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SUMMARY REPORT
GALAXY COPPER PROPERTY
KAMLOOPS AREA
By: Velocity Surveys Ltd.,
Aug. 1969
Galaxy

SUMMARY REPORT
ON
EXPLORATION PROGRAM
ON
GALAXY COPPER PROPERTY
OF
UNITED DATA RESOURCES LIMITED (NPL)
FOR
KIMBERLEY COPPER MINES LIMITED
KANLOOPS AREA
KANLOOPS MINING DIVISION
PROVINCE OF BRITISH COLUMBIA

VELOCITY SURVEYS LIMITED
C. T. Pasicka, B.Sc.
J. B. Prondost, M.A., P.Eng.
August 11, 1969.

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PROPERTY

The property under discussion consists of some 46 located contiguous mineral claims and six Crown Grant mineral claims as follows:

<u>Crown Grant Mineral Claims</u>	<u>Record Nos.</u>
Kentucky	L835
Ben Hur	L1037
Golden Star	L845
Evening Star	L1013
No. 7	L998
Prince of India	L1038
<u>Located Mineral Claims</u>	<u>Record Nos.</u>
Venus 1-10 Incl.	34216-34225

<u>Located Mineral Claims</u>	<u>Record Nos.</u>
Venus 11 Fraction	34226
Dart 1	34181
Dart 2	34182
Dart 3	34227
Rocket 1	34185
Rocket 2 Fraction	34186
Rocket 3-14 Incl.	34187-34198
Rocket 13 Fraction	34199
Rocket 16 Fraction	34200
Ursus 1-3 Incl.	34206-34208
Ursus 4 Fraction	34209
Ursus 5 Fraction	34210
Ursus 6	34292
Ursus 7 Fraction	34293
Key 1 Fraction	34183
Key 2 Fraction	34184
Shear 1-4 Incl.	34211-34214
Shear 5 Fraction	34215
Shear 6	34290
Shear 7 Fraction	34291

The above-mentioned Located mineral claims and Crown Granted mineral claims are held by United Bata Resources Limited (UBRL) and are registered in the Kamloops Mining Division, Province of British Columbia.

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LOCATION AND ACCESS

The property under discussion is located some two miles south from a point on the Trans-Canada Highway, five miles west of the city of Kamloops, British Columbia. During the summer months vehicular traffic may be used to gain access to all parts of the property by means of several secondary roads traversing the property and making connection to either the Lac La Jeune Road or the Trans-Canada Highway. The city of Kamloops is serviced by C.N.R., C.P.R., P.W.A., and the Trans-Canada Highway. The city of Kamloops occurs some 268 miles northeast of Vancouver, British Columbia.

TOPOGRAPHY AND VEGETATION

The property presents a surface of gently rolling range-land with local relief seldom greater than 200 feet. Various points on the property have elevations of from 2800 to 3700 feet above sea level. Approximately 50% of the area of the property is forest covered with commercial to sub-commercial ponderosa pine, spruce and balsam. The intervening open areas support sagebrush and various grasses to qualify as cattle grazing land. Water supplies, though highly alkaline and not fit for human consumption, are available by virtue of several large ponds or small lakes suitable for drilling and mining purposes. Supplies of fresh water for camp purposes, etc. may be piped in from the adjoining Makao Property or from the

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Thompson River some four miles due north of the property. The Crown Granted mineral claims offer supplies of timber suitable for most mining purposes. Timber for specialized duty, i.e. headframe construction, ladders, etc. would necessarily be imported from the coastal regions.

HISTORY

The area underlain by the Iron Mask Batholith, including the area under discussion, has been sporadically investigated in the search for economic mineralization since 1896. To the west of the Galaxy Property, the Iron Mask and surrounding satellite workings produced some 5.3 million pounds of copper in the period 1901 to 1928. Kennecott Copper, Graham Bousquet Ltd., Noranda Mines Limited, as well as numerous exploration companies have conducted exploration programmes entailing geochemical, geophysical and geological studies as well as diamond drilling programmes. On several properties in the immediate vicinity of the Galaxy Property tonnages of mineralized material grading from 0.5 to 2% copper have been indicated. To the south and west of the property, Cominco Limited have outlined a mineralized structure containing some ten million tons of material grading 0.5% copper on their Ajax Property. To the west, Kamloops Copper Consolidated Limited have outlined in part by means of diamond drilling, mineralization of the order of one million tons grading from 0.5 to 1% copper. Immediately to the east of the Galaxy Property underground development, diamond drilling, and surface

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stripping have indicated a mineralized body of some 250,000 tons grading from 1.5 to 2% copper on the Makao Property. Further, recent exploration work has indicated additional mineralization of lesser tenor. Detailed information is not immediately available to the authors.

Between 1903 and 1908 a two-compartment shaft was sunk on the Evening Star claim. In 1956 the current holders of the property rehabilitated this shaft and conducted an extensive diamond drilling and surface stripping programme with moderate success. In the period from 1956 to 1963 selected areas of the property were subjected to geophysical and geochemical investigations as well as additional diamond drilling. In the field season 1964-1965 the entire area of the property was covered by a magnetometric and induced polarization survey, further a detailed geological mapping programme was carried out as was a programme of additional diamond drilling. In 1966 the property was optioned to Vanco Limited who conducted only minimal diamond drilling on the property in order to confirm previous exploration results. In the summer of 1968, three diamond drill holes were collared in order to investigate a mineralized structure lying beneath the pond immediately to the west of the Evening Star shaft. The first two of these holes were aborted due to mechanical drilling difficulties, however the third hole was completed, i.e. S-53 which will be discussed in later pages. During the early part of 1969 commencing in January, a diamond drill programme consisting of 16 holes was carried out in order to obtain informa-

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tion between existing wide-spaced drilled sections. In addition a geochemical soil sampling program was carried out over a selected area of the south part of the property in an attempt to obtain correlating information over two areas indicated as anomalous during the course of the induced polarization survey.

GEOLOGY

The property under discussion lies within and along the central-north margin of the Iron Mask Batholith. The Iron Mask Batholith is a member of the Coast Intrusive Series and is locally represented by a suite of rocks ranging from a monzonite through syenite and diorite to a gabbro. To the north and northeast the Iron Mask Batholith is overlain by sediments and volcanic rocks of the Kamloops Series. To the south and southwest the Iron Mask Intrusive is overlain by andesite and basalt, members of the Nicola Volcanics. The longer dimension of the Iron Mask Batholith strikes roughly northwest, southeast and extends some twelve miles along this strike length from Cherry Bluff on Kamloops Lake down to Shumway Hill on the Kamloops-Merritt Highway.

In composition these batholithic rocks occur along a broad spectrum. In general, they are silica-poor although minor massive quartz veins do occur along the south central portion of the intrusive mass. The broad variation in composition of the various rock types represented reflects, in part, a complex sequential intrusive history. Geological opinion of the intrusive history of the batholith varies greatly amongst workers

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in the area. It would appear that the geographical centre of the intrusive mass occurs along the south portion of the property in the vicinity of Jocko Lake. The coarse grained gabbroic rocks represented in this area are relatively undisturbed, show a strong tendency towards being porphyritic, especially with regard to ferro-magnesian minerals and are thought to represent the denuded central core of the main intrusive. Along the north margin of the property, i.e. the Number One Zone, a mafic suite of rocks including diorites and andesites are thought to represent a highly altered and disturbed portion of a roof pendant of the intruded rocks.

Underlying these mafic diorites and andesites occur extensive areas of porphyritic feldspar syenite. This porphyritic syenite is considered to be an acid differentiate of the intrusive magma and most probably antedates the coarse grained gabbroic rocks to the south. Contact with the overlying and offlapping dioritic rocks is made by virtue of a very strongly developed shear zone. To the southeast of the Galaxy No. One Zone, field evidence indicated a possible gradation of the syenitic rocks with the more mafic dioritic rocks, however conclusive evidence is lacking. Along the north and northeast margins of the Iron Mask Batholith occur substantial, long dyke-like masses of picrite basalt or peridotite. These dykes may have dimensions of some hundreds of feet in width, are steeply inclined and apparently have made entry along zones of weakness, i.e. strong joint lineations parallel to the margins of the Batholith. The picrite basalt is usually extremely altered to chloritic and talcose

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minerals and is completely foliate in character. The latter probably indicates a very forceful entry into the intruded rocks in either a solid or semi-solid state. The abundance of flow-lineations within the rock mass would accomodate extremely rapid alteration, namely serpentization and chloritization. Similarly, along the north margin of the Iron Mask Batholith, occur a suite of rocks locally termed Cherry Creek Breccia. Again making entry along joint lineations, these micro-monzonites and micro-syenites owe their origin to a gas action mechanism, at times of explosive force. This is evidenced by gas streaming, occasional vesicularity, and a great variety in the contained xenoliths, i.e. diorite, andesite, and sediments, in a matrix of micro-syenite or micro-diorite. The Cherry Creek Breccia is invariably characterized by a typically salmon-pink feldspar, plagioclase, and is extensive in occurrence to the west on the Kamloops Copper Consolidated Property and to the east on the Rolling Hills and Makao Properties; its occurrence has not been observed on the Galaxy Property.

A pseudo-statistical analysis of all planar lineations carried during the course of the geological mapping programme indicated two principal joint directions and a flat-lying shear zone. In the vicinity of the Galaxy Property, the major set of joints strike approximately northwest and vary only slightly from the vertical. These joints are parallel to sub-parallel to the contact of the Batholith with the intruded rocks and represents structural failure both during the intrusive period

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and subsequent cooling period. The secondary set of joints are sub-rectilinear to the primary set and are similarly steeply oriented. In major part these are due to shrinkage during the cooling period of the Batholith. A flat-lying shear is usually present along the north margin of the Batholith striking north-westerly and dipping slightly to the southwest.

MINERALIZATION

Sulphide mineralization in order of occurrence on the property includes pyrite, chalcopyrite and molybdenite. The near surface manifestations of these sulphides occur in the form of malachite, azurite, molybdic oxide, and limonite. Pyrite and magnetite are ubiquitous within all of the rocks present in minor concentration. The sulphide mineralization tends to favour two modes of occurrence. Minor fractures and micro-fractures frequently contain paper-thin fillings and disseminations of pyrite and chalcopyrite to give the impression of a genuine dissemination through the country rocks. On occasion, especially in areas of high surface area, i.e. sub-rectilinear fracturing due to two joint directions and a flat-lying shear zone, fracture fillings may coalesce so as to present lenticular masses of massive sulphides. In part, this intimate admixture of pyrite and chalcopyrite is primary, probably late stage, however there is frequent evidence of subsequent replacement especially on the part of chalcopyrite. Drill hole sections on occasion have yielded up to 6% copper over narrow widths. The most favoured host in the area

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of the Galaxy Zone No. One is that of the diorite and andesites comprising the postulated roof pendant. The syenite is usually barren of copper mineralization, however is usually well mineralized by disseminated pyrite. Large xenoliths of variable composition and origin found within the dyke-like mass of peridotite are frequently mineralized with chalcopyrite and magnetite both as "disseminations" within the xenoliths in the peridotite, as well as lenses of massive sulphide within the peridotite in immediate proximity to the contact with the diorite. On one occasion, i.e. the top section of Hole S-17, massive chalcopyrite and magnetite occurred in immediate association, however this relationship has not proven consistent throughout the property.

WORK PROGRAMME - 1969

Commencing in mid-January, 1969 a diamond drill programme consisting of some 5,116 feet of N.Q. and B.Q. Wireline Core Drilling was carried out. The purpose of the drilling was to supply additional information in areas where previously drilled sections were widely spaced and to trace, in part, mineralization of higher than normal tenor. This programme was completed during the month of May, 1969. In addition, a geochemical soil sampling survey was conducted over the south part of the property in the vicinity of Jocko Lake where previous induced polarization results yielded two areas of anomalously high chargeability. Due to the extreme weather conditions in January and February, this work could not be commenced until April.

The diamond drilling was contracted to and executed

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by Pacific Diamond Drilling Limited of Vancouver.

GEOCHEMICAL SURVEY

Method

The purpose of a geochemical soil sampling survey in the normal course of events is to detect anomalously high concentrations of metallic ions in overburden cover. The method has proven reasonably successful in this area due primarily to the high pH of the soil. Solutions carrying metallic ions would tend to migrate towards the surface by capillary action. These solutions are normally acidic and upon entering the basic environment of the overburden cover precipitation of these ions tends to be rapid. Further, the rapid rate of evaporation in the area would tend to maintain the high pH of the soil. These factors would contribute to fixation of the metallic ions in the soil and control lateral migration. Theoretically then, anomalous concentrations of, say, copper in the overburden cover would be indicative of cupriferous mineralization at bedrock surface.

Soil samples were extracted at 200 foot intervals along a controlled grid, and were extracted from the "B" horizon, i.e. immediately below the humus layer, by means of a stainless steel ship's auger. Individual samples were placed in heavy manila envelopes, catalogued and air-dried. They were then shipped to Crest Laboratories Limited of Edmonton, where, under the direction of Mr. R. Sawyer, individual samples were screened to minus 80 mesh, subjected to cold nitric acid extraction and the copper content determined by means of the atomic absorption

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technique. The individual analyses are plotted in their appropriate geographical positions on the accompanying map, with the copper content expressed as parts per million.

