change from above. More mafic minerals appearing. High chlorite. Low carbonate. Much tan coloured lucoxene. Low shear, some fracturing at 35 degrees C.A.
	340.0	Sharp increase in chlorite content. Considerable barren
	374.0	quartz and carbonate appearing.
374.0		GRANITE DYKE
		Massive. Grey colour. Low alteration. Medium low carbonate.
	387.0	fine disseminated pyrite throughout.
387.0		ALTERATION ZONE - ROCK TYPE INDEFINITE
		High alteration. Abundant fine lucoxene. Medium carbonate
	396.0	in part.
396.0		TALCOSE ALTERATION ZONE - ANORTHOSITE?
		Core quite broken up but recovery still good. Light grey colour. Low to medium chlorite. Low carbonate. Medium shear but foliation indefinite, probably about 30 degrees C.A.
	517.0	As above slightly darker in colour and more talcose. Core badly broken up with much fracturing trending 15 to 25 degrees but increasing to 30 or 40 degrees toward end of section. Barren white quartz-carbonate from 516.0 to 518.0. Some of
	766.0	the carbonate in this vein has been leached out.
766.0		ROCK TYPE INDEFINITE
		Uniform medium grey colour. Massive. Fine grained. Fairly hard. Low chlorite. No carbonate. Medium shear, fair foliation 20 to 25 degrees C.A. Some very finely disseminated pyrite. The foliation or banding is slightly suggestive of a highly
	772.0	altered tuff.
772.0		ANDESITE
		Very massive. Hard. Uniform dark green colour. Medium uniform chlorite. Medium carbonate up to 785', thereafter nil. Moderate numbers of white carbonate veinlets, some containing pyrite. From 809 to 816, pyrite, locally quite massive, occurs with minor carbonate and in places quite massive magnetite.
	824.0	Lighter in colour and harder. Low chlorite and carbonate.
	839.0	Same as section 772 to 824'. Occasional isolated blebs of chalcopyrite associated with quartz-carbonate. Some indications of low shear, but no foliation, although some of the carbonate veinlets and mineralization trend at 40 degrees C.A.

DIAMOND DRILL LOG

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

HOLE NO.	P147	LOCATION	850N, 3400W	DATE STARTED	Aug. 31st. 1956
DIP	55 Deg	LAT	DEP	DATE FINISHED	Sept. 8th, 1956
BEARING	0 Deg	ELEVATION		LOGGED BY	J. G. Thompson
DEPTH	536'	DIP TESTS			

FOOTAGE		DESCRIPTION
0.0	10.0	CASING
10.0		TALCOSE ALTERATION ZONE - ANORTHOSITE
		Dark grey green colour. Core badly broken up and missing completely from 17 to 20; 41 to 45; 51 to 53'. Overall recovery 60%. Medium black chlorite. Low carbonate. Medium talcose. Some brown lucoxene. High shear, excellent foliation and fracturing 35 - 50 degrees C.A. Very small pure white carbonate veins at 36.0 , 41.0, and 56.0', all barren.
	58.0	Becoming slightly more massive, recovery 85%. Still much fracturing at 35 - 40 degrees C.A. Occasional faint ghost type feldspar laths appearing.
	105.0	Core badly ground up, recovery 50 - 75%. Much core missing completely.
	136.0	Somewhat better recovery than in previous section, but core still badly broken up. Fracturing no longer follows trend of shearing. Medium talc and black chlorite. Negligible carbonate. Becoming less talcose and more massive towards end. Shear
	265.0	direction indefinite.
265.0		TUFF
		Indistinct bedding at about 20 degrees C.A. Several inclusions of a very hard dense black material. Medium chlorite and
	274.0	carbonate. Some fine pyrite.
274.0		CHLORITIZED VOLCANICS
		Dark green colour. Massive. Reasonably soft. Medium to high uniform chlorite. Negligible carbonate. Appreciable amounts of pyrite, locally quite massive. Occasional flecks of chalcopyrite are visable. Some of the sulfides are associated with quartzose intrusions, others with carbonate, while most of them occur directly in the volcanics. No apparent shear, although some of the mineralization does trend at 15 to 20 degrees C.A. particularly near the lower contact which itself is at 10
	362.5	degrees C.A.
362.5		GRANITE
		Grey colour with reddish tinge in places. Low alteration. Barren No shear. Inclusion of well chloritized volcanic rock from 390.0 to 396.0. This volcanic section contains some short granitic sections.
	403.0	As above, numerous flecks of green chlorite appearing. Slight increase in alteration.
	486.0	Low chlorite and carbonate. Slightly altered. Suggestion of low shear with foliation 50 degrees at 500'. Two isolated blobs
	536.0	of chalcopyrite at 525'.

END OF HOLE NO SAMPLES

DIAMOND DRILL LOG

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

HOLE NO. P148 LOCATION 3300N, 695W. STARTED Sept. 10th, 19

DIP 45 DEG LAT. DEP. FINISHED

BEARING North ELEVATION LOGGED BY J. Thompson

DEPTH DIP TESTS 45 Deg. at 250 & 500';

FOOTAGE		DESCRIPTION
0.0	14.0	CASING
14.0		FINE GRAINED GABBRO
	25.0	Dark green. Core badly broken up. Quite soft. Medium chlorite. Medium carbonate. Much fine lucoxene speckling. Medium shear, fracturing 40 deg. C.A. Lower contact fairly abrupt but core ground.
25.0		CHLORITIZED TRANSITION ROCK
	40.0	Dark green. Core broken up. Very high alteration. High chlorite. Low carbonate. Much tan coloured lucoxene. Medium shear, 30 degrees C.A.
40.0		GRANITE DYKE
	47.5	Grey colour. Fairly massive. Medium alteration. Low chlorite and carbonate
47.5		FINE GRAINED GABBRO
	73.0	Same as section 14 to 25' only lighter in colour. Carbonate content becoming erratic. Low shear, fracturing 40 to 50 degre
73.0		TALCOSE ALTERATION ZONE - ANORTHOSITE
	360.0	Blue-black colour. Core generally badly broken up. Soft. Quite talcose. Medium black chlorite. Low carbonate. Fairly numerous blebs of brown lucoxene. Medium shear, fracturing 40 - 50 degrees, but apparently changing to 20 or 30 towards the end. Recovery 90%.
360.0		GRANITE DYKE
	365.5	Light grey colour. Hard. Medium alteration. Massive. Fine pyrite throughout
365.5		TALCOSE ALTERATION ZONE - ANORTHOSITE
	370.5	Highly broken up. Tendency to fracture parallel to core.
370.5		ALTERED GRANITE DYKE
	393.0	Massive. Hard. Light grey colour. Medium alteration. Severa open fractures partially filled with poorly crystallized quartz-carbonate. Much pyrite throughout, usually very fine. Minor chalcopyrite, except for one foot starting at 378.0', which is estimated to contain 5% Cu. Low carbonate. No apparent shear, but some of the carbonate veinlets trend at 45 Degrees.

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

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FOOTAGE		DESCRIPTION
393.0		ALTERED VOLCANICS - WITH SOME GRANITIC SECTIONS
		Medium chlorite. Low carbonate. Many small carbonate filled fractures. No apparent shear but some fracturing occurs at about 20 degrees C.A. Some extremely fine chalcopyrite
	401.5	mineralization.
401.5		ALTERED GRANITE
		Massive. Grey colour. High alteration making it almost indistinguishable as a granite. Abundant very fine pyrite and indefinite amounts of fine chalcopyrite. Foliation appears to
	414.0	be 20 degrees C.A.
414.0		ALTERED VOLCANICS
		Fairly massive. Hard. Brick red colour for the most part. This is apparently some kind of an alteration product. Low chlorite. Low carbonate. Excellent foliation at 30 degrees C.A. Abundant chalcopyrite, some of which is very fine grained, while the remainder is in blebs. Smaller amounts of associated pyrite. The best chalcopyrite is in the brick red altered sections. Average content estimated at 6%, with some short sections being somewhat richer.
	425.0	Usual dark green colour. Medium chlorite. Low carbonate. Fair foliation in most places around 30 degrees C.A. Some pyrite, chalcopyrite and magnetite throughout. The first 6' is estimated at 3% Cu, associated mostly with quartz-carbonate veinlets. Some of this chalcopyrite is quite coarse, but much of it is
	442.0	very fine.
442.0		GRANITE DYKE
		Light grey with reddish sections. Medium alteration. Low
	453.5	pyrite.
453.5		ANDESITE
		Dark green. Massive. Extremely fine grained. Low to medium chlorite. Low carbonate. Occasional pyrite. Pyrite increasing
	501.0	towards end of section. Minor chalcopyrite in last few feet.
501.0		GRANITE
		Grey, Massive. Hard. Low shear. Upper contact 50 degrees and lower contact 35 degrees. Section of volcanics from 516 to 531'.
	532.0	Occasional pyrite mineralization.
532.0		TUFF
	537.0	Well banded but direction variable, 35 to 45 degrees.
537.0		GABBRO
		Very fine grained. Massive. Medium chlorite. Low to medium carbonate. Speckled appearance caused by abundant leucoxene. Medium shear, fair foliation ie alignement of leucoxene and
	562.0	carbonate veins, at 50 degrees C.A. Slightly magnetic in places

F 149

562.0 VOLCANICS

Dark green colour. Fairly massive. Fine grained. Medium chlorite. Low to medium carbonate. Occasional pyrite much finely disseminated magnetite, ilmanite
600.0 Negligible shear.

