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REPORT ON A GEOLOGICAL MAPPING

AND

MAGNETOMETER SURVEY

TIELINE 17+00S GRID,

IRWIN TOWNSHIP, Ontario

FOR

METALORE RESOURCES LIMITED

October and November 1983

Date: December 1983

By: P. Lassila

OM 84-4-C-184



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RECOMMENDATIONS

Since most of the mapped area is covered by shallow overburden, prospecting locations by backhoe trenching is probably the most effective method of exploration subsequent to detailed mapping and other surface prospecting. Backhoe trenching should be completed over old trenches, zones of secondary silicification, surface grab sample locations with encouraging values, fault shears, the areas with cherty and/or siliceous horizons, and zones of intense fracturing. Some such areas, with a favourable geological environment, and are discussed under " Economic Aspects. " Locations which return encouraging values at surface should be tested at depth by drilling.

Detailed mapping - prospecting should be completed over the entire volcanic belt westward from line 34E to the west edge of the property at about 36W. Backhoe trenching and drilling, which has already been completed over part of this area with some encouraging results, should be continued over remaining unexplored sections subsequent to the mapping - prospecting program.

Soil geochemistry has not yet been utilized as an exploration tool on the Metalore Resources property. Soil sampling over some of the known gold bearing zones should be completed first to test the viability of this method for this area. If results are positive a program of soil sampling over selected areas should be initiated subsequent to detailed mapping. This relatively low cost technique could significantly enhance the selection of favourable targets for backhoe trenching or other more advanced exploration work. Analysis by the neutron activation method is recommended for all soils sampled for gold.

Following are expenditures estimates, which pertain only to work recommended over the TL 17+00S area covered by this report.

1) Geologist, one month.	\$6,000
2) Soil sampling program (500 samples assumed) including costs of analysis.	\$10,000
3) Backhoe trenching at an average cost of \$550 per day, 20 days.	\$11,000
4) Diamond Drilling, 3000 feet at \$20 per foot.	\$60,000
5) Rock assay costs.	\$5,000
6) Reports and Maps.	<u>\$6,000</u>
Total Expenditures	\$98,000

INTRODUCTION

The purpose of this report is to document the work and results of a geological mapping and magnetometer survey conducted over a portion of Metalore Resources property in Irwin Township, Ontario (Figures 1 & 2).

All the work was carried out by the author during October and November 1983. The geological mapping and magnetometer results are presented in map form on Plates 1, 2 and 3.

ACCESS

The survey area lies next to the Windigokan road about six miles north of the junction at Highway 11 about 12 miles west of Beardmore (Figures 1 & 2).

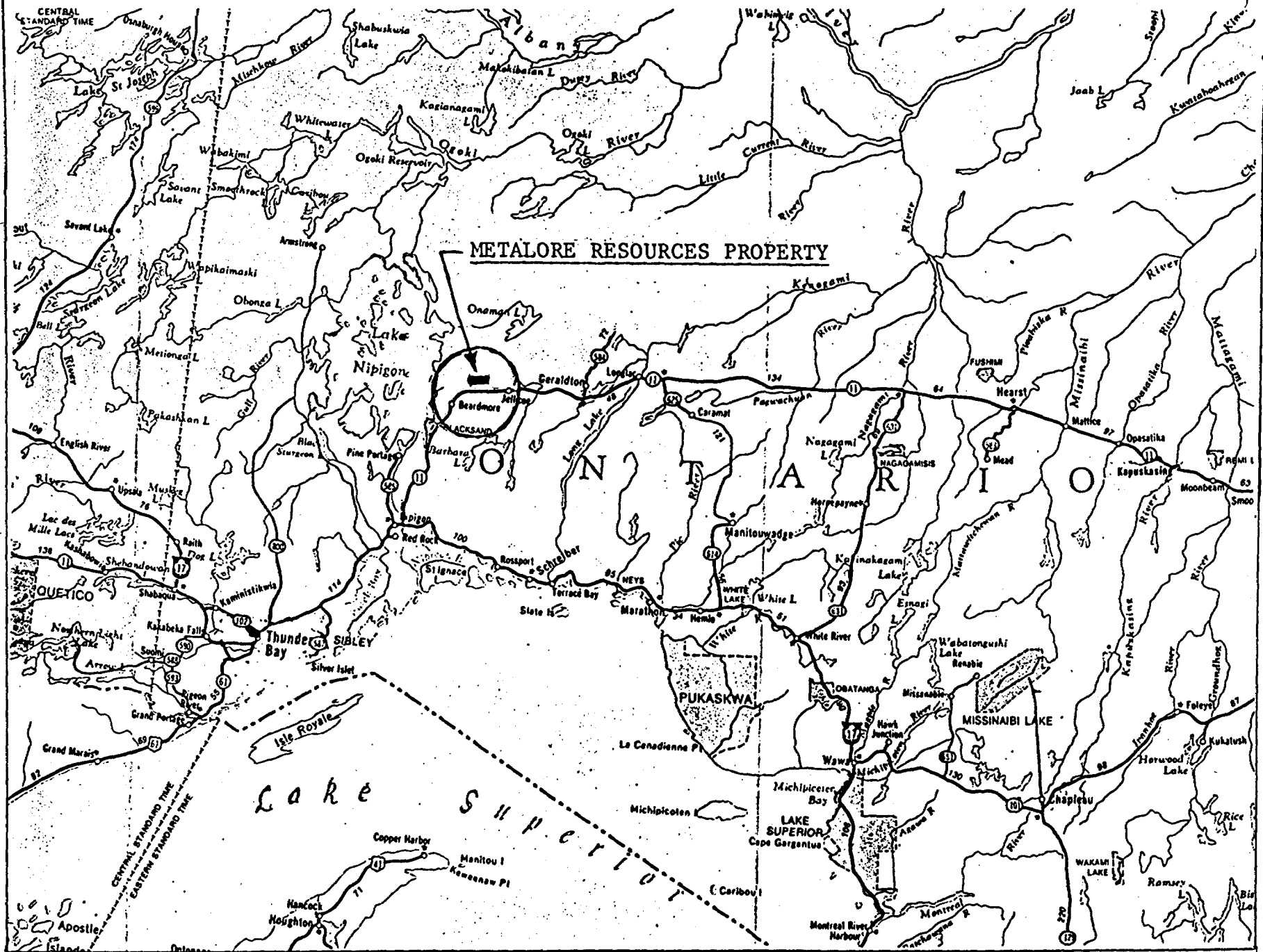
Numerous logging roads provide good diamond ^{drill} road access to various parts of the survey area (Plates 1, 2 and 3).

TOPOGRAPHY

The survey area consists of nearly flat to moderate relief with local sharp breaks of up to 50 feet in elevation. Several small topographic ridges trend easterly generally parallel to the geological and structural fabric.

A major east - southeast striking fault, which separates the metasediments to the north and metavolcanics to the south, forms a sharply incised narrow swampy valley in the northwest part of the area.

Outcrop is moderately abundant or buried under shallow overburden except for occasional swampy areas and a small sand plain just north of the eastern portion of Fox Ear Lake.



LOCATION MAP

Figure 1

PREVIOUS WORK

Within the past 45 years very little exploration has been carried out over the survey area. During 1935 several stripped trenches were dug out in search of quartz veins, some of which were rock blasted. Apparently a few of these panned visible gold.

Northwest from the survey area, geological mapping, a magnetic survey and six winkle drill holes for a total of 1214 feet were completed by Lynx Canada Exploration during 1974. Several of the holes returned good values (0.08 oz./ton to 0.30 oz./ton) in gold over narrow (1 to 3 foot) widths, with one assay of 1.59 oz./ton over 0.8 feet.

WORK PROGRAM

Detailed geological mapping was completed between October 4th and October 12th, 1983, over a cut and chained picket line grid. Lakes, numerous old logging roads and other topographic features, clearly evident on aerial photographs, were utilized to adjust picket line stations to their true relative positions on the map presentation. Quartz veins and locations of sulfide mineralization were sampled for assay.

During the period between, November 9th and November 12th, 1983, a magnetometer survey was conducted over the same grid system with a Scintrex Proton MP2 magnetometer. A total of 887 stations along 8.01 line Km of traverse was recorded. Readings were taken at 50 foot intervals in some areas of flat magnetic response and at 25 foot intervals over most of the survey area. Normally, recorded readings were also taken between the recorded stations to provide a nearly continuous observation of the magnetic relief. Magnetic peaks and lows were recorded at less than 25 foot intervals at some locations.

