Ida Claims
Report on
Exploration and Diamond Drilling for 1972
For
Garnet Exploration Corporation Ltd.

92L 12

M.R. Swanson, M.Sc.
J.G. Simpson, Ph.D., P.Eng.

Oct. 1972

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TABLE OF CONTENTS

SUMMARY

Four helicopter/drill sites were cut out on the southern portion of the Ida claims. A BBS-1 drill using AQ tools was flown in by helicopter and five holes totalling 2,699 feet were drilled to test targets established during the detailed surface exploration program done by Garnet Exploration Corporation Ltd. during 1971. Geological mapping and a magnetometer survey were run on an additional 20 claims staked during March and February, 1972, adjoining the original claims on the east.

The drilling of the altered and pyritized zones showed that pyrite is widespread throughout the volcanic rocks and increases 3 to 5 times in fault and shear zones. Although no significant copper mineralization was intersected DDH 445-72-1 was anomalous in respect to the other holes drilled in that the overall pyrite content and degree of alteration and quartz/calcite veining was much greater. In addition results of core samples submitted for spectrographic analysis also show a higher background in copper and two distinctive peaks, at 1200 and 650 ppm Cu, over ten foot lengths. Tests for fluorine and mercury are inconclusive although the last ten feet of DDH 72-1 carries a five times background mercury content at almost 1000 ppb.

INTRODUCTION

Between April 12 and May 22, 1972, drill sites were located, and fallers were contracted to cut helicopter sites on the heavily timbered property. A camp was set up at one of the drill sites and drilling commenced on April 29, 1972. The planned project was completed by May 21, 1972.

Geological mapping and a magnetometer survey were run over the additional Ida claims staked.

Four drillers, a cook, a magnetometer operator and general fieldhand worked under the supervision of M. R. Swanson and the camp was serviced by Vancouver Island Helicopters Ltd.

LOCATION AND ACCESS

The Ida property totalling 78 full and 2 fractional claims lies just north of Apple Bay on the east end of Holberg Inlet, northern Vancouver Island, at latitude 50°-38'N and longitude 127°-42'W within the Nanaimo Mining Division.

Access to the property is by foot along the beach or by power boat from Coal Harbour, four miles east of Apple Bay. Helicopter service from Port Hardy airport is available, the distance being 15 miles southwest to the property.

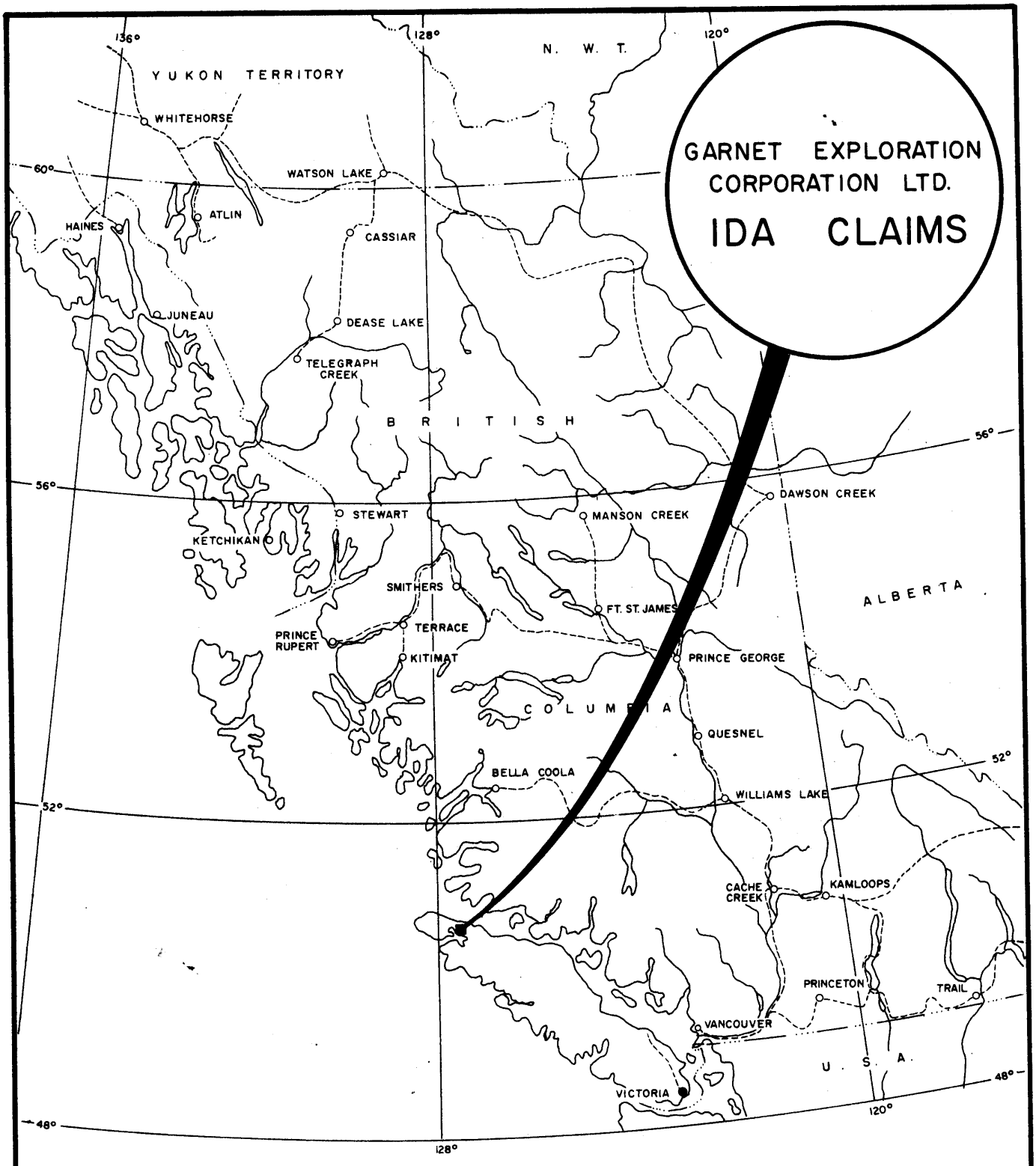
The terrain slopes south into Holberg Inlet with an east-west striking ridge forming the high ground at 850 feet elevation and running across the central part of the claims. The property is covered by dense underbrush and a large commercial stand of red and white cedar, hemlock, spruce and balsam.

PREVIOUS WORK

During October 1971 Garnet Exploration Corporation Ltd. under an option agreement from the vendors, Messrs. Storey, Leighton and Stokes, carried out surface exploration of the Ida claims. A north-south grid was cut along an east-west baseline. Lines were spaced 400 feet apart with chained stations every 100 feet to facilitate geochemical sampling, magnetometer surveys and geological mapping.

The magnetometer survey revealed a double lobed high in the south-west corner of the property. This anomaly straddles an altered zone, which is coincident with a prominent east-west fault zone.

A weak, narrow, geochemical copper anomaly strikes east-west and lies across the southern portion of the property. It is straddled by the above noted magnetic anomaly and coincident with the major east-west fault zone. Sporadic molybdenum values were considered insignificant.



PROPERTY LOCATION MAP

BRITISH COLUMBIA

SCALE : 1" = 125 MILES

inches
0 1
0 1 2
centimetres

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

The geological mapping outlined an alterated and pyritized zone adjacent to a postulated east-west to west-northwest striking fault, roughly paralleled by a high frequency I.P. effect.

The above noted geochemical copper anomaly and coincident pyritized fault zone and I.P. anomaly were considered a significant target area in the context of Island Copper type orebodies.

WORK PROGRAM

During February 1972 the block of WIZ claims adjoining the Ida claims on the east expired. Twenty of these were restaked as Ida 23 to 44 and Ida 51 to 54 by L. L. Storey, one of the original vendors of the Ida property, and under the terms of the agreement thus become part of the option.

The 1972 program included the drilling of five AQ holes for a total of 2,699 feet and the geological mapping and magnetometer survey of the newly staked ground.

GEOLOGY

As stated in the 1971 assessment report for the Ida claims (Simpson, J.G. and Swanson, M.R.) the northern half of the property is underlain by a granitic to granodioritic intrusive of Jurassic age, while the southern half of the property is covered by Triassic to lower Jurassic Bonanza volcanics. From examination of the drill core and additional mapping it was found that the volcanic sequence on the Ida claims consists of andesitic flows, one of which contains magnetite and breccias, tuffs and tuffaceous agglomerates, all of which are easily weathered and change rapidly in texture and composition both laterally and vertically.

A predominant west-northwest striking fault system with apparent vertical movement is offset by a northeast strike slip system. The earlier west-northwest system is well pyritized along a parallel zone of argillic and less intense alteration often extending some hundreds of feet outwards from the fault.

A zone of siliceous breccia which appears to strike roughly east-west in the southern part of the property was drilled and found to be associated with a steeply dipping, barren quartz vein some twenty to forty feet in width and of no economic significance.

MAGNETOMETER SURVEY

A Sharpe Fluxgate Model MF-1 magnetometer was used on the existing grid over the old WIZ claims. The lines are 400 feet apart and readings were taken every 100 feet along the lines. The survey outlined the continuation

of the small magnetic high that was building up just south of the Ida baseline on the eastern portion of the original Ida claims. This anomaly as well as the double lobed anomaly on the southwest portion of the property appears to be caused by a relatively unaltered magnetite-rich andesitic flow. No other anomalies were indicated on the new claims.

DIAMOND DRILLING

The diamond drill holes were located as indicated below and drilled using a BBS-1 and AQ wireline tools. Full geological and graphic drill logs are included at the back of this report. Representative chip samples were taken for each 10 feet of core for analytical checks on mineralization trends. The holes drilled are summarized as follows:

DDH No.	Location	Azimuth	Dip	Started	Finished	Depth
445-72-1	30 + 00S 45 + 00E	180°	-60°	Apr. 29/72	May 3/72	596'
445-72-2	43 + 00S 47 + 50E	025°	-60°	May 5/72	May 7/72	474
445-72-3	43 + 00S 47 + 50E	180°	-45°	May 7/72	May 9/72	600
445-72-4	20 + 50S 15 + 75E	180°	-45°	May 12/72	May 17/72	586
445-72-5	41 + 00S 31 + 75E	180°	-60°	May 18/72	May 21/72	443
					TOTAL	2699'

DDH 445-72-1

The first hole was sited just north of a well altered and heavily pyritized surface exposure of andesitic material which was partially coincident with a small geochemical copper anomaly. The soil copper anomaly (145 ppm Cu) has a high magnitude for the property (threshold 70 ppm). The hole penetrated a pile of variable volcanic flows and tuffs some of which were in fault contact. Numerous small faults and wider shear zones with attendant alteration and slight increase in pyritization were also noted. A major fault zone at 580 feet stopped the hole after about 15 feet of clay gouge containing a high proportion of pyrite. This fault projects from the surface mapping and correlates well to the postulated near vertical dip. Two small specks of chalcopyrite were seen in massive pyrite veins along shears at 175' and 223'. Calcite veining and minor silicification were noted at intervals along the core.

DDH 445-72-2

DDH 445-72-2 was drilled in a northerly direction within the general zone of high pyrite content and rich alteration to the south of the terminal fault located in hole 445-72-1. The hole collared off in a siliceous breccia zone similar to that mapped along strike to the west. After about 75 feet and to the end of the hole a somewhat different volcanic sequence from that in the first hole was encountered and consisted mostly of pale green agglomerate with 2-3% pyrite. A direct correlation between fault and shear zones and increased pyrite content was established in this hole and persisted through the remaining holes 72-2 to 5. No chalcopyrite was observed, and the hole was stopped at 474 feet due to the lack of alteration or mineralization.

DDH 445-72-3

In order to cross section the broad alteration zone mapped, DDH 72-3 was drilled from the same location as DDH 72-2 but directed to the south at a flatter angle. Also the presence of the high silica content in the first 70 feet of DDH 72-2 was of interest. But like DDH 72-2 the only silica encountered in DDH 72-3 was in the first few feet of the hole. The same volcanic sequence held, with increase in pyrite content as faults were approached, as was noted in DDH 72-2.

DDH 445-72-4

The most northerly feature of the double lobed magnetic high lying in the southwest portion of the property was selected as a drill target from comparison with the magnetic configuration in the vicinity of Utah International's Island Copper deposit and the association of an east-west trending weakly developed copper soil geochemical anomaly. The hole was drilled entirely in a massive green andesite with disseminated magnetite (2-5%). The pyrite content was very low, usually less than 1%, except in a sheared zone and an adjacent and deeper biotite zone, which contained 2-5% pyrite in veins and disseminations. No chalcopyrite or pervasive alteration were observed and the hole was stopped at 586' due to poor progress and discouraging geology. The magnetic anomaly appears to result from the visible magnetite and the geochemical copper anomaly could well be associated with a small fault zone encountered near the top of the hole, which probably carries very minor chalcopyrite. The other magnetic anomalies are in all likelihood faulted blocks of this same massive magnetic andesite.