600.0 VOLCANICS- TUFFACEOUS in part

As above, several tuffaceous sections with bedding variable between 30 and 50° CA. The first 10 feet contains quartz eyes and some very finely disseminated chalcopyrite, less than ½% Cu. Core becomes
624.5 slightly broken & vesicular up towards the end.

624.5 GRANITE DYKE

Grey colour. Core quite badly fractured. Upper contact gradational, lower contact 55° CA. Core slightly vesicular due to leaching of carbonate from carbonate
632.0 veins.

632.0 VOLCANICS

Badly fractured, particularly in first 5 feet. Fine grained. Dark green colour. Medium chlorite. Low carbonate, minor pyrite. Same shear but indefinite
660.0 foliation.

660.0 TUFF

Extremely well banded at 35 to 40° CA.with same banding
687.0 at 55°. Low to medium chlorite. High carbonate. Minor pyrite.

687.0 TUFFACEOUS VOLCANICS

Mainly fine grained volcanics but containing some tuffaceous sections. Low amounts of pyrite and occasional-
700.0 ly chalcopyrite.

700.0 VOLCANICS

Massive at first but becoming broken up towards the end. Fairly hard. Low to medium chlorite. No carbonate veins, some mineralized with pyrite and minor chal. copyrite. System of carbonate veins from 709.3 to 719.5 well mineralized with chalcopyrite, and some pyrite. Indications of shearing but no definite foliation.

732.0 More massive than above but quite vesicular. Only oc-
659.5 casional carbonate veins and negligible mineralization, pyrite. Medium shear, poor foliation 25 to 40° CA.

769.5 GRANITE DYKE

Reddish grey colour. Core quite badly broken up. No
783.0 definite shear direction.

783.0 ANDESITE

Massive. Slightly lighter in colour and less altered than the previous volcanics. Low chlorite. Some quartz carbonate veinlets, occasionally mineralised with minor
835.0 pyrite and chalcopyrite. Low shear, indistinct foliation.

END OF HOLE

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD

DIAMOND DRILL RECORD

HOLE: P 150 | LATITUDE: 9,266.93 | STARTED: Sept. 14,1956.

BEARING: N 6° 30' W | ELEVATION: 10,037.1 | COMPLETED: Sept. 25,1956.

DIP: 45° | DIP TESTS: | LOGGED BY: J. G. THOMPSON.

DEPTH: 799 | 44° @ 250'; 43° @ 500'; 42° @ 780'.

DEPARTURE: 9,947.93

0.0	9.0	CASING
9.0		FINE GRAINED GABBRO DYKE
		Fairly soft. Core slightly broken up, especially in first 10 feet where gassonized slip planes run in all directions. Dark green colour. High chlorite. High carbonate. Much tan coloured lucoxene, giving speckled appearance.
	41.0	Considerable number of quarts eyes.
41.0		ALTERATION ZONE- ANORTHOSITE
		Light grey-green colour. Massive. Fine grained. Low chlorite. Low to medium carbonate, generally the latter. Feldspar laths obliterated except in a few places. Appreciable brown lucoxene. Medium shear, poor foliation
	85.0	around 50° CA.
85.0		CHLORITIZED ALTERATION ZONE-TRANSITION
		Dark green colour. Core slightly broken up. Fairly soft. High chlorite. Low carbonate. High alteration. Abundant tan coloured lucoxene. Medium shear, foliation indefinite 40 to 50°.
	132.0	Becoming more massive. Chlorite content decreasing
	153.0	slightly.
153.0		ALTERATION ZONE-ANORTHOSITE?
		Core slightly broken up, with slip planes running at 20° CA in some places. Medium chlorite. Low carbonate.
	162.0	Minor lucoxene.
162.0		ALTERED PORPHYRY DYKE
		Light green colour. Core slightly broken up. Hard. Low chlorite. No carbonate. Numerous hard phenocrysts.
	171.0	Abrupt contacts apparently at about 70° CA.
171.0		TALCOSE ALTERATION ZONE-ANORTHOSITE
		As usual. Rock becoming increasingly talcose and more highly broken up towards end of section. High shear, most of fracturing occurs at 45 to 55o. Occasionally
	215.0	anorthositic texture is distinguishable.
215.0		CHLORITIZED ALTERATION ZONE-TRANSITION
		Dark green with much lucoxene speckling. Very fine grained. Massive. Quite hard. High chlorite. Variable car-
	239.0	bonate generally low. Medium shear poor foliation 30 to 50° CA.
239.0		TALCOSE ALTERATION ZONE-ANORTHOSITE
		Grey green colour. Core somewhat broken up but recovery is good. Soft. Medium talc and chlorite. No carbonate. Medium shear, fracturing at 40 to 45°. God foliation in this direction between 263 and 266 feet. Contacted ghost type feldspar laths are visable in most places along with fair amounts of lucoxene.

330.0 As above, but generally black coloured. Medium shear, foliation and fracturing in all directions
389.0 but generally 30 to 40o CA.

389.0 ALTERED PORPHYRY DYKE

Same as section 162.0 to 171.0. Upper contact is gradational, and lower contact is finer grained
397.5 and is at about 70o CA.

397.5 TALCOSE ALTERATION ZONE-ANORTHOSITE

Variable colour, black to medium green. Core quite highly fractured, but recovery good. Soft. Medium chlorite and talc. No carbonate. Moderate amounts of brown coloured lucoxene. Medium shear, foliation and fracturing variable 30 to 50o CA. Ghost type
522.0 feldspar laths visable in places.

522.0 TUFF

Massive. Light grey colour. Variable, hardness. Low chlorite. Medium carbonate but in places low. Banding is not as distinct as usual, variable from 20o to 50o, but usually the former in places the bedding is quite contorted. Minor pyrite and very
539.0 occasionally chalcopyrite.

539.0 ALTERED ANORTHOSITE

Much the same as that preceding tuff but more massive and less talcose.
542.0 Same shear at about 35o CA.

542.0 ROCK TYPE INDEFINITE- PROBABLY GABBROIC

Massive. Not very hard. Dark greenish, colour. Fine grained. Medium alteration. Medium chlorite. No carbonate. Fair amount of extremely fine lucoxene. Some pyrite in first few feet. Abrupt contacts.

582.5 Apparently a quartzose replacement of the above. Light grey colour. Very hard.

587.5 Similar to section 542.0 to 582.5 but more anorthosite in appearance. Quite hard. Massive. Low chlorite. Low to medium carbonate.

604.0 Very distinct tuffaceous like banding at 65 to 70o CA. Apart from this the rock has an anorthositic appearance. Low chlorite. Low to medium carbonate.

613.0 Same as rock preceding 604'. More anorthositic than gabbroic in appearance. Medium alteration. Low chlo-
629.5 rite. Low to medium carbonate. Abrupt lower contact.

629.5 CHLORITIZED VOLCANICS

Core slightly broken up. Very fine grained. Dense. Dark green colour. Uniform green chlorite. Low to
654.5 medium carbonate. No evidence of shearing.

654.5 GRANITE DYKE

Bright red colour. Core quite badly fractured, in
661.0 phases by slip planes almost parallel to core.

661.0 CHLORITIZED VOLCANICS

Less homogeneous than before. Good banding of chlorite and fracturing at 40 to 50o. Medium shear. High streaky green chlorite. No carbonate. Local segregations of magnetite. Weakly mineralized with pyrite throughout.