DISCUSSION OF RESULTS

The geochemical survey did not delineate any definite areas or zones corresponding to the previously outlined induced polarization anomalies. The induced polarization anomaly designated Zone No. Two is generally coincident with a minor increase in copper content of the soil. This increase amounts to approximately 1-1/2 times background and cannot be considered especially significant at this time. The north portion of the area designated Zone No. Three is crudely synchronous with a small area where the copper content approaches 100 parts per million. Again, this very slight increase in copper content cannot be treated with any degree of certainty. The single anomalous reading on line 32 W and 74 S, i.e. 430 parts per million was field edited. No obvious explanation for the high reading was discovered and it is assumed that the high reading was caused by an erratic in the overburden containing copper mineralization. In view of the general lack of contrast in the overburden, copper values and lack of high values it must be tentatively concluded that the induced polarization anomalies previously indicated would owe their origin either to the presence of pyrite mineralization or possibly feldspathization of the underlying rocks. Outcrop in the area is scarce, however pyrite has been observed to be ubiquitous in the coarse-grained

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gabbroic rocks here present.

DIAMOND DRILL PROGRAM

The purpose of the diamond drilling program carried on in 1969 was to attempt to further delineate ore bearing structures indicated in previous drilling and to provide sampling information in areas within the overall mineralized zone where information was lacking due to the wide spacing of the drilled sections. A brief summary of the individual holes drilled in this program is as follows:

GK-1 - This hole was collared 50 feet east of the collar of hole S-17 and drilled at minus 45° in a westerly direction. A composite section of 60.8' of 0.97% copper containing several sections of much higher tenor similar to that experienced in hole S-17 was encountered.

GK-2 - This hole was collared 250 feet west of GK-1 on line 9+00N. This hole was aborted upon reaching a depth of 80 feet due to shrinkage within the hole caused by the highly foliate peridotite with its strong tendency to mudding.

GK-3 - This hole was collared at 9+00N - 0+00 and drilled vertically. A short section of 19.9' yielded values of 0.45% copper. In spite of the lower grade, this mineralization was of similar character to that experienced in GK-1 and S-17 and is thought to bear a relationship in space to that mineralization.

GK-4 - This hole was collared at 8+00N - 1+50E and drilled westerly at minus 45°. No cupriferous mineralization of any significance was encountered in this hole.

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GK-5 - GK-5 was collared at 2+50E on line 9+00N and drilled at minus 45° in a westerly direction. Core recovery in the mineralized section of this hole was very poor. A composite section yielded 132.1' of .271% copper and consisted of several sections of higher tenor. It is to be noted that sections of lost core were not used in this calculation, i.e. spaced mineralized sections were taken over the length of 132.1', so that the tenor expressed over this section is of necessity a bare minimum value.

GK-6 - This was collared at 8+00N - 0+00W and drilled at minus 45° in an easterly direction. Only a minor section of 18.65' of 0.25% copper was encountered. This hole was drilled in an attempt to intersect the southern extension of the mineralization experienced in holes GK-1, and S-17. The trace of this hole is synchronous with an east-west depression possibly the result of a fault which could terminate the mineralization encountered to the north.

GK-7 - Was collared at 7+00N - 0+00W and drilled at an inclination of minus 45°, in an easterly direction. This hole yielded a 63.1' section grading 1.08% copper.

GK-8 - GK-8 was collared at 6+00N - 0+00W and drilled easterly at minus 45°. No mineralization of any economic significance was encountered in this hole.

GK-9 - This hole was collared at 5+00N - 0+00W and drilled at minus 45° in an easterly direction. No significant mineralization was encountered.

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GK-10 - Collared at 14+00N - 1+00E. This vertical hole encountered two sections of 63.2' grading 0.53% copper, and 48.2' grading 0.35% copper. These two mineralized sections were encountered in the diorite roof pendant underlain by the syenite.

GK-11 - This hole was collared at 14+00N - 2+00E with a vertical orientation. The 94.8' section grading .742% copper was revealed, again hosted by the diorite roof pendant.

GK-12 - 14+00N - 0+00E with two sections consisting of 40' grading 0.59% copper and 44.1' grading 1.719% copper were encountered in this hole.

GK-13 - The hole was collared at 14+00N - 1+00W and was drilled vertically and intersected no mineralization of any significance.

GK-14 - Was collared at 3+00E on line 14+00N. This vertical hole intersected no mineralization of any interest.

GK-15 - Was collared at 18+00N - 2+00E and this vertical hole was drilled in an attempt to pick up the near surface projection of the mineralization encountered in holes G-10 and G-39. No significant mineralization was encountered. In addition, core recovery was extremely poor.

GK-16 - Collared at 18+00N - 1+00E, encountered no significant mineralization. It is worthy of note that the information on sections 18+10N would indicate that either the wedge-shaped diorite pendant indicated along section 11+00N has either reversed its dip by means of a hinge fault lying immediately south of 18+00N or that the diorite encountered in holes GK-15 and GK-16 represents

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an additional smaller roof pendant remnant. Further, it is suspected that the mineralized zone is further complicated by a bifurcation in a northerly direction.

SUMMARY AND CONCLUSIONS

An analysis of all drilling and sampling data available would indicate that the mineralization tends to occur as a series of crudely lensoid masses with a tendency to be discontinuous along the direction of their major dimension, i.e. north-north-west. This discontinuity is probably caused by minor east-west faults yielding a series of an echelon mineralized zones. The mineralized zone comprised of these disjointed mineralized lensoid masses has been blocked out over a strike length of some 1200 feet and may approach widths of 500 to 600 feet. Depths in general do not exceed 300 feet.

The individual component mineralized lenses mentioned previously consist of joint linings and coalescing lenses of massive to disseminated sulphide mineralization. Within a particular zone values over a few feet may vary from almost barren rock to lenses of massive sulphides grading upward of 5% copper. Due to the extremely complex geological structure, these individual lenses have not been delineated on an individual basis. Motivation of the exploration program has been channelled towards developing a large low-grade tonnage of copper bearing ore with a grade approaching 0.5% copper. Notwithstanding the above, it is thought that these individual lenses of higher grade material

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could be economically extracted using conventional underground mining methods.

Sampling by means of diamond drilling in the area has been fraught with difficulties, i.e. extremely poor core recovery in mineralized zones, inability to drill holes in some areas due to shrinkage within the hole, and frequently encountering unconsolidated material in fault zones. It must be concluded then that the sampling results obtained from the three diamond drilling programmes must be treated as minimum values. Further, drilling from surface would not yield an appropriate return by way of either mineralogical or geological information for the exploration expenditures required.

In view of the above, effective sampling could only be obtained by means of an underground development and bulk sampling programme. Using a minimum of underground lateral development and thence conducting an underground diamond drilling program, the mineralized zones could be accurately assessed. With this in view, the Evening Star shaft was dewatered and the timbering and superstructure critically examined. It has been concluded that the present shaft may be rehabilitated to a depth of 92' for a minimal outlay of cash. This shaft could be deepened to a depth of 200' and lateral work conducted from that level. Lateral development of the order of 2,000 lineal feet would provide access at that horizon to most mineralized areas indicated by diamond drilling. Alternately a "spiral" incline could be driven to accomplish the same ends. Such an underground programme would

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facilitate critical sampling of mineralization, provide detailed information regarding structural control of the mineralization, provide large volume samples for milling and metallurgical testing and at the same time provide access should actual mining operations commence.

ORE RESERVES

Assay results from all of the known drilling carried out on the property were plotted in plan and section, and ore reserves calculated. For purposes of calculation a cutoff grade of 0.5% copper was used. In cases where samples were not available by virtue of lost core, no attempt was made to weight the sections mathematically. On each section areas of specific grade were measured with a planimeter and volumes derived either by multiplying by half the distance between sections, or using the method of zone of influence for individual holes. A volume ton factor of 11.3 cubic feet was used.

Definitions used regarding categories, i.e. positive ore, probable ore, and possible ore, are taken from the paper, "Policy and Guide for Mining Engineers and Geologists Submitting Reports to The British Columbia Securities Commission", Page 2:

- A. Positive Ore - Developed ore, or blocked out ore for material that has been delimited on four sides.
- B. Probable Ore or Indicated Ore - For ore which has been opened up on at least two sides.
- C. Possible or Inferred Ore - For material believed to exist beyond the known portion of the deposit but which has been insufficiently explored to be classed as

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probable ore.

Using the above guide lines the following tonnages of material containing cupriferous mineralization to qualify for copper ore have been derived. Proven ore - 3,848,027 tons grading 0.633% copper. Indicated ore - 962,007 tons grading 0.633% copper. Sub-total 4,810,034 tons grading 0.633% copper. Dilution at 20% - 962,006 tons grading 0.20% copper. Total available ore - 5,772,040 tons grading 0.56% copper.

The geological structure along which the above mineralization occurs is continuous to the northwest and to the southeast, i.e. Kamloops Copper Consolidated and Makao Development Limited respectively. Mineralization to the northeast and southwest has not been delimited so that the assumption that a similar quantity of ore could exist at either end of the known structure is a reasonable one. In addition, geophysics indicate that the structure is continuous beyond the known mineralized area. Possible ore could easily approach and exceed 100% of the proven and probable ore previously indicated and blocked out.

RECOMMENDATIONS

In view of the difficulties encountered in diamond drilling and extremely high costs involved with a disproportionate return of critical information, it is recommended that a minimal underground sampling and development programme be carried out. Various methods and costs have been investigated along the lines of driving a multi-direction incline as well as conventional shaft

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sinking and drifting. It is felt that the greatest economy can be effected by rehabilitating the Evening Star shaft to its original depth of 92', deepening this shaft to a depth of 200', and driving laterally by means of drifting. It is estimated that some 2000' of drifting would be sufficient to obtain the necessary information. Estimated costs for this underground development are as follows:

PHASE I

Collar preparation, headframe construction, clean-up of underground workings, retimbering where necessary, and cleaning out the present workings in preparation for the continuing programme - estimated	\$ 10,875.00
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PHASE II

Sinking to the 200' horizon, i.e. 108' - estimated	20,000.00
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PHASE III

Drifting, approximately 2000' - estimated	<u>176,000.00</u>
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TOTAL ESTIMATED COSTS FOR UNDERGROUND DEVELOPMENT:	<u>\$206,875.00</u>
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Concurrent with the underground development programme, an extensive sampling programme is to be carried out. This sampling programme is to include sampling as underground development work proceeds as well as bulk sampling for milling and metallurgical testing.

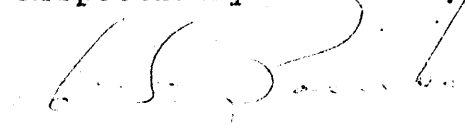
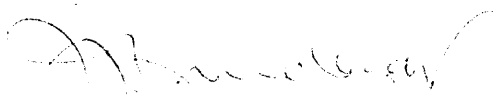
Sampling, handling, storage facilities, transport is estimated to cost some \$19,200.00.

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Engineering supervision, surveying, extra labour,
extra transport, etc. estimated at \$20,600.00.

The total expenditure entailed, should the develop-
ment and sampling programme be taken to completion, would be
some \$246,675.00.

Respectfully submitted,

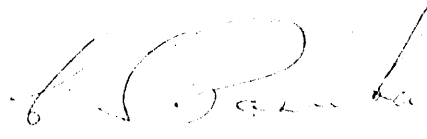
VELOCITY SURVEYS LIMITED
C. T. Pasioka, B.Sc.
J. B. Prendergast, M.A., P.Eng.

CERTIFICATION

I, Clemens Terence Pasioka, of the City of Vancouver, Province of British Columbia, hereby certify that:

1. I am a geologist and reside at 906 - 1445 W. 13th Avenue, Vancouver, B.C.
2. That I graduated from University College, Dublin with a degree in Geology (B.Sc.) 1963.
3. That I have been practicing my profession as a geologist for six years.
4. That I am a member of the Association of Professional Engineers of Alberta and Saskatchewan.
5. That I have no interest directly or indirectly in the property of Galaxy Copper Limited, nor do I expect to receive such interest nor in the securities of Galaxy Copper Limited.
6. That this report is based on data derived from work carried out under my supervision on the property, from personal experience in the area, and from government publications relevant to the area.

Dated this 11th day of August, 1969, in the City of Vancouver, Province of British Columbia.



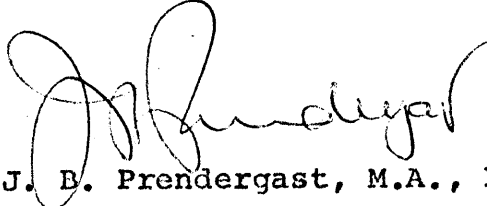
C. T. Pasioka, B.Sc.

CERTIFICATION

I, Joseph Benoit Prendergast, of the City of Calgary, Province of Alberta, hereby certify that:

1. I am a geophysicist-geologist with offices at 524 11th Ave. S.W., Calgary, Alberta.
2. I am a graduate of the University of Toronto, B.A. (Physics and Geology), M.A. (Geophysics) 1951.
3. I have been actively and continuously engaged in mineral exploration and development for 18 years.
4. I am a member of the Associations of Professional Engineers of Ontario, Manitoba, Alberta, and British Columbia.
5. I have no interest, directly or indirectly, nor in the securities of, nor do I expect to receive any such interest in Galaxy Copper Limited.
6. That this report is based on data derived from work carried out under my supervision on the property and from government publications relevant to the area.

Dated this 11th day of August, 1969, in the City of Calgary, Province of Alberta.