During the early morning and late afternoon readings were recorded at a camp base station to check for diurnal drift variation during the day. Base stations, established at line crossings on TieLine 17+00S, were also utilized during the traverse periods.

Up to 150 gammas of diurnal drift, which generally increased from morning to late afternoon, was recorded at the camp base station. However field base station readings allowed diurnal drift, during traverse periods, to be corrected to an accuracy of less than 40 gammas error relative to any station on the survey grid.

REGIONAL GEOLOGY

The Metalore Property lies in the central portion of a broad greenstone and metasedimentary belt of Archean rocks which extends west from Lake Nipigon. This belt contains numerous gold - bearing occurrences and several past producing gold mines.

Several major east - west striking subparallel faults occur within the belt. For more detail, the reader is referred to the 1975 Geological Report No. 122 by W. O. MacKasey.

The mapped area is predominantly underlain by intermediate to mafic metavolcanics which are separated from a north lying unit of metasediments by a major east - southeast striking fault.

GEOLOGY UNDERLYING THE TIELINE 17+00S GRID

(LINES 34 E TO 58E, PLATE 1)

A pervasive east - west striking geological and structural fabric prevails in the mapped area. It is underlain by two major rock units; a northerly unit of well stretched, foliated, recrystallized, steeply dipping and easterly striking metasediments, and a southerly 1500 feet to 3000 feet thick metavolcanic pile which includes compositional variations ranging from rhyolite to metabasalt. A major east - southwest striking fault (Brookbank Fault) follows the contact of the two units.

The metasediments are composed predominantly of sericitized tuffaceous metasilts and metatuffs interbedded with lesser schistose psammitic subgrey wacke bands up to tens of feet in thickness, and thin phylitic and slatey beds up to several feet thick.

Immediately south of these finer grained metasediments a 50 feet to 150 feet thick bed of schistose well stretched pebble and pebble - cobble polymictic metaconglomerate lies in fault contact with southerly mafic metavolcanics. At the east end of the mapped area a narrow tongue of extremely altered, massive, well dolomitized, granulose skarn - like mafic rock, ranging in thickness from a few feet at 48E to possibly 50 feet thick at 56E, is wedged between the fine grained metasediments and metaconglomerate.

A general lithologic change occurs southerly across section, from predominantly massive siliceous tuffaceous psammitic metasandstones, at the north edge of the map area, to predominantly greywacke metasandstones and pelitic schists near the metaconglomerate along the fault zone.

The volcanic pile may be segregated into two lithogocical components, a northern complex volcanic zone and a southern essentially monolithic volcanic zone. These two segregations are apparently seperated by an easterly striking buried fault which underlies Hot Dog and Fox Ear Lakes and the adjoining swamp between the two Lakes.

The northern volcanic zone exhibits very considerable compositional variation within short distances across section and to a lesser degree along strike. Magmatic differentiation, metamorphism, introduction of alteration products (predominantly silicification, carbonatization and epidotization), fault related dislocation and shearing, moderate to intense fracturing and injection of quartz and carbonate fracture fillings, have all contributed to the present lithologic complexity. Specific lithogical identities are clearly evident only as isolated units, and interrelationships from location to location are not clear. However some general trends are obvious.

Immediately south of the fault, and the northern metasediment contact, the volcanics have been intensely fractured, carbonatized, moderately chloritized and carry abundant small calcite and quartz - calcite fracture filling veinlets. The area to the west, north of BL 17+00S, is underlain by metandesites grading to metabasalts with minor dacitic phases. Well stretched pillowed meta - andesite was observed close to line 40E at 7+30N. An easterly trending section of predominantly dacitic volcanics underlies the central portion of the volcanic pile. These rocks are generally well fractured and commonly exhibit epidote alteration and secondary silicification.

Intergradations of meta - andesite and metabasalt predominate the area which lies south of the dacitic volcanics and north of Fox Ear Lake and Hot Dog Lake. Locally they grade into coarser diabasic textured metagabbroic and metadioritic phases which are well exhibited in a large outcrop along the northeast shore of Fox Ear Lake. Also, in the area south of BL 17+00S and north of the two lakes, several easterly striking, steeply dipping, narrow (few feet to possibly 50 feet thick) units of banded moderately sheared very siliceous rocks lie within the volcanic sequence. They grade from fine grained quartzitic metasilstone to very fine brittle chert which appear to be derivatives of siliceous tuffs or ash beds which commonly lie in sharp contact with the metavolcanics.

The area south of Fox Ear Lake and Hot Dog Lake consists of relatively uniform massive metavolcanics composed of altered andesites and basalts which locally coarsen into metadiorite and metagabbro. Well developed pillows were observed in one outcrop at 12+50S on line 58E.

A major easterly striking fault follows the north shore of Windigokon Lake along a contact between northlying metavolcanics and southlying metasediments. Near the fault the volcanics are well sheared, chloritized, and moderately carbonatized. The metasediments are poorly exposed along a thin strip near the shoreline and include sericite schist, psammitic greywacke, and minor intensely stretched and foliated polymictic metaconglomerate.

Subsequent to the mapping a significant zone of silicification with associated quartz veining a few feet to several feet wide was exposed by backhoe trenching just north of TL 17+00S between lines 37E and 40E. At the time of this writing the author had not yet received assay results from representative grab samples taken from several locations along the quartz vein.

ECONOMIC ASPECTS

The information available to date indicates that the central zone containing intermediate volcanics offers the best potential for gold occurrences. Grab samples from old trenches, as well as from some newly discovered quartz - bearing locations, returned several encouraging values in gold ranging from 0.01 oz./ton to 0.30 oz./ton. Subsequent to mapping, backhoe trenching exposed a significant zone of silicification and quartz veining just north of TL 17+00S between 37E and 40E. Other similar occurrences may exist buried under shallow overburden in the nearby area. Results of geological mapping, which indicate abundant secondary silicification, epidotization and fracturing to be common occurrences within the intermediate volcanics, may be considered as further evidence of a favourable geological environment within this central portion of the map area.

Another area which is favourable as a host for gold is the zone of well fractured and generally heavily carbonatized mafic volcanics just south of the fault contact with the northlying metasediments. The rocks here are not well exposed although they mainly lie under very shallow overburden.

The narrow easterly striking cherty or siliceous horizons, which occur south of TL 17+00S, are exposed only in a very few small outcrops, and could contain unexposed associated gold occurrences.

Lastly, structure breaks and linears, particularly those with evidence of associated fault shearing, may contain zones of gold enrichment.

MAGNETOMETER SURVEY (PLATES 2 & 3)

To facilitate interpretation the magnetometer results are presented in both contour and stack profile form. The high density of the station readings enables a detailed depiction of sharp changes in magnetic relief and substantiates gradual gradient changes.

While some geological trends are clearly reflected by the nature of the magnetic relief, others are not. The magnetic response over the metasediments, which lie north of a south - southeast striking fault, is uniformly flat with a maximum relief of less than 100 gammas. The metavolcanics south of the fault exhibit a very variable magnetic character including 1), several broad areas of low to moderate (50 to 500 gammas) relief 2), moderate relief (200 to 1500 gammas) in the form of lense-like magnetic troughs and ridges in the central part of the area south of TL 17+00S and 3), a 400 foot wide zone of high (1500 to 8000 gammas) relief west from line 46E just north and south of TL 17+00S.

A general magnetic low characterizes the well carbonatized mafic volcanics just south of the fault. The zone of high relief, west from line 46E, is underlain by metaandestic to metadacitic volcanics which are partly covered by swamp. The area of linear magnetic ridges and troughs south of TL 17+00S, apparently reflects compositional variations in the underlying volcanics, but no obvious correlation between the magnetic relief and the mapped rocks is evident. At other locations similar rocks underly areas of relatively flat magnetic relief.

In general, a zone of moderate to strong magnetic response in the central west dissipates into a broad area of weak magnetic response to the east. The significance of this magnetic trend remains undetermined.

J. Lasala

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NOTE:

Various old maps of work done by Noranda and Lynx Canada and other old maps and sketches of exploration work may be found in the files of Metalore Resources Limited.