694.0 – 698.0 As above but more dense. Colour trending towards black as a result of a medium magnetite content. Foliation and shearing remains the same. Minor pyrite and chalcopyrite.

698.0 MASSIVE SULFIDES IN ALTERED GRANITE

75 to 90% pyrite and indefinite amounts of chalcopyrite, mostly fine grained. Chalcopyrite content could be as much as 5 to 8%. The gangue is an altered granite dyke, generally white in colour but sometimes with a reddish tinge.

702.7 Foliation, if present, has been obliterated.

702.7 CHLORITIZED VOLCANICS

Massive. Dark green colour. Slightly finer grained and more homogeneous than previous section. Medium to high chlorite. Negligible carbonate. Generally slightly magnetic owing presence of magnetite. Minor pyrite and occasionally chalcopyrite. Indications of some shear but poor foliation, 30 to 50ō , some fracturing at 30o CA.

732.0 As above, but becoming slightly vesicular.

799.0 Mineralization decreasing the negligible.

END OF HOLE.

Page 1 DIAMOND DRILL LOG

PONTIAC ISLAND (ONAKOUGANAU) MINES LIMITED.

HOLE NO. P 152 LOCATION 3910N, 720 W DEPARTURE 10,234

DIP 40o LATITUDE 9,557 DATE STARTED Sept. 25th, 1956.

BEARING N 25° W ELEVATION _____ DATE FINISHED Oct. 6th, 1956.

DEPTH 852 DIP TESTS 36°@ 250'; 33° @ 500'; LOGGED BY J. G. THOMSON

30°@ 700'; 29° @ 800';

FOOTAGE		DESCRIPTION
0.0	20.0	CASING
20.0		CHLORITIZED VOLCANICS
	76.0	Dark green colour. Very fine grained. Core quite broken up. Fairly soft. Medium to high green chlorite. Negligible to low carbonate. Fairly numerous white carbonate veinlets, often mineralised with pyrite. Low shear, poor foliation about 40 to 50°.
76.0		TUFF- WITH POSSIBLE GABBROIC INCLUSIONS
	97.0	Banding irregular, and not too distinct except towards end of section. General trend is about 40°. Medium carbonate throughout. Some short non-banded sections containing leucoxene, which may represent gabbro inclusions.
97.0		VOLCANICS
	132.0	Massive. Medium green colour. Very fine grained. Less chlorite than before, content medium low to medium carbonate.
132.0		GRANITE DYKE
	144.5	Grey coloured. Fairly massive. Lower contact at 55° CA.
144.5		VOLCANICS
	210.0	Same as before dyke except core is quite broken up, and carbonate content is negligible to low. Fairly frequent quartz and carbonate rich sections containing pyrite. Two inch stringer of quite massive chalcopyrite at 165 feet.
	305.0	Some what more massive. Negligible pyrite mineralisation. Small granite dyke. 220.0 to 224.5. Lower contact appears to be at about 30° CA.
305.0		ALTERATION ZONE-ANORTHOSITE
	344.0	Medium grey-green colour. Fairly massive. Soft. Slightly talcose, low to medium chlorite. Negligible to low carbonate. Medium shear, fair fracturing 40 to 50° CA at 315 feet and 30 to 40o CA at 330 feet.
344.0		ROCK TYPE INDEFINITE
	401.5	Gradual change from above. Irregular tuff-like banding appearing, sometimes trending at 10o CA, but more often at 30 to 50o CA. In places the rock has an anorthositic appearance low to medium chlorite and carbonate.
401.5		ALTERATION ZONE-ANORTHOSITE
		Medium blue grey colour. Core slightly broken up. Fairly soft. Low to medium chlorite usually streaky. Medium carbonate. Feldspar laths completely obliterated. Occasional leucoxene and very fine pyrite. Medium shear, good foliation and fracturing 40 to 50o CA. Slight banded appearance. The last 15 feet of this section is the same as the previous section. Therefore the two sections may just be altered compe-

	477.5	cents of the same rock. Lower contact at 60°CA.
477.5		VOLCANICS
		Dark green colour. Massive. Fine grained. Quite hard. Low to medium chlorite. Medium carbonate. Low shear, poor foliation about 50° CA. Some pyrite and occasional flecks of chalcopyrite associated with quartz at 497.5 and 498.0'.
	500.0	Core slightly broken up. Lighter in colour. No carbonate. Chalcopyrite mineralization associated with white to pink quartz carbonate veins, becoming more frequent. From 511.0 to 514.0 - 25% pink quartz carbonate containing 6% chalcopyrite.
	526.0	As above but barren except for occasional pyrite. Slightly more massive. Fairly numerous barren white carbonate veins, often vesicular.
	589.0	
589.0		GRANITE DYKE
	594.5	
594.5		VOLCANICS
	597.0	
597.0		GRANITE DYKE
	599.3	Minor chalcopyrite associated with quartz-carbonate vein.
599.3		VOLCANICS
		As before. Numerous white to pink coloured quartz carbonate veins. Only occasional mineralization. Magnetite rich section 609 to 612.
	628.5	
628.5		GRANITE DYKES
		Volcanics inclusion 634.5 to 636.0. Several blebs of chalcopyrite in quartz-carbonate vein at 632.5.
	636.0	
636.0		VOLCANICS
		Medium green colour. Fine grained. Hard. Low chlorite. Negligible to low carbonate. Short magnetite rich sections. Minor pyrite and occasionally chalcopyrite.
	692.5	
692.5		GRANITE DYKE
	699.0	Upper contact gradational. Lower contact abrupt.
699.0		VOLCANICS
		Blotchy green colour. Massive. Quite hard. Medium green blotchy chlorite. Negligible carbonate. Several magnetite rich sections.
	721.0	Minor pyrite.
721.0		GRANITE DYKE
	727.0	
727.0		VOLCANICS
	736.0	
736.0		GRANITE DYKE
	758.0	Pinkish grey colour, with abrupt contacts.
758.0		VOLCANICS
		As before but containing short sections of fairly massive pyrite.
	781.0	Occasional chalcopyrite.

781.0 MINERALIZED ZONE-VOLCANICS

60% pyrite overall, with short sections up to 90%. Occasional chalcopyrite towards end. The more massive sections may occur in an altered granite. Some sections have medium
789.0 carbonate, but generally speaking content is low.

789.0 VOLCANICS

As before. Mineralized with 5% pyrite and 2% chalcopyrite with short richer sections of the latter.

802.0 As above but essentially barren,

817.0 except for occasional pyrite.

817.0 GRANITE

Upper contact at 50o CA. Blebs of chalcopyrite in quartz
852.0 veinlets at 821 and 823; low shear, poor foliation 45o CA.

END OF HOLE.

Page #1 DIAMOND DRILL L

PORTAGE ISLAND (CHIBOUGAMAU) MINES LIMITED.

HOLE NO. P 153 LOCATION 1070W 3250N DEPARTURE: S.947.93

DIP 60° LATITUDE 9,264.93 DATE STARTED Sept.25th,1956.

BEARING N 6° 30'W ELEVATION 10,037.1 DATE FINISHED October 3rd,1956.

DEPTH 751 DIP TESTS 55°@ 500'; 51°@750. LOGGED BY: J. G. THOMPSON

FOOTAGE		DESCRIPTION
0.0	10.0	CASING
10.0		FINE GRAINED GABBRO
	49.0	Fairly soft. Dark green colour. High uniform green chlorite. High carbonate. Speckled appearance caused by high lucoxene content.
49.0		ALTERATION ZONE-ANORTHOSITE
	83.0	Light grey green colour. Fairly massive. Soft. Low chlorite. Medium carbonate. Medium shear, poor foliation 40 to 45° CA. Occasional light coloured lucoxene.
83.0		CHLORITIZED ALTERATION ZONE-TRANSITION
	127.0	Medium green colour. Massive. Fairly soft. High chlorite. Low carbonate. Fairly abundant tan coloured lucoxene. Shear indefinite. Large number of barren carbonate veins appearing after 104.
	160.0	As above. Becoming lighter in colour, due to decrease in chlorite content. Some ghost type feldspathic relics appearing. Poor foliation 40 to 50°.
160.0		ALTERATION ZONE-ANORTHOSITE
	234.0	Fairly massive except for local fracturing. Light grey green colour. Low to medium chlorite. Low carbonate. Anorthositic texture faintly visable in places. Minor lucoxene. Low shear, poor foliation 45°CA. Last 40 feet of core is quite badly broken up.
	234.0	CHLORITIZED ALTERATION ZONE-TRANSITION
	333.0	Dark green colour. Massive. Fairly soft. High uniform green chlorite. Low to medium carbonate. Abundant lucoxene. Some white carbonate veinlets all barren. Low shear poor foliation 30 to 40°. Core slightly broken up in the last 25 feet.
333.0		ALTERATION ZONE-ANORTHOSITE
	350.0	Soft. Medium chlorite. Negligible carbonate. Occasional lucoxene. Ghost type feldspar laths, drawn out by shearing at 30°CA.
350.0		ALTERED PORPHYRY DYKE
	366.5	Massive. Hard. Highly porphyritic has almost the appearance of an altered anorthosite except contacts are very abrup Low chlorite. Low carbonate. Lower contact at 45°, upper contact has been ground. Some fine disseminated pyrite throughout.
366.5		TALCOSE ALTERATION ZONE-ANORTHOSITE
	396.0	Blue grey colour. Core quite broken up. Medium chlorite. Negligible carbonate. Low talc. Medium shear fair foliation 40 to 50° CA.
396.0		ALTERED PORPHYRY DYKE
	405.0	Similar to that between 350 and 366.5. Contacts at 45c.