J. B. Prendergast, M.A., P.Eng.

APPENDIX A

Drill Log Sheets

PROPERTY 9+00N - 1+50E

200'-33-1/2°
400'-35°
497'-32-1/2°

SAMPLING RECORD

HOLE NO. GK-1 DEPTH 497 ANGLE -48°30'

STRIKE West ELEVATION 3042.74' 9+00N

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET	P
					Cu %	%	%		
0	Collar								
22	Casing								
26.8	Diss Py, Cp, -- 2% T.S. Diorite Dk. green - highly sericitized sec. prods. Ser., Chlre, oclase, felds, alb, CO ₃ , Haem, convolute shearing @ -30°	5051F	22-26.8	4.8	0.35			1.68	
29.1	L.C.		26.8-29.1	2.3	0.64			1.47	
30	Diss Py, Cp Highly altered diorite, highly sericitized Sec. products - epidote, chlorite, albite, CO ₃ , sheared @ 46° 90% R.	5052F	29.1-30	.9	0.92			0.82	
32	L.C.		30.0-32	2.0	0.66			1.32	
35.4	Diss Py, Cy, 3% T.S. Dk. green diorite, highly sericitized Sec. products - sericite, chlorite, Pink orthoclase, epidote albite, con- volute shearing @ 50° 90% R.	5053F	32-35.4	3.4	0.40			1.36	
38.2	L.C.		35.4-38.2	2.8	0.80			2.24	
39.8	Py & Cy 2% T.S. Dark green diorite Highly sericitized Alteration products - sericite, chlorite, albite, pyroxene, sheared @ 45° 90% R.	5054F	38.2-39.8	1.6	1.20			1.92	

PROPERTY

SAMPLING RECORD

HOLE NO. GK-1 DEPTH 497 ANGLE 48°30'

STRIKE W(RefBL) ELEVATION 9+00N

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET	PI
					Cu %	%	%		
42.1	Diss Py Cy Dark Green diorite Mod. sericitized Sec. products CO ₂ , sericitie, chlorite, epidote, pink orthoclase, sheared @ 10° 100% R	5055F	39.8-42.1	2.3	0.50			1.150	
43.2	L.C.		42.1-43.2	1.1	0.95			1.04	
44.3	Diss Py & Cy Dark Green diorite Highly sericitized Sec. products - chlorite, sericite, CO ₃ , albite, sheared @ 35°	5056F	43.2-44.3	1.1	1.40			1.540	
45.2	L.C.		44.3-45.2	0.9	0.76			0.68	
46.2	Diss Py & Cy Dark green diorite Highly sericitized Sec. products - sericite, chlorite, CO ₃ , pink ortho, hematite, sheared @ 30° 95% R	5057F	45.2-46.2	1.0	0.12			0.120	
47.6	L.C.		46.2-47.6	1.4	0.08			0.11	
50.0	No visible mineralization Dark green diorite Highly sericitized Sec. products - sericite, calcite, chlor, Pink ortho, albite, hematite Sheared @ 40° 100% R	5058	47.6-50.0	2.4	0.05			0.12	

PROPERTY

SAMPLING RECORD

HOLE NO. GK-1 DEPTH 497 ANGLE 48°30'

STRIKE W(RefB1) ELEVATION 9+00N

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET
					Cu %	%	%	
55.0	Diss Py & Cy .05% Dark green diorite Highly to mod. sericitized Sec. products - sericite, chlor, calcite, albite, sheared @ 45° 100% R.	5059	50-55.0	5.0	0.15			0.75
59.3	Diss Py & Cy .05% Dark green microdiorite Mod. sericitized Sec. products - sericite, chlorite, CO ₃ ⁻ , epidote, hematite, pyroxene, pink orthoclase sheared @ 60° 100% R.	5060	55-59.3	4.3	0.20			0.86
63.5	Py & Cy 6% 3% T.S. Dark grey-green microdiorite slightly sericitized Sec. products - sericite, chlor, epidote, pyroxene, trace quartz, sheared @ 50° 100% R.	5061	59.3-63.5	4.2	5.00			21.00
65.0	Py Cy 2.5% Dark green diorite Highly sericitized Sec. products - sericite, chlor, CO ₃ ⁻ , albite, sheared @ 35° 100% R.	5062	63.9-65	1.5	3.57			5.35

SAMPLING RECORD

ERTY

NO. GK-1 DEPTH 497 ANGLE 48°30'

STRIKE W(RefBL) ELEVATION

CO-ORDINATES 9+00N 1+50E

DEPTH	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS			REMARKS
					Cu %	%	%		FEET X PER CENT			
69.7	Diss Py Cy Dark green microdiorite Mod. sericitized Sec. products - sericite, chlorite, CO3 epidote, pyroxene, albite sheared @ 35° 100% R.	5063F	65.0-69.7	4.7	1.50			7.05				
71.3	Py Cy Dark green microdiorite Mod. sericitized Sec. products - sericite, chlor, pyroxene, albite, CO3, sheared @ 30° 100% R.	5064F	69.7-71.3	1.6	1.72			2.75	22.0-82.8			1.01%Cu
72.6	Diss Py & Cy Dark green microdiorite Highly sericitized Sec. products - sericite, chlor, CO3, pyroxene, albite, sheared @ 30° 100% R.	5065F	71.3-72.6	1.3	0.17			0.22	(10'LC)			Calculated 60.8' @ 0.97%Cu
80.0	Diss Py & Cy Dark green microdiorite Highly sericitized Sec products - sericite, chlor, pyroxene, albite, CO3, sheared @ 30° 100% R.	5066F	72.6-80	7.4	0.65			4.81	22.0'-82.8'			
82.8	Diss Py & Cy Dark green micro diorite, mod. sericitized, alterations, sericite, chlor, some CO3, epidote, pyroxene, hematite, sheared @ 25° 100% R.	5067	80.-82.8	2.8	0.15			0.42				

SAMPLING RECORD

PERTY

E NO. GK-1 DEPTH 497 ANGLE 48°30'

STRIKE W(RefBL) ELEVATION

CO-ORDINATES
9+00N 1+50E

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS FEET X PER CENT			REMARK
					%	%	%					
82.8												
84.2	L.C.											
88.4	Diss Py & Cy Microdiorite Highly sericitized Sec. products - sericite, chlorite, pyroxene, CO ₃ , hematite, sheared @ 30°, epidote	5068	84.2-88.4	4.2	0.05				0.21	0.21		
	90% Recovery Assay #5001F											
90.0	L.C.											
91.5	Diss Py & Cy Dark Green diorite (altered) Highly sericitized Sec. products- sericite, chlorite, hematite, CO ₃ , some epidote, pyroxene, sheared @ 30°	5069	90-91.5	1.5	0.10				0.15			
	100% R.											
94.1	Diss Py & Cy 0.4% Dark green altered diorite Highly sericitized Sec. products - sericite, chlorite, albite, pink orthoclase, pyroxene, CO ₃ , hematite, some epidote sheared @ 50°	5070	91.5-94.1	2.6	0.07				0.18			
	100% Recovery											
95.0	No visible mineralization Green epidotized diorite Sec. products - epidote Hematite, chlorite, sericite, pyroxene, CO ₃ , pink orthoclase, albite, sheared @ 45°, 100% Recovery	5071	94.1-95.1	0.9	0.02							
	Very hard, brittle.											
97.05	Diss Py Cy 0.03% Grey green microdiorite - highly sericitized	5072	95-97.05	2.05	0.05							

SAMPLING RECORD

HOLE NO. GK1 DEPTH 497 ANGLE 48°30'STRIKE W (RefBL) ELEVATION _____

9+0

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET	P
					Cu %	%	%		
	Dark green diorite Highly sericitized & epidotized Sec. products - epidote, sericite, chlorite, pyroxene, hematite, sheared @ 30° 100% Recovery								
110.3	Diss Py Cy	5077	110-110	3 0.3	0.02				
	Dark green altered diorite Highly sericitized Chlorite, pink orthoclase, albite, CO ₃ , pyroxene Sheared @ 20° 100% Recovery								
110.8	L.C.								
114.8	Diss Py Cy 0.2%	5078	110.8 - 114.8	4.0	0.60				
	Grey green diorite Highly sericitized Sec. products - sericite Chlorite, pyroxene, CO ₃ , hematite, albite, pink ortho, some epidote, sheared @ 30° 100% Recovery.								
116.7	Py Cy 0.4%-0.6%	5079	114.8 - 116.7	1.9	0.37				
	Dark grey diorite, highly sericitized & epidotized Sec. products - sericite, chlorite, al- bite, hematite, epidote, pink ortho- clase, pyroxene, sheared @ 45° 100% Recovery								
117.0	L.C.								
118.6	No visible mineralization moderately sericitized Sec products - hematite, sericite, chlorite, pyroxene, albite, CO ₃ , sheared @ 35° 100% Recovery	5080	117.0 - 118.6	1.6	0.07				

PROPERTY

SAMPLING RECORD

9+00N

HOLE NO. GK1 DEPTH 497 ANGLE 48°30'

STRIKE W (Ref B1) ELEVATION _____

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET	PF
					Cu %	%	%		
119.8	Diss Py Cy Dark green diorite Highly sericitized - Sec. Products, sericite, chlorite, pyroxene, CO ₃ , albite, sheared @ 35° 100% Recovery	5081	118.6-119.8	1.2	0.02				
121.6	Diss Py Cy Dark green diorite Highly sericitized - Sec. products - sericite, chlorite, pyroxene, albite, hematite, pink orthoclase sheared @ 30° 100% Recovery	5082	119.8-121.6	1.8	0.02				
125.0	Py Cy Dark green diorite Highly sericitized Sec products - sericite, chlorite, pyroxene, CO ₃ , hematite, albite, pyroxene phenocrysts in porphyry sheared @ 45° 100% Recovery	5083	121.6-125.0	3.4	0.01				
127.1	No visible mineralization Dark green diorite Moderately sericitized - sec products. sericite, chlorite, pink orthoclase, albite, pyroxene, CO ₃ , hematite, sheared @ 45° 100% Recovery	5084	125.0-127.1	2.1	0.02				
131.6	Diss Py Cy Dark green diorite Highly sericitized Sec products - sericite, chlorite, CO ₃ , pink ortho, albite, pyroxene, hematite, sheared @ 30° 100% Recovery	5085	127.1-131.6	4.5	0.05				
132.1	L.C.	5086	132.1-	2.7	0.03				
134.8	No visible mineralization Dark green diorite		134.8						

PROPERTY

SAMPLING RECORD

HOLE NO. GK1 DEPTH 497 ANGLE 48°30'

STRIKE W(RefB1) ELEVATION 9+00N

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET	PERCENTAGE
					Cu %	%	%		
	Sec products - sericite, chlorite, pyroxene, albite, sheared @ 30° 100% Recovery								
139.6	No visible mineralization Dark green diorite Highly sericitized - sec. products - sericite, chlorite, pyroxene, albite, hematite. Sheared @ 30° 100% Recovery	5087	134.8-139.6	4.8	Tr.				
144.4	No visible mineralization Dark green diorite Highly sericitized - Sec. products, sericite, chlorite, albite, pyroxene, hematite Sheared @ 30° 100% Recovery	5088	139.6-144.4	4.8	Tr.				
150.0	No visible mineralization Green microdiorite Highly sericitized - Sec. products, sericite, chlorite, CO3, pyroxene, hematite, albite, Sheared @ 30° 100% Recovery	5089	144.4-150.0	5.6	Tr.				
155.5	Diss Py Cy .04% Dark green microdiorite Moderately sericitized Sec. products - sericite, chlorite, pyroxene, albite, hematite Sheared @ 35° 100% Recovery	5090	150.0-155.5	5.5	0.05				
Very hard and brittle									
160.9	No visible mineralization Green microdiorite Moderately sericitized - Sec. products, sericite, chlorite, albite, hematite, some epidote, pyroxene, sheared @ 45° 100% Recovery	5091	155.5-	5.4	Tr.				

PROPERTY

SAMPLING RECORD

HOLE NO. GK 1 DEPTH 497 ANGLE 48°30'

STRIKE W(RefB1) ELEVATION _____ 9+00N

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET	PH
					Cu %	%	%		
165.9	Diss Py Cy .05% Dark green diorite Moderately sericitized - Sec. products, sericite, chlorite, albite, pink orthoclase, pyroxene, some epidote occurs along shear zone Sheared @ 45° 100% Recovery	5092	160.9-165.9	5.0	Tr.				
171.5	Diss Py Cy .04% Dark green diorite Moderately sericitized - Sec. products, sericite, chlorite, pyroxene, epidote, albite, CO3, hematite, sheared @ 45° 100% Recovery	5093	165.9-171.5	5.6	Tr.				
175.0	No visible mineralization Dark green microdiorite Highly sericitized - Sec. products, sericite, chlorite, pyroxene, CO3, albite, hematite Sheared @ 40° 100% Recovery'	5094	171.5-175.0	3.5	Tr.				
181.6	No visible mineralization Dark green microdiorite Moderately sericitized - Sec. products, sericite, chlorite, some epidote, CO3, albite, hematite, pyroxene, sheared @ 30° 100% Recovery	5095	175.0-181.6	6.6	0.12				
186.9	No visible mineralization Dark green microdiorite Moderately sericitized - Sec. products, sericite, chlorite, pyroxene, albite, CO3, hematite, sheared @ 30° - 100% Recovery - very fine grained	5096	181.6-186.9	5.3	0.06				
189.8	No visible mineralization Dark green microdiorite	5097	186.9-189.8	2.9	0.05				

PROPERTY

VELOCITY SURVEYS LTD.