DDH 445-72-5

This hole was collared just north of the previously noted siliceous breccia zone. This was intersected between 150' and 250' down the hole, in the form of barren, massive, quartz veining. The hole bottomed in agglomerate similar to that in holes DDH 72-2&3 and was probably collared higher in the

same sequence, being preceded by a hematitic agglomerate and coarse crystal tuff horizon. Pyrite content was low except in and adjacent to faults. The agglomerate at the bottom of the hole carried 1-2% pyrite as did the same agglomerate in DDH 72-2&3. With such consistency in pyrite content in a given volcanic bed over the area drilled it might be assumed that the pyrite was originally syngenetic and has been mobilized and concentrated along the large fault zones. No chalcopyrite or pervasive alteration were intersected in this hole.

ROCK GEOCHEMISTRY OF CORE SAMPLES

Three types of samples were taken from the core; these were core splits of ten foot sections in heavily pyritized zones, representative chip samples along ten foot sections of all the core recovered and selected samples of pyrite veins and accumulations.

All chip and selected samples were analysed spectrographically and results quoted in parts per million, while half core splits were run by normal laboratory methods for total metal content. Selected samples were assayed for copper, molybdenum and fluorine; the latter being considered a possible indicator for copper mineralization in this environment. Continuous chip samples were tested for copper in all the holes drilled and in addition fluorine and mercury were run on core from DDH 72-1. The half core splits were assayed for copper, and in some cases gold and silver. All results obtained are included in the detailed logs at the rear of this report together with graphic plots of the ppm copper content.

Basically the results obtained for copper indicate normal background and distribution for this element in andesitic rocks. However, hole DDH 72-1 is anomalous by comparison with the other four. The presence of excess and increasing amounts of pyrite, quartz and calcite veining and the high mercury value obtained from the last few feet of this hole add to the interest of this location. Fluorine appears to be relatively undiagnostic from the results obtained except to show a general antipathetic relationship with above average copper values. Further testing of samples from the vicinity of the known ore-bodies in the area will be required for both fluorine and mercury before any serious use of these elements can be attempted.

CONCLUSIONS AND RECOMMENDATIONS

Results of the drilling to date have proved disappointing in that no significant copper mineralization has been intersected. There is a strong indication that the bleaching and argillic alteration of the andesites noted in previous reports, and also to some extent the pyrite content of the andesites, is closely linked to the presence of major or at least significant faults and

fault zones. It is equally likely that much of the pyrite is syngenetic in origin and has reacted to subsequent metamorphism and deformation by migration and concentration along selected horizons within the volcanic pile and fault zones. However, in this environment the question remains as to what caused the necessary remobilization, as the amounts noted would certainly be very abnormal for syngenetic pyrite in andesites. The positive mineralizing effect of porphyritic intrusives at Island Copper and, although not published, almost certainly also on the Expo ground to the west of Ida, would provide an ideal situation for the location of a sheared and faulted highly pyritized zone in which argillic alteration would be readily achieved. The general lack of outcrop throughout the Port Hardy belt and relatively subtle indicators existing over known mineralized zones in the area, suggests that careful evaluation of data is imperative for success in the area.

Further investigation of the possibilities of fluorine and mercury as mineral indicators in this environment is recommended, with follow up in the vicinity and to the east of DDH 72-1 if promising results on test samples from known deposits in the area are obtained.

Appendix (i)

Diamond Drill Logs

Diamond Drill Record

COLLAR:		HOLE SURVEY		
		FOOTAGE	AZIMUTH	DIP
NORTH	30+00S	0	180°	-60°
EAST	45+00E			
ELEVATION	600'			
LOGGED BY	M.R. Swanson			
DATE LOGGED	Apr 29-May 3			
MAP REFERENCE NO.	92 L/12	METHOD:	None	

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME IDA CLAIMS
DRILLING CONTRACTOR D.W. Coates Enterprises Ltd.
ASSAYER Bondar-Clegg - Rock Geochem/10 ft.
PURPOSE OF HOLE Test P.P.K. I.P.; Garnet Geol & Geochem

HOLE NO. 445-72-1 AQ
CLAIM NAME IDA 93
COMMENCED April 29/72 p.m.
FINISHED May 3/72 a.m.
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	CHIP SAMPLE FROM	TO	WIDTH	NO.	GEOCHEM ASSAYS PPM Cu	Mo	F		OBSERVATIONS Frac Ft	Pyr %	Alt
0	25	0	Overburden	25	35			84						
				35	45			32						
25	47	100%	Gray-Green Andesite Porphyry:	45	55			32				4/ft	3-5%	2
			Feldspar (Plagioclase) phenocrysts. Well	55	65			27						
			fractured with quartz veinlets. Pyrites	65	75			58						
			occur along hairline fractures with quartz	75	85			91						
			veinlets and as disseminations 3-5 mm in	85	95			105						
			size. Epidote is present occasionally as	95	105			19						
			replacement pseudomorphic phenocrysts.	105	115			19						
			Alteration is low propyllitic. Late shears	115	125			24						
			cut quartz-pyrite veins with argillic	125	135			15						
			alteration one foot either side of shear	135	145			15						
			zone. Minor hornblende occurs as occasional	145	155			11						
			phenocrysts.	155	165			62						
47	57	100%	Same as above: Late shear zone	49'			Chip	160	8	112				4
57	97	100%	Same rock as 25'-47'	165	175			175						2
				175	185			145						
				185	195			215						
				195	205			1200						

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 445-72-1 AQ
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	CHIP SAMPLE FROM	TO	WIDTH	NO.	GEOCHEM ASSAYS PPM Cu	Mo	F		OBSERVATIONS Frac/ft	Est % Pyr	Alt'n
97	117	100%	Gray-Green Andesite Porphyry:	205	215			56				4/ft	3-5%	2
			Silica-Argillic alteration zone. Late shearing	215	225			11						
			appears to have remobilized quartz & pyrites, or	225	235			28						
			pyrites, is post-shear as pyrites occur along	235	245			33						
			joints, disseminated as well as being concentrated	245	255			81						
			along shear planes.	255	265			105						
117	133	100%	Gray Hornblende Andesite Porphyry:	125'			Chip	53	4	384		1-2/ft	2%	2
			Moderate fracturing (more competent rock),											
			less Pyrites and quartz veining	265	275			210						
				275	285			305						
133	141	100%	Same rock as above:	285	295			680				6/ft	1%	4
			More intensely fractured; propyllitic alteration	295	305			62						
			with veinlets & disseminations of pyrites - minor	305	315			135						
			quartz veining	315	325			64						
				325	335			56						
141	148.5	100%	Same rock as above:	335	345			62				2-3/ft	1-2%	2
			Less intensely (moderate) fractured	345	355			69						
				355	365			48						
148.5	149	100%	Fault Zone:	365	375			21						7
			Minor Argillic Alteration	375	385			22						

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 445-72-1 AQ
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	CHIP SAMPLE FROM	TO	WIDTH	NO.	GEOCHEM ASSAYS PPM Cu	Mo	F		OBSERVATIONS Frac/ft	Est % P_{yR}	Alt'n
149	155	100%	Gray Hornblende-Plagioclase Andesite Porphyry:	385	395			42				1/ft	0-1%	2
			Moderate fracturing with minor quartz veins	395	405			27						
			and little to no pyrites	405	415			145						
				415	425			71						
155	185	100%	Green Andesite - Flow Breccia:	425	435			61				3/ft	3-5%	2
			Mottled looking as breccia fragments are 5-25 mm	435	445			140						
			in size. Well fractured with criss-cross pattern	445	455			74						
			of quartz veining & pyrites earlier on hairline	455	465			84						
			fractures and disseminated as replacements around	465	475			64						
			darker fragments. Some rounded quartz eyes are	475	485			92						
			present. Could be later. Propyllitic alteration.	485	495			140						
				495	505			69						
185	190		Same rock as above:	505	515			105						4
			Incipient argillic alteration adjacent to fault zone	515	525			51						
190	249	100%	White Quartz-Chlorite Porphyry: with Andesite Xenoliths	223'			Chip	5200	10	80		4/ft	3%	3/9
			Moderately fractured with quartz veins and											
			pyrite veins as pyrites as replacement of mafic	525	535			145						
			mineral with chlorite & minor epidote	535	545			84						
				545	555			51						
				555	565			15						

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 445-72-1 AQ
CLAIM NAME
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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS Mo	ASSAYS Cu	ASSAYS Au	ASSAYS Ag	OBSERVATIONS Fract/ft	OBSERVATIONS Est % Pyr	OBSERVATIONS Alt'n
249	269	100%	Green Adesite Flow Breccia:	220	230	10	3101		0.04			3/ft	2%	2
			Moderately fractured with less disseminated	230	235	5	3102		0.01					
			pyrites - mostly in joints. Calcite occurring	no core 235-245										
			with quartz as late veining cutting earlier	245	255	10	3103		0.01					
			quartz and pyrite veinlets. Propyllitic alteration.	255	265	10	3104		0.01	0.005	0.02			
				265	275	10	3105	0.001	0.02	Tr	Tr			
269	282	100%	Green Massive Andesite:	275	285	10	3106		0.02			4/ft	5-7%	2
			Anhedral Chlorite & pyrite in zones forming	285	295	10	3107		0.01					
			blebs along hairline fractures. Moderately	295	305	10	3108		0.01					
			fractured with quartz and later calcite veins	305	315	10	3109		0.01					
			forming along same joint. At 275' speck	315	325	10	3110		0.01					
			of chalcopyrite propyllitic alteration											
282	284	100%	Same Rock as above:											9
			Fault breccia cemented with pale green silica											
284	296	100%	Green Andesite Flow Breccia: Frags 5-25 mm:									4-5/ft	5-10%	2
			Moderately fractured with pyrites as veinlets											
			& disseminations; with quartz & calcite											
			veins as above.											

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
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HOLE NO. 445-72-1 AQ
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FROM	TO	RECOVY	DESCRIPTION	CHIP SAMPLE FROM	CHIP SAMPLE TO	CHIP SAMPLE WIDTH	CHIP SAMPLE NO.	GEOCHEM ASSAYS PPM Cu	Mo	F		OBSERVATIONS FRAC/FT	% PYR	AR'N
296	296^{5}	100%	Fault Zone - resilicified	565	575			41						9
				575	585			100						
296^{5}	324^{5}	100%	Green Massive Andesite:	585	595			120				2/ft	3-5%	2
			Propyllitic alteration; with pyrites occurring as disseminated blebs, sub to euhedral and as veinlets on hairline fractures cut by and along the same joint by quartz and calcite. Mildly fractured.											
324^{5}	325^{5}	100%	Fault Zone											
325^{5}	341	100%	Green Massive Andesite:									2/ft	3-5%	2
			Propyllitic alteration & fracturing as above (296^{5} - 324^{5})											
341	346	100%	Same Rock as above:										5-7%	4/9
			Fault zone with increase in silica & pyrites											
346	375	100%	Green Massive Andesite:	360			Chip	230	5	180				
			Propyllitic alteration & fracturing as above											

Diamond Drill Record

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NORTH			
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LOGGED BY			
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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS	OBSERVATIONS Frac/ft	OBSERVATIONS % Est Pyr	OBSERVATIONS Alt'n
375	380	100%	Green Massive Andesite:						4/ft	5-7%	3/9
			Alteration increases to advanced propyllitic with epidote on fractures, pyrites on fractures and as disseminations with Quartz. General silicification of rock has taken place. Minor shears are present with 1" offsets of quartz, pyrite veinlets. Quartz occurs along shear planes.								
380	385	100%	Chloritized - Green - Hornblende - Plagioclase Andesite Porphyry: with epidote, pyrites and quartz along fractures with minor pyrite disseminations						4/ft	2-3%	2
385	412	100%	Same as above but grey in colour from intense silicification. Rock appears to be crackled or shattered but forms no open network.						4/ft	3-5%	2/9
412	430	100%	Green Massive Andesite: Propyllitic alteration, moderate fracturing with pyrites as blebs and quartz, pyrites & epidote on joints.						5/ft	3-5%	3

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 445-72-1 AQ
CLAIM NAME
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PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	CHIP SAMPLE FROM	TO	WIDTH	NO.	GEOCHEM ASSAYS PPM Cu	Mo	F		OBSERVATIONS Frac/ft	% Pyr	Alt'n
430	435	100%	Green Massive Andesite:									6/ft	5-7%	2
			Propyllitic alteration, moderate to intense											
			fractures to breccia, with open vuggy quartz											
			veins; pyrites on earlier hairline fractures											
			and as disseminations; epidote minor along											
			veins with pyrites. Late offsets of 3-10 mm											
			cut all of above.											
435	443	100%	Tuffaceous - Pebbly looking Green Andesite:									5-6 /ft	5-7%	2
			With brecciation and vuggy quartz and											
			alteration as above.											
443	465	100%	Green Massive Andesite:	449			Chip	105	15	216		5/ft	5-7%	2
			Propyllitic alteration with less open,											
			network of fractures; pyrites on hairline											
			fractures, cut by quartz and cut by calcite											
			and quartz-calcite veinlets.											
465	471	100%	Same Rock:										3%	4/9
			Argillic alteration with boxwork of after											
			pyrites and silicification of zone.											