APPENDIX I

MAN DAYS WORKED

Geological Mapping	6 days
Drafting Field Map	2 days
Magnetometer Survey	4 days
Report and Maps	<u>12 days</u>
Total Days	24 days

Line Km Magnetometer Survey 5.0 mi
8.01 Km

No. of Magnetometer Readings Recorded 887

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AUTHORS QUALIFICATIONS

I Pentti Lassila, author of this report, carried out the geological mapping and magnetometer survey over the area which is covered by this report. I am a 1968 geological graduate from the University of North Dakota and have accumulated fourteen years of minerals exploration experience including five years as a senior geologist with the minerals exploration department with Hudson's Bay Oil and Gas Co. Ltd. (recently merged with Dome Petroleum).

P Lassila



42E12NW0080 63.4852 SANDRA

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GEOLOGICAL AND GEOPHYSICAL

PROGRAM

FOR

METALORE RESOURCES LIMITED

IRWIN TOWNSHIP

ONTARIO

JULY 1983

L.D.S. Winter
B.A.Sc., M.Sc., F.G.A.C.
August 18, 1983

DM 84-4-C-184

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Plate 11	VLF-EM Survey Horizontal Field Strength	:Center Sheet
Plate 12	VLF-EM Survey Horizontal Field Strength	:West Sheet
Plate 13	VLF-EM Survey Horizontal Field Strength	:South Sheet

All maps at scale of 1in=100 ft.

1. INTRODUCTION

Metalore Resources Limited holds several claim blocks in Irwin Township, Thunder Bay Mining Division, Ontario. As part of an on-going exploration program to test the various claims for economic gold deposits, the writer was requested by Mr. G. W. Chilian president and managing director of Metalore Resources Limited, to conduct geological and geophysical surveys on cut lines over part of the claim group lying between Knox and Patter Lakes to the north and Windigokan Lake to the south.

The work was done by and under the supervision of the author during the period July 20 to 28 inclusive, 1983. Statistical data with regard to the work is presented in Appendix 1. The following report outlines the work done and the results of the program of:

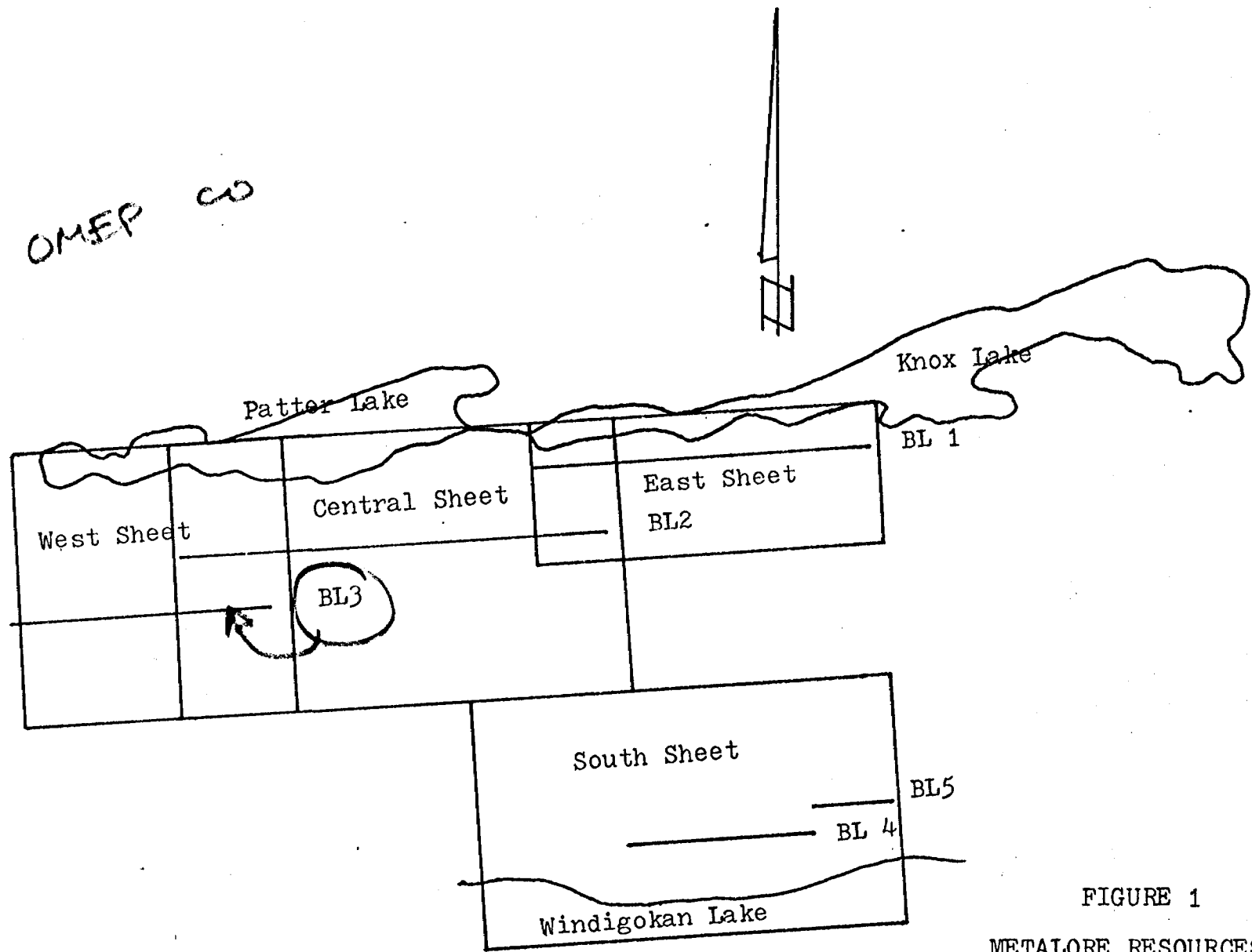
1. geological mapping
2. magnetometer survey
3. VLF-EM survey.

2. SUMMARY

2.1 The property was geologically mapped along lines 200 feet and 400 feet apart and the results are presented in 4 maps. (Figure 1).

The rock units are part of an east-west trending, vertically dipping homocline of metavolcanics and metasediments. Most of the area is underlain by metabasalt flows and pyroclastics with polymictic metaconglomerate along the south shore of Knox and Patter Lakes in the north. To the south, along the north shore of Windigokan Lake, metabasalts are interlayered with quartz-sericite-carbonate schist (metarhyolite?). A broad zone of schists (deformed pyroclastics?) lies

— OMEP CO



Scale: 1 in. = $\frac{1}{4}$ mile

FIGURE 1
METALORE RESOURCES LTD.
MAP SHEET KEY
IRWIN TOWNSHIP CLAIMS
Aug. 17:83

the
north of ^Ametabasalts.

A granodiorite stock is present just north of Windigokan Lake on L20E and diabase dikes have intruded the metavolcanics and metasediments at the west end of Patter Lake.

The property shows a strong east-west tectonic foliation and a major east-west fault is considered to occur under the major scarp-controlled swamp about 1500 feet south of Knox and Patter Lakes. Major faults probably also underlie Knox and Patter Lakes in the north and Windigokan Lake to the south. Secondary faults and shears trend 050° - 070° between these major structures.

2.2 One area of silicification, quartz-veining and pyritization on lines 28W and 30W at BL1 was noted and is recommended for stripping, sampling and detailed study.

2.3 An old area of trenching showing minor malachite and chalcopyrite mineralization was observed 200 feet north of Windigokan between lines 30W and 34W.

2.4 The magnetometer survey generally showed flat magnetics with values between 59000 nT and 60000 nT. Anomalous values above 60000 nT are considered to represent magnetite bearing basaltic flows. There does not appear to be any direct relationship between the magnetics and economic mineralization.

2.5 5 conductive zones were located by the VLF-EM survey. Conductors A,B,C and D are considered to be due to water-filled shears. Conductor E is in part related to areas interpreted as being water-filled but other parts appear underlain by metabasalts. There is no obvious correlation between the VLF-EM conductors

and economically important gold mineralization.

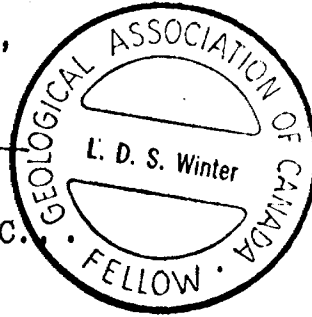
Respectfully submitted,

L.D.S. Winter

L.D.S. Winter

B.A.Sc., M.Sc., F.G.A.C.