SAMPLING RECORD

HOLE NO. GK 1 DEPTH 497 ANGLE 48°30'STRIKE W(RefB1) ELEVATION 9+00N

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET	PF
					Cu %	%	%		
221.7	No visible mineralization Dark green diorite (micro) Highly sericitized - sericite, chlorite, pyroxene, albite, hematite, sheared @ 40° 100% Recovery	5104	216.5- 221.7	5.2	0.01				
225.0	No visible mineralization Dark green altered diorite Highly sericitized - Sec. products - sericite, chlorite, pyroxene, albite, hematite, Sheared @ 30° 100% Recovery	5105	221.7- 225.0	3.3	Tr.				
231.2	No visible mineralization Dark green altered diorite Highly sericitized - Sec. products, sericite, chlorite, pyroxene, hematite, albite, sheared @ 40° 100% Recovery	5106	225.0- 231.2	6.2	Tr.				
236.5	No visible mineralization Dark green altered diorite Highly sericitized - Sec. products, sericite, chlorite, albite, pyroxene, hematite, CO ₂ , sheared @ 20° 100% Recovery	5107	231.2- 236.5	5.3	0.01				
242.2	No visible mineralization Dark green altered diorite Highly sericitized - Sec. products - sericite, chlorite, albite, hematite, pyroxene, sheared @ 40° 100% Recovery	5108	236.5- 242.2	5.7	Tr.				
247.6	Py Cy 0.2% Dark green altered diorite Highly sericitized - Sec products, sericite, chlorite, CO ₃ , hematite,	5109	242.2- 247.6	5.4	Tr.				

PROPERTY

SAMPLING RECORD

HOLE NO. GK1 DEPTH 497 ANGLE 48°30'

STRIKE W(RefB1) ELEVATION 9+00N

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET	P
					Cu %	%	%		
275.0	Trace mineralization Dark green diorite Highly sericitized Sec products - sericite, chlor, pyrox, albite, hematite, planer shearing Sheared @ 45° 100% Recovery	5115	273.1- 275.0	1.9	0.03				
277.9	Trace Py Cy .05% Cu Dark green altered diorite Highly sericitized Sec products - sericite, chlor, albite, pyroxene, hematite, convolute shearing @ 40° 100% Recovery	5116	275.0 - 277.9	2.9	Tr.				
283.3	Diss Py Cy .1% Cu - .4% Cu Dark green diorite Highly sericitized Sec products - sericite, chlor, hematite, albite, some pink ortho, some epidote, planer shearing @ 40° 100% Recovery	5117	277.9 - 283.3	5.4	Tr.				
288.5	Diss Py Cy .2-.3% Cu Dark Green microdiorite Sec products - sericite, chlor, hematite, CO3, albite, some pyroxene, some epidote Convolute shearing @ 30° 100% Recovery	5118	283.3 - 288.5	5.2	Tr.				
293.2	Diss Py & Cy .02% Cu - .05% Grey-green altered diorite Highly sericitized - sec products - sericite, chlor, hematite, albite, convolute shearing sheared @ 30°, 100% Recovery	5119	288.5 - 293.2	4.7	Tr.				
294.5	Diss Py & Cy .3% Cu Grey-green altered diorite Highly sericitized - Sec products,	5120	293.2- 294.5	1.3	0.02				

SAMPLING RECORD

HOLE NO. GK1 DEPTH 497 ANGLE 48°30'

STRIKEW(RefB1) ELEVATION _____ 9+0

DEPTH FEET	FORMATION	SAMPLE	INTERVAL	LENGTH	ANALYSIS			LENGTH	P
		NO.	FROM-TO-	FT.	Cu %	%	%	FEET	
	sericite, chlor, some pyroxene, hematite, albite, convolute shearing sheared @ 30° 100% Recovery								
295.9	No visible mineralization Dark green microdiorite Highly sericitized Sec products - sericite, chlor, pyroxene, albite, hematite, convolute shearing @ 30° 100% Recovery								
298.5	Trace mineralization .03% Cu Py & Cy Dark green altered diorite Highly sericitized, Sec products - sericite, chlor, CO ₃ , hematite, some pink orthoclase Sheared @ 30° convolute shearing 100% Recovery	5021	295.9 -	2.6	Tr.				
300.0	No visible mineralization Dark green diorite Highly sericitized Sec products - sericite, chlor, pyroxene, albite, hematite, planer shearing @ 30° 100% Recovery								
301.6	No visible mineralization Dark Green altered diorite Highly sericitized Sec products - sericite, chlor, pyroxene, CO ₃ , hematite, albite, convolute shearing @ 30°, some pink orthoclase - fine grained								
308.8	Py & Cy 0.1% Cu Dark purple green altered diorite Highly sericitized Sec products - sericite, chlor (bk), pyroxene, CO ₃ , pink ortho, hematite, planer shearing @ 30° very fn. grained 100% Recovery	5022	301.6-308.8	7.2	0.02				

PROPERTY

VELOCITY SURVEY LTD

SAMPLING RECORD

HOLE NO. GK 1 DEPTH 497 ANGLE 48°30'STRIKE W (Ref B1) ELEVATION _____ 9+00

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET	P
					Cu %	%	%		
311.8	No visible mineralization Dark purple green altered diorite, highly sericitized, sec products - sericite, chlor, hematite, CO ₃ , pyroxene, fine grained, convolute shearing @ 30° 100% Recovery								
315.6	No visible mineralization								
-	Dark purple green altered diorite								
328.7	very highly sericitized - Sec products, sericite, chlor, hematite, pink ortho, CO ₃ , coarse to fine grained convolute shearing @ 45° 100% Recovery								
328.7	Diss Py & Cy 0.05% Cu Dark green microdiorite Highly sericitized - Sec products, sericite, chlor, hematite, CO ₃ , some pyroxene, albite, planer shearing @ 40° Fine grained in interlocking grains 100% Recovery	5023	325.0- 328.7	3.7	Tr.				
333.3	Diss Py & Cy 0.3% Cu Dark purple green altered diorite	5024	328.7 - 333.8	5.1	Tr.				
343.8	Highly sericitized - Sec products, sericite, chlor, pyroxene, much hematite, epidote, CO ₃ , albite, convolute shearing @ 20° 100% Recovery	5025	333.3 - 334.1	0.8	0.01				
343.8	No visible mineralization Dark green microdiorite	5026	343.8 - 346.2	3.4	0.09				
346.2	Moderately sericitized - Sec products sericite, chlor, albite, CO ₃ , hematite, much epidote, fine grained, pyroxene, Convolute shearing @ 35° 100% Recovery								
350.0	Diss Py & Cy .5% Cu Reddish microdiorite (reddish-green)	5027	346.2 - 350.0	3.8	0.42				

PROPERTY

SAMPLING RECORD

HOLE NO. GK 1 DEPTH 497 ANGLE 48°30'

STRIKEW(RefB1) ELEVATION _____ 9+00

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET
					Cu %	%	%	
389.9	Diss Py Cy .05% Cu Light green andesine & dark green diorite Highly sericitized Sec products - sericite, chlor, CO ₃ , albite, pink ortho, pyrox, planer shearing @ 30° 100% Recovery	5134	388.9 - 389.9	1.0	Tr.			
391.1	No visible mineralization Light green andesine Highly sericitized Sec products - sericite, chlor, hematite, CO ₃ , albite, convolute shearing @ 29° 100% Recovery							
392.2	Diss Py & Cy .05% Cu Dark green altered diorite Highly sericitized - Sec products, sericite, chlor, epidote, CO ₃ , magnetite, Convolute shearing @ 30° 100% Recovery Med. grained	5135	391.1 - 392.2	1.1	Tr.			
394.0	No visible mineralization Light green andesine Mod sericitized	5136	394.0 - 396.5	2.5	Tr.			
399.9	Sec. products - sericite, chlor, epidote, CO ₃ , pyroxene, hematite, convolute shearing @ 30° Med. grained 100% Recovery							
400.3	Diss Py & Cy .2% Dark green altered diorite Highly sericitized - Sec products - sericite, chlor, pyrox, epidote, albite, hematite, CO ₃ , fine grained 100% Recovery	5137	399.9 - 400.3	0.4	Tr.			
405.2	Diss Py & Cy ,05%-.04% Cu Light green altered andesine Highly sericitized - Sec. products - sericite, chlor, epidote, hematite, pyroxene, CO ₃ Convolute shearing @ 30° 100% Recovery very fine grained	5138	400.3 - 405.2	4.9	Tr.			

PROPERTY

SAMPLING RECORD

HOLE NO. GK 1 DEPTH 497 ANGLE 48°30'

STRIKE W(RefB1) ELEVATION 9+00N

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET
					Cu %	%	%	
407.1	Diss Py & Cy .3% Cu	5139	405.2 -	1.9	Tr.			
-	Dark green altered diorite		407.1					
416.7	Highly sericitized	5140	413.1 -	1.9	Tr.			
	Sec products - sericite, chlor, pink ortho, hematite, albite, convolute shearing @ 30° fine grained 100% Recovery		415.0					
420.0	Diss Py & Cy	5141	416.7 -	3.3	Tr.			
	Dark green altered diorite		420.0					
	Highly sericitized							
	Sec products - sericite, chlor, albite, CO3, pyroxene, hematite, some epidote, Convolute shearing @ 30.0° med grained - fine grained 100% Recovery							
421.9	Diss Py & Cy .01% Cu	5142	420.0 -	1.9	0.01			
	Light green andesine		421.9					
	Highly sericitized - Sec products, sericite, chlor, albite, some pyroxene, hematite Convolute shearing @ 30° Fine grained 100% Recovery							
425.2	Diss Py Cy .01% Cu	5143	421.9 -	3.3	0.02			
-	Dark green altered diorite		425.2					
438.7	Highly sericitized Sec products -	5144	425.2 -	4.8	0.01			
	sericite, chlor, pyroxene, CO3, albite, hematite, convolute shearing @ 20°	5145	430.0 -	5.9	Tr.			
	Med grained 100% Recovery		435.9					
		5146	435.9 -	2.0	0.02			
			437.9					
438.7	Diss Py & Cy .5% Cu	5147	437.9 -	0.8	0.04			
-	Light green andesine		438.7					
446.1	Highly sericitized - Sec products, sericite, chlor, CO3, epidote, pink	5148	438.7 -	2.0	0.05			
	ortho, albite, pyroxene, convolute shearing @ 35° fine grained 100% Recovery		440.7					

SAMPLING RECORD

PROPERTY 9400N - 1+00W

STRIKE West ELEVATION 3008.34

9+00N

HOLE NO. GK2 DEPTH 82.0' ANGLE 90°

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM - TO -	LENGTH FT.	ANALYSIS			LENGTH FEET
					Cu %	%	%	
0	Collar							
22.9	Casing (50' casing used)							
25.0	Diss Py & Cy Pink Monzonite & Dark Green diorite @ 44.2' The diorite is moderately sericitized Sec products - orthoclase, sericite, chlorite, hematite, pyroxene, CO3, albite, 95% Recovery	5044F	22.9 - 25.0	2.1	.50			
29.1	Diss Py & Cy Dark green diorite Moderately sericitized - Sec products, sericite, chlor, some epidote, CO3, albite, hematite, planar shearing @ 4° 100% Recovery Pink monzonite @ 27.9 - 28.1 Sec products - ortho	5045	25.0 - 29.1	4.1	.13			
32.4	L.C.							
33.1	No visible mineralization Dark green porphyritic diorite, highly sericitized - Sec products, sericite, chlor, magnetite, vesicules, albite, CO3, ortho Planar shearing @ 10° 100% Recovery							
35.0	L.C.							
36.0	Ground up core							
45.0	Diss Py & Cy @ 42.0'-42.4' Dark green diorite to light green diorite Ground up core @ 38.4'-39.2' Porphyritic texture with magnetite vesicles	5046	42.0 - 42.4' @ 37.9'	0.4	.03			

HOLE NO. 1 DEPTH 49 ANGLE 30

STRIKEW(refB1) ELEVATION

9+00N

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET	PP
					Cu %	%	%		
450.0	Diss Py & Cy	5149	446.1	3.9	0.01				
-	Dark green microdiorite		- 450.0						
480.0	Highly sericitized, Sec products - sericite, chlor, epidote, hematite, magnetite, CO3, pink ortho, albite,	5150	450.0 - 456.6	6.6	0.04				
	Planer shearing @ 30° Very fine grained	5151	456.6 - 460.8	4.2	0.02				
	100% Recovery	5152	463.6 - 469.1	5.5	Tr.				
		5153	469.1 - 475.0	5.9	0.04				
		5154	475.0 - 478.0	3.0	0.02				
497.0	Diss Py & Cy	5155	478.0 - 480.0	2.0	0.01				
	Light green reddish-green monzonitic andesine - highly sericitized	5156	480.0 - 482.3	2.3	0.06				
	Sec products - sericite, chlor, pink ortho, magnetite, CO3, hematite, albite	5157	482.3 - 483.0	0.7	0.01				
	Convolute shearing @ 40° very fine grained	5158	483.0 - 487.8	4.8	Tr.				
	100% Recovery	5159	496.5 - 497.0	0.5	0.02				