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
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CLAIM NAME
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PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS	OBSERVATIONS Frac/ft	OBSERVATIONS Est % Pyr	OBSERVATIONS Alt'n
471	510	100%	Green Massive Andesite: Propyllitic alteration; shear brecciation with epidote-calcite-pyrite forming wide veins (1-6 ins.) in late shears along with pre-shear smaller pyrite, calcite veins. Minor to no quartz veins.						12/ft	3-5%	3
510	517	100%	Same Rock as above: Minor propyllitic alteration with moderate criss-cross fracture pattern filled with calcite and pyrites.						5/ft	3%	2
517	520	100%	Same Rock: Silicified								9
520	543	100%	Green Andesite Flow Breccia: Late calcite cutting pyrite veins in moderately fractured and mild propyllitic alteration.						6/ft	2-3%	2
543	596	50%	Same Rock ?: Fault breccia & clay gouge. Stopped hole - stuck rods. END OF HOLE								

Diamond Drill Record

COLLAR:		HOLE SURVEY		
		FOOTAGE	AZIMUTH	DIP
NORTH	43+00S	0°	025°	-60°
EAST	47+00E			
ELEVATION	525'			
LOGGED BY	M. R. Swanson			
DATE LOGGED	May 6-7/72			
MAP REFERENCE NO.	92 L/12E	METHOD:	None	

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME IDA CLAIMS
DRILLING CONTRACTOR D.W. Coates Enterprises Ltd.
ASSAYER
PURPOSE OF HOLE Test Geology - Siliceous Breccia Zone

HOLE NO. 445-72-2 AQ
CLAIM NAME IDA - 402
COMMENCED May 5/72 a.m.
FINISHED May 7/72 p.m.
PROJECT NO. IDA

FROM	TO	RECOVY	DESCRIPTION	CHIP SAMPLE FROM	TO	WIDTH	NO.	GEOCHEM ASSAYS PPM Cu				OBSERVATIONS Fract/ft	Tot % Py & Po	Alt'n
0	10	-	Overburden	10	20			37						
				20	30			19						
10	45	100%	White Quartz Zone:	30	40			100					10-20%	9
			Silica Alteration with pyrites disseminated and	40	50			67						
			along micro or healed fractures. Late barren	50	60			52						
			calcite veins form along late fractures.	60	70			15						
				70	80			32						
45	48	100%	Same Rock as above:	80	90			61						
			Shear zone near parallel to hole axis.	90	100			75						
				100	110			41						
48	75	100%	White Quartz Breccia:	110	120			44					7-10%	9
			Same as 10' to 45' but breccia texture is dis-	120	130			52						
			cernable, i.e., less intense alteration. Pyrites	130	140			440						
			are disseminated and along older joints, and	140	150			84						
			barren calcite veins form later.	150	160			36						
				160	170			77						
75	86	100%	Gray-Green Andesite Flow Breccia:	170	180			80				2-3 /ft	3-5%	2/9
			Quite hard - partially silicified with late	180	190			110						
			calcite; minor disseminated pyrites. Pyrites	190	200			91						
			mostly in fractures. Mild fracturing.	200	210			120						
				210	220			64						

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME Garnet Exploration Corp Ltd.
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 445-72-2 AQ
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS Mo	ASSAYS Cu	ASSAYS Au	ASSAYS Ag	OBSERVATIONS Fract/ft	OBSERVATIONS % Pyr	OBSERVATIONS Alt'n
86	88	100%	Gray-Green Andesite Flow Breccia:										15%	2/9
			Fault Zone with calcite & quartz matrix.											
			Increase in pyrites in fragments & in matrix.											
88	111	100%	Gray-Green Andesite Flow Breccia:	100	110	10	3113					1-2 /ft	3%	3
			Fragments 5-50 mm in size, andesitic matrix;											
			argillic to porpyllitic alteration with pyrites											
			along hairline fractures and minor disseminations.											
			Epidote forms alteration product in the fragments.											
			Mild late fracturing.											
111	115	100%	White Quartz Breccia:										10-15%	3/9
			High pyrites content along shear planes and											
			joints. Epidote & pyrites replaces mafics.											
				110	120	10	3114		0.01					
115	130	100%	Same as above:	120	130	10	3115		0.01				10-15%	5
			More argillic to phyllitic alteration											

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 445-72-2 AQ
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	CHIP SAMPLE FROM	TO	WIDTH	NO.	GEOCHEM ASSAYS PPM Mo	Cu	Au	Ag	OBSERVATIONS		
130	150	100%	Gray Fault Gouge:	130	140	10	3116		0.01				15%	5-6
			Intense clay alteration with very fine pyrites	140	150	10	3117		L0.01					
			forming part of matrix. Pyrites also form clots											
			in breccia fragments. Epidote & calcite form											
			veins along what appears to be later shear planes.											
150	195	100%	Gray Fault Zone: same as above	150	160	10	3118						20%	5/9
			Calcite & silica form matrix along with	160	170	10	3119							
			pyrites which equal 20%	170	180	10	3120							
				180	190	10	3121							
195	312	100%	Agglomerate - Andesitic - Dacitic:	190	200	10	3122					1/ft	2-3%	5
			Looks like a flow breccia but matrix is soft	200	210	10	3123							
			and has shards. Argillic alteration has taken	210	220	10	3124							
			place with epidote forming clots after replacing					Cu						
			fragments (or fragments could have been altered	220	230			15						
			prior to deposition in the tuff bed). Sub to	230	240			210						
			euhedral pyrites form in matrix & fragments and	240	250			160						
			along joints. Minor late fracturing containing	250	260			46						
			calcite-pyrite veins. Dark friable mineral forms	260	270			26						
			with calcite-pyrite unidentifiable.	270	280			62						
				280	290			66						

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 445-72-2 AQ
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	CHIP SAMPLE FROM	TO	WIDTH	NO.	GEOCHEM ASSAYS PPM Mo	Cu	Au	Ag	OBSERVATIONS Fract	Sulf	Alt'n
312	319	100%	Agglomerate - Dacitic - Andesitic: same as above					Cu						
			Fault zone, could be later fault as no	290	300			14						
			change in pyrite content	300	310			61						
				310	320			87						
319	471	100%	Agglomerate - Dacitic - Andesitic:	325	335	10	3111					1/ft	2-3%	2
			Alteration drops off to propyllitic type. Pyrites	335	345	10	3112							
			disseminated and along hairline fractures. Possible	320	330			15						
			minor exsolution of chalcopyrite in pyrites at	330	340			69						
			321^0. Barren late calcite veins with pyrites.	340	350			18						
				350	360			48						
471	474	100%	Dark Gray-Green Hornblende Andesite Porphyry:	360	370			100				1/ft	2%	2
			Propyllitic alteration, minor disseminated	370	380			45						
			pyrites, sub to euhedral as replacement of	380	390			18						
			hornblende. Minor barren calcite & epidote	390	400			165						
			veins along hairline fractures.	400	410			31						
				410	420			110						
				420	430			37						
			END OF HOLE	430	440			70						
				440	450			31						
				450	460			24						
				460	470			19						
				470	474			100						

Diamond Drill Record

COLLAR:		HOLE SURVEY		
NORTH 43+00S		FOOTAGE	AZIMUTH	DIP
EAST 47+00E		0	180°	-45°
ELEVATION 525'				
LOGGED BY M. R. Swanson				
DATE LOGGED May 9, 1972		600'		-45°
MAP REFERENCE NO. 92 L/12E		METHOD: Acid Etch		

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME IDA CLAIMS
DRILLING CONTRACTOR D.W. Coates Enterprises Ltd.
ASSAYER
PURPOSE OF HOLE Test Geology & Structure

HOLE NO. 445-72-3 AQ
CLAIM NAME IDA 402
COMMENCED May 7/72 p.m.
FINISHED May 9/72 a.m.
PROJECT NO. 445

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS	OBSERVATIONS Fract/ft	OBSERVATIONS % Py & Py	OBSERVATIONS Alt'n
0	21	-	Overburden								
21	40	100%	Quartz Breccia:							10-15%	9
			Intense silicification and alteration;	25	35	10	3125				
			pyrites are pervasive forming clots and	35	45	10	3126				
			disseminations along hairline fractures.	45	55	10	3127				
			Later barren calcite veins in open joints.								
40	52	100%	Pale Green Andesitic Flow Breccia:						1-2/ft	10%	4
			Silicified but texture is discernable.								
			Pyrites are present along hairline fractures.								
			Late Barren calcite veins. Argillic alteration.								
52	54	100%	Fault Zone: same rock as above								
			Pyrites form part of gouge matrix.								
54	90	100%	Pale Green Agglomerate:						1/ft	3%	2
			Large angular fragments of variable composition								
			with a dacite-andesite matrix. Pyrites form clots								
			around fragments and as matrix. Propyllitic								
			alteration, minor late calcite (barren) veins.								

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 445-72-3 AQ
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	CHIP SAMPLE FROM	TO	WIDTH	NO.	GEOCHEM ASSAYS PPM Cu	OBSERVATIONS fract/ft	Fe Pyr	Alt'n
90	97	100%	Fault Breccia:	21	30	9		33			
			In the dacitic-andesitic agglomerate, fault	30	40	10		51			
			appears to be post pyrites.	40	50	10		92			
				50	60	10		39			
				60	70	10		17	1-2 /ft	10%	2
97	118	100%	Dacite Feldspar Porphyry:	70	80	10		48			
			Hard gray-violet colour rock with pale green,	80	90	10		41			
			lustrous alteration mineral. Pyrites form	90	100	10		67			
			anhedral disseminations in groundmass around	100	110	10		260			
			the 3-5 mm phenocrysts, and form as clots along	110	120	10		75			
			hairline fractures. Late barren calcite veins	120	130	10		55			
			form in open joints. Propyllitic alteration.	130	140	10		33			
118	155	100%	Fault Breccia & Gouge Zone:	140	150	10		49			
			Lost water circulation. Large clots of pyrites	150	160	10		105		10%	
			in breccia matrix. Barren calcite veins form	160	170	10		26			
			along shear planes.	170	180	10		22			
				180	190	10		35			
155	191	100%	Pale Green Agglomerate:	190	200	10		61	1/ft	0-1%	3/4
			Dacite-andesite matrix with variable composition	200	210	10		150			
			fragments. Very minor pyrites. Epidote form in	210	220	10		140			
			matrix. Minor late barren calcite veins.	220	230	10		62			

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 445-72-3
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	CHIP SAMPLE FROM	TO	WIDTH	NO.	GEOCHEM ASSAYS PPM Cu	OBSERVATIONS FRAC/ft	Tot S Pyr	Alt'n
			Incipient argillic alteration.	230	240	10		25			
				240	250	10		12			
191	191.5	100%	Fault: same rock as above	250	260	10		120			
				260	270	10		145			
191.5	197	100%	Pale Green Agglomerates:	270	280	10		24		1%	3
			Same as 155-191 with less than 1% pyrites,	280	290	10		48			
			mostly in dark fragments. Minor epidote in	290	300	10		100			
			matrix adjacent to fragments.	300	310	10		33			
				310	320	10		27			
197	199	100%	Dark Green Hornblende Andesite Porphyry:	320	330	10		37		3%	3
			Propyllitic alteration with sub to euhedral	330	340	10		145			
			pyrites disseminations.	340	350	10		87			
				350	360	10		83			
199	300	100%	Pale Green Agglomerate:	360	370	10		56	1/5 ft.	2%	2
			Same as above agglomerate. Minor epidote and	370	380	10		59			
			pyrites in matrix adjacent to fragments. Very	380	390	10		20			
			rare barren calcite veins. 1 to 5 feet apart.	390	400	10		17			
				400	410	10		50			
300	450	100%	Pale Green Agglomerate:	410	420	10		78	1/2-5 ft	2%	4
			Same rock as 199-300', but with increase in	420	430	10		295			
			pyrites & epidote near the calcite filled fractures.	430	440	10		35			