August 18, 1983



3. PROPERTY.

3.1 LOCATION

The claims of Metalore Resources Limited are located in west-central Irwin Township, Thunder Bay Mining Division at approximately 49°-40'N latitude; 87°-45' W longitude, approximately 14 km northwest of the village of Beardmore on provincial highway #11. (Figure 2).

3.2 ACCESS

The property can be accessed by the Windigokan Lake access road which leads north from #11 highway approximately 10 km east of Beardmore. The southern part of the grid is most easily reached by boat along the north side of Windigokan Lake while in the north, the Knox Lake-Patter Lake area can be reached via a four-wheel drive road to within one mile of the east end of Knox Lake and then by a portage to Knox Lake.

3.3 TOPOGRAPHY AND VEGETATION

The topography follows very closely the approximately east-west trend of the geological features. The Knox and Windigokan Lake areas are characterized by rugged terrain with east-west trending draws and ridges with relief up to 200 feet above the lake level.

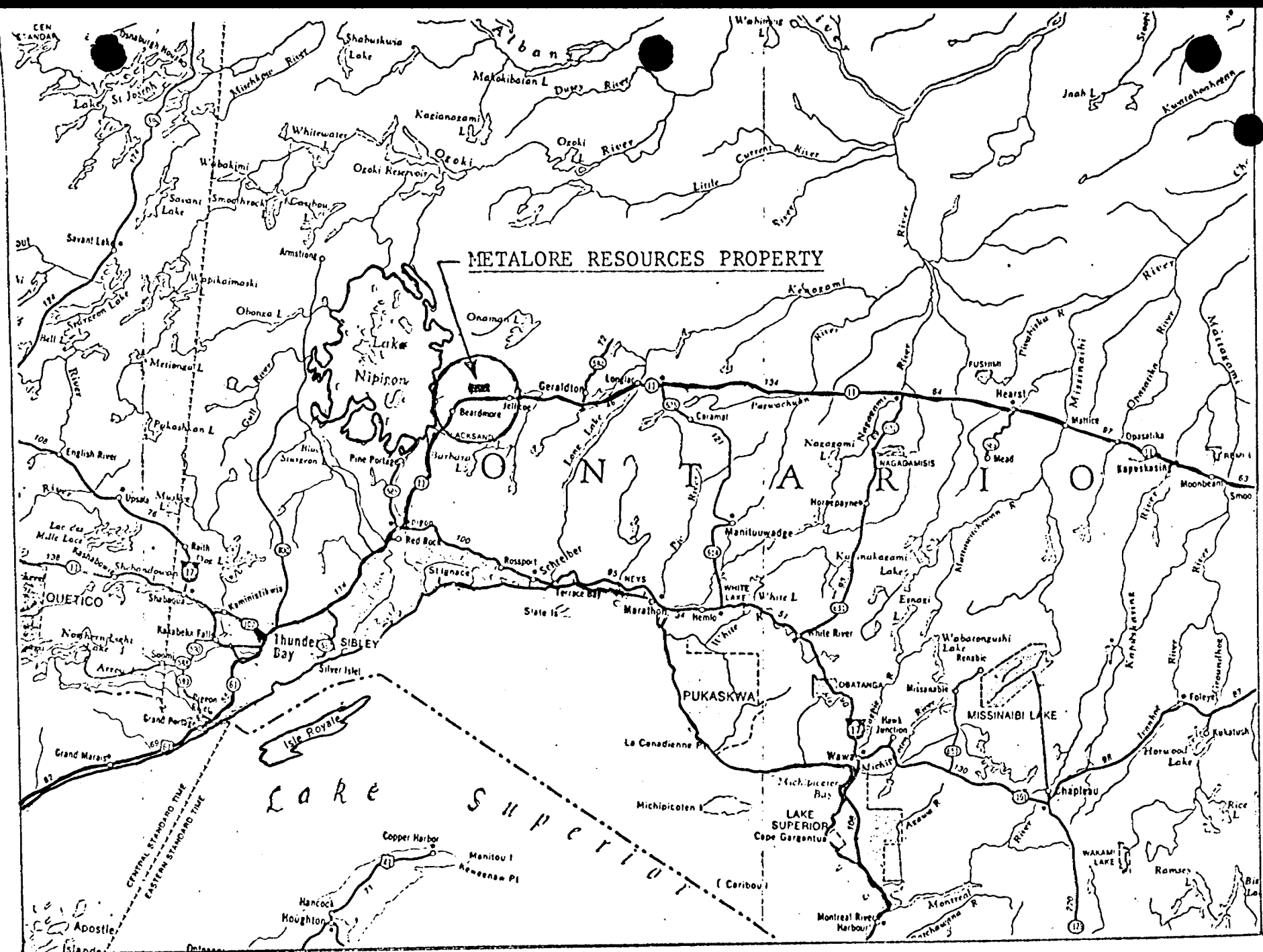
Except for the swampy areas, most of the area is underlain by outcrop covered with a thin layer of moss, roots and in some cases a thin mineral soil.

The ridges are generally forested with spruce, balsam, birch and poplar with cedar and alders common in the wet areas and swamps.

4. GEOLOGY

4.1 REGIONAL GEOLOGY

This area of the Canadian Shield is underlain by



LOCATION MAP FIGURE 2

an east-west trending, metamorphosed, folded and faulted sequence of Archean volcanic and sedimentary rocks. The metavolcanics range from massive and pillowed mafic lavas to intermediate and felsic units which are probably pyroclastics. The metasediments consist of conglomerate, sandstone, argillite and some iron formation.

Felsite dikes and granitoid bodies cut the volcanic pile.

Diabase dikes, probably of Keweenawan age, are present as north trending intrusives.

After an extensive period of erosion the Precambrian units were covered in part by Pleistocene deposits of sand, gravel and clay as well as Recent lake, stream and swamp deposits.

For a more extensive description of the regional geology the reader is referred to Geological Report 122 of the Ontario Division of Mines (Mackasey, 1975).

4.2 PROPERTY GEOLOGY

4.2.1 LITHOLOGY

The main rock types exposed in the Metalore property are metabasalt flows with some pyroclastic units. A tectonic foliation in all rock types has destroyed most primary features and makes a separation of rock units into flows and pyroclastics difficult. The metabasalts are usually fine to very fine grained, grey-green to dark green in colour, chloritized and show a steeply dipping tectonic foliation.

Just south of both Knox and Patter Lakes and also just north of Windigokan Lake there are sections in the metabasalts that show a medium grained to coarse gabbroic texture. No actual intrusive contacts between the metabasalts and this rock type were noted so at

this time it cannot be stated if the gabbro is an intrusive or whether it represents coarser sections of more massive flows.

To the north of Windigokan Lake there are a considerable number of exposures of quartz-sericite-carbonate schist. The rock usually shows a paper-thin, steeply dipping, schistosity. The quartz occurs as quartz eyes, grey to blue in colour and 2-3 mm in diameter. This rock may be a deformed and metamorphosed rhyolite.

Between 700 ft to 1500 feet north of Windigokan Lake there is a broad zone of outcrop and swamp and one small lake underlain by strongly sheared and altered metavolcanics. The mineral composition varies from strongly chloritized metabasalt to quartz-carbonate-sericite schists. It is considered that this region may originally have been a section of pyroclastics which was strongly deformed during later tectonic events.

From this zone of strongly schistose metavolcanics to the south shore of Knox and Patter Lakes the rocks are dominantly mafic metavolcanics.

Along the south shore of Knox and Patter Lake is a contact between mafic metavolcanics to the south and metasediments to the north. The contact is never visible, always being marked by a swampy valley. The rocks on both sides of the valley are always schistose and usually well altered suggesting that this contact may be, at least in part, a fault contact. This contact may have been a zone of weakness along which deformation was localized during folding.

The sediment north of this contact is a polymictic conglomerate composed of pebbles and boulders of granitic to dioritic rock, mafic to intermediate volcanics and less abundant argillite, quartz, jasper and iron formation. The clasts show a high degree of

rounding and usually are closely packed. The matrix is a medium to coarse-grained feldspathic sandstone in places altered to a chlorite schist.