PROPERTY 9400N - 0400E

SAMPLING RECORD

400'-90
600'-90

HOLE NO. GK 3 DEPTH 604 ANGLE 90

STRIKE West ELEVATION 3024.85

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET
					Cu %	%	%	
0	Collar							
40.0	Casing							
57.1	No visible mineralization, dark gry-grn	5160F	80.8-	5.0	.07			
- 100	altered diorite, highly sericitized, sec. products - chlor, sericite, hematite, CO ₃ pyrox, magnetite, albite, some magnetite, phenocrysts in a fine grained matrix of chlorite, convolute shearing @ 30. very fine grained @ 54.1-56.1	5161	85.8-88.3-	3.4	.05			
		5162	91.7-95.0-	0.6	.10			
60.0	Missing core	5163	95.6-96.5-	3.5	.02			
- 80.8			100.0					
112.3	No visible mineralization	5164	101.5-	4.2	.02			
- 115.4	Diss Py & Cy 0.05% Cu @ 101.5-105.7		105.7					
	Dark green microdiorite, highly sericitized, Sec. products - sericite, chlor, epidote hematite, magnetite, albite, CO ₃ , Very fine grained, convolute shearing @ 45	5165	109.0-	0.9	.04			
	100% Recovery Diss Py & Cy 0.03% Cu @ 109.0-109.9		109.9					
125.0	Diss Py & Cy 0.4% -0.5% Cu	5166	115.4-	6.0	.02			
-210.0	Dark green altered diorite, highly ser-		121.4					
	icitized, sec. products - sericite, chlor magnetite, albite, CO ₃ , epidote, @ 115.4 to 115.8, some epidote, throughout. Magnetite phenocrysts in fine grained chlorite matrix. Convolute shears @ 40	5167	121.4-	0.4	.07			
	very fine grained, 100% Recovery	5168	121.8-	3.2	.10			
	Diss Py & Cy 1.15% Cu @ 121.4-121.8	5169	125.0-127.0-	2.4	Tr.			
	Diss Py & Cy 0.5% Cu 121.8-125.0	5170	129.4-133.2-	2.5	.01			
		5171	135.7-138.1-	3.6	.07			
			141.7					
		5172	141.7-142	0.3	.09			

PROPERTY

SAMPLING RECORD

HOLE NO. GK 3 DEPTH 604 ANGLE 90

STRIKE West ELEVATION _____ 9+0

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET
					%	%	%	
	282.3-287.6 Fine grained except 283.8-285 Coarse grained, Diss Py & Cy 0.03% Cu, convolute shearing @ 45	5204	269.3-274.7	5.4	.05			
348.0-385.6	Diss Py & Cy 2% Cu to 230.5, dark green diorite, highly sericitized, sec. products - sericite, chlor, albite, mag, hem, epidote, CO3, convolute shearing @ 40, coarse grained, 100% Recovery	5205	274.7-276.5	1.8	.05			
		5206	276.5-280.3	3.8	.02			
		5207	282.3-287.6	5.3	.02			
	336.5-0.17% Cu Diss Py & Cy coarse to fine grained	5208	288.2-288.9	0.7	.05			
	335.3-336.5 fine grained, massive red hematite, planer shearing @ 30	5209	290.0-294.8	3.9	Tr.			
	342.8 1% Cu coarse-fine grained, convolute shearing @ 45	5210	294.8-295.85	1.05	.05			
	350.0 - 2% Cu fine grained with hematite Planer shearing @ 45	5211	295.85-298.4	2.55	.02			
385.6	Dark green altered diorite, much hem. content, highly sericitized, sec. products - hem, ser, chlor, CO3, albite	5212	299.2-300.3	1.1	.02			
	369.3 No visible mineralization, no mag or epi fine grained, convolute shearing @ 55	5213	300.3-303.7	3.4	.04			
	373.9 Diss Py & Cy 0.4%-0.5% Cu, coarse grained - med grained, contains mag & epi, Planer shearing @ 40	5214	303.7-304.4	0.7	.01			
		5215	306.9-307.1	0.2	.04			
	379.6 Diss Py & Cy 1.2-1.4% Cu, fine grained, convolute shearing @ 40 & 60, contains mag & epi	5216	308.8-315.2	6.4	.02			
		5217	315.2-321.3	6.1	.01			
	381.7 Diss Py & Cy 0.2% Cu, mag but no epi, fine grained, convolute shearing @ 40	5218	321.3-325.0	3.7	.02			
	384.3 Diss Py & Cy 0.1-0.15% Cu, some mag no epi, convolute shearing @ 60, med. grained.	5219	325.0-325.7	0.7	Tr.			

SAMPLING RECORD

PROPERTY

HOLE NO. GK3 DEPTH 604 ANGLE 90

STRIKE West ELEVATION _____

9+00M

DEPTH FEET	FORMATION	SAMPLE	INTERVAL	LENGTH	ANALYSIS			LENGTH
		NO.	FROM- TO-	FT.	Cu %	%	%	FEET
	385.6 Diss Py & Cy, 0.4% Cu, mag & epi convolute shearing @ 45, fine to med. grained	5220	325.7-330	4.3	0.10			
		5221	330-336	5 6.5	Tr.			
		5222	336.5-	6.3	Tr.			
390.9	No visible Mineralization, light pink-green syenite, moderately sericitized, Sec. products - hematite, some magnetite, pink orthoclase, albite, CO3, convolute shearing @ 30 & 45, fine to med. grained		342.8					
		5223	342.8-	5.2	.08			
			348.0					
		5224	348.0-	6.4	.01			
			354.5					
392.0	First 1.5' has high hematite content, with no magnetite, bottom 1.2' is magnetic.	5225	354.5-	4.4	.02			
			358.9					
		5226	358.9-	1.6				
			360.5					
	No visible mineralization, pink-light green syenite, highly sericitized, Sec. products - sericite, CO3, chlor, pink ortho, hematite, albite, convolute shearing @ 45, fine grained, 100% Recovery.	5227F	365.5-	2.8	.07			
			368.3					
		5228	369.3-	4.6	.07			
539.1	Light pink-grey syenite, moderately sericitized, sec. products - pink ortho, CO3, some magnetite, some chlor, magnetic phenocrysts in orthoclase matrix. Med. grained, planer shearing @ 30, 100% Rec.	5229	373.9-	5.7	.02			
			379.6					
		5230	379.6-	2.1	Tr.			
			381.7					
	394.85 No visible mineralization		384.3					
	397.6 Diss Py & Cy 0.1% Cu	5232	384.3-	1.3	.05			
	401.4 2% T.S.		385.6					
	404.0 Lost Core	5233	394.85-	2.75	.03			
	411.7 0.7% Py Convolute shearing @ 45		397.6					
	413.0 Lost Core	5234	397.6-	3.8	.01			
	413.7 Diss Py & Cy 1% Cu		401.4					
	422.4 Diss Py	5235	413-413	7 0.7	Tr.			
	Diss Py in syenite except. (Diss Py & Cy)							
	422.4-423.0 2% T.S.	5236	422.4-423	0.6	.01			
	424.3-425.3 4-5% T.S.	5237	424.3-	1.0	.02			
			425.3					

PROPERTY

SAMPLING RECORD

HOLE NO. GK 3 DEPTH 604.0 ANGLE 90

STRIKE West ELEVATION 9+00N

DEPTH FEET	FORMATION	SAMPLE	INTERVAL	LENGTH	ANALYSIS			LENGTH
		NO.	FROM- TO-	FT.	Cu %	%	%	FEET
	436.5-438.7 5% T.S.	5238	436.5- 438.7	2.2	.02			
	440.5-440.9 2.5% T.S.	5239	440.5- 440.9	0.9	Tr.			
	446.25-447.25 5% T.S.	5240	446.25- 447.25	1.0	.01			
	454.1-455.1 2% %S.	5241	454.1- 455.1	1.0	.05			
	458.2-459.0 2.5% T.S.	5242	458.2-459	0.8	.05			
	463.0-467.3 2% %S.	5243	462-467	3 4.3	.02			
	468.5-471.0 1.5% T.S.	5244	468.5-471	2.5	Tr.			
	474.3-476.5 1.5% T.S.	5245		2.2	.05			
	484.4-484.7 5% T.S.	5246		0.3	.02			
	488.4-489.0 2% T.S.	5247		0.6	.05			
	490.7-491.3 1.5% T.S.	5248		0.6	Tr.			
	492.25-493.6 4% T.S.	5249			Tr.			
	494.4-495.15 6% T.S.	5250			Tr.			
	497.4-497.55	5251			.06			
) 498.4-498.7 1% T.S.)							
) 499.85-500 1% T.S.)-----	5252			.01			
	500.4-500.95 1.5% T.S.	5253		.55	.01			
	502.4-503.4 1% T.S.	5254		1.0	.03			
	505.3-506.0 2.5% T.S.	5255		0.7	Tr.			
	508.9-512.3 2% T.S.	5256		3.4	.02			
	513.0-513.2 2% T.S.	5257		0.2	Tr.			
	515-516.2 3.5% T.S.	5258		1.2	.02			
	518.6-522.8 2% T.S.	5259		4.2	Tr.			
	523.9-524.45 2% T.S.	5260		.55	Tr.			
	529.3-529.6 1.5% T.S.	5261		0.3	.02			
	533.8-534.7 1% T.S.	5262		0.9	.02			
	530-535.6	5263		5.6	Tr.			
604.0	Light grey to pinkish grey monzonite Mod. sericitized - sec. products -							

PROPERTY 8+00N - 1+50E

SAMPLING RECORD

HOLE NO. GK 4 DEPTH 517.4 ANGLE 45°

STRIKE West ELEVATION 3052.82 8+00N

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET
					Cu %	%	%	
0	Collar							
80	Casng							
	55-60 Cavings dark green diorite and gray pink syenite	5047	59.1		0.10			
	Coarse grained							
	Sec products - albite, magnetite, chlor, sericite, hematite, pink ortho, CO3-syenite							
	64.1 L.C.							
	65.0 - Caving - dior - fine grained							
	67.65 L.C.							
	70.0 - Caving - dior - fine grained							
	73.0 - L.C.							
	75.0 - Caving - dior - coarse grained							
	78.9 - L.C.							
	80.0 - Dark green peridotite							
	Highly sericitized, sec products - Chlor, ser, olivine, magnetite, albite, coarse grained 95% Recovery							
81.0	L.C.							
101.1	81.2 - Grey white monzonite coarse gr.							
	88.0 - Dark green altered diorite							
	Highly sericitized - Sec. products, sericite, chlor, magnetite, albite, CO3 hematite. No visible mineralization							
	Fine grained Convolute shearing @ 45° & 5° 95% Recovery							
	90.0 - L.C.							
	91.2-93.0 - L.C.							
	93.9 - 95.0 - L.C.							
127.7	No visible mineralization- dark green peridotite, highly sericitizedf							
	Sec products sericite, chlor, olivine							

SAMPLING RECORD

PROPERTY

HOLE NO. GK 4 DEPTH 517.4 ANGLE 45°

STRIKE West ELEVATION 3052.82 8+00N

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET
					Cu %	%	%	
	magnetite, pyroxene, hematite, albite, CO3=, magnetite, phenocrysts in fine grained matrix							
	med. - fine grained convolute shearing @ 45°							
	95% Recovery							
	103.4-104.0 L.C.							
	105.0-106.2 L.C.	5048	127.4-	0.3	.05			
	120.0-120.35 L.C.		127.7					
	127.4-127.7 Diss Py & Cy Trade 0.01% Cu							
141.9	No visible mineralization							
	Dark green altered diorite							
	Highly sericitized - Sec. products, sericite, chlor, albite, hematite, magnetite, planer shearing @ 55° fine grained							
	100% Recovery L.C. @ 125.0-125.6							
	L.C. @ 140.0-141.1							
192.4	No visible mineralization except from							
	144.7-145.6 Diss Py .02% Cu	5049	144.7-	0.9	.02			
	Dark green altered peridotite		145.6					
	Highly sericitized - Sec. products - sericite, chlor, olivine, magnetite, hematite, albite, some CO3, pyroxene fine grained & in places coarse grained with magnetite phenocrysts convolute shearing @ 37°							
	L.C. @ 145.6-147.2							
	150.0-151.6							
	153.4-154.4							
	155.0-161.7							
	169.6-170.0							
	174.1-175.0							
	95% Recovery							
	191.6-192.4 much hematite content							
	@ 188.6 convolute shearing @ 45°							

SAMPLING RECORD

PROPERTY

HOLE NO. GK 4 DEPTH 517.4 ANGLE 45°STRIKE West ELEVATION 3052.82

8+00

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET	PT
					Cu %	%	%		
209.2	Dark green diorite - No visible mineralization, Highly sericitized								
	Sec products - sericite, chlor, magnetite, hematite, CO ₃ =, albite, planer shearing @ 45°, medium grained 100% R.								
321.3	Diss Py & Cy - 0.04% Cu	5274	209.2-210.0	0.8	.02				
	Dark green diorite								
	Same rock type as above	5275	210.8-211.9	1.1	.02				
	@ 216.8 planer shearing @ 57°	5276	213.7-218.6	4.9	.02				
	Some epidote	5277	218.6-219.9	0.4	.01				
		5278	219-220	1.0	.01				
		5279	220.85-222.5	1.65	Tr.				
		5280	223.7-224.8	1.1	.04				
	225.0-228.3	5281		3.3	.05				
	230.8-231.1 Much epidote content								
	228.3-235	5282		6.7	.02				
	235-242.1	5283		7.1	.03				
	242.1-243.5 Much pyrox	5284		1.4	.02				
	243.5-245	5285		1.5	.02				
	245.75-246.1 & 246.9-247.8	5286			.02				
	248.6-249.5	5287		0.9	Tr.				
	250-252.7	5288		2.7	.01				
	253.6-254.8	5289		1.2	Tr.				
	255-255.4	5290		0.4	Tr.				
	257.65-257.85	5291		0.2	.02				
	258.8 - 260.7	5292		1.9	.01				
	260.7-265.2	5293		4.5	.07				
	265.8-267.6	5294		1.8	.02				
	268.0-269.8	5295		1.8	.05				
	269.8-272.8	5296		3.0	.05				
	272.8-274.4	5297		1.6	.02				
	275.0-279.7	5298		4.7	Tr.				
	279.7-284.3	5299		4.6	.04				