Diamond Drill Record

COLLAR:	HOLE SURVEY		
NORTH	FOOTAGE	AZIMUTH	DIP
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 445-72-3
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	CHIP SAMPLE FROM	TO	WIDTH	NO.	GEOCHEM ASSAYS PPM Cu				OBSERVATIONS Fract	est % Py	Alt'n
			No increase in disseminated pyrites. Incipient	440	450	10		65						
			argillic alteration.	450	460	10		60						
				460	470	10		58						
450	558	100%	Same Rock as above:	520	530	10	3128						3-5%	4
			But with increase in disseminated pyrites as grains	530	540	10	3129							
			and as clots in matrix & fragments. Calcite veins	540	550	10	3130							
			are rare but small veinlets of pyrites are present.	550	560	10	3131							
			Alteration remains the same	560	570	10	3132							
				470	480	10		60						
558	571	100%	Fault Zone:	480	490	10		52					5-10%	
			Increase in pyrites as sub to euhedral grains	490	500	10		25						
			in the gouge & breccia matrix and fragments.	500	510	10		74						
			Most pyrites are very finely disseminated.	510	520	10		83						
				520	530	10		83						
571	600	100%	Dark Green Hornblende Adesite Porphyry:	530	540	10		68					2-3%	2
			Mild propyllitic alteration with finely	540	550	10		18						
			disseminated sub to euhedral pyrites. Epidote	550	560	10		65						
			forms in small fractures. Barren calcite veins	560	570	10		65						
			are rare.	570	580	10		49						
				580	590	10		57						
			END OF HOLE	590	600	10		68						

Diamond Drill Record

COLLAR:
NORTH 20+50S
EAST 15+75E
ELEVATION 750'
LOGGED BY M. R. Swanson
DATE LOGGED May 12-17/72
MAP REFERENCE NO. 92 L/12E

HOLE SURVEY		
FOOTAGE	AZIMUTH	DIP
0	180°	-45°
586	-	-45°
METHOD: Acid		

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME IDA CLAIMS
DRILLING CONTRACTOR D.W. Coates Enterprises Ltd.
ASSAYER
PURPOSE OF HOLE Test E-W Fault: Mag & Geochem Anomaly

HOLE NO. 445-72-4
CLAIM NAME IDA 91
COMMENCED May 12, 1972 a.m.
FINISHED May 17, 1972 a.m.
PROJECT NO. 445

FROM	TO	RECOVY	DESCRIPTION	CHIP SAMPLE FROM	TO	WIDTH	NO.	GEOCHEM ASSAYS PPM Cu	OBSERVATIONS Fract/ft	Sulf % Py	Alt'n
0	42	0%	Overburden	42	50	8		32			
				50	60	10		71	12-14 /ft		
42	85	85%	Dioritic Equivalent:	60	70	10		100		0-1%	3-4
			Medium-grained equigranular equivalent to andesite.	70	80	10		66			
			Epidote & magnetite are present as discreet grains.	80	90	10		51			
			Minor disseminations of pyrites. Ground is very	90	100	10		85			
			broken & blocky with barren calcite veins, both	100	110	10		105			
			white & pink every few inches. Alteration is	110	120	10		83			
			slight argillic (epidote).	120	130	10		59			
				130	140	10		75			
85	110	60%	Shear & Fault Zone:	140	150	10		60		3-5%	
			Calcite on shear planes. Chloritization has	150	160	10		54			
			destroyed the rock texture. Epidote & pyrites	160	170	10		58			
			on fractures & shear planes.	170	180	10		38			
				180	190	10		55			
110	120	80%	Massive Green Andesite:	190	200	10		43	12 /ft.	1%	2
			Blocky with finely disseminated pyrites &	200	210	10		100			
			magnetite. Closely spaced barren white calcite	210	220	10		64			
			veins. Some pyrites form on hairline fractures	220	230	10		150			
			& appears to be earlier than the calcite.	230	240	10		64			
				240	250	10		45			

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 445-72-4
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO

FROM	TO	RECOVY	DESCRIPTION	CHIP SAMPLE FROM	TO	WIDTH	NO	GEOCHEM ASSAYS PPM Cu	OBSERVATIONS Frac/ft	Kspar Py&R	Alt'n
120	135	60%	Shear Breccia Zone:	250	260	10		57		3-5%	4
			Same massive andesite with increase in pyrites	260	270	10		48			
			and calcite veining. Minor epidote on fractures	270	280	10		41			
			with pyrites. Magnetite still present as dis-	280	290	10		255			
			seminated grains. Alteration is argillic.	290	300	10		11			
				300	310	10		57			
135	172	90%	Massive Green Andesite:	155	165	10	3133		12/ft	1%	1
			Very blocky & broken ground. Rock is quite								
			fresh with increase in pyrites & epidote veining.	310	320	10		35			
			White & pink barren calcite becoming quite	320	330	10		86			
			numerous. Fine-grained magnetite = 2-5%	330 340	340 350	10 10		60 78			
			disseminated throughout rock.	350	360	10		74			
				360	370	10		76			
172	180	100%	Same Rock as above:	370	380	10		47	12/ft	1%	1
			More coarse grained to medium grained texture,	380	390	10		62			
			same as 42-85'	390	400	10		45			
				400	410	10		110			
180	197	100%	Massive Green Andesite: same as above	410	420	10		86	12/ft	1%	1
			Fine grain texture with small dark specks,	420	430	10		76			
			apparently mafic minerals, i.e., hornblende								

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO 445-72-4
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS	OBSERVATIONS Frac/ft	OBSERVATIONS % Bar. Alt'n
197	289	100%	Sheared Zone - Massive Green Andesite: Rock has randomly spaced shear planes filled with barren calcite veinlets. Pyrite forms as disseminations and fracture filling content is around 3%. Magnetite forms disseminations & rarely also calcite veins ⇒ secondary magnetite content is 2-5%. Rock is quite fresh.	250	260	10	3134		12/ft	3-5% 1
289	300	100%	Massive Green Andesite: Coarse-Grained Variety Pyrites < 1%, calcite veins becoming less frequent. Some pyrites form along fractures then cut by barren calcite. Magnetite still present.	295	305	10	3135		1-2/ft	1% 1
300	381	90%	Same Rock: Biotite appearing along fractures and interstitially could be alteration. Rock is less fractured & pyrites has increased to 2-3%, fewer calcite veins, rock still quite fresh.	350	360	10	3136		1/ft	2-3% 1

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 445-72-4
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	CHIP SAMPLE FROM	TO	WIDTH	NO.	GEOCHEM ASSAYS PPM Cu				OBSERVATIONS From/ft	To Fst Rx	Alt'n
381	382	100%	Gouge Zone - Small Fault:	430	440	10		120						
				440	450	10		110						
382	430	100%	Massive Green Andesite:	450	460	10		430				12-14 /ft	< 1%	1
			Barren Calcite veins form criss-cross pattern.	460	470	10		125						
			Magnetite = 2-5% as disseminations. Pyrites	470	480	10		57						
			content has decreased to 1%. Rock is fresh.	480	490	10		120						
			Biotite has almost disappeared.	490	500	10		110						
				500	510	10		100						
430	431	100%	Fault Breccia:	510	520	10		27						
				520	530	10		86						
431	439	100%	Massive Green Andesite: same as above	530	540	10		91				8/ft	< 1%	1
			Quite fresh, less fractured	540	550	10		55						
				550	560	10		46						
439	440	100%	Fault Gouge:	560	570	10		140						
				570	580	10		68						
440	510	100%	Massive Green Andesite:	580	590	10		47				1-2 /ft	2-5%	1
			Increase in pyrites in the hairline fractures.											
			Less calcite veins; magnetite remains the same											
			only with the grains becoming coarser.											

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO 445-72-4
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS	OBSERVATIONS Fract/ft	OBSERVATIONS Est % Pyr	OBSERVATIONS Alt'n
510	513	60%	Fault Gouge:								
			Same massive green andesite								
513	520	100%	Massive Green Andesite:						1-2 /ft	2-5%	1
			Quite fresh looking with pyrite & calcite veining & magnetite disseminations.								
520	521	100%	Fault Gouge: Same Rock as Above								
521	586	100%	Massive Green Andesite: Same As Above	550	560	10	3137		1-2 /ft	1%	1
			Minor pyrites as disseminations & very few fracture fillings. Barren calcite veins becoming less frequent. Magnetite forms interstitial grains = 1-2% of rock. Rock is hard & quite fresh.								
			END OF HOLE								
			Overall Recovery = 95%: Generally rock was hard & fresh. Used 11 bits in 542 feet.								

Diamond Drill Record

COLLAR:		HOLE SURVEY		
		FOOTAGE	AZIMUTH	DIP
NORTH	41+00S	0	180°	-60°
EAST	31+75E			
ELEVATION	700'			
LOGGED BY	M.R. Swanson	443	-	-70°
DATE LOGGED	May 19-21/72			
MAP REFERENCE NO	92 L/12E	METHOD	Acid	

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME IDA CLAIMS
DRILLING CONTRACTOR D.W. Coates Enterprises Ltd.
ASSAYER
PURPOSE OF HOLE Test Geology - i.e., Quartz Breccia

HOLE NO 445-72-5
CLAIM NAME IDA 398
COMMENCED May 19, 1972 a.m.
FINISHED May 21, 1972 a.m.
PROJECT NO 445

FROM	TO	RECOVY	DESCRIPTION	CHIP SAMPLES FROM	TO	WIDTH	NO	GEOCHEM ASSAYS PPM Cu	OBSERVATIONS Fract/ft	Est % Pyr	Alt'n
0	13	-	Overburden	13	20			55			
				20	30			48			
13	61	100%	Dark Green Tuffaceous Agglomerate:	30	40			10	10/ft	2%	1-2
			Fragments are large & small with quite a variable	40	50			24			
			composition. Hairline fractures are filled with	50	60			25			
			pyrites & later barren calcite veinlets which are	60	70			44			
			cut by larger barren quartz veins. Some late	70	80			37			
			calcite veinlets cut the quartz veins. The quartz	80	90			14			
			veins are 1 to 2 inches wide. This quartz fills	90	100			33			
			narrow breccia-like zones and occurs once every	100	110			155			
			10 to 12 feet (2 or 3 per tray). The rock is	110	120			60			
			multicoloured and is quite fresh, but well	120	130			16			
			fractured. Also rock is slightly magnetic due to	130	140			21			
			small grains of magnetite in the matrix. The	140	150			36			
			fragments are pyritized.	150	160			51			
				160	170			150			
61	62.5	100%	Small Fault Zone - Clay Gouge:	170	180			57		5%	
				180	190			76			
62.5	85	100%	Hematitic Agglomerate:	60	70	10	3138		10-12/ft	5%	1-2
			Rock has changed to a deep red in colour and is	70	80	10	3139				
			made up of hematitic fragments. Red cherty	80	90	10	3140				

Diamond Drill Record

COLLAR:	HOLE SURVEY		
NORTH	FOOTAGE	AZIMUTH	DIP
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD		

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 445-72-5
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	CHIP SAMPLES FROM	TO	WIDTH	NO	GEOCHEM Cu	ASSAYS PPM			OBSERVATIONS Fract/ft	Fe+S % Pyr	Alt'n
			fragments and an amorphous hematitic matrix.	190	200			55						
			Very fine pyrite veins are abundant with pyrites =	200	210			73						
			3-5%. Quartz veining is smaller, i.e., 1/2 inch	210	220			51						
			wide and more rare (1 or 2 per tray). Rock is	220	230			37						
			non-magnetic, and what non-hematitic fragments	230	240			52						
			there are (green andesite) appear to be fresh.	240	250			46						
			Rock is still generally well fractured.	250	260			47						
				260	270			43						
85	99	100%	Same Rock As Above:	270	280			45						
			Pyrites have dropped to 1-2%	280	290			59						
				290	300			39						
99	153	100%	Coarse Crystal Tuff - Dark Green:	300	310			210				2-4 /ft	≤ 1%	3
			Feldspars have been altered to clays and epidote	310	320			130						
			with very minor pyrites. Minor random criss-cross	320	330			30						
			series of quartz veins are barren and appear to be	330	340			26						
			dipping sub-parallel to the core axis. No	340	350			33						
			magnetite. Rock isn't blocky and is moderately	350	360			61						
			fractured.	360	370			37						
				370	380			42						
153	180	100%	Quartz Filled Fault Breccia - Same Rock:	380	390			260					≤ 1%	3
			Quartz is milky white with no sulphides.	390	400			335						