405.0 TALCOSE ALTERATION ZONE-ANORTHOSITE

Same as that preceding dyke, only core very badly broken up and medium talc. High shear, foliation and fracturing varying from 20 to 40o CA.

462.0 As above but slightly more massive. Contacted ghost typed feldspar laths visable in places. Moderate amounts of leucoxene. High shear 20- 40o CA. Possible altered dyke 473.9 to 473.0.

485.0 Core very badly broken up, but otherwise as above. Several small pure white barren, quarts veins trending at 55o CA.

606.0 Becoming quite massive and talc content decreasing. Medium shear, fracturing at about 40o CA.

631.0 Core quite badly broken up by fracturing ranging from 20 to 40o.

654.0 Becoming increasingly talcose.

654.0 ALTERED VOLCANICS-POSSIBLY TUFF.

Dark green colour. Massive. Fairly hard, Medium chlorite and carbonate. Suggestions of tuffaceous bedding, particularly in first few feet of core, trending about 30o CA.

668.0 Fairly numerous barren carbonate veinlets.

668.0 VOLCANICS

Dark green. Massive. Fairly hard. Fine grained. Medium chlorite. No carb nate. Appreciable amounts of pyrite in carbonate veinlets. Low to medium shear 30 to 45o CA.

727.0 Slightly lighter in colour. Chlorite becoming streaky. pyrite still present but less frequent. Some chalcopyrite associated with carbonate between 748 and 749'. Low shear,

751.0 foliation around 40o CA.

END OF HOLE.

ASSAY RESULTS:

Number	Footage	Width	Description	Assay
5696	748.0-749.3	1.3'	4% Cpy in carbonate veinlets.	Au: Cu:

DIAMOND DRILL LOG

PONTIAC ISLAND (CHIBOUGAMAU) MINES LIMITED

HOLE P 159 | LOCATION 144'N of Line 10 W at 3250 E | DATE STARTED Oct 5,1956

DIP 60o | LAT. ____ DEP. ____ | DATE FINISHED Oct.19,1956

BEARING N 10W | ELEVATION ____ | LOGGED BY: J.G.THOMSON

DEPTH 1002 | DIP TESTS 53o @ 250'; 49o @ 500';

50o @ 750'; 49o @ 1000'.

FOOTAGE		DESCRIPTION
0.0	9.0	CASING
9.0		FINE GRAINED GABBRO
	64.0	Dark green colour. Fairly soft. Core slightly broken up. High chlorite. Variable carbonate, low to medium. Much fine tan coloured lucoxene. 15% pyrite associated with carbonate veins 38 to 42'. Low shear poor foliation 40 to 55oCA.
64.0		ALTERATION ZONE-ANORTHOSITE
	98.0	Light grey green colour. Fairly soft. Massive. Low to medium carbonate. Fairly abundant brown coloured lucoxene. Medium shear, fair foliation 45 to 50o CA.
98.0		CHLORITIZED TRANSITION
	168.0	Gradual change from above. This rock may just be a chloritized phase of the above anorthosite. Dark green colour, slight fracturing of core. Soft. High green chlorite. Negligible carbonate. Abundant tan coloured lucoxene. Medium shear, foliation 45 to 55o CA.
168.0		ALTERATION ZONE-ANORTHOSITE
	186.0	Grey colour. Soft. Core quite broken up. Low to medium chlorite. Negligible carbonate. Minor lucoxene. Medium shear, poor foliation but some fracturing 55 to 60o CA. First two feet of section could represent an altered dyke.
	186.0	Minor pyrite.
186.0		ALTERED DYKE
	198.0	Light grey colour, Hard. Massive. No chlorite or carbonate. Abrupt contacts. Fine pyrite throughout. Slightly darker colour near lower contact. Faint granitic appearance.
198.0		CHLORITIZED TRANSITION
	231.0	Dark green colour. Generally massive. Soft. High chlorite. Negligible carbonate except in a few places. Abundant lucoxene.
	254.0	As above. Slightly lighter in colour. Chlorite decreasing slightly and becoming patchy. Low carbonate. Low shear but indefinite foliation.
	307.0	Same as section 198.0 to 231.0. Some dark lucoxene, coloured appearing, along with the light coloured. Negligible to low carbonate.
307.0		ALTERED DYKE
	313.5	Medium grey colour. Fairly massive. Hard. Low chlorite. Negligible carbonate. Has the appearance of an altered granite. Lower contact sharp at 40o.

313.5 CHLORITIZED TRANSITION

Same as that preceding dyke, chlorite and leucoxene decreasing
320.0 gradually.

320.0 ALTERATION ZONE-ANORTHOSITE

Medium grey colour. Massive. Fairly hard. Low to medium chlorite. Negligible carbonate.

358.5 Feldspathic remnants visable.

358.5 ALTERED DYKE

Small altered dyke, similar
360.0 to above dykes.

360.0 TALCOSE ALTERATION ZONE-ANORTHOSITE

Dark, almost black colour. Core badly fractured. Soft. Medium chlorite. Negligible carbonate. Low to medium talc, increasing. Ghost type feldspar is the visable throughout. Minor leucoxene. High shear, foliation indefinite, but about 45oCA.

420.0 As above but high carbonate with some green chlorite. Minor pyrite mineralization and local segregations of magnetite. Much of the carbonate is in the form of veins and veinlets .

425.5 Same as section starting at 360'. High shear, foliation and fracturing 40 to 45oCA. Fairly frequent quartz veins, sometimes with carbonate, varying from 1 to 6" wide. Barren.

600.0 Dark, more homogenious in colour. Core still badly fractured. Rock has more the appearance of an altered fine grained gabbro in many respects. Medium talcose soft. Negligible carbonate Mode-
714.0 rate amounts of fine leucoxene.

714.0 TUFF

Very similar to that occuring in hole # 150, 522 to 539', Massive. Soft. Medium chlorite. Medium to high carbonate. Bedding is highly irregular and in places contorted. Core angles cover a
739.0 very wide range. Bedding all but fades out after 725.'

739.0 VOLCANICS

Dark green. Massive. Fairly hard. Fine grained. Low to medium chlorite. Low carbonate.

745.0 As above - MINERALIZED ZONE

Overall average of 15% pyrite, but locally quite massive. The pyrite is in the volcanics and in only a few places is it associated with carbonate. Often the pyrite is in the form of irregular stringers trending 40 to 30o CA. No chalcopyrite is present.

767.0 As above, only occasional pyrite. Core slightly broken up. Low to medium chlorite. Variable carbonate, negligible to low.

843.0 As above MINERALIZED ZONE

10% Pyrite, no chalcopyrite, otherwise similar to previous zone.

857.0 As above only occasional pyrite. Low to medium chlorite. Variable carbonate, negligible to medium, but generally low. Minor magnetite, low shear, but foliation indefinite, some of carbonate
1002.0 veins trend at 40oCA.

END OF HOLE

DIAMOND DRILL LOG

PORTAGE ISLAND (CHIBOUGAMAU) MINES LIMITED

HOLE NO. P 156 LOCATION Line 750 W 3500N DATE START Oct. 9,1936.

DIP 45o LAT. 9546.5 DEP. 10,205 DATE FINISHED Oct. 22nd,1936.