SAMPLING RECORD

PROPERTY

HOLE NO. GK 4 DEPTH 517.4 ANGLE 45°

STRIKE West ELEVATION 3052.82 8+0

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET
					Cu %	%	%	
	284.7-287.5	0.2% Cu	5300		2.8	.02		
	287.5-295.0	0.2% Cu	5301		7.5	.01		
	295.0-300.0	0.7% Cu	5302		5.0	.07		
	300.65-300.85 & 301.95-303.0	0.3% Cu	5303		1.25	.07		
	305.9-306.4	0.2% Cu	5304		0.5	.02		
	308.0-309.6	0.1% Cu	5305		1.6	Tr.		
	310.45-311.2	0.08% Cu	5306		0.75	Tr.		
	313.9-314.4	0.3% Cu	5307		0.5	.01		
	316.4-316.6 & 317.5-317.8	0.2% Cu	5308		0.5	.01		
	318.4-320.0	0.2% Cu	5309		1.6	.10		
	321.15-321.3	0.02% Cu	5310		0.15	.10		
326.9	Diss Py & Cy	0.2% Cu	5311	321.3 -	3.7	.05		
	Dark red magnetite & dark green to light green diorite, moderately sericitized, Sec products - 75% magnetite & hematite, 15% dior, 10% calcite, chlor, sericite, epidote, albite, convolute shearing @ 45°, medium grained, 100% Recovery		5312	321.3 - 325.0	0.4	.10		
497.1	Diss Py & Cy							
	Light - dark green diorite, highly sericitized, sec products - seri, chlor mag, hem, CO ₃ , epidote, albite, convolute shearing @ 45°, medium grained, 100% Recovery							
	327.3-334.7	0.3% Cu	5313		7.4	Tr.		
	334.7-336.05	2.0% Cu	5314		1.35	Tr.		
	336.05-339.5	0.65% Cu	5315		3.45	.01		
	339.5-340.25	2.0% Cu	5316		0.75	.02		
	340.25-340.5	0.3% Cu	5317		0.25	Tr.		
	Planer shearing @ 30° Much CO ₃							
	344.2-350.0	0.9% Cu	5318		5.8	.05		
	Convolute shearing @ 45°							

PROPERTY

SAMPLING RECORD

HOLE NO. GK 4 DEPTH 517.4 ANGLE 45°

STRIKE West ELEVATION 3052.82

8+0

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET	P
					Cu %	%	%		
350.0	351.7 & 352.1-354.9	5319		4.5	3.5% Cu	Tr.			
	Medium to coarse grained								
	355.0-357.15 Med. to coarse grained	5320		2.15	0.7% Cu	.01			
	357.15-358.7	5321		1.55	4.0% Cu	.05			
	351.7-352.1 Much CO3=								
	359.1-361.7	5322		2.6	2.0% Cu	.03			
	361.7-363.5	5323		1.8	0.3% Cu	Tr.			
	363.5-364.2	5324		0.7	2.0% Cu	.01			
	365.4-366.9	5325		2.5	1% Cu	.01			
	367.55-372.25	5326		5.7	0.8% Cu	.01			
	Coarse-grain								
	372.95-374.15 Coarse graine lt. green	5327		2.2	1% Cu	Tr.			
	377.2-377.9 lt. green	5328		1.05	0.3% Cu	Tr.			
	and 378.9-379.1 and 380-380.15								
	376.6-380.6 much fine grained calcite								
	380.7-381.1 Med. grained	5329		0.4	0.1% Cu	Tr.			
	381.5-383.25 Med. grained	5330		1.75	3% Cu	Tr.			
	Dark green								
	384.35-385.8 & 386.3-386.5	5331		1.65	1.5% Cu	Tr.			
	387.5-393.7	5332		6.2	.4% Cu	Tr.			
	Med.-Coarse Grain								
	393.7-395	5333		3.3	.15% Cu	Tr.			
	393.8-394.1 Much hematite								
	395-397.4	5334		2.4	1.8% Cu	.01			
	397.4-400	5335		2.6	1.5% Cu	Tr.			
	Coarse grain								
	400-403.2	5336		3.2	2.7% Cu	.01			
	403.75-408.75	5337		5.0	.3% Cu	.02			
	408.75-412.25	5338		3.5	.4% Cu	Tr.			
	Light Green med. grained								
	412.25-414.6	5339		2.35	.4% Cu	.04			
	Dark Green								
	415.2-416.9	5340		1.7	.2% Cu	Tr.			

VELOCITY SURVEYS LTD.

PROPERTY 9+00N - 2+50E

200' -46-1/2° SAMPLING RECORD
 400' -46°
 490' -46°

SHEET NO. 1

HOLE NO. GK 5 DEPTH _____ ANGLE 45°

STRIKE West ELEVATION 3062.11

CO-ORDINATES
 9+00N 2+50E

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		REMARKS
					Cu %	%	%		FEET X PER CENT		
0	Collar										
45'	Casing 6.2' of diorite caving										
47.5	Lost Core										
50'	Diss Py & Cy .1% Cu dark green to black diorite, moderate sericitized, sec. products - sericitie, chlor, CO3, albite, hem, pyrox, fine grained, 90% Recovery - mostly cavings	5359	47.5-50	2.5	0.10						
50.5	L.C.										
195.0	Diss Py. & Cy, dark green dior. highly sericitized, sec. products - sericite, chlor, CO3, pyrox, some ortho, mag, hem, albite, some epi, planer shearing @ 45° fine grained, 100% Recovery										
	50.5-54.6 .7% Cu		54.6-58.8 .4% Cu	5360	4.1	0.05					
	58.8 -60.1 No visible mineralization	5361		4.2	0.02						
	60.1-65.6 .1%-.08% Cu	5362		5.1	Tr.						
	65.6-70.85 No visible mineralization										
	Much epidote										
	70.85-71.3 & 72.4-72.9 & 73.6-75 .05% Cu	5363		2.35	0.12			.28			
	75-76.2 78.1-79 .08% Cu	5364		2.1	0.50			1.05			
	79-80.95 81.7-82 6% Cu	5365		2.25	1.72			3.87	12.4' @ .564 % Cu		
	82.2-85 .1% Cu	5366		3.8	0.40			1.52			
	86-86.55 87.6-88.85 .1% Cu	5367		1.9	0.15			.28	70.85-86.5		
	91.8-99.5 .1% Cu	5368		7.7	Tr.			7.0			
	99.5-100 7% Cu	5369		.5	6.45			3.23			
	100-101.6 .3% Cu	5370		1.6	0.47			.75			
	102.2-103.1 1.4% Cu	5371		0.9	0.32			.28			
	103.6-125 Much magnetite, med. grained										
	112.9-113.3, 113.85-114.8, 117.15-117.25 .08% Cu	5372		1.45	0.10			.15			
	129.4-130.9 .05% Cu	5373		1.5	0.10			.15			
	131.8-134.7 .05% Cu	5374		2.9	0.07			.20	12.30' @ .54% Cu		

PROPERTY

SAMPLING RECORD

HOLE NO. GK5 DEPTH _____ ANGLE 45

STRIKE West ELEVATION _____

9+00

DEPTH FEET	FORMATION	SAMPLE	INTERVAL	LENGTH	ANALYSIS			LENGTH	P
		NO.	FROM-TO-	FT.	Cu %	%	%	FEET	
	50 - 45, 100% Recovery								
	Finely disseminated sulphides								
	222.6-225 .01% Cu	5399		2.4	0.05				
	226.2-226.5 228.7-230.15 231.2-231.5								
	.05% TS	5400		2.05	0.05				
	242.15-242.75 .05% T.S.	5401		0.6	0.04				
	245.3-248.3 249.1-250 1% T.S.	5402		3.9	0.05				
	250-252.15 .05% T.S.	5403		2.15	0.05				
	218.8-253.35 Mag phen in fine grained matrix								
303.9	Dark green dior. Diss Py & Cy	5410	275-280	5.0	0.02				
	Highly sericitized, sec. products - ser,	5411	280-285	5.0	0.04				
	chl, CO3, alb, hem, pyrox, epi, fine-	5413	285-290	5.0	0.02				
	grained, convolute shearing @ 45 100% R.	5412	290.8-295	4.2	0.02				
	253.35-258.45 .1% Cu	5404		5.1	0.04				
	259.2-260.55 .05% Cu	5405		1.35	0.04				
	260.55-261.25 .6% Cu	5406		0.7	0.05				
	261.4-264.5 .8% Cu	5407		3.1	0.05				
	266.25-269 .8% Cu	5408		2.75	0.02				
	269-275 .8% Cu	5409		6.0	0.06				
	275-300 0.4% Cu 300-303.9 0.3% Cu	5414	295-300	5.0	0.05				
		5415	300-303.9	3.9	0.05				
326.8	Dark purple green peridotite, Diss Py&Cy	5416	303.9-310	6.1	0.07				
	Highly sericitized, sec. products - ser,	5417	310-315	5.0	0.01				
	chl, CO3, hem, mag, olivine, pyrox, some	5418	315-320	5.0	0.05				
	albite, fine grained, convolute shearing	5419	320-325	5.0	0.06				
	@ 45, 100% Recovery	5420	325-326.8	1.8	Tr.				
	303.9-325 0.4% Cu 325-326.8 0.1% Cu								
404.1	Diss Py & Cy, Dark green diorite, highly								
	sericitized, sec products = ser, chlor, CO3,								
	albite, hem, mag, convolute shearing @ 30								
	Fine grained to med. grained, 100% Recovery								
	326.8-329.4 0.05% Cu	5421		2.6	0.02				
	329.8-335 .05% Cu	5422		5.2	Tr.				

PROPERTY

SAMPLING RECORD

HOLE NO. GK5 DEPTH _____ ANGLE 45

STRIKE West ELEVATION _____ 9+

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET
					Cu %	%	%	
	335-342.5 .05% Cu	5423		7.5	0.05			
	343.15-348.4 .4% Cu	5424		5.25	Tr.			
	349.2-350 .1% Cu	5425		0.8	0.17			
	350.3-351.7 .05% Cu	5426		1.4	Tr.			
	351.7-354.6 .7% Cu	5427		2.9	Tr.			
	354.8-355.65 .05% Cu	5428		0.85	Tr.			
	358.3-359.25 0.9% Cu	5429		0.95	0.02			
	360.1-360.3 362.35-362.55 0.05% Cu	5430		0.4	Tr.			
	361.4-362.1 0.2% Cu	5431		0.7	0.05			
	364.25-367.95 0.07% Cu	5432		3.7	0.10			
	368.3-369.05 2.0% Cu	5433		0.75	0.17			
	371.35-372.8- 0.05% Cu	5434		1.45	0.01			
	373.35-375 0.05% Cu	5435		1.65	Tr.			
	375-375.6 0.05% Cu	5436		0.6	Tr.			
	376.8-377.9 .1% Cu	5437		1.1	0.10			
	378.3-379.5 .05% Cu	5438		1.2	Tr.			
	384.8-385 385.2-385.4 .05% Cu	5439		0.4	0.05			
	386.4-387.05 387.8-388.0 388.4-388.6 .07% Cu	5440		1.05	0.02			
	388.9-391.15 .7% Cu	5441		2.25	0.45			
	391.15-400 .15% Cu	5442		8.85	0.04			
	400-403.2 .08% Cu	5443		3.2	0.10			
418.6	Diss Py & Cy, dark reddish, green peridotite, Highly magnetized & sericitized, sec. products - mag, ser, chlor, CO3, pyrox, convolute shearing @ 45, fine grained, 100% Recovery							
	405-405.95 Trace sulfide	5444		0.95	0.05			
	405.95-411.75 0.09% Cu	5445		5.8	Tr.			
	411.75-414.3 0.02% Cu or Py	5446		2.55	0.01			
	415-418.6	5447		3.6	0.02			
475.35	Diss Py & Cy, dark green diorite, highly sericitized, sec. products - ser, chlor,							

SAMPLING RECORD

PROPERTY

HOLE NO. GK5 DEPTH _____ ANGLE 45STRIKE West ELEVATION _____ 9+00

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET	P
					Cu %	%	%		
	mag, hem, CO ₃ , albite, convolute shearing @ 50, fine grained 100% Recovery	5448	418.6-421.65	3.05	0.25				
	418.6-421.65 1.7% Cu								
	421.9-423.3 Much iron coarse grained								
	423.3-424.4 Much iron & epidote								
	424.6-424.85 1% T.S. epi & CO ₃	5449		0.25	Tr.				
	425.9-428.3 0.3% Cu	5450		2.4	Tr.				
	429.55-433.65 0.2% Cu	5451		4.1	0.02				
	434.4-440 0.45% Cu	5452		5.6	0.03				
	440-445.9 0.45% Cu	5453		5.9	Tr.				
	446.5-449.75 0.35% Cu	5454		3.25	0.10				
	450.3-451.2 0.05% Cu	5455		0.9	0.04				
	451.2-457.5 0.5% Cu	5456		6.3	0.01				
	457.5-462.5 0.4% Cu	5457		5.0	Tr.				
	462.5-465 Diss Py								
	465-470.5 0.3% Cu	5458		5.5	Tr.				
	475.4-477.35 0.1% Cu	5459		1.95	0.02				
490.0	Diss Py, Lt. pink syenite, sec. products ortho, CO ₃ , some chlor, some pyrox, hematite, albite, planer shearing @ 45, fine grained 100% Recovery	-							
		9480	70-80		0.25				
		9481	80-90		0.25				
		9482	90-100		0.75				
		9483	100-110		0.05				
		9484	110-120		0.025				
		9485	120-130		0.075				
		9486	130-140		0.45				
		9487	140-150		0.02				
		9488	150-160		0.09				
		9489	160-170		0.11				
		9490	170-180		0.02				
		9491	180-190		0.06				
		9492	190-203.5		0.05				