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD		

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 445-72-5
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	ROCK SAMPLE CHIPS FROM	TO	WIDTH	NO.	GEOCHEM ASSAYS PPM Cu				OBSERVATIONS Frac/ft	Est % Py	Alt'n
			Occasional epidote veinlets in association with	400	410			26						
			the quartz.	410	420			91						
180	205	100%	Late Fault Zone - Post Quartz Veining: Dark Grey-Green Tuff: This is primarily a shear zone with broken & smeared quartz and calcite veins. Rock has changed to a dark gray-green fine grained tuff. Fine calcite & larger (1 to 2 inch) quartz veins occur with epidote. Pyrite occurs along pre-calcite fractures 1%..										≤1%	5
205	239	100%	Hematitic Tuff - Same Post Quartz - Late Fault & Shear Zone: Pyrite is near NIL and the barren quartz-calcite veins are still broken & smeared. Ground is very blocky.											
239	336	100%	Dark Gray-Green Coarse Grained Tuff: Minor calcite (earlier) and quartz veining intact. Feldspars have been altered to clays & epidote.									12-15 /ft	1%	3-4

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 445-72-5
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO	ASSAYS	OBSERVATIONS Fract/ft	OBSERVATIONS Fract %	OBSERVATIONS Alt'n
			Pyrites at near 0%. Ground is very shattered & blocky. Numerous calcite & epidote veinlets form along hairline fractures. Quartz veining drops off to 0 at around 270'. Rock is moderately fractured past 270'.								
336	336.5	100%	Fault:								
336.5	350	100%	Dark Green Hornblende Andesite Porphyry: Fairly massive rock with black hornblende phenocryst laths. Rock is well fractured with abundant, very small barren calcite stringers, both pink & white calcite. Epidote also forms in hairline fractures. Pyrite content is almost nil & rock is slightly magnetic.						15-16 /ft	0%	2-3
350	366	100%	Same Rock As Above: Late Barren Fault Zone Large Barren Calcite veins are pre-fault with one small speck of galena at 364'. Pyrites are generally 0% with minor amounts forming euhedral crystals on hairline fractures.							≤1%	

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO	METHOD		

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO 445-72-5
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO	ASSAYS	OBSERVATIONS
366	373	100%	Coarse Grained Crystal Tuff - Same Fault Zone as Above: Feldspars are greenish clay & epidote with very minor pyrites forming in the altered feldspar grains. Ground is very blocky and non-magnetic.						15-16 /ft ≤1% 2-3
373	380	40%	Fault Gouge: Coarse Grained Crystal Tuff: Very blocky & clay zone. Same rock as above.						
380	407	100%	Tuffaceous Agglomerate: Altered feldspars to clay and epidote with a slight increase in pyrites to 1% to 2% mainly as disseminated forming anhedral grains. Numerous barren calcite veinlets. Ground very blocky.						12-14 /ft 1-2% 2-3
407	443	100%	Same Rock As Above: Agglomerate texture is more defined with coarse to large angular fragments. Ground is less broken and almost nil calcite veining.						1/ft 1-2% 3

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME Garnet Exploration Corp. Ltd.
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 445-72-5
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

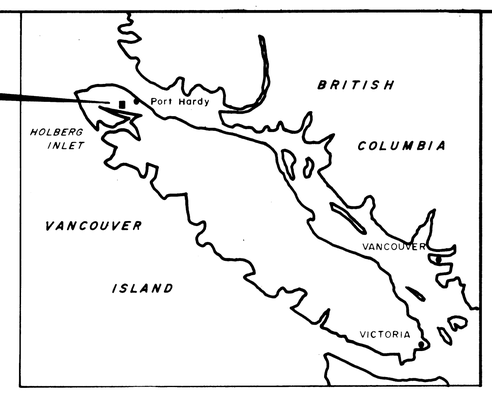
FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS						
			END OF HOLE											
			Due to bit being lost in hole for unknown reason											

Appendix (ii)

Summary of Costs

SUMMARY OF COSTS - 1972

Acquisition	$ 5,673.00
Salaries and Wages	10,588.00
Surveying and Mapping	317.00
Geochemistry	642.00
Outside Contract Services	1,335.00
Drilling	21,908.00
Assaying	67.00
Travel	2,387.00
Air Charter	6,381.00
Equipment	1,093.00
Miscellaneous	204.00
TOTAL	$50,600.00



Bob Fraction 874

Bob Fraction 875

LINE A

LINE B

LINE C

POND

LYNNE LAKE

Wakalish Creek

40+00 N

20+00 N

0+00

32+00 N
WHIZ B.L.

21 00 N
WHIZ B.L.

50+00 S

PROPERTY BOUNDARY

4+00E 8+00E 12+00E 16+00E 20+00E 24+00E 28+00E 32+00E 36+00E 39+00E 44+00E 48+00E 52+00E 56+00E 60+00E 63+00E

188 W 184 W 180 W 178 W 172 W 168 W 164 W 160 W 156 W 152 W 148 W 144 W 190 W

Key to CLAIM POSTS

- ■ Ida Located
- □ Ida Assumed
- ○ Whiz Located
- △ Expo

inches
centimetres

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

Garnet Exploration Corp. Ltd.

IDA CLAIMS AND GRID LOCATION

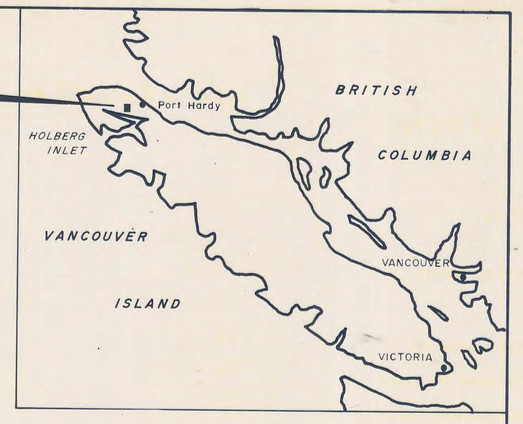
Port Hardy Dist. B.C.

Scale: 1 inch = 500 feet

Date: June 1, 1972

Map 1

IDA CLAIMS



LEGEND

Triassic — Bonanza Series:

Sediments:
- Lower Bonanza Shales — IVa

Volcanics
- Green Massive Andesite — Ia
- Andesite Feldspar Porphyry — Ib
- Andesite Hornblende Porphyry — Ic
- Tuffs & Agglomerates — Id
- Basalt — Ie
- Rhyo - Dacite — If
- Andesitic Flow Breccias — Ig
- Coarse Grain Andesitic Equivalent — II

Jurassic — Intrusives:
- Granite / Granodiorite — III

DIAMOND DRILL HOLE LOCATION — 445-72-2
OUTCROP LIMIT
FAULT — INFERRED & FROM AIR PHOTO / MAPPED — 60°
CONTACT
BEDDING — 35°
FRACTURE PATTERN
BRECCIA ZONE LIMIT (Quartz Breccia)
PYRITES
ALTERATION LIMITS

LINE A
LINE B
LINE C

40+00N
20+00N
0+00
0+00 N
32+00 N
WHIZ B L
50+00S
50 + 00 S
Property Boundary

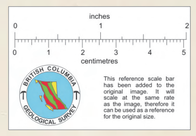
POND
LYNNE LAKE
Wakalish Creek

188 W 184 W 180 W 176 W 172 W 168 W 164 W 160 W 156 W 152 W 148 W 144 W

4+00E 8+00E 12+00E 16+00E 20+00E 24+00E 28+00E 32+00E 36+00E 39+00E 44+00E 48+00E 52+00E 56+00E 60+00E 63+00E

445-72-1 445-72-2 445-72-3 445-72-4 445-72-5

Quartz Breccia
Calcite Veins
60°-65°



To accompany Geological, Geochemical, Geophysical Report on the IDA claims by: M. R. Swanson M. Sc., and J. G. Simpson Ph D., P. Eng. Nov. 1971

Garnet Exploration Corp. Ltd.

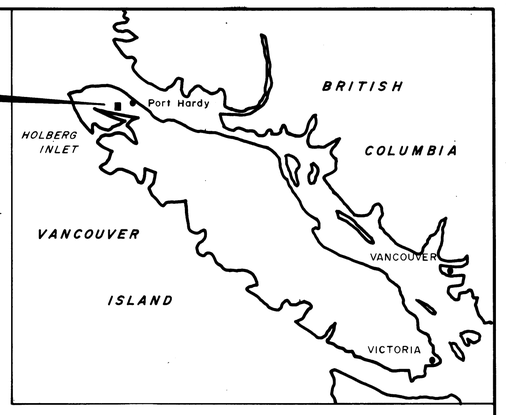
IDA CLAIMS

GEOLOGY

Port Hardy Dist. B.C.

Scale: 1" = 500' Date: June 1, 1972

IDA CLAIMS



LINE A

LINE B

LINE C

40+00 N

20+00 N

0+00

50+00S

4+00E 8+00E 12+00E 16+00E 20+00E 24+00E 28+00E 32+00E 36+00E 39+00E 44+00E 48+00E 52+00E 56+00E 60+00E 63+00E

188 W 184 W 180 W 176 W 172 W 168 W 164 W 160 W 156 W 152 W 148 W 144 W

POND

LYNNE LAKE

WHIZ BL

32+00 N

2+00 N

0+00 N

50+00 S

Property Boundary

Wakalish Creek

N

Contour interval 100 gammas

inches 0 1 2

centimetres 0 1 2 3 4 5

BRITISH COLUMBIA GEOLOGICAL SURVEY

This reference scale bar belongs to maps drawn original scale & will scale at the same rate as the image, therefore it can be used as a reference for the original size.

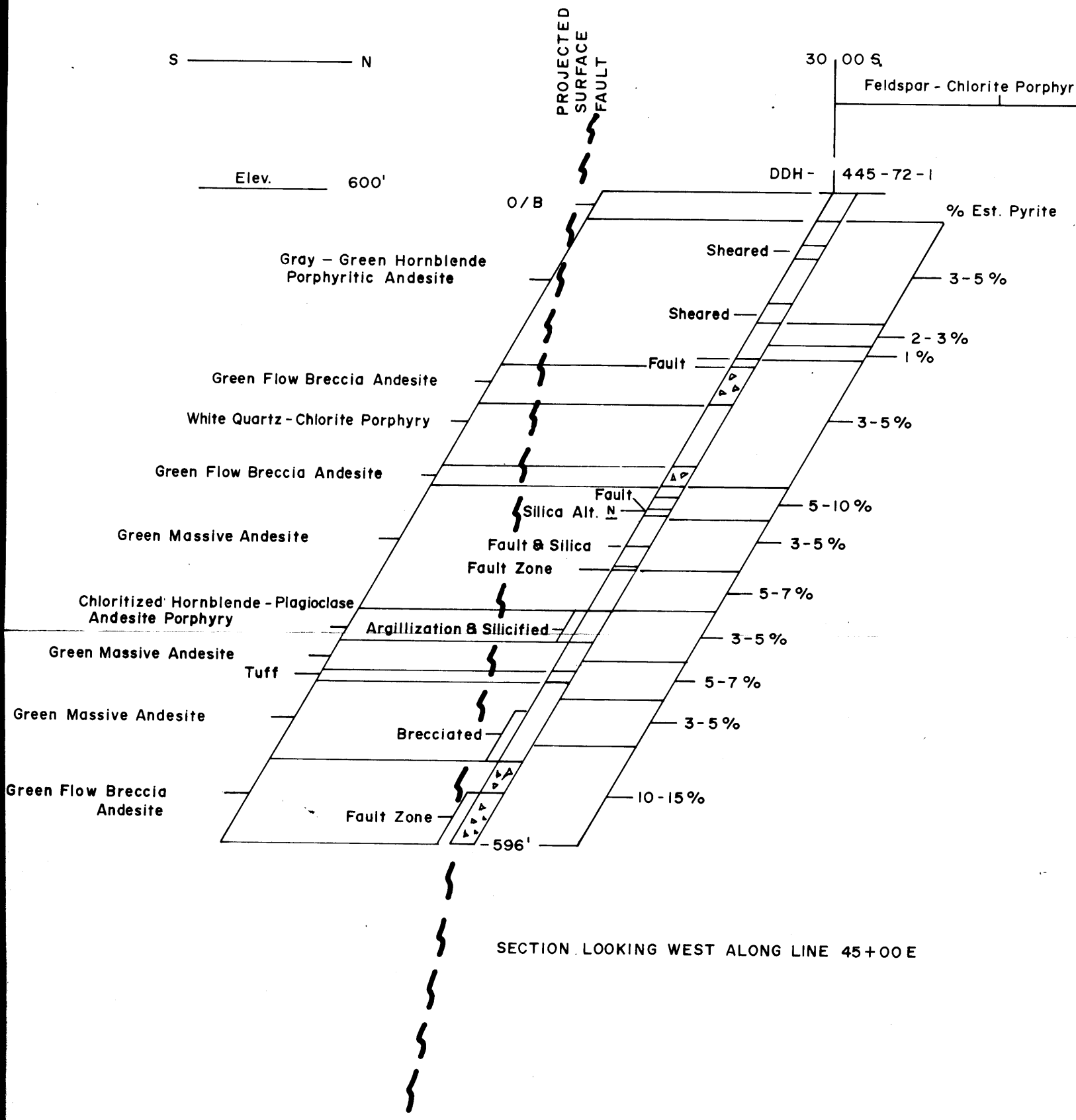
Garnet Exploration Corp. Ltd.