BEARING N 8o 45' W ELEVATION 12.0' LOGGED BY J.T. THOMSON

DEPTH 610' DIP TESTS 44o @ 250'; 45o @ 500'; 42o @ 700'; 40.5o @ 810'.

FOOTAGE		DESCRIPTION
0.0	4.0	CASING
		ALTERATION ZONE-ANORTHOSITE
		Core badly broken up. 30% missing altogether and recovery on the remainder 40%. Dark blue grey colour. Soft. Somewhat talcose. Medium chlorite. Negligible carbonate. Some leucoxene. High shear,
	69.0	poor foliation but fracturing trends 30 to 50o CA.
69.0		ALTERED VOLCANICS
		Dark green colour. Core slightly broken up. Fine grained. Me-
	86.0	dium chlorite. Negligible to low carbonate.
86.0		TUFF
		Grey coloured. Massive. Soft. Bedding not very distinct but ap-
	96.0	parently trending 20 to 35o CA. Medium carbonate throughout.
96.0		TUFFACEOUS VOLCANICS
		Dark green colour. Soft. Some fracturing of core. Medium chlo- rite. Low to medium carbonate. Occasional short tuffaceous sec- tions with bedding at 50 to 65o CA.
		Note: 132 to 133' thin seam of massive chalcopyrite, associated
	143.0	with carbonate, trending nearly parallel to core.
143.0		GRANITE DYKE
	156.0	Grey coloured. Core quite badly broken up.
156.0		VOLCANICS
		Dark green colour. Massive. Fine grained. Quite hard. Medium green chlorite. Negligible to very low carbonate. Numerous car- bonate. Numerous carbonate and quartz-carbonate veinlets, some times mineralized with minor pyrite and chalcopyrite. More inten- se chalcopyrite occurs in carbonate, sometimes with magnetite from 172.5 to 174.5' 5% cpy; 195.5 to 197.5, 15% cpy; 219.5 to 220.5', 5% cpy. In general the rock appears in places shattered, with carbonate occupying the openings. Low shear, foliation inde- finite, possibly about 45o CA.
	225.0	As above. Negligible mineralisation and carbonate veinlets beco-
	314.0	ming much less frequent. Occasional small magnetite rich bands.
	397.5	Increase in the number of carbonate veins, many of which are vesi- cular.
397.5		GRANITE DYKE
	403.0	Reddish coloured. Core badly broken up.

403.0 VOLCANICS

Fracture zone, core very badly broken up and much core lost, particularly from 453 to 500 feet, overall recovery 75%. Medium chlorite. Negligible to low carbonate. Medium shear but foliation indefinite. Several small white carbonate veinlets containing some chalcopyrite.

500.0 As above but more massive. Recovery 95%. Isolated carbonate stringers with some chalcopyrite. Core slightly vesicular. Medium shear foliation 40o CA at 560'. Very fine magnetite throughout much of the core. 5% pyrite associated with magnetite from 620 to 621.5' Trend of this mineralisation is 45o CA.

633.0 As above but lighter in colour. Hard. Low to medium chlorite, often streaky. Negligible carbonate. In places has a brecciated and sheared appearance. Foliation at 40 to 45o. Section from 650 to 655 is well banded, almost tuff like in appearance, but low in carbonate. Segregations of magnetite are quite frequent.

668.0 As above, chlorite increasing and often quite streaky. Some coarser grained sections. Low shear, some foliation at 50o. Small granite dyke from 699 to 700.5. Minor pyrite and occasional flecks of chalcopyrite.

710.0

710.0 GRANITE

Colour variable, reddish to grey. Slight fracturing of core, but no other evidence of shear. Several carbonate veins from 734 to 736 feet mineralised with 5% pyrite but less than 1% chalcopyrite. Note: Possible altered, porphyry dykes from 748 to 752 and from 810.0 755 to 757.5'. sharp contacts at 40 to 50o CA.

END OF HOLE

DIAMOND DRILL LOG

PORTAGE ISLAND (CHIBOUGAMAU) MINES LIMITED.

HOLE P 158 LOCATION 70'W of L 10W, 3400N DATE STARTED Oct.22,1956.

DIP 45o LAT. ____ DEP. ____ DATE FINISHED Nov. 3rd,1956.

BEARING N 6o 30'W ELEVATION ____ LOGGED BY J.G.Thompson.

DEPTH 1003 DIP TEST 45o@ 250'; 44o@ 500'; @ 750'; 44o @1000'.

FOOTAGE		DESCRIPTION
0.0	30.0	CASING
30.0		ALTERATION ZONE-ANORTHOSITE
		Dark mottled blue grey colour. Soft. Core badly broken up, recovery 80 to 90%. Medium chlorite. Negligible carbonate. Relic and ghost type feldspar laths visable throughout. Moderate amounts of lucoxene. Medium shear but foliation in-
	62.0	definite.
62.0		ALTERED DYKE
		Light grey-brown colour. Fairly hard. Massive. Fine grained homogenious appearance. Indication of foliation at 30o CA. This is a different type of dyke from what is usually found
	84.0	in this area.
84.0		TALCOSE ALTERATION ZONE-ANORTHOSITE
		Grey green colour, slightly lighter than before. Core badly broken up. Medium chlorite. Negligible carbonate. Low talc at first but increasing to medium. Some lucoxene in some section. Fracturing at 45 to 55o for first 25 feet.
	160.0	As above. Slightly more massive but still fractured. Unusual-
	276.0	ly hard. Medium talc. Medium shear, fracturing in many places at 45-50o CA. Becoming badly broken up towards end.
276.0		ALTERED DYKE
		Light green colour. Hard. Massive. Negligible chlorite. Low to medium carbonate. Slightly porphyritic. This same dyke
	279.5	was encountered in P 141, P 143 and P 98.
279.5		TALCOSE ALTERATION ZONE-ANORTHOSITE
	376.0	As above. Becoming less massive towards end.
376.0		ALTERED ANORTHOSITE
		Mottled grey colour. Fairly soft. Core badly broken up. Medium chlorite. No carbonate. Feldspar content variable, but averag-
	453.0	ing 40%, altered relic type laths.
453.0		BASE TYPE INTRUSIVE - PROBABLY GABBROIC
		Similar to section starting 542' in P 150. Massive. Hard. Uniform dark grey colour. Medium chlorite. No carbonate. Some fine lucoxene speckling. Low shear, foliation indefinite, probably 30 to 40o.
	475.0	As above, slightly greenish in colour. Possibly in altered tuff. Some tuffaceous banding trending 45 to 60o. Some carbonate vein- lets have same trend. Medium chlorite. Low carbonate.

496.0 – 508.0 Apparently a quartzose replacement of the above. Light grey colour. Massive. Very hard. Lower contact at 60o.

508.0 **VOLCANICS**

Massive. Uniform dark green colour. Very fine grained. Hard. Medium chlorite. Low to medium carbonate. Frequent small, carbonate veinlets. Granitic section 514 to 517.0 from 544 to 548'. Slightly vesicular. Minor pyrite and chalcopyrite occurs in a couple of small carbonate veins.

553.0 **GRANITE DYKE**

Grey coloured. Massive. Upper contact at 35o. The dyke fades out gradually into volcanics towards end. Some fine pyrite.

563.0 **VOLCANICS**

As above. Some very fine pyrite and occasional chalcopyrite towards end.

584.0 **VOLCANIC-GRANITE COMPLEX**

Volcanics as above with some granitic sections 5% sulfides, mostly pyrite but some chalcopyrite. Moderate amounts of magnetite.

586.0 **MINERALIZED ZONE-ALTERED GRANITE**

Variable sulfides, 15 to 25% mostly pyrite but containing appreciable amounts of very fine chalcopyrite. Some short sections and blebs of massive chalcopyrite occur. Average copper content estimated at 4%.

598.5 **VOLCANICS**

Similar to section starting 508'. Infrequent carbonate veinlets. Only occasional pyrite.

622.0 – 655.0 Core becoming more broken up. Increase in number of carbonate veinlets. Slightly vesicular. Pyrite and some chalcopyrite associated with the carbonate veinlets and also in section of 50% altered granite from 651.5 to 653.0.

655.0 **MINERALIZED ZONE-ALTERED GRANITE**

15% pyrite and 5% chalcopyrite occasionally associated with carbonate, but more often not. The pyrite is usually in the form of massive stringers trending 55 to 60o CA. The chalcopyrite occurs in irregular blebs . Lower contact is at 45oCA.