On L20E, south of BL5 and just north of Windigokan Lake (South Sheet), the metavolcanics have been intruded by a medium grained, fresh looking stock of granodiorite. In hand specimen, the rock is light coloured and consists of quartz and approximately equal amounts of K-feldspar and plagioclase.

On the west end of the grid along the south shore of Patter Lake (West Sheet) two north striking dikes of porphyritic diabase are present. These are the 'Greenspar' porphyry as described by Mackasey (1975, p.25) and consist of a medium-grained diabase with variable amounts of saussuritized green feldspar phenocrysts from 1 to 5 cm in diameter.

4.2.2 STRUCTURE

All of the rock types appear to be steeply dipping and to contain an approximately east-west, vertically dipping tectonic foliation. The foliation varies in intensity from a faint but noticeable one through a slaty cleavage to a paper thin schistosity.

No folds were noticed in the area mapped and the metavolcanic units are considered to be a steeply dipping homoclinal sequence, probably with tops to the north (?).

The major structural features of the area are the east-west trending fault and/or shear zones along the major east-west valleys and chains of lakes. It is considered that a major fault underlies Patter and Knox Lakes and also the large east-west, scarp bounded valley approximately mid-way between Knox and Windigokan Lakes. Strong schistosity and a scarp along the north shore of Windigokan Lake also suggest a fault in this

region. The zone of strong schistosity and swamps between 700 ft and 1500 ft north of Windigokan Lake is considered to be another east-west zone of shearing.

Between Knox and Patter Lakes and the large fault (swamp) 1500 feet south of the lakes, much of the foliation and probably some faults trend 050° - 070° . This trend probably represents a secondary set of shears and faults between the two main structures.

4.2.3 ECONOMIC GEOLOGY

Numerous areas of old trenches, dating from work done in the 1930's, are shown in the West, Central and East Sheets along the south shore of Knox and Patter Lakes. A second area of old trenches lies 200 feet north of Windigokan Lakes between lines 30W and 34W. Small amounts of chalcopyrite and some malachite staining were observed here.

During the winter of 1982-1983 an area of old trenches, 300 feet south of Knox Lake between lines 16W and 12W was drilled by Metalore Resources Limited (Lassila, 1983). This trenching and drilling was done to evaluate an area of silicification, quartz veining and pyritization, and low gold values are reported. A similar zone of alteration was noted by the writer on lines 28W and 30W along BL1 and is recommended as an area for stripping, sampling and detailed mapping.

5. GEOPHYSICS

5.1 MAGNETOMETER SURVEY

The magnetometer survey was carried out using a Scintrex Proton MP2 Magnetometer with readings being taken along north-south picket lines at 50 ft. intervals. A base station was established at L26W:BL2 of 59878 nT and a second one for the area north of

Windigokan Lake at L22W:BL4 of 60104 nT.

Baselines 2,3 and 4 were surveyed to establish secondary base stations at the intersection of each picket line and the base line. No untoward magnetic disturbance was experienced during the survey dates and the readings were corrected for diurnal drift by comparison of the secondary base station readings at the beginning and end of each line-loop. The results are plotted and contoured on the four magnetometer survey maps.

5.1.1 RESULTS

The magnetometer survey generally shows flat magnetics with values ranging between 59000 and 60000 nT. South of Knox and Patter Lakes (West and Central Sheets) a zone of elevated magnetics runs approximately parallel to and 200 feet south of ^{the} metavolcanic-metasediment contact. A second zone of elevated magnetism runs parallel to BL2 and from 200-500 feet south of BL2. It is considered that these zones of elevated magnetics represent specific volcanic units, probably magnetite bearing metabasalt flows.

North of Windigokan Lake, zones of elevated magnetics generally parallel the area 200-500 feet north of the lake underlain by metabasalts and gabbro.

The magnetics appear to show specific magnetite rich volcanic units and do not appear to directly indicate economically interesting gold mineralization.

5.2 RADEM VLF-EM SURVEY

The grid was also surveyed with a Crone Radem VLF-EM receiver along the north-south picket lines. The transmitter used was Seattle, Washington, U.S.A. (18.6 KHz) and normal accepted operational procedures were used at all times. Both the dip angle and the horizontal field strength (HFS) were measured at 100 ft. intervals along the picket lines. In some locations

readings were taken at 50 ft. intervals. A base station was established at L26W:BL2 at 100%. The method of establishing secondary base stations for the HFS, and of surveying, was as described for the magnetometer survey. The dip angles are plotted as profiles and the HFS values are plotted and contoured on the accompanying maps.

5.2.1 RESULTS

Conductor A West Sheet L68W-L74W
 200 ft. N. of BL3

This is a weakly conductive zone with low dip angles and maximum of a 50% increase in HFS. It is coincident with the swamp covered, sheared contact between the polymictic metaconglomerate to the north and the metavolcanics to the south.

Conductor B West and Center Sheets
 L74W-L22W
 900 ft. S. of BL2

This conductor is a long linear feature that coincides with a scarp controlled, swamp covered, interpreted fault.

Conductor C South Sheet
 L34W-L26W
 800 ft. N of Windigokan Lake

Conductor C occurs along the north side of a wide zone of shearing and is coincident with a swamp filled valley.

Conductor D South Sheet
 L22W and L4E
 800 ft. N. of Windigokan Lake

This conductor is coincident with a very wet swamp and an interpreted zone of shearing.

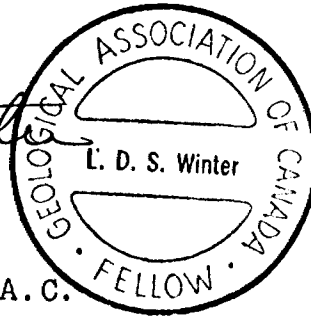
Conductor E South Sheet
 L8E to 20E

Conductor E forms a broad arc, concave to the

south, in an area of limited exposure. The best HFS and dip angles are related to swamp-filled areas underlain by metabasalts and sheared metabasalts.

The VLF-EM conductive zones appear to be related to water-filled shears, particularly in the southern part of the area. Along the south shore of Knox and Patter Lakes there is a build-up both in HFS and dip angle to a conductive zone through Knox and Patter Lake. By comparison with the mapping, the VLF conductive zones do not appear to be related to mineralized zones.

L.D.S. Winter



L.D.S. Winter
B.A.Sc., M.Sc., F.G.A.C.
August 18, 1983

REFERENCES

Lassila, P. 1983: Geological, Geophysical and diamond Drilling Program, Irwin Township, Ontario. Metalore Resources Limited, October 1982 to March 1983 (unpublished report)

Mackasey, W.O. 1975: Geology of Dorothea, Sandra and Irwin Townships, Ontario Division of Mines, Geological Report 122, 83 p.

CERTIFICATE OF QUALIFICATION

I, Lionel Donald Stewart Winter do hereby certify:

1. that I am a geologist and reside at 1849 Oriole Drive, Sudbury, Ontario,
2. that I am a Fellow of the Geological Association of Canada,
3. that I graduated from the University of Toronto in Mining Engineering in 1957 with a Bachelor of Applied Science and from McGill University Montreal in 1961 with a Master of Science(Applied) in Geology,
4. that I have practised my profession continuously for 25 years,
5. that my report, Geological and Geophysical Program for Metalore Resources Limited, Irwin Township, Ontario, July 1983, is based on field work carried out and/or supervised by me and on published and unpublished reports on the property

L.D.S. Winter,
B.A.Sc., M.Sc., F.G.A.C.
August 18, 1983.