IDA CLAIMS
Magnetometer Survey

Port Hardy Dist. B.C.

Scale: 1" = 500' Date: June 1, 1972

To accompany Geological, Geochemical, Geophysical Report on the IDA claims by: M.R. Swanson M. Sc., and J. G. Simpson Ph. D., P. Eng. NOV. 1971



SECTION LOOKING WEST ALONG LINE 45+00 E

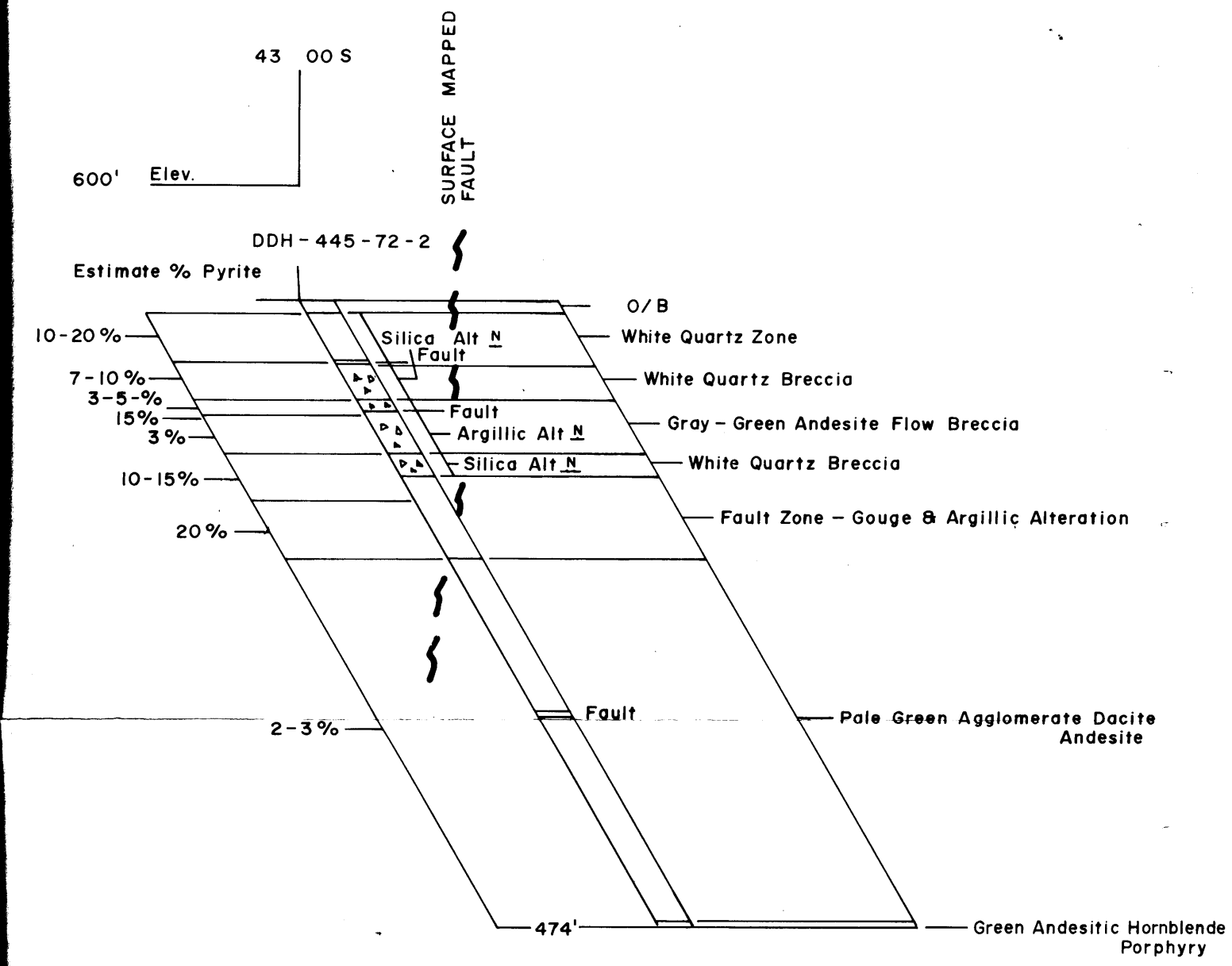
GARNET EXPLORATION CORP. LTD.

IDA CLAIMS

DDH - 445 - 72 - 1

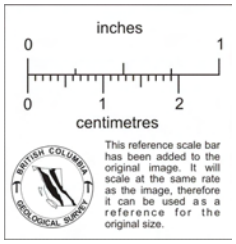
Scale: 1 inch = 100 feet

May, 1972 M.R.S.



SECTION LOOKING NORTH 65° WEST

GARNET EXPLORATION CORP. LTD.

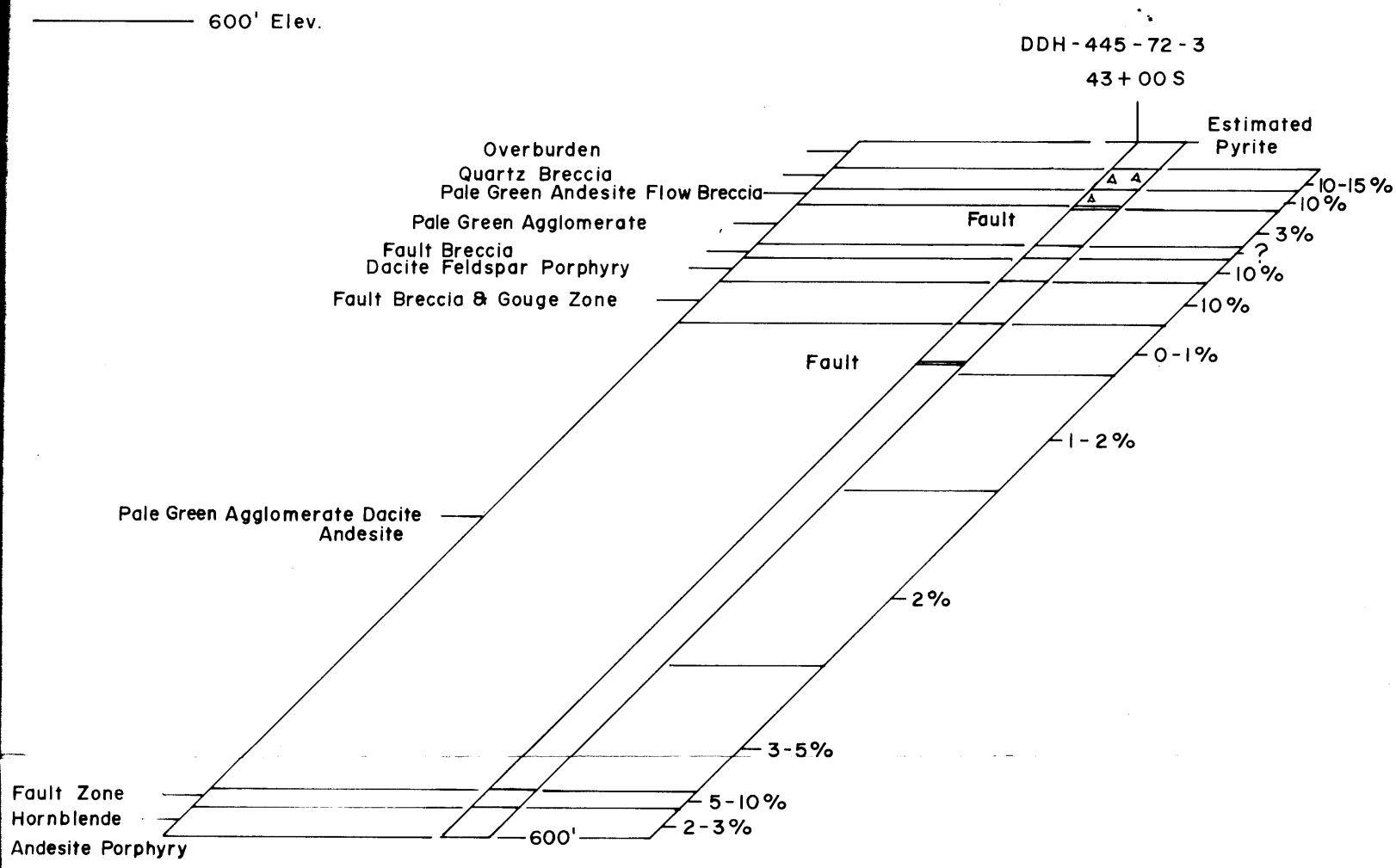


IDA CLAIMS

DDH - 445 - 72 - 2

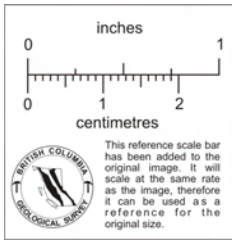
Scale: 1 inch = 100 feet

May, 1972 M. R. S.



SECTION 47 + 00 EAST LOOKING WEST

GARNET EXPLORATION CORP. LTD.

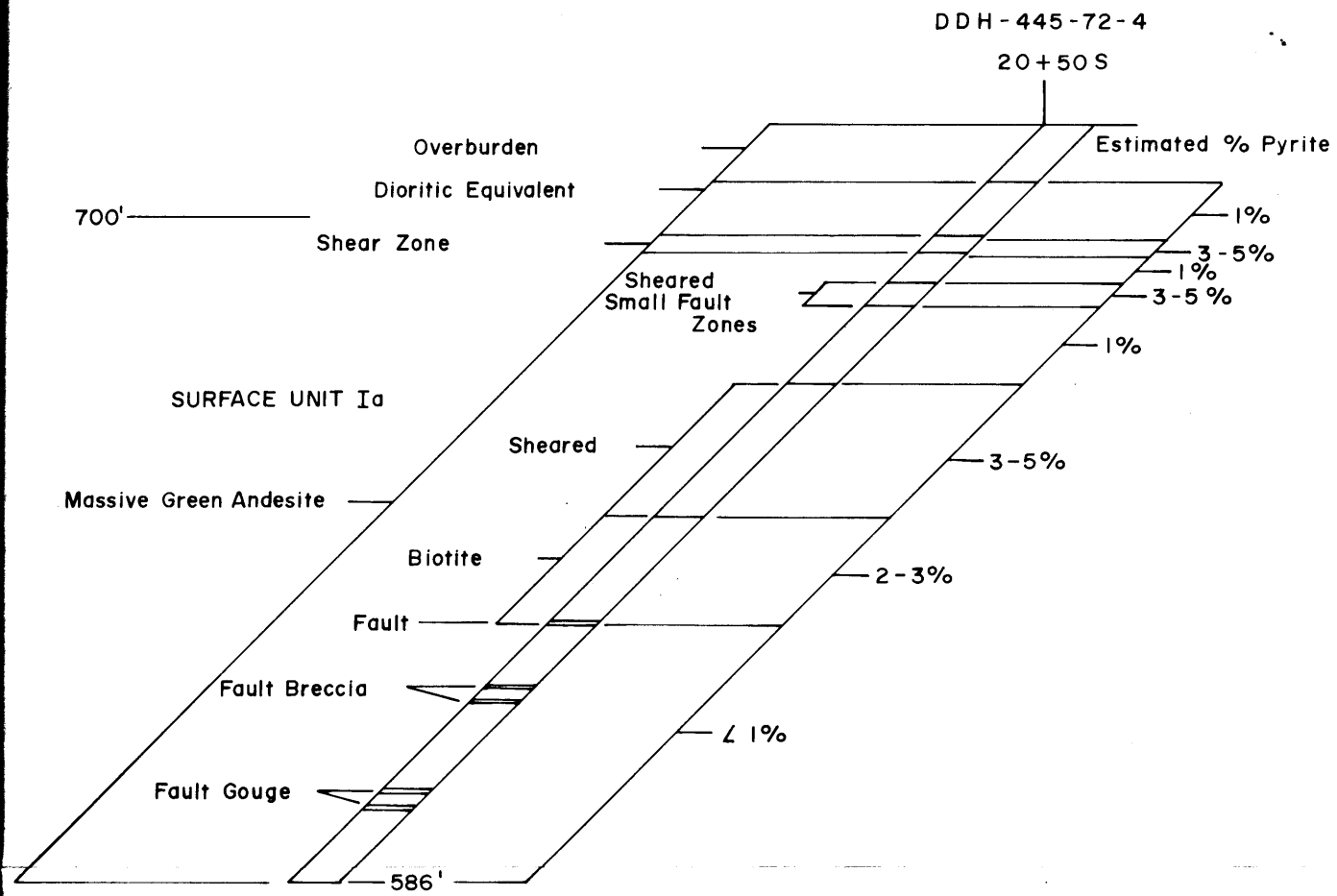


IDA CLAIMS

DDH - 445 - 72 - 3

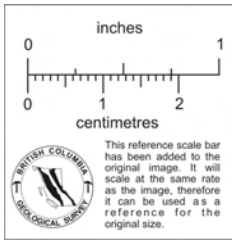
Scale: 1 inch = 100 feet

May 1972, M. R. S.