657.5 **VOLCANICS**

As before. Several massive stringers of pyrite and chalcopyrite, trending 50o CA, occur in the first foot. Short granitic inclusions occur at 659, 661 and 663'.

664.0 **GRANITE**

Salmon coloured type. Several volcanic inclusions. This is more or less just a continuation of the previous zone, except that the granite predominates rather than the volcanics.

671.0 **VOLCANICS**

As before. Massive. Hard. Low to medium chlorite. Low to medium carbonate. Some 3% disseminated pyrite. Low shear, some fracturing at 45o CA.

706.0 **GRANITE**

717.5 Salmon coloured type.

717.5 — VOLCANICS

Lighter in colour. Hard. Very fine grained. Low chlorite.
741.0 Negligible to low carbonate. Low shear, fracturing at 55oCA.

741.0 — GRANITE

752.0 As before.

752.0 — VOLCANICS

759.0

759.0 — GRANITE

768.5 Lower contact at 55o CA. Salmon coloured type.

768.5 — VOLCANICS

Very fine grained. Massive. Hard. Low chlorite. Negligible carbonate. Low shear 50 to 60o. Some short magnetite rich sections. Minor pyrite and chalcopyrite in last three feet
818.0 of section.

818.0 — MINERALIZED ZONE-ALTERED GRANITE

75% sulfides mostly pyrite and 15% chalcopyrite, occurs as blebs and as fine disseminations in the pyrite. Lower contact
820.5 at 50o CA.

820.5 — VOLCANICS

As above. Pyrite with very occasional chalcopyrite occurs fairly frequently. Most of these sulfides occur in the first 15 feet and again from 867 to 874, the latter section being magnetite rich, 6" of good chalcopyrite, associated partly with carbonate and partly with the volcanics occurs at 836'. Low shear, good foliation in places, 50o CA. Several short
1003.0 magnetite rich section.

END OF HOLE.

DIAMOND DRILL LOG

PORTAGE ISLAND (CHIBOUGAMAU) MINES LIMITED

HOLE NO. P 160 LOCATION 100'E of L 750'W, 7560 N DATE STARTED Oct. 23,1956.

DIP 40o LAT. 9626 DEP. 10,297 DATE FINISHED Oct. 30,1956.

BEARING N 9o W ELEVATION _____ LOGGED BY J.C.THOMPSON.

DEPTH 451' DIP TESTS _____

FOOTAGE		DESCRIPTION
0.0		CASING
9.0		GRANITE
	14.5	Salmon pink colour. Quite broken up.
14.5		VOLCANICS
	122.0	Massive. Dark green colour. Fairly hard. Fine grained. Medium chlorite. Medium carbonate at first fading out down the hole. Minor pyrite in first few feet low shear, poor foliation 25 to 30o.
122.0		TUFFACEOUS VOLCANICS
	130.0	As above but with some tuffaceous bands trending 40o CA. Medium carbonate.
130.0		VOLCANICS
		As before. Low carbonate. Fairly frequent, irregular carbonate veins and veinlets, occasionally containing flecks of chalcopyrite.
	154.0	Fracture zone, core quite badly broken up, recovery 80 to 90%, but otherwise as above. Barren except for minor pyrite. Small granite dyke at 334'.
	370.0	More massive. Lighter in colour. Dioritic appearance in places. Low to medium chlorite, Negligible carbonate. Scattered magnetite rich sections. Low shear but foliation indefinite. Minor scattered pyrite and very occasionally chalcopyrite.
	376.0	GRANITE DYKES Light salmon pink colour. 351 to 354.5; and at 367'.
376.0		GRANITE
	451.0	Light grey to salmon pink colour, but usually the former. Fairly massive. Hard. Several short sections of volcanics within the first few feet and again from 440.5 to 446.0. Minor pyrite, low shear, but foliation indefinite.
		END OF HOLE
		NO SAMPLES

DIAMOND DRILL LOG

PORTAGE ISLAND (QUINSUGAMAU) MINES LIMITED

HOLE NO. P 161 LOCATION 220'E of Line 10W 3300 N DATE STARTED Nov.5,1956.

DIP 60o LAT. _____ DEP. _____ DATE FINISHED Nov.15,1956.

BEARING _____ ELEVATION 26.5 LOGGED BY J. G. Thompson.

DEPTH 903' DIP TESTS 54½o -250'; 52o -500'; 750'; 42o-30'-903'.

FOOTAGE		DESCRIPTION
0.0	8.5	CASING
8.5		ALTERATION ZONE- ANORTHOSITE
		Massive. Dark green. Soft. High green chlorite. High carbonate. Abundant fine lucoxene. Medium shear, variable foliation 40 to 55o. Could be a chloritized gabbro dyke.
	33.0	As above. Medium black chlorite. Low carbonate. Lucoxene flecks
	52.0	larger in size, smaller in number. Shearing as above.
52.0		ALTERED GREY DYKE
		Massive. Medium grey. Fine grained. Abrupt contacts 60o CA. Low
	55.0	chlorite. Low carbonate.
55.0		ALTERATION ZONE - ANORTHOSITE
		Same as before dyke, becoming lighter grey in colour. Medium shear, fair foliation 55oCA. Becoming slightly talcose towards end.
	85.0	Same as section 8.5 to 33 feet. Shearing less prominent than be-
	127.0	fore, 40 to 50o. Could possibly be a highly altered gabbro dyke.
	141.0	Light grey green colour. Massive. Fine grained. Medium hard- ness. Medium chlorite and carbonate. Minor lucoxene. Medium shear, variable foliation 40 to 55o. 50% barren quartz 134 to 139.
141.0		TALCOSE ALTERATION ZONE - ANORTHOSITE
		Gradual change from above. Variable colour, grey to black. Soft Core badly broken up recovery 90%. High chlorite. Low carbonate.
	208.0	Highly talcose.
208.0		ALTERED DYKE
		Same as dyke intersected in P 141, P 143 and other recent holes. Light grey green colour. Massive. Hard. Low chlorite and carbo- nate. Slightly porphyritic. Upper contact sharp at 90o. Lower
	219.0	contact contains 65% quartz veins from 217 to 219.
219.0		TALCOSE ALTERATION ZONE - ANORTHOSITE
		Slightly darker in colour than before. Core badly broken up reco- very 80%. High shear, foliation indefinite 40 to 50. Small dyke 265 to 266. Contacts at about 90o CA. Similar to dyke from 52 to 55 feet. Another small dyke fragment occurs at 267'.
	280.0	Slightly less talcose and core more massive, but otherwise as above.
	331.0	Same as section preceding 280.0. Recovery 90%.
	354.0	Same as section 280.0-331.0
	478.5	Note: Quartz vein, barren, 358 to 360.5 and ½ foot quartz at 365.

476.5		ALTERED GREY DYKE
	482.0	Massive. Hard. Low chlorite. Low to medium carbonate. Very dense, almost glassy in places.
482.0		TALCOSE ALTERATION ZONE - ANORTHOSITE
		Fairly massive. Dark colour. Slightly less talcose. High black chlorite. Possible altered dyke 486-499. Low carbonate.
	495.0	As above. Core badly broken up recovery 80%. Increasingly talcose.
	573.0	High shear, poor foliation but consistent fracturing 45 to 55o CA.
573.0		ALTERED GREY DYKE
		Dark grey colour. Hard. Low chlorite. Low carbonate. Upper contact 30o.
	575.0	
575.0		TALCOSE ALTERATION ZONE
	592.0	Same as before the above dyke.
592.0		TUFFACEOUS VOLCANICS
		Bedding not too definite except from 601 to 603. Bedding and fracturing 55o. Low chlorite. Low carbonate.
	603.0	
603.0		VOLCANICS
		Dark green. Fine grained. Massive. Medium hard. Low to medium chlorite. High carbonate. Very homogenious in appearance. Occasional pyrite associated with infrequent carbonate veinlets. Disseminated pyrite from 701 to 709, and over other short sections. Minor chalcopyrite in small quartz carbonate stringer at 754 and 774.
	763.0	Decrease in carbonate content. Minuit carbonate fracture fillings in several places. Small carbonate stringer with minor chalcopyrite at 835. Local concentrations of magnetite making core slightly darker in colour.
	903.0	
		END OF HOLE
		NO BAFFLES

DIAMOND DRILL LOG

POINTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

P - 165

DIP 45° BEARING 7° 30' W. DEPTH 898'