LDS Winter



APPENDIX 1

Personnel Names, Addresses and Man Days

<u>Name</u>	<u>Address</u>	<u>Man Days</u>	<u>Period</u>
<u>Geophysics</u>			
T. J. Semadeni	P.O.Box 625 Dowling, Ontario POM 1R0	8	July 21 - 28
Jon Chilian	P.O. Box 422 Simcoe, Ontario' N3Y 4L5	8	July 21 - 28
<u>Geology</u>			
L.D.S.Winter	1849 Oriole Dr. Sudbury, Ontario P3E 2W5	8	July 21 - 28
<u>Reports and Maps</u>			
T.J. Semadeni	P.O. Box 625 Dowling, Ontario POM 1R0	5	July 29 -Aug 4
L.D.S.Winter	1849 Oriole Dr. Sudbury, Ontario P3E 2W5	9	July 29 - Aug 18

PROGRAM STATISTICS

VLF - EM SURVEY

8.6 line-miles surveyed
530 station readings of both horizontal field
strength and dip angle

MAGNETOMETER SURVEY

8.6 line-miles surveyed
944 station readings

GEOLOGICAL MAPPING

10.6 line-miles surveyed

CLAIMS SURVEYED

VLF-EM Survey

602173 - 25%	602179 - 100%
602174 - 50%	602180 - 30%
602175 - 60%	602184 - 65%
602176 - 80%	602185 - 90%
602177 - 100%	602186 - 50%
602178 - 100%	658054 - 90%

Magnetometer Survey

602173 - 25%	602179 - 100%
602174 - 50%	602180 - 30%
602175 - 60%	602184 - 65%
602176 - 80%	602185 - 90%
602177 - 100%	602186 - 50%
602178 - 100%	658054 - 90%

Geology

602173 - 25%	602179 - 100%
602174 - 50%	602180 - 30%
602175 - 60%	602184 - 65%
602176 - 80%	602185 - 90%
602177 - 100%	602186 - 50%
602178 - 100%	658054 - 90%
614090 - 50%	614092 - 30%
614091 - 60%	614093 - 40%



42E12NW0080 63.4852 SANDRA

030

METALORE RESOURCES LTD.

SUMMARY REPORT OF THE
1984-1985
DIAMOND DRILLING PROGRAM
ON THE
BROOKBANK GOLD PROPERTY
IRWIN TOWNSHIP, ONTARIO

Vol. 1

MARCH 1985

Barbara Kowalski
Project Geologist

OM 84-4-C-184

BK



42E12NW0080 63.4852 SANDRA

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Diamond Drill Hole Plan
Line 0 to 36W
- PLATE 2 Brookbank 'East' Grid
Diamond Drill Hole Plan
Line 0 to 42E

SUMMARY

From July, 1984 to November, 1984, a diamond drill program was undertaken by Metalore Resources Ltd. on a gold prospect in Irwin Township, Northwestern Ontario. The objectives of this program were the following:

1. To continue evaluating at the 200 and 800 foot levels, the extent and potential of the Brookbank gold-bearing structure, now known as the 'Brookbank Contact Zone' (initially drilled by Noranda in 1944).

2. To test continuity of the zone below the 1000 foot level.

Seven diamond drill holes were completed on the Brookbank Contact Zone for a total footage of 9,129 feet. Vertical sections of all holes drilled on the Brookbank Contact Zone are in Volume 2.

RECOMMENDATIONS

1. The extent of the mineralization should be outlined, along the east-west metaconglomerate-volcanic contact (Brookbank Contact Zone) below the 1000 foot level at 200 foot spacings.
2. If results warrant, further limited drilling should be pursued, at -75 below 1,500 foot level.
3. Detailed prospecting should be completed over the entire Metalore Resources property in search for similar contact zones (such as the Brookbank, where a mafic or felsic volcanic unit is narrow, deformed and altered with intrusives and metasediments in close proximity).
4. Gold values thus far, are always associated on the flank of a magnetic halo (which intensifies with the presence of a diorite). Therefore, particular emphasis should be paid along the margins in areas of higher magnetic intensity.

INTRODUCTION

The purpose of this report is to briefly summarize the geology and diamond drilling program during July to November of 1984, undertaken on the Brookbank property located in Irwin Township. The Metalore Resources property near Beardmore, Ontario is accessible by a good gravel road north from Provincial Highway 11. The Brookbank Contact Zone is accessible by bush road traversing southwest to westerly extent of the Brookbank grid.

PREVIOUS WORK

Considerable prospecting, trenching and drilling has been conducted by previous operators on the east-west strike of a metasedimentary-volcanic fault contact as follows:

1. In 1934, Connell Mining and Exploration Co. Ltd. trenched and drilled a few short holes just east of Knox Lake.
2. In 1944, Noranda trenched and drilled 40 holes along the easterly extension of the Connell workings. Overall, erratic gold values were obtained and are summarized in the OGS Report 122 (p.51).
3. In 1974, the property was optioned from Brookbank Sturgeon River Mines Ltd., by Lynx Canada Exploration Ltd.. Surface mapping and a magnetometer survey were carried out on the eastward extension of the Noranda workings. A series of short diamond drill holes were completed on a thin siliceous zone 1,200 feet east of the main Noranda workings along the metasediment-metavolcanic rock contact. Some good gold values were obtained in

initial short hole drilling but were not substantiated in follow-up deeper drilling. (Skrecky 1982).

4. In 1981, Metalore Resources Ltd. optioned the property from Brookbank Sturgeon River Mines Ltd., and purchased the property outright in 1982.

GENERAL GEOLOGY

The Brookbank Contact Zone lies along the contact between a polymictic metaconglomerate unit to the north and a mafic volcanic unit to the south separated by a topographic low. The trough is interpreted as a dextral fault, from diamond drill hole and thin section data. The mafic volcanic consists of massive and pillowed flow units (including vesicular pillow selvages) with tops to the north. The volcanic unit near the contact is altered in sequence to the metasediments with hematite and potassium and variably carbonated and silicified with pods of disseminated pyrite. The volcanic is intruded by a coarse- to fine- grained diorite with disseminated and 1/8" veinlets of fine-grained pyrite and specularite. The volcanics were overlain by a polymictic metaconglomerate. The entire unit was subsequently displaced whereby, the polymictic metaconglomerate now lies subvertically to the north with the volcanics to the south. The metasediments interpreted by the author as a debris flow (a disorganized bed, where there is no grading, no stratification and no imbrication of granitic, feldspathic, quartz, mafic and jasper cobbles). These cobbles range in size from one to six inches and are confined to a four to six foot basal section. The matrix is generally well foliated where mafic clasts are subangular to angular and have been subsequently flattened due to deformation. Volcanic material, fine- to coarse- grained is found throughout the matrix. The metaconglomerate unit is

overlain by an altered (sericitic), pebbly sandstone with conglomerate debris throughout, which in turn, is overlain by a greywacke interbedded with shaly or mudstone units (which is interpreted as a turbidite).

Genetically, the diorite intruded the volcanics (and the contact between the volcanics and sediments in some places) and caused incipient faulting and/or shearing along the contact. Later hydrothermal activity altered the volcanic-sedimentary units and precipitated and/or remobilized gold from another source.

PRESENT WORK

The drilling program conducted in the 1984 season on the Brookbank Contact Zone consisted of two shallow holes (200-400 feet) and five holes below 1000 feet.

Three tiers of holes have been drilled on the Brookbank Contact Zone. The first 200-500 foot long series drilled at -45° covered from L14+95E to L30W, and most of the holes are summarized in the 1982 summary report by Skrecky. The second 800 foot long series drilled at -65° covered L6W to L28W. These holes are summarized in the 1984 report by Kowalski. The third below 1000 foot long series drilled at -70° and -75° covered L10W to L21W. These holes indicated an intensely deformed and altered contact zone between the mafic volcanics to the south and a polymictic metaconglomerate unit to the north. The deformation and alteration become more pronounced to the west as does the silicified zone next to the metaconglomerate. The structural information obtained indicate an overall dip of the zone of -75° to the south and steep plunge to the west. Further, the diamond drilling program results indicated that the zone pinches to the east.

CONCLUSIONS

An overview of the work done on the Brookbank Contact Zone since 1934 to present suggests that gold occurs in lense-like bodies in shallow holes and at the 800 foot level. Below the 1000 foot level the deformation, alteration and mineralization become more pervasive dipping -75° to the south, plunging steeply to the west and pinching to the east. Concentration of developing the east-west extent of the mineralization is currently underway.

REFERENCES

Mackasey, W.O. 1975. Geology of Dorthea, Sandra, and Irwin Townships, District of Thunder Bay. Ontario Div. Mines, GR122, 83p.

Skrecky, G. 1982. Summary Report on the Brookbank Gold Property, Iriwn Township, Ontario. 24p.

Kowalski, B. 1984. Summary Report of the 1983-1984 Diamond Drilling Program on the Brookbank Golg Property Irwin Township, Ontario. 10p.

METALORE RESOURCES LTD.