PROPERTY

SAMPLING RECORD

HOLE NO. GK 6 DEPTH 292' ANGLE 45° STRIKE East ELEVATION _____ 8+00

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM-TO-	LENGTH FT.	ANALYSIS			LENGTH FEET	P
					Cu %	%	%		
	175.4-178.9		0.5% Cu	5474		3.5	0.30		
	177.25-177.5		7.0% Cu						
	178.9-184		Diss Py						
	184-190		Coarse grained	5475		6.0	0.17		
	190-194.65		.1% Cu	5476		4.65	0.04		
	194.65-196.6		Lt. Green dior. fine grnd.						
	196.6-197.9		Highyl epidotized	5477		1.3	Tr.		
	198.9-200		3% Cu	5478		1.1	Tr.		
	200-205		Coarse grain	5479		5.0	Tr.		
	205-209.1		Lt. Green fine grained to dark green and coarse grained						
	209.1-216.3		.25% Cu	5480		6.2	0.01		
	217-225		.17% Cu	5481		7.8	Tr.		
	225-230		.35% Cu	5432		5.0	Tr.		
	230-235		1.1% Cu	5483		5.0	0.01		
	230-238.35		0.2% Cu	5484		3.35	0.01		
	Planer shearing @ 236.6 is 60°								
	238.85-243.85		L.C.						
	243.85-248.45		0.05% Cu	5485		4.6	.02		
	250.9-253.15		0.07% Cu	5486		2.25	.03		
	256.25-257.2		0.1% Cu	5487		0.95	.05		
	259.0-262.0		0.1% Cu	5488		3.0	.04		
	253.15-256.25		Lt. Grn. hem. pseudomorph after pyrite convolute shear @ 30°						
	263.4-271.55		0.2% Cu	5489		8.15	.02		
	271.55-276.75		Highly hematized, diorite, fine grained, planer shears @ 12°						
292	Diss Py, Pk syenite, Highly sericitized, sec. products - albite, sericite, CO3=, pink orthoclase pyrite, hematite, pyrox, convolute shearing @ 15°, planer shearing @ 37°								
	Medium grained - coarse grained 100% Recovery								

PROPERTY 7+00N - 0+00W

200'-45-1/2°
335'-44°

SAMPLING RECORD

HOLE NO. GK 7 DEPTH 337.4 ANGLE 45°

STRIKE East ELEVATION 3040.91 7+00N

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET
					Cu %	%	%	
0	Collar							
45.4	Casing							
331.9	Diss Py & Cy							
	Dark green diorite							
	Highly sericitized - Sec products - ser, chlor, CO ₃ , albite, pyrox, hematite, epi, planer shearing @ 30°, fine-med. grained							
	100% Recovery							
	48.35-50 0.07% Cu	5499		1.65	.01			
	50-75 Fine grained planer shearing @ 30°							
	51.8-55 0.01% Cu	5515		3.2	.02			
	59.5-65 0.01% Cu	5516		5.5	.04			
	65-70 0.01% Cu	5517		5.0	.05			
	70-77.65 0.01% Cu	5518	70-75	5.0	.05			
	77.65-100 Magnetite & epi, fine grained altered dior.							
	77.65-85 3% Cu.	5519		7.35	1.62			11.9
	85-90 3% Cu	5520		5.0	1.12			5.60
	90-95 3% Cu	5521		5.0	2.20			11.0
	95-100 3.2% Cu	5522		5.0	2.05			10.2
	100-125 Magnetite altered - fine grained Convolute shearing @ 45°							
	100-104.05 0.01% Cu	5523		4.05	.20			.81
	104.05-107.2 0.6%-0.4% Cu	5524		3.15	.15			.47
	107.2-110 5% Cu	5525		2.8	3.30			9.24
	110-115 2.5% Cu	5526		5.0	1.02			5.10
	115-117 4% Cu	5527		2.0	2.12			4.24
	117-123 1.6% Cu	5528		5.0	0.85			4.25
	129.15-133.15 0.02% Cu	5529		4.0	0.30			1.20
	133.15-140.3 0.3% Cu-.4%	5530		7.15	0.45			3.22
	142.4-150 0.02% Cu	5531		7.6	0.10			.76
	150-175 0.04% Cu	5532	150-160	10.0	0.10			68.0
	Fine grained Planer shears @ 55°							63.1 @ 1.08

lu.

PROPERTY 6+00N - 0+00W

SAMPLING RECORD

200'-41-1/2°
332'-41°

OLE NO. GK 8 DEPTH 341.6 ANGLE 45°

STRIKE East ELEVATION 3052.97

6+00N

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET
					Cu %	%	%	
0	Collar							
30	Casing							
327.3	Diss Py Cy, dark green diorite, highly sericitized - Sec products, sericite, chlor, pyrox, albite, CO ₃ , some epidote, hem, Planer shearing @ 55° & 30°, fine grained							
	30-43.8 Hi hem content 0.1% Cu	5609		13.8	0.10			
	43.8-50 0.35% Cu	5610		6.2	Tr.			
	50-75 F. grained some mag, planer shearing @ 45°							
	50-55 0.1% Cu	5611		5.0	0.02			
	55-65 0.25% Cu	5612		10.0	Tr.			
	65-70 0.1% Cu	5613		5.0	Tr.			
	70-75 0.17% Cu	5614		5.0	0.01			
	75-100 fine grained convolute shearing @ 7° & 47° 0.35% Cu some mag	5615	75-83.7	8.7	Tr.			
	100-125 fine grained convolute shearing @ 45° some mag & epi, 0.55% Cu	5616	83.7-92.3	8.6	0.01			
	From 102.5-105.7 rock is peridotite	5617	92.3-100	7.7	0.01			
	@ 111.6-111.85 4% Cu	5618	100-106.7	6.7	0.09			
	125-146.9 Fine grained, mag, convolute shears @ 45° 0.3% Cu	5619	106.7-113.1	6.4	0.05			
	146.9-153.6 lt. grn 0.1% Cu	5620	113.1-120	6.9	0.25			
	153.6-175 fine to med. grained, mag Planer shearing @ 30°, 0.3% Cu	5621	120-125	5.0	0.05			
		5622	125-133.5	8.5	0.01			
		5623	133.5-140	6.5	Tr.			
		5624	140-146.9	6.9	Tr.			
		5625	146.9-153.6	6.7	Tr.			
		5626	153.6-160	6.4	0.10			
		5627	160-167.5	7.5	Tr.			
		5628	167.5-175	7.5	0.10			
	175-200 fine grained, mag & epi Convolute shearing @ 45° Planer shearing @ 40° 0.3% Cu	5629	175-180	5.0	0.02			
		5630	180-188	8.0	Tr.			
		5631	188-194.5	6.5	Tr.			
		5632	194.5-200	5.5	0.02			
	200-203.5 lt. grn, 0.05% Cu coarse grnd.	5633		3.5	Tr.			
	203.5-225 dk. grn, med-fine grnd	5634	203.5-210	6.5	0.09			

PROPERTY

SAMPLING RECORD

HOLE NO. GK 8 DEPTH 341.6 ANGLE 45°

STRIKE East ELEVATION _____ 6+00

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET
					Cu %	%	%	
	Planer shearing @ 45°	5635	210-219.5	9.5	Tr.			
	Mag & epi 0.27% Cu	5636	219.5-225	5.5	0.02			
	225-250 Fine-med. grnd. mag & epi	5637	225-233.8	8.8	Tr.			
	Convolute shearing @ 45° 0.3% Cu	5638	233.8-241.2	7.4	Tr.			
	@ 244-245 calcite	5639	241.2-245.9	4.7	Tr.			
	250-275 fine-med. grnd. hem pseudo	5640	245.9-250	4.1	Tr.			
	after pyrite (200-250) mag & epi	5641	250-255.85	5.85	Tr.			
	Convolute shearing @ 45° & 25°	5642	255.85-261.5	5.65	0.02			
	@ 261.5-266.3 much calcite							
	250-261.5 0.28% Cu	5643		1.65	Tr.			
	261.5-263.15 0.05% Cu	5644		3.65	Tr.			
	266.35-270 0.2% Cu	5645		5.0	0.05			
	270-275 0.35% Cu							
	275-300 Coarse to fine grained mag & hem	5646	275-280	5.0	0.02			
	Much epi & CO3, diss sulfides 0.6% T.S.	5647	280-285	5.0	Tr.			
	Convolute shearing @ 40°	5648	285-293	8.0	Tr.			
	fine-med. grained some mag, epi & CO3	5649	293-300	7.0	Tr.			
	300-327.3 Planer shearing @ 45° .25% Cu	5650	300-306.8	6.8	Tr.			
	@ 312.25 - 321.2 much hematite .2% Cu	5651	306.8-312.25	5.45	Tr.			
333.4	327.3-333.4 Transition zone bet. dior. & syenite. Diss pyrite	5652	312.25-321.2	8.95	Tr.			
341.6	333.4-341.6 Syenite, reddish brn. to pink Diss pyrite, highly hematized. Sec products - ortho, hem, CO3, ser, albite, pyrox, Planer shearing @ 50° fine - med grained							

PROPERTY 5+00N - 0+00E

200' - 45°

SAMPLING RECORD

HOLE NO. GK 9 DEPTH 365 ANGLE 45°

365' - 43-1/2°

STRIKE East ELEVATION 3064.57

5+00

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET	P
					Cu %	%	%		
0	Collar								
40	Casing								
106.4	Diss Py & Cy, dark green diorite, highly sericitized, sec. products - ser, chlor, CO3, hem, pyrox, albite								
	Convolute shearing @ 48°, 30°, fine gr.	5696	40-45	5.0	Tr.				
	90% Recovery	5697	45-50	5.0	0.12				
	40-50 0.05% Cu	5698	50-58.9	8.9	0.22				
	50-75 Much epi & hem, blue clay 0.1% Cu	5699	58.9-66.9	8.0	0.17				
	63.6-64 Highly fractured. lt. green diorite altered, convolute shearing @ 40°, fine grained	5700	66.9-75	8.1	0.60				
	75-100 Fine gr. planer shearing @ 0°, 50°	5701	78.8-85	6.2	Tr.				
	epi, & hem, 0.2% Cu from 78.8-100	5702	85-92.9	7.9	0.10				
	100-106.4 Fine gr. planer shearing @ 20°	5703	92.9-100	7.1	0.10				
	epi, 0.1% Cu	5704	100-106.4	6.4	0.17				
115.5	Diss Py & Cy, dark green peridotite Highly sericitized, sec. products + chlor, ser, hem, olivine, mag, CO3, planer shearing @ 45°, fine grained 100% Recovery, 0.15% Cu.	5705	106.4-115.5	9.1	0.27				
315.0	Diss Py & Cy, dark green diorite Highly sericitized, sec. products - ser, chlor, hem, epi, pyrox, CO3, albite, epi Convolute shearing @ 30° Planer shearing @ 65°, fine grained 100% Recovery 115.5-125 0.4% Cu 125-150 hem. pseudomorphs after pyrite 125-141.3 fine grained, 141.3-150 coarse grained 135-138.5 Highly calcified, no pseudo and no visible mineralization 138.5-141.5 Much CO3 content Convolute shearing @ 45°	5706	115.5-125	9.5	0.20				

PROPERTY

SAMPLING RECORD

HOLE NO. GK 9 DEPTH 365 ANGLE 45°

STRIKE East ELEVATION _____ 5+00

DEPTH FEET	FORMATION	SAMPLE	INTERVAL	LENGTH	ANALYSIS			LENGTH
		NO.	FROM- TO-	FT.	Cu %	%	%	FEET
	Sec. products - hem, chlor, ser, ortho, CO ₃ , some epi, diss Py & Cy							
	315-325 .05% Cu	5736	315-320	5.0	0.02			
	Convolute shearing @ 45°	5737	320-325	5.0	Tr.			
327.1	Med. grained, much hematite							
	Diss Pyrite, pink syenite, highly sericitized							
	Sec. products - ortho, ser, hem, some chlor, s							
	some pyrox, med. grained, planer shearing @ 3° & 12°							
347.3	Transition zone between diorite & syenite, highly sericitized & calcitized							
	Sec. products - ortho, ser, CO ₃ , hem, mag.							
	Planer shearing @ 3°							
	Diss pyrite 0.01% Py							
365	Diss pyrite, pink syenite, grey-pink syenite, mod. sericitized							
	Sec. products - ortho, hem, CO ₃ , ser, some pyrox, albite, Convolute shearing @ 57°, coarse grained							
	100% Recovery							