SECTION 15 + 75 EAST LOOKING WEST

GARNET EXPLORATION CORP. LTD.

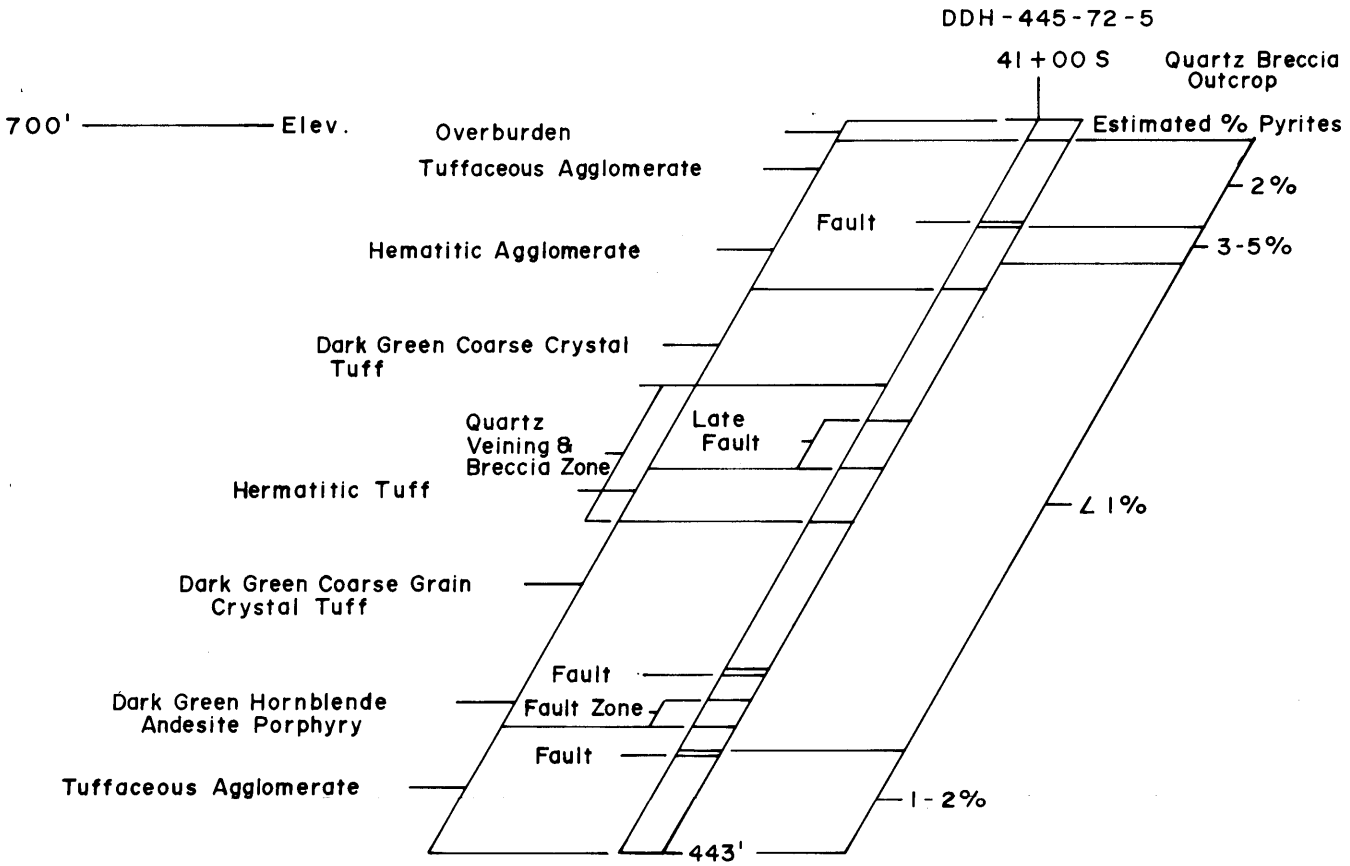


IDA CLAIMS

DDH-445-72-4

Scale 1 inch = 100 feet

May 1972, M. R. S.



SECTION ALONG 31+75 EAST

GARNET EXPLORATION CORP. LTD.

IDA CLAIMS

DDH-445-72-5

Scale: 1 inch = 100 feet
May 1972, M.R.S.

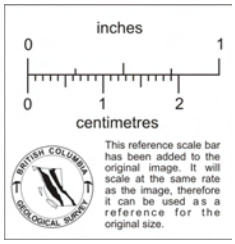
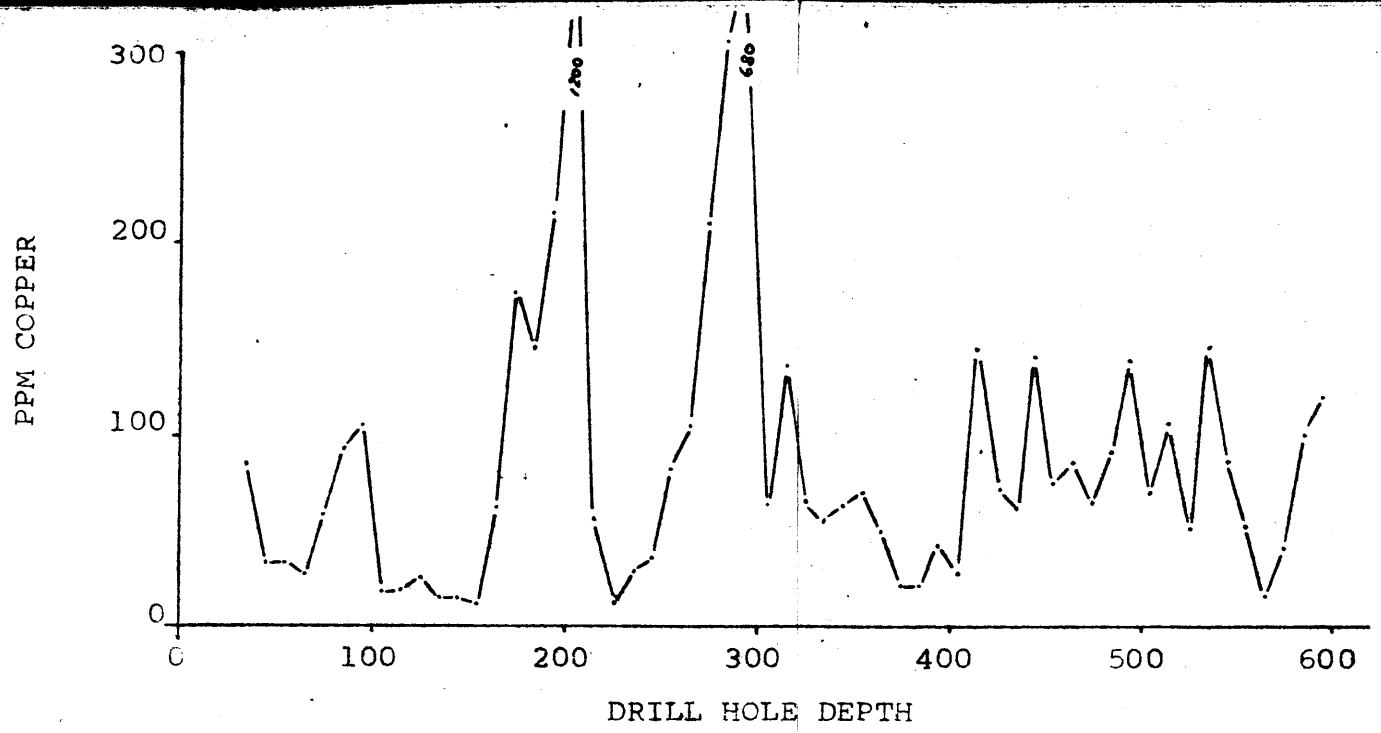
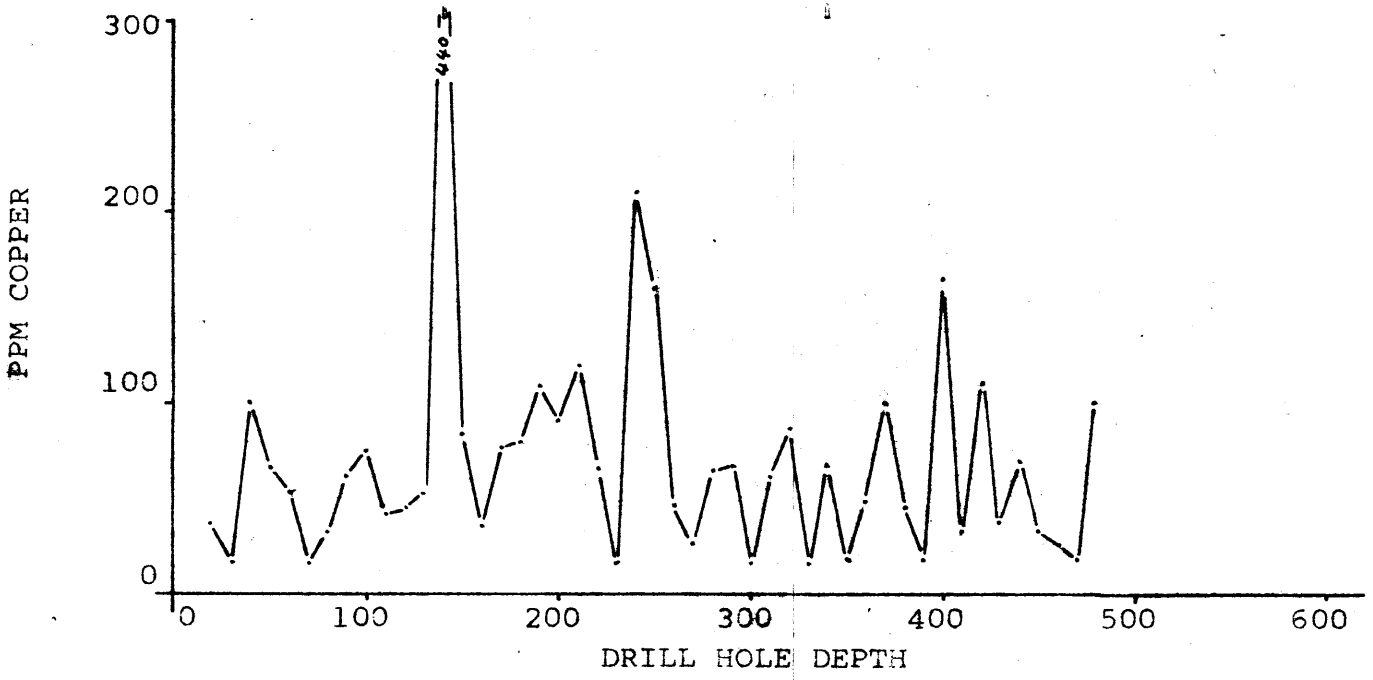