VERTICAL DIAMOND DRILL HOLE SECTIONS
ON THE
BROOKBANK GOLD PROPERTY
IRWIN TOWNSHIP, ONTARIO

Vol. 2

MARCH 1985

Barbara Kowalski
Project Geologist

BK

LIST OF PLATES

<u>PLATE No.</u>	<u>Line</u>	<u>Hole No.</u>
1	Base	B-30
2	2W	M-18
	4W	M-16,N-1
3	6W	B-29,M-17,M-25,N-36
4	8W	B-28,M-19,M-24,N-4
5	10W	B-40,M-15,M-23,M-26 N-6
6	12W	B-36,M-20,M-27,N-7
7	14W	N-25,M-22,B-18,B-19 B-27
8	15W	B-31,B-32
8A	15W	B-33,B-16,B-15
9	16W	B-26,M-21
10	17W	B-14
11	18W	B-12,M-1
12 & 12A	19W	B-13,19-2
13	20W	M-28,M-29
14,14A,14B,14C	21W	B-10,B-11,21-3
15	22W	M-30,B-9
16	23W	B-5,B-20
17	24W	B-21
18	25W	B-6
19	26W	B-7
20	28W	B-4,B-22
21	30W	B-8
22	33W	B-2,B-3
23	34W	B-1
24	36W	M-2
ADD: 25	13W	13+43-1,13+70-1

63.4852
(4)



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METALORE RESOURCES LTD.

Summary Report of the
1983-1984
Diamond Drilling Program
on the
Brookbank Gold Property
Irwin Township, Ontario

March 1984

Barbara Kowalski
Project Geologist

OM82-4-C-184

Barbara Kowalski
Mar '84.

Summary

From September 1983 to March 1984, a diamond drill program was undertaken by Metalore Resources Ltd. on a gold prospect in Irwin Township, Northwestern Ontario. The objectives of this program were the following:

1. To continue evaluating the extent and potential of the Brookbank gold-bearing structure, now known as the 'Brookbank Contact Zone' (initially drilled by Noranda in 1944) at the 200 and 800 foot levels.

2. To test continuity of the zone below the 1000 foot level.

3. To determine the potential of several separate quartz-carbonate vein systems in mafic rock at the following locations:

- A. Near the east end of Knox Lake (B-23 to B-25).

- B. Approximately 1,500 south on the west portion of the Brookbank grid (X-1 to X-14).

- C. Approximately 1,500 south on the east portion of the Brookbank grid, now known as the 'Beaverdam Zone' (X-15 to X-19).

Fifty-five (55) diamond drill holes were completed, 33 on the Brookbank Contact Zone, and 22 on the quartz-carbonate veins, for a total footage of 18,623 feet. Drill hole results from the 800 foot level are summarized in Table 1.

TABLE 1: DDH Intersection of the Polymictic Metaconglomerate-Volcanic Contact Zone (Brookbank)

<u>Line</u>	<u>Hole No.</u>	<u>Grade (oz./ton)</u>	<u>DDH Widths (Feet)</u>	
			<u>Actual</u>	<u>True</u>
10W	M-26	0.12	9.8	7.5
12W	M-27	0.10	14.0	9.0
14W	B-27	0.20	9.0	7.5
16W	B-26	0.18	22.7	13.5
20W	M-28	0.13	15.4	10.0
22W	M-30	0.10	5.0	3.0
24W	B-21	0.10	3.3	1.5
28W	B-22	0.10	5.0	3.0

Note: M-Series of DDH were drilled in 1981, B-Series drilled in 1983-1984. DDH widths and grades are averaged.

TABLE 2: DDH Intersection of the Quartz-Carbonate Veins A,B,C (Locations A,B,C, Indicated in Summary)

<u>Line</u>	<u>Hole No.</u>	<u>Grade (oz./ton)</u>	<u>True Widths (Feet)</u>
34W (A)	B-23	0.16	3.0
34W (A)	B-23	0.12	1.0
14W (B)	X-7	0.23	1.2
14W (B)	X-8	0.14	1.3
12E (C)	X-16	0.24	3.10"

Recommendations

1. The extent of the mineralization should be outlined, along the east-west metaconglomerate-volcanic contact (Brookbank Contact Zone) below the 1000 foot level at 200 foot spacings.

2. If results warrant, further limited drilling should be pursued, at -75° below 1,500 foot level.

3. Detailed prospecting should be completed over the entire Metalore Resources property in search for similar contact zones (such as the Brookbank, where a mafic or felsic volcanic unit is narrow, deformed and altered with intrusives and metasediments in close proximity).

4. Gold values thus far, are always associated on the flank of a magnetic halo (which intensifies with the presence of a diorite). Therefore, particular emphasis should be paid along the margins in areas of higher magnetic intensity.

Introduction

The purpose of this report is to briefly summarize the geology and diamond drilling program during the fall-winter of 1983-84, undertaken on the Brookbank property located in Irwin Township. The Metalore Resources property near Beardmore, Ontario is accessible by a good gravel road north from Provincial Highway 11. The Brookbank Contact Zone is accessible by bush road traversing southwest to westerly extent of the Brookbank grid.

Previous Work

Considerable prospecting, trenching and drilling has been conducted by previous operators on the east-west strike of a metasedimentary-volcanic fault contact as follows:

1. In 1934, Connell Mining and Exploration Co. Ltd. trenched and drilled a few short holes just east of Knox Lake.
2. In 1944, Noranda trenched and drilled 40 holes along the easterly extension of the Connell workings. Overall, erratic gold values were obtained and are summarized in the OGS Report 122 (p.51).

3. In 1974, the property was optioned from Brookbank Sturgeon River Mines Ltd., by Lynx Canada Exploration Ltd.. Surface mapping and a magnetometer survey were carried out on the eastward extension of the Noranda workings. A series of short diamond drill holes were completed on a thin siliceous zone 1,200 feet east of the main Noranda workings along the metasediment-metavolcanic rock contact. Some good gold values were obtained in initial short hole drilling but were not substantiated in follow-up deeper drilling. (Skrecky 1982).

4. In 1981, Metalore Resources Ltd. optioned the property from Brookbank Sturgeon River Mines Ltd..

General Geology

The Brookbank Contact Zone lies along the contact between a polymictic metaconglomeratic unit to the north and a mafic volcanic unit to the south separated by a topographic low. The trough is interpreted as a dextral fault, from diamond drill hole and thin section data. The mafic volcanic consists of massive and pillowed flow units (including vesicular pillow selvages) with tops to the north. The volcanic unit near the contact is altered in sequence to the metasediments with hematite and potassium and variably carbonated and

silicified with pods of disseminated pyrite. The volcanic is intruded by a coarse- to fine- grained diorite with disseminated and 1/8" veinlets of fine-grained pyrite and specularite. The volcanics were overlain by a polymictic metaconglomerate. The entire unit was subsequently displaced whereby, the polymictic metaconglomerate now lies subvertically to the north with the volcanics to the south. The metasediments are interpreted by the author as a debris flow (a disorganized bed, where there is no grading, no stratification and no imbrication of granitic, feldspathic, quartz, mafic and jasper cobbles). These cobbles range in size from one to six inches and are confined to a four to six foot basal section. The matrix is generally well foliated where mafic clasts are subangular to angular and have been subsequently flattened due to deformation. Volcanic material, fine- to coarse- grained is found throughout the matrix. The metaconglomeratic unit is overlain by an altered (sericitic), pebbly sandstone with conglomerate debris throughout, which in turn, is overlain by a greywacke interbedded with shaly or mudstone units (which is interpreted as a turbidite).

Genetically, the diorite intruded the volcanics (and the contact between the volcanics and sediments

in some places) and caused incipient faulting and/or shearing along the contact. Later hydrothermal activity altered the volcanic-sedimentary units and precipitated and/or remobilized gold from another source.

Present Work

The drilling program conducted in the 1983-1984 season on the Brookbank Contact Zone consisted of a few shallow holes, several 800 foot holes and two holes below 1000 feet and also tested several outlying quartz-carbonate vein systems within the Brookbank grid.