LOCATION Approx. 145 ft. W of L 10 W 8400 N

LAT. 9412 DEP. 9854 ELEV. 10.4

DIP TESTS 250 ft. - 45°; 500 ft. - 45°; 750 ft. - 45°; 893 ft. - 43°

STARTED Nov. 19/56 Finished Dec. 3/56 Logged By J. A. Pearce

FOOTAGE		DESCRIPTION
0	35.0	CASING
35.0		TALCOSE ALTERATION ZONE ANORTHOSITE
	193.0	Grey green colour, medium to high chlorite negligible carbonate, high talc. Lucoxene present in some sections. Core badly broken up, 85% recovery. No definite shear or foliation fracturing indefinite. Relics and ghost type feldspar laths visible throughout. Quite plain in some sections grading to very obscure. 41.0 - 59.0 numerous quartz carbonate stringers to 4" in length composing 30% of core. Widely scattered sections, up to 6" in length where there is complete chlorite replacement. However, this is still contained in a highly talcous zone.
193.0		ALTERED GREY BROWN DYKE
	195.5	Upper contact indefinite, lower contact 60° to CA. Medium hard seems to have flow structure and contains anorthositic structure i.e. visible relic type feldspar laths.
195.5		TALCOSE ALTERATION ZONE ANORTHOSITE
	230.0	As previously described.
230.0		GREY GREEN DYKE (Porphyritic)
	247.0	Darker at start grading to very light green. Mainly quartz, very hard, negligible chlorite and carbonate. Minor disseminated pyrite throughout. Upper contact obscure, lower contact 70° to CA.
247.0		ALTERED GREY BROWN DYKE
	248.5	Same as dyke 193 - 195.5 Upper contact 70° to CA, lower contact 60° to CA.
248.5		TALCOUS ALTERATION ZONE ANORTHOSITE
	316.0	As described previously. After 296.0 becomes darker in colour and chlorite content becomes fairly high. Fracturing is more consistent averaging about 60° to CA. Core recovery is better, approximately 95%. Talc content seems to drop off slightly.

FOOTAGE | DESCRIPTION

516.0 TALCOUS ALTERATION ZONE ANORTHOSITE AS ABOVE CONTAINING NUMEROUS LIGHT GREY GREEN ALTERED DYKES

Dykes are medium hard, negligible carbonate, low chlorite.

Footages		Upper Contact	Lower Contact
316	317	obscure	60°
318	322	obscure	60°
330	331	85°	obscure
341	343	obscure	60°
350	352	obscure	50°
354	357	obscure	obscure

357.0

357.0 TALCOUS ALTERATION ZONE ANORTHOSITE

Same as above - chlorite content varies after 384.0 from medium to high. Colour is light green to grey grading into a darker colour after 390.0. Lucoxene becomes orange in colour but changes back to a grey after 400.0. Talc content seems to drop off and core recovery is about 95%, however, core is still badly broken up. Ghost and relic type feldspar laths are not as apparent in this section.

468.0

468.0 ALTERED DYKE

Cream grey in colour contains sections of altered anorthosite. Some sections more anorthositic than dyke rock. Upper and lower contacts indefinite due to alteration and badly broken ground.

477.0

477.0 TALCOUS ALTERATION ZONE ANORTHOSITE

Similar to previously described anorthosite. Contact with volcanics in broken ground. Formation grade into one another.

482.0

482.0 VOLCANICS

Light green in colour at beginning of section, slightly altered. Medium to high carbonates, medium to low chlorite, fairly hard. Flow structure and fracturing 50° to CA. Pyrite mineralisation is disseminated and stringer type. The odd bleb of chalcopyrite is visible, however, not in an appreciable amount.

492.0 Volcanics as above becoming darker in colour, higher chlorite content. Scattered veins of carbonate up to 2" in width containing disseminated pyrite and some chalcopyrite.

523.0

523.0 MINERALIZED ZONE (ALTERED GRANITE WITH VOLCANIC SECTIONS)

Variable sulphides up to 20% mostly pyrite but contains an appreciable amount of chalcopyrite especially between 525 - 527. Chalcopyrite concentration in the altered granite rather than the volcanic sections. Mineralization drops off after 527 and there are intermittent barren sections up to the end at 535.0.

535.0

FOOTAGE		DESCRIPTION
535.0		VOLCANICS
	564.0	As previously described. Carbonate filled fractures become numerous, but contain little or no mineralization.
564.0		MINERALIZED ZONE (ALTERED GRANITE WITH VOLCANIC SECTIONS)
	574.0	Mineralisation variable up to 25% sulphides. Pyrite with appreciable chalcopyrite. This section is much the same as the one previously described. Mineral concentration is between 564 - 570 which is nearly all altered granite. 570 - 574 mineralisation mostly pyrite in the volcanics.
574.0		VOLCANICS
	583.0	As previously described. Carbonate fracture fillings not as frequent but some contain pyrite and minor chalcopyrite mineralisation. From 481.0 to 482.0 trend of pyrite mineralisation and flow structure 40° to CA.
	634.0	Volcanics as above but more blue green in colour. Medium chlorite and carbonate. Some very fine lucoxene present.
634.0		ALTERED TUFF
	678.0	Medium green colour with lighter banding. The banding varies throughout section from quite pronounced to very obscure. Medium carbonate, low to medium chlorite, fairly soft. Banding fracturing is at 45° to 50° to CA.
678.0		GRANITE DYKE
	687.0	Salmon pink in colour. Hard, no definite shear or foliation. Upper contact obscure, lower contact ground.
687.0		VOLCANICS
	747.0	As previously described. Numerous carbonate filled fractures throughout this section. Colour is medium green. Low carbonate, medium chlorite.
	767.0	Volcanics as above but containing numerous small vugs in the volcanic proper and in the carbonate stringers or fracture fillings. Some of the carbonate stringers contain minor disseminated chalcopyrite mineralisation.
	778.0	Vuggy section ends and volcanics are as previously described. At 778 there is a one inch stringer of disseminated chalcopyrite.
	800.5	Volcanics as above, but slightly brecciated or altered. Fracturing 45° to 50° to CA. Minor pyrite and chalcopyrite mineralisation throughout.
800.5		MINERALIZED ZONE (BRECCIATED VOL.)
	837.5	Light cream in colour with medium green matrix. Breccia fragments fairly well pronounced. Mineralisation is pyrite and moderate chalcopyrite. At the start of the section mineral content is low, to medium over short sections. From 807.0 - 811.5 massive pyrite and chalcopyrite
837.5		VOLCANICS
	898.0	As previously described. Medium green in colour. After 879.0 become slightly brecciated with light coloured fragments. These are rather obscure over most sections, could be called agglomerate.

END OF HOLE.

File

DIAMOND DRILL LOG

PORTAGE ISLAND (CHIBOUGAMAU) MINES LTD.

P 172

DIP 45° BEARING ~~N. 7° 30' W.~~ N 11° W DEPTH 803.0'

LOCATION Approx. 1180 W. - 3680 N.

LAT. 968.16 DEP. 980.19 ELEV. 0.0'

DIP TESTS 250 ft. - 40°; 500 ft. - 41°; 800 ft. - 36°

STARTED Jan. 24/57 COMPLETED Feb. 2/57 LOGGED BY J. A. Pearce

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FOOTAGE		DESCRIPTION
0.0	65.0	CASING
65.0		TRANSITION Rock
		Definitely on anorthosite side. Considerable chloritization and sericitation of the soisite. Where soisite laths are visible they are relic type. Colour is a grey green to grey blue depending on chlorite and sericite content. Negligible carbonate, considerable leucoxene present. Good foliation. At 98 feet foliated at 45° to CA. At 125 feet foliated at 50° to CA.
	135.0	As above, but darker grey blue, higher chlorite content. Foliation is now quite obscure. Core is more broken, but core recovery still good. 210.2 - 211.0 - quartz vein. 248.0 - 249.0 possibly dyke. Very similar to host rock.
	266.4	Upper contact 40° to CA., lower contact 50° to CA.
266.4		DYKE (TYPE INDEFINITE)
		Light grey green with a few scattered dark green specs. Fairly hard, negligible carbonate or chlorite. Upper contact broken, lower contact obscure.
	271.6	
271.6		TRANSITION ROCK
		As previously described.
	305.2	276.5 - 283.0 lost core.
305.2		DYKE (TYPE INDEFINITE)
		Identical to one previously described. Dark green specs much plainer, may be chloritoid. 309.5 - 310.2 - several large white crystals appear to be ghost type feldspar laths. Slight amount of disseminated pyrite throughout section.
	313.5	
313.5		TRANSITION ROCK
	362.5	As previously described.
362.5		LIGHT GREY DYKE (DIORITIC)
	364.0	Very hrad, massive.