SAMPLING RECORD

E NO. GK 10 DEPTH 300 ANGLE 90°

STRIKE _____ ELEVATION 3051.3

CO-ORDINATES
14+00N 1+00E

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS			REMARK
					Cu %	%	%		FEET X PER CENT			
0	Collar											
33.6	Casing											
278.1	Diss Sulfides Py & Cy Dark green diorite Highly sericitized - Sec. products, ser, chlor, CO3, hem, albite, mag, epidote, planer shearing @ 25°, coarse grained, hem pseudo after py 100% Core recovery	5901	33.6-41.4	4.8	Tr.							
		5902	41.4-50.0		0.07							
	33.6-50 0.25% T.S. Much epi & hem											
	46.3-48.2											
	50-75 hem. pseudo after pyrite, planer shearing @ 40°, coarse grained, trace Diss Py											
	55-61 .5% T.S.	5903		6.0	0.10							
	75-100 Coarse grained, much epi & Fe (hem) 75-85 .03% Cu	5904	75-80	5.0	0.01							
		5905	80-85	5.0	0.02							
	85-93.8 .1% Cu.	5906	85-93.8	8.8	0.07							
	93.8-100 .6%-.7% Cu.	5907	93.8-100	6.2	1.10				6.82			
	Planer shearing @ 4° & 40°	5908	100-106.6	6.6	1.20				7.92			
	Hem. pseudomorphs after pyrite	5909	106.6-113.9	7.3	0.65				4.75			
	100-125 Hem. pseudomorphs after pyrite	5910	113.9-120	6.1	0.45				2.75			
	Coarse grained, much epi & hem	5911	120-125	5.0	0.15				0.75		63.20' @ 0.53%	
	Planer shearing @ 40° 0.6% Cu	5912	125-131.4	6.4	0.25						93.8'-157'	
	125-150 Coarse grained, some epi, some mag								1.60			
	Planer shearing @ 45°, 50° 0.7% Cu	5913	131.4-138	6.6	0.32				2.11			
		5914	138-144.4	6.4	0.67				4.29			
		5915	144.4-150	5.6	0.25				1.40			
	150-175 Coarse to fine grnd. .75% Cu	5916	150-157	7.0	0.15				1.05			
	Convolute shearing @ 40°	5917	157-163.6	6.6	0.05							
	Planer shearing @ 20° & 60°	5918	163.6-169.3	5.7	0.02							
	175-200 Med. grained, trace only mag	5919	169.3-175	5.7	0.02							
	Planer shearing @ 60°											
	Convolute shearing @ 40°	5920	175-182.9	7.9	0.05							
	175-190 .1% Cu	5921	182.9-190	7.1	0.02							

VELOCITY SURVEYS LTD.

SAMPLING RECORD

SHEET NO. 1

PROPERTY 14+00N - 0+00E

WELL NO. GK 12 DEPTH 388.1 ANGLE 90°

STRIKE _____ ELEVATION 3050.50

CO-ORDINATES 14+00N 0+00E

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		REMARKS
					Cu %	%	%		FEET X PER CENT		
0	Collar										
25	Casing										
130.2	Diss Py & Cy, dark green diorite Med. to highly sericitized, sec. products - ser, chlor, CO ₃ , hem, mag, albite, epidote, coarse grained Planer shearing @ 37° & 60° 100% Recovery 0.15% Cu Fossil leaves @ 25.8' 25-75 much epi	5964	25-36.9	6.9	Tr.						
		5965	31.9-38.2	6.3	0.03						
		5966	38.2-44.4	6.2	0.02						
		5967	44.4-50	5.6	0.03						
		5968	50-56.7	6.7	0.01						
	50-81.6 Coarse grained, hem pseudomorphs Planer shearing @ 20°, 45°, 60° Cu 0.1% 81.6-83.8 L.C.	5969	56.7-63.2	6.5	0.01						
		5970	63.2-69.5	6.3	Tr.						
		5971	69.5-75	5.5	0.05						
	83.8-85 No visible mineralization	5972	75-81.6	6.6	0.01			3.15			
	85-95 Diss Py & Cy 0.8% Cu	5973	85-90	5.0	0.63			3.15			
	95-100 1.4% T.S. Diss Py & Cy	5974	90-95	5.0	1.30			6.50			
	83.8-100 Convolute shears @ 30°, 37° Coarse to fine grained, blue powder present	5975	95-100	5.0	0.56			2.80			
	100-125 Med-fine grained, convolute shears @ 30°, 60° 2% T.S. (Py&Cy)	5976	100-106.8	6.8	1.01			6.87	40' @ 0.592 % Cu		
		5977	106.8-113.1	6.3	0.26			1.64	85'-125'		
	100-111.3 Blue powder	5978	113.1-119.6	6.5	0.21			1.37			
	125-130.2 1.77 T.S. Py L.C. 127.4-130	5979	119.6-125	5.4	0.25			1.35			
		5980	125-130.2	2.6	0.07						
320.9	Diss Py & Cy, dark green peridotite, Highly chloritized and sericitized Sec. products - chlor, ser, CO ₃ , mag, hem, alivine, epi, fine grained to coarse grained. mag phenocrysts in chlor matrix, planer shearing @ 15°, 50°, 30° 148.7-150 Coarse grained 130.2-148.7 Fine grained	5981	130.2-138.3	8.1	0.02						
		5982	138.3-145	6.7	0.04						
		5983	145-150	5.0	0.02						
	100% Recovery 0.5% Cu	5984	150-158.3	8.3	0.12						
	150-175 Planer shearing @ 45°, 65°, epi	5985	158.3-165	6.7	0.09						

PROPERTY 14+00N - 14-00W

SAMPLING RECORD

200'-90°
384'-89°

HOLE NO. GK 13 DEPTH 384 ANGLE 90°

STRIKE _____ ELEVATION 3018.70

14+0

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET
					Cu %	%	%	
0	Collar							
20	Casning							
122.3	Diss Py & Cy, dark green diorite Highly sericitized (hematized to 36') Sec. products - ser, chlor, mag, hem, CO3, albite, epi, convolute shearing @ 30° Coarse grained - mag phenocrysts, 100% Recovery							
	20-25 0.4% Cu	5871		5.0	0.15			
	25-50 Med.-fine grained Planer shearing @ 55° 25-36 epidote							
	25-30 .4% Cu	5872		5.0	0.25			
	30-40 1.2% T.S. Py & Cy	5873	30-35	5.0	0.20			
	40-50 0.9% T.S.	5874	35-40	5.0	0.15			
	50-63.4 Planer shearing @ 30° & 70°	5875	40-45	5.0	0.10			
	Coarse grained 0.75 T.S. Py & Cy	5876	45-50	5.0	0.10			
	63.4-75 L.C.	5877	50-57.2	7.2	0.22			
	75-78.5 .4% Cu	5878	57.2-63.4	6.2	0.12			
	85-100 .3% T.S. Py & Cy	5879		3.5	0.20			
	85-93.1	5880		8.1	0.05			
	03.1-100	5881		6.9	0.10			
	100-123.8 0.3% T.S. Py & Cy	5882	100-108.2	8.2	0.10			
	Planer shearing @ 60° & 45°	5883	108.2-117.7	9.5	Tr.			
	Med. to coarse grained	5884	117.1-123.8	6.7	0.02			
	123.8-125 L.C.							
	122.3-125 Peridotite							
344.5	Dark green peridotite Highly sericitized, sec. products - ser, chlor, olivine, hem, much mag, CO3, blue powder, planer shearing @ 45°, 60°,							
	125-140 No visible mineralization	5885	135-140	5.0	0.02			

PROPERTY

SAMPLING RECORD

HOLE NO. GK 13 DEPTH 384' ANGLE 90° STRIKE _____ ELEVATION _____ 14+0

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET
					Cu %	%	%	
344.5	140-150 .05% Cu	5886	140-145	5.0	0.01			
	150-175 No visible min. 150-155 trace	5887	145-150	5.0	0.01			
	cu. planer shearing @ 50°	5888	150-155	5.0	Tr.			
	Coarse grained, mag phenocrysts, highly fractured							
	L.C. 162.9-165							
	L.C. 171.6-173.2							
	175-200 Same as above							
	185-190 No visible mineralization	5889		5.0	Tr.			
	L.C. 176.5-178.3							
	L.C. 197.8-200							
	200-225 Planer shearing @ 14° & 45°							
	Trace native copper 212.4'	5890	212.2-215	2.8	Tr.			
	200-221.3 No visible mineralization							
	221.7-225 0.05% Cu	5891		3.3	Tr.			
	L.C. 202.1-202.7							
	" 207.2-208.3							
	" 211.2-212.2							
	" 216.7-216.9							
	" 221.2-221.7							
225-250	Planer shears @ 45°, coarse grained							
	225-230 .05% Cu	5892		5.0	Tr.			
	230-250 No visible mineralization							
	L.C. @ 233.7-235, 235.9-236.7, 238.3-240.9, 249.1-250							
	250-275 F. grained, waxy texture	5893	250-255	5.0	Tr.			
	Planer shearing @ 65°							
	259.1-260 L.C., 262.4-263.3 L.C.							
	250-268.3 No visible mineralization							
	268.3-275 0.25% native copper	5894		6.7	Tr.			
	275-300 F. grained, waxy texture	5895	275-283.3	8.3	Tr.			
	Planer shearing @ 36° & 60°							
	275-290 native cu & Cy 0.3% Cu	5896	283.3-290	6.7	Tr.			

SAMPLING RECORD

PROPERTY _____

14+0

HOLE NO. GK 13 DEPTH 384' ANGLE 90°

STRIKE _____ ELEVATION _____

DEPTH FEET	FORMATION	SAMPLE	INTERVAL	LENGTH	ANALYSIS			LENGTH
		NO.	FROM-TO-	FT.	Cu %	%	%	FEET
	290-300 Cy 0.35% Cu	5897	290-295	5.0	Tr.			
	Hem. phenocrysts after pyrite	5898	295-300	5.0	Tr.			
	300-325 Hem. phenocrysts after pyrite	5899	300-307.9	7.9	Tr.			
	F. grained, waxy texture	5900	307.9-313.7	5.8	Tr.			
	Planer shearing @ 50°	9451	313.7-318.1	4.4	Tr.			
	Diss Py & Cy 300-318.1 .3% T.S.	9452	318.1-325	6.9	Tr.			
	318.1-325 .15% T.S.							
	325-344.5 F. grained, waxy texture	9453	325-331.7	6.7	Tr.			
	Planer shearing @ 50°	9454	331.7-340	8.3	0.07			
	Diss Py & Cy 325-340 0.3% T.S.	9455	340-344.5	4.5	0.01			
	340-344.5 0.8% T.S. mostly py							
355.0	Diss Py & Cy, reddish green diorite							
	Highly sericitized & Highly hematized							
	Sec. products - ser, chlor, hem, CO3,							
	albite, some mag, planer shearing @ 50°							
	Fine grained, 100% Recovery							
	344.5-350 Diss Py & Cy 0.05% Cu	9456		5.5	0.04			
	350-355 Convolute shearing @ 35°, no							
	visible mineralization, fine grained							
384.0	Diss Pyrite, pink syenite, highly							
	sericitized, sec. products - ser, ortho-							
	clase, CO3, hem, some chlor, & some							
	pyroxene, coarse grained, planer shearing							
	@ 25° 100% Recovery							

PROPERTY 18+00N - 2+00E

SAMPLING RECORD

HOLE NO. GK 15 DEPTH 91.2 ANGLE 90° 90°-90° STRIKE _____ ELEVATION 3077.7

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET
					Cu %	%	%	
0	Collar							
23'	Casing							
27.95	Diss Py & Cy							
	Dk green diorite							
	23-24.7 feldspathic diorite							
	Sec. products - sericite, chlor, hem, CO3, albite, med. grained							
	23-50 Highly hematized planer shearing @ 25°							
	25.15-27.25 L.C.							
	27.95-50 L.C.							
	23.0-27.95 0.5% T.S. Py & Cy	9468		2.85	0.02			
50	L.C.							
50.7	50.0-50.7 Pink syenite							
51.6	Dark green diorite							
	Same as above diorite 1% T.S. mostly pyrite	9469	50.7-51.6	0.9	0.02			
75	Diss Pyrite Pink syenite							
	Slightly sericitized							
	Sec products - orthoclase, CO3, ser, some chlor, some albite, some pyrox Planer shearing @ 50° & 70° med. grained							

PROPERTY, B+00N - 1+00E

SAMPLING RECORD

HOLE NO. GK-16 DEPTH 98.2 ANGLE 90°

STRIKE _____ ELEVATION _____

18+00

DEPTH FEET	FORMATION	SAMPLE NO.	INTERVAL FROM- TO-	LENGTH FT.	ANALYSIS			LENGTH FEET
					Cu %	%	%	
0	Collar							
25	Casing							
81.9	Dis Py & Cy Dk. green diorite Highly sericitized Sec products - ser, chlor, CO3, hem, albite, epi, mag Med. grained Convolute shearing @ 40° 100% R							
	25-35		0.25% Cu	9472	10.0	Tr		
	35-40		0.5% Cu	9473	5.0	0.02		
	40-50		0.2% Cu	9474	10.0	Tr		
	50-60		0.3% T.S.	9475	10.0	Tr		
	60-70		0.6% T.S.	9476	10.0	0.02		
	70-75		0.22% Cu	9477	5.0	0.02		
	Planer shearing @ 35°							
	75-78.0		1% T.S. .3% Cu	9478	3.0	Tr		
	78-81.9		1% T.S.	9479	3.9	Tr		
86.8	Transition zone bet. dion & syenite							
98.0	Diss pyrite Pink syenite mod. sericitized Sec. products - ortho, ser, CO3, some pyrix, Coarse grained, planer shearing @ 35°							