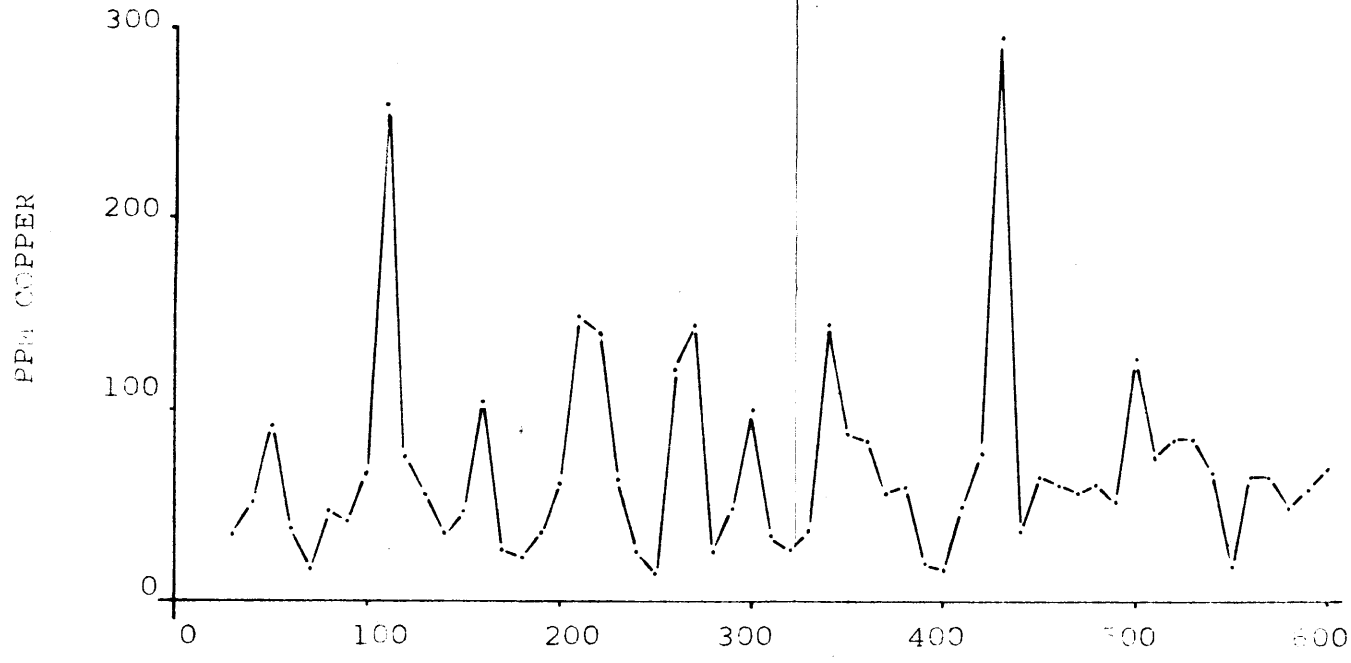
Fig. 6



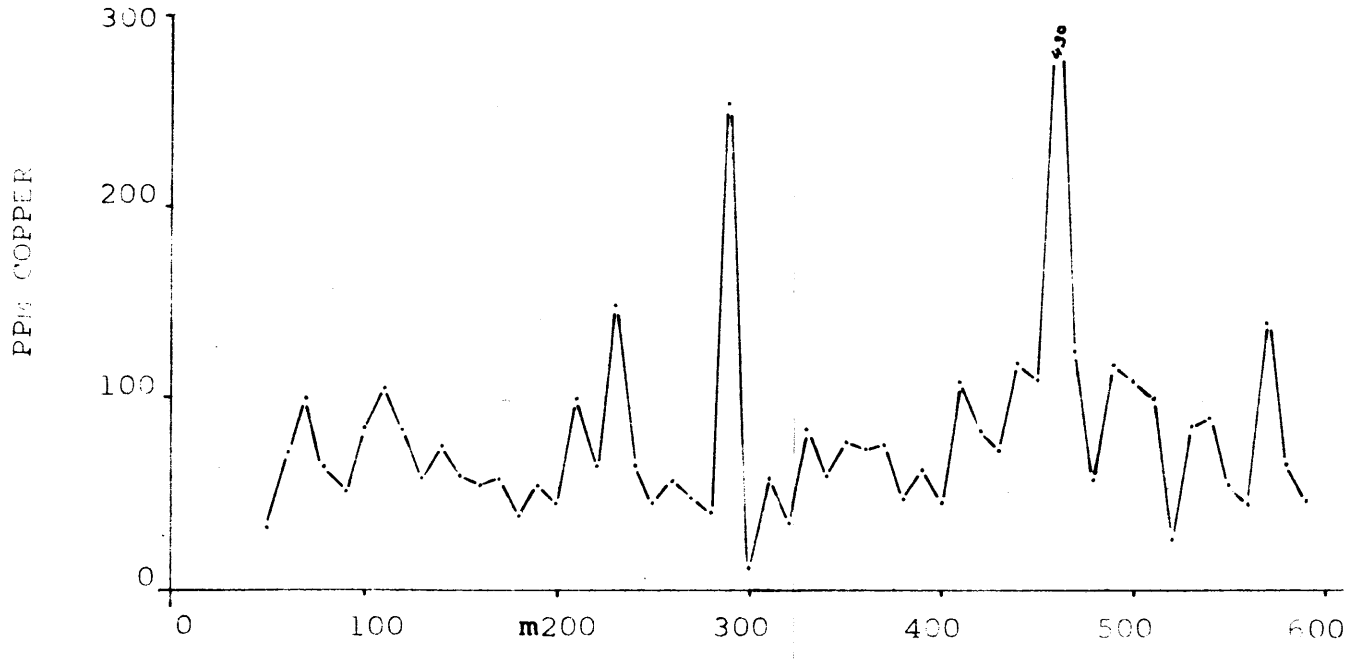
GARNET EXPLOR. CORP.LTD.
DRILL CORE ROCK GEOCHEM
DDH-445-72-1



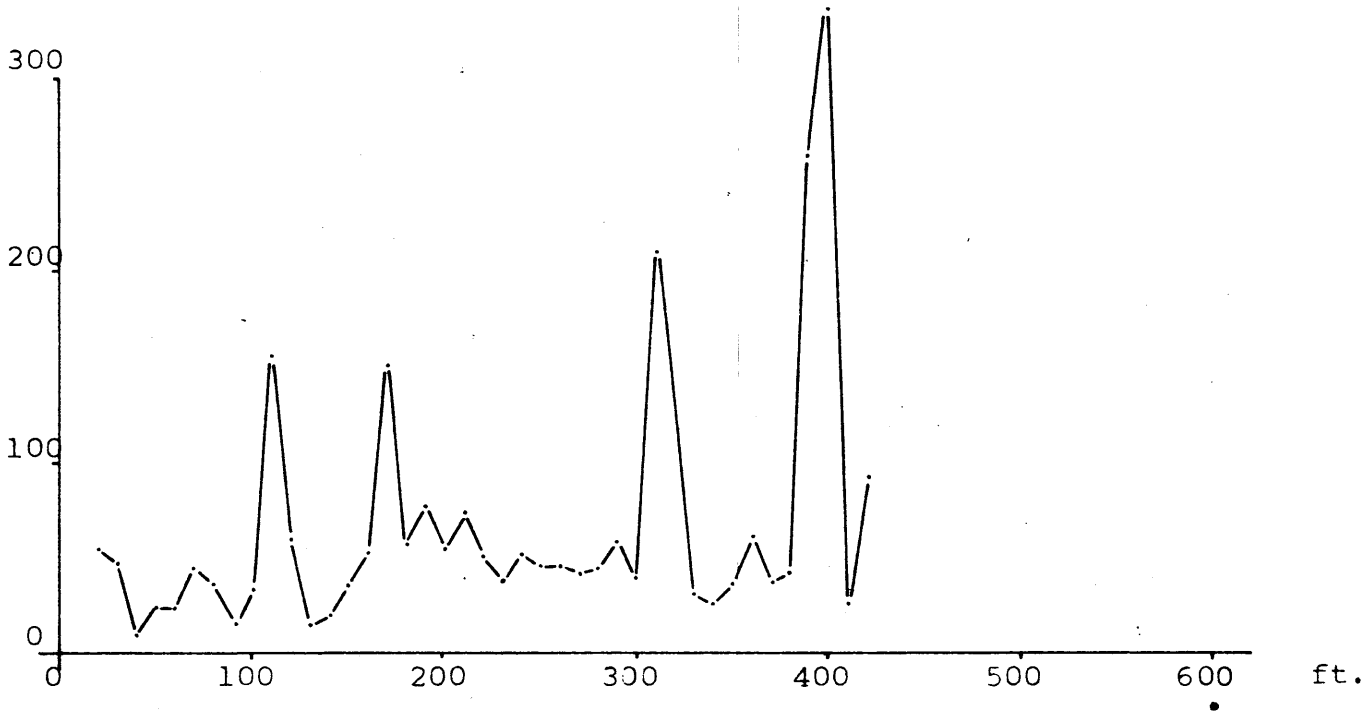
GARNET EXPLOR. CORP.LTD.
DRILL CORE ROCK GEOCHEM
DDH-445-72-2



GARNET EXPLOR. CORP.LTD.
DRILL CORE ROCK GEOCHEM
DDH-445-72-3

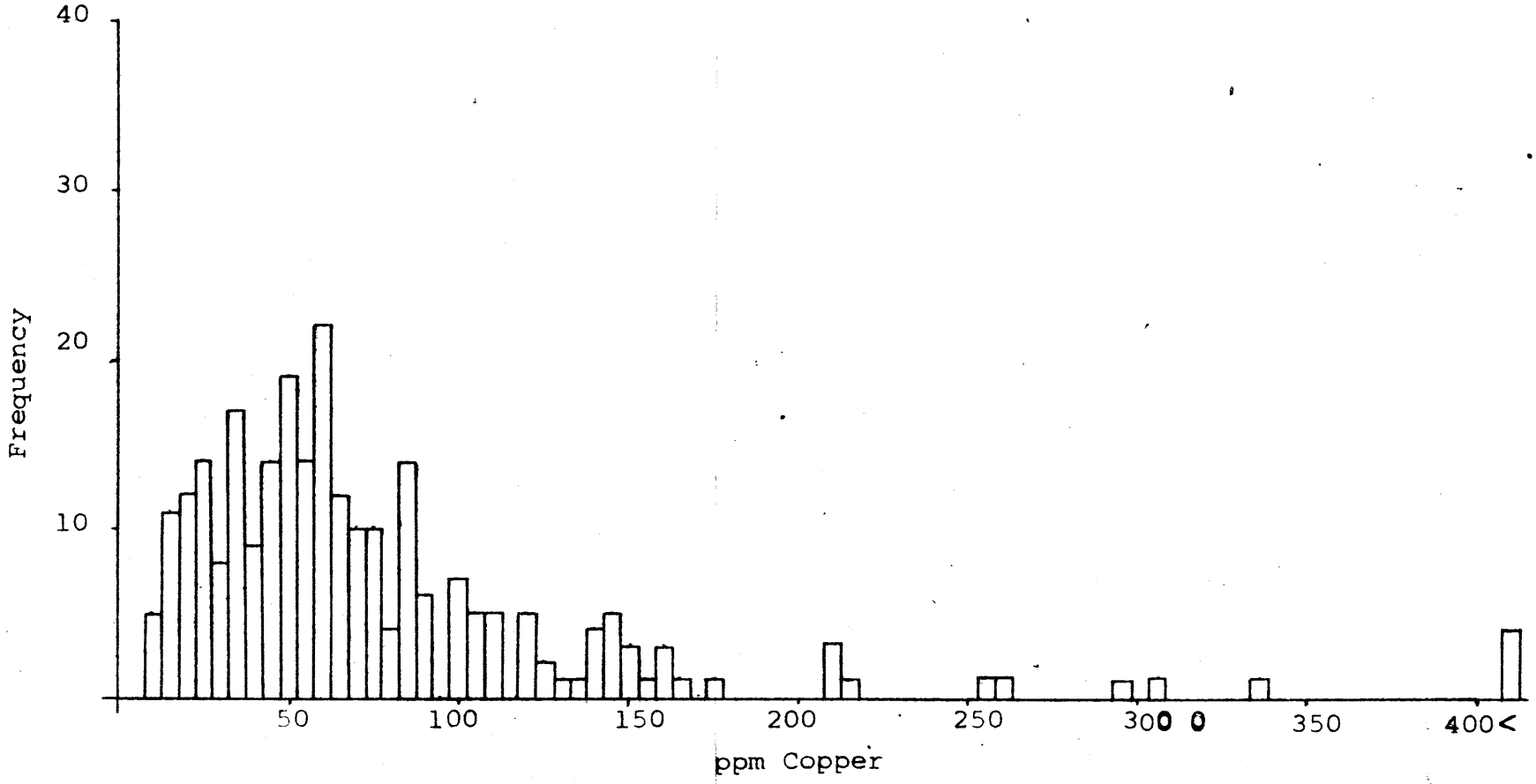


GARNET EXPLOR. CORP.LTD.
DRILL CORE ROCK GEOC EM
DDH-445-72-4



GARNET EXPLOR. CORP. LTD.
DRILL CORE ROCK GEOCHEM
DDH-445-72-5

Fig. 9



GARNET EXPLOR. CORP. LTD.
DISTRIBUTION OF
DRILL CORE GEOCHEM SAMPLES