FOOTAGE		DESCRIPTION
364.0		TRANSITION ROCK
	387.0	As above but grading to the volcanics. Some relic type feldspar laths visible.
387.0		TUFFACEOUS VOLCANICS
	394.5	Light to medium green in colour, high chlorite, low carbonate. Medium grained texture, shear visible on broken surface. Banding at 60° to CA.
394.5		GRANITE DYKE
	426.0	Salmon pink to grey green in colour. This section is predominantly granite containing short volcanic sections. Some of the granite is quite altered, especially near volcanic contacts. A moderate amount of disseminated pyrite is contained throughout.
426.0		VOLCANICS
	475.5	Medium green in colour. High chlorite, medium to high carbonate. Medium grained, shearing visible on broken surface only. Fairly soft. There is the odd carbonate stringer present. Mineralisation consists of wide spread stringers of disseminated pyrite. At 430.0 and 471.0 there is a small amount of chalcopyrite associated with carbonate stringers.
475.5		GRANITE DYKE
	486.0	Salmon pink in colour. Moderately mineralized with disseminated pyrite . Both contact indefinite.
486.0		VOLCANICS
	557.3	As previously described. Slightly altered near contact to granite dyke. Slight increase in the number of carbonate stringers.
	558.7	557.3 - 558.7 - Mineralized zone consisting of about 60% pyrite with a small amount of chalcopyrite. This zone appears banded or slightly tuffaceous, also there is white quartz and pink carbonate associated with the mineralisation.
	572.0	Volcanics as before but lightly altered. Appear to be brecciated, possibly an agglomerate. There are indefinite lighter fragments in a medium green matrix. This has been noted in previous logs of the volcanics, however, in this case it is not as pronounced.
	684.0	Volcanics as above but containing some epidote stringers and veinlets. No estimated amount. There is also a small amount of magnetite present. This section is fine grained and there is very little evidence of shearing. 626.0 - 626.8 - Quartz carbonate stringers. 629.3 - 631.0 - " " " " 658.5 - 659.6 - " " " " The latter two contain blebs of chalcopyrite and some fine pyrite. Contacts are either broken or indefinite. 696.5 - 699.6 Epidote comprises approximately 50% of core.

POOR CORE

DESCRIPTION

724.0 Mineralised zone - Mainly pyrite with appreciable magnetite, combined representing about 20% of core. Matrix is light in colour, medium hard, does not react to acid. Appears as fragments, could be called breccia.

725.7 Volcanics as before, but containing numerous carbonate stringers representing approximately 10% of core.

As the volcanics nears the granite, it takes on a brecciated or agglomeritic appearance as described in section between 558.7 to 572.0. However, in this core fragments are more distinct.

765.5 Volcanics very light in colour. Lighter fragments comprise most of the core.

771.0 770.0 - 771.0 - quartz carbonate stringer.

771.0 GRANITE

Grey in colour, rather fine grained for first 11 feet. It then becomes medium grained and has a slight salmon pink
803.0 colour.

END OF HOLE.

ASSAY RESULTS

Sample No.	Footage	Width	Description	CU.	AU.
6343	556.5 - 559.0	2.5'	Mineralized Volcanics		

DIAMOND DRILL LOG

POSTAGE ISLAND (ONT.) MINES LIMITED

P 17h

DIP -45° BEARING North DEPTH 677.0

LOCATION 1055 W. - 3675 N.

LAT. 9693.17 DEP 9916.57 ELEV. 0.0

DIP TESTS

STARTED Feb. 3/57 COMPLETED Feb. 10/57 LOGGED BY R.B. Graham
J.L. Pearce

FOOTAGE		DESCRIPTION
0 -	65.0	CASING
65.0		TRANSITION TYPE ANORTHOSITE
		65 - 70' - Quistose and sericitic, minor pitting suggestive of leaching. At 76.0 shearing at 45° to CA. 100 - 105.5 - As from 65.0 to 78.0. At 105.5 shearing at 30° to CA. The transition anorthosite is greyish black. The black colour being due to chlorite. Ghost fragments visible but sparse. Leucoxene content erratic but overall 10% to 15%. Leucoxene, buff in colour. 142.0 - 269.0 - Transition rock becomes lighter grey, total replacement of fragments, sericite - chlorite - leucoxene - aggregate. Moderate foliation throughout. At 147.0 foliation at 55° to CA. At 167.0 foliation at 55° to Ca. At 198.0 foliation at 40° to CA. At 221.0 foliation at 40° to CA. At 253.0 1 inch bleb of pyrite. 253.0 - 265.0 - weak pyrite mineralization, as blebs up to 1 inch in length ¼ inch in width overall content 1% to 2%.
	269.0	
269.0		TUFF
		From 269.0 - 291.5 - Light grey to creamy grey banding alternating with green chlorite rich bands. Banding locally crenulated and brecciated. Carbonate content high. Scattered specs of pyrite and chalcopyrite, less than 1% sulphides. At 283.0 bedding at 52° to CA.
	291.5	
291.5		ANDESITIC VOLCANICS
		291.5 to 280.5 green chloritic andesitic volcanics, relatively massive. 5% veinlets and fracture fillings of white carbonate. Sections in between also carbonatized. Approximately 1% pyrite with minor chalcopyrite associated with carbonate veinlets and as disseminations. 302.3 - 324.0 - 15% pyrite, 1% chalcopyrite. A few quartz veinlets are present. ("A" Zone)
	380.5	
380.5		TUFF
		380.5 - 384.3 - Tuff as from 269.0 to 291.5.
	384.5	At 383.0 bedding at 50° to CA.

FOOTAGE		DESCRIPTION
384.3		ANDESITIC VOLCANICS
		384.3 - 402.5 - Green massive chloritic fine grained andesite. Blebs of pinkish carbonate at 386.0.
		396.5 - 398.5 - pinkish carbonate replacement. Very fine pyrite
	402.5	chalcopyrite approximately ½%.
402.5		GRANITE
		402.5 - 411.2 - Greyish green contaminated granite gradational contact
	411.2	with volcanics.
411.2		ANDESITIC VOLCANICS
		411.2 - 461.0 - Volcanics blotchy on broken surface, but have a massive appearance on the unbroken core face. Andesite cut by white carbonate oriented various directions to the CA., overall content 25%. Some fractures coated with hematite.
		438.0 - 450.0 stringers of pyrite up to ½ inch in width with associated chalcopyrite, throughout this section. At 439.0 a ½ inch bleb of magne - tite cut by chalcopyrite in a grey carbonate matrix. Overall sulphide
	461.0	content 8%.
461.0		GRANITE
		461.0 - 477.5 - Greenish pink contaminated granite. Contacts gradational
	477.5	with the volcanics.
477.5		ANDESITIC VOLCANICS
		477.5 - 529.0 - Chloritised as from 411.2 - 461.0. Granitised sections at 489.0, 504.0, 513.0.
		Pink & grey carbonate stringers throughout comprise 30% of core.
		1 inch magnetite bleb at 487.9.
		At 485.0 to 486.3 6% chalcopyrite
		At 486.5 - 486.8 0% "
		At 504.0 - 504.4 3% "
		Core between above sections barren.
		From 506.0 - 529.0 5% combined pyrite and chalcopyrite. Chalcopyrite content estimated at less than ½%. Core is strongly magnetic throughout
	529.0	this section.
529.0		GRANITE
		529.0 - 550.1 - Greyish green medium to coarse green granite. Contact
	550.1	gradational over 0.1 ft. The granite is sericitised.
550.1		ANDESITIC AGGLOMERATE
		550.1 to 651.5 - Green chloritised andesitic volcanics, brecciated structure could be agglomeritic.
		625 to 627.5 - Tuff bed.
		At 626.0 bedding at 50° to CA.
		Section throughout mineralised with pyrite, chalcopyrite and local magnetite. Overall sulphide content 15% but local sections up to
	651.5	3.1 ft. contain 60%. (40° Zone)
651.5		GRANITE
		651.5 - 677.0 - Grey granite medium coarse grained.
	677.0	651.5 - 667.0 - Blebs of chalcopyrite estimated at less than ½% copper.
		END OF HOLE.