Three tiers of holes have been drilled on the Brookbank Contact Zone. The first 200-500 foot long series drilled at -45° covered from L4E to L30W, and most of these holes are summarized in the 1982 summary report by Skrecky. The second 800 foot long series drilled at -65° covered L6W to L28W. These holes indicated an intensely deformed and altered contact zone between the mafic volcanics to the south and a polymictic metaconglomerate unit to the north. The deformation and alteration become more pronounced to the west as does the silicified zone next to the metaconglomerate. The mineralization, however, is disrupted from L28W westward by a northwest-southeast trending fault that

wedges a metaconglomerate schistose unit and obliterates the mafic volcanics. The movement of this fault has not yet been established by the author. The contact continues from L30W westward and should be further investigated. Gold values from diamond drill holes are summarized in Table 1. These 800 foot holes indicate an overall dip of the zone of -75° to the south and a possible plunge to the west. Grade-tonnage, and confirmation of structural information may be determined by a deeper tier (below 1000') proposed. The structure and mineralization becomes more pronounced and continuous where deformation and alteration are more pervasive.

Gold values of all quartz-carbonate veins are summarized in Table 2.

Conclusions

An overview of the work done on the Brookbank Contact Zone since 1934 to present suggests that gold occurs in lense-like bodies in shallow holes and at the 800 foot level. It is the widening of the mafic unit to the east and the abrupt disruption of gold values due to a fault to the west, that has subsequently affected the continuity of the mineralization. It is postulated that the mineralization pinches to the east

and plunges to the west with a dip of -75° to the south. Below the 1000 foot level the deformation, alteration and mineralization become more pervasive and confirmation of the structural information may be ascertained accordingly. Concentration of developing the east-west extent of the mineralization is currently underway.

Recommendations for future work are outlined at the front of this report.

REFERENCES

Mackasey, W.O. 1975. Geology of Dorthea, Sandra, and
Irwin Townships, District of Thunder Bay. Ontario
Div. Mines, GR122, 83p.

Skrecky, G. 1982. Summary Report on the Brookbank Gold
Property, Irwin Township, Ontario. 24p.

Barbara Kowalski
17 Mar '84.
P. Geologist.

DIAMOND DRILL RECORD

DEP 34400W

LAT. 00° 35' 07.355

DIP 40° N 07355

AZ 342° - 31° 04.527

NAME OF PROPERTY METALORE RESOURCES (Irwin Twp)

HOLE NO. 83-B1 (BQ core)

SHEET NO. L OF 7

TEST 532' = 35'

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM TO TOTAL	%	%	OZ TON	OZ TON
0.0	6.0	CASING <i>above stream - Swamp at 17 1/2 W</i>							
6.0	28.0	MASSIVE DACITE WITH MINOR QTZ VENELETS AND HEMATITE. L 29% Py throughout AND CORE IS BADLY BROKEN ALSO THERE IS VERY MINOR EPIDOTE	8702		28.0 30.0 30.0 2.0			NIL	
28.0	30.0	AN ALTERED DACITE WITH HEMATITE AS FRACTURE FILLINGS. SILICIOUS WITH 39% Py.							
30.0	36.6	DARK GREEN-GREY MASSIVE VOLCANIC. HEMATITE AS VENELETS ARE MINOR WITH 29% Py. EPIDOTE AS MINOR phenocrysts in the groundmass.							
36.6	42.6	DARK SILICIOUS VOLCANICS WITH AN INCREASE IN HEMATITE TAKING ON A RUSTY APPEARANCE. SULFIDES APP 5%	8703 8704		36.6 42.6 6.0 42.6 44.0 1.4			NIL NIL	
42.6	44.0	DACITE WITH A LARGE NUMBER OF PINKISH QTZ AND HEMATITE VENELETS.							

Total Length: 567 ft. Logged by: D. Oliver Sept 5/83
Elevation: 52 ft. DESCRIPTION on claim #

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. 83-B1 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON
					FROM	TO				
44.0	50.7	DARK SILICIOUS GREY VOLCANICS SEVERAL QTZ & HEMATITE VIEWS WITH PYRITE AS A FRACTURE FILLER.								
50.7	55.0	SAME AS ABOVE BUT 0.5" MASSIVE PY VLEN AT 51.5.	8705		50.7	55.0	4.3			NIL
			8706		55.0	60.2	5.2			NIL
55.0	60.2	SAME AS 44.0-50.7 BUT MORE ALTERED WITH HEMATITE BANDS								
60.2	78.6	DARK GREEN-GREY VOLCANIC WITH EPIDOTE SWIRLS AND MINOR HEMATITE BANDS. SULFIDES LESS THAN 2%. LESS ALTERATION.								
78.6	84.5	ALTERED VOLCANICS WITH UP TO 40% Py IN SMALL LENGTHS HEMATITE ALTERATION IS PRESENT AND ROCK IS FAIRLY SERECITIC.	8707		78.6	84.5	5.9			NIL
84.5	86.2	DARK GREY VOLCANICS WITH NO ALTERATION VERY APHANITIC GROUNDMASS WITH MINOR QTZ VLENETS. NON-MAGNETIC.								
86.2	89.7	HIGHLY ALTERED VOLCANICS WITH MASSIVE Py IN SMALL AMOUNTS ALTERED HEMATITE AND QTZ NON MAGNETIC	8708		86.2	89.7	3.5			0.01

lost 6 in. pc of core with 1st silic zone

1st silic zone →

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. 83-B1

SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	OZ. T	OZ. TON	OZ. TON
					FROM	TO	TOTAL				
103.3	105.0	DARK VOLCANIC (DACITE) WITH NO ALTERATION						Ag			
105.	108 113.7	ALTERED WITH 10% Py, DISS HEMATITE AND AS FRACTURE FILLINGS. VERY SILICIOUS (112.7-113.7) 30% Py.	8714		105.0	110.0	5.0			NIL	
			8715		110.0	112.7	2.7			0.002	
113.7 113.7	122.7	DARK GREEN-GREY MASSIVE DACITE. DISS EPIDOTE WITH MINOR PYRITE	8716		112.7	113.7	1.0			NIL	
			8717		122.7	123.5	0.8 0.08			NIL	
122.7	123.5	ALTERATION ZONE WITH MASSIVE PY NON-SILICIOUS, 	8718		125.0	127.0	2.0	0.46	0.07	0.09	0.90 *
			8719		127.0	130.2	3.2			0.002	
123.5	125	GREENISH-GREY DACITE WITH MINOR HEMATITE 43% Py.									
125.0	127.0	HIGHLY SILICIOUS VOLCANIC WITH MASSIVE QTZ, MINOR HEMATITE AND 10% Py.									
127.0	130.2	SAME AS ABOVE BUT LESS QTZ.									
130.2	136.0	DACITE WITH MINOR SILICA VESICLES.									
136.0	136.9	SERECITIC DACITE WITH ALTERED HEMATITE	8720		136.0	136.9	0.9			0.002	
136.9	144.0	SILICIOUS DACITE, MINOR EPIDOTE SWIRLS AND QTZ VENS.									

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. 83-B1

SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
144.0	144.0 163.0	SAME AS BEFORE BUT MORE SERECITIC FROM 156.7 - 159 AND HEMATITE ALTERATION AT 159. BASICALLY A MAFIC ROCK LOW MAGNETICS.	8721		144.0	146.4	2.4			NIL	
			8722		151.8	153.5	1.87			NIL	
			8723		156.7	157.0	0.3			NIL	
			8724		159.0	159.7	0.7			NIL	
	180.5									NIL	
163.0	163.0 180.5	Dark grey volcanic rock ^{veins} qtz and pink siliceous material 10% Py in various lengths. Few hematite blebs in ground mass.	8725		163.0	169.0	6.0			NIL	
			8726		169.0	170.3	1.3			0.002	
			8727		178.0	179.0	1.0			NIL	
			8728		187.7	190.5	2.8			NIL	
			8729		222.0	223.0	1.0			NIL	
180.5	187.7	GREEN-GREY VOLCANICS with minor qtz veins L 1% Py.									
187.7	190.5	50% qtz + siliceous material in green grey groundmass Low magnetism.									
190.5	237.0	GREEN-GREY VOLCANICS. MINOR qtz + hematite veins. @ 1% Py.									
237.0	237.0 292.0	SAME AS ABOVE BUT 4" qtz vein at 247.1. 252-252.6 increase of 30% Py + some specular noted. 270.7-271.7 is more siliceous with 20% Py.	8730		237.0	238.4	1.4			NIL	
			8731		247.7	248.1	0.4			NIL	
			8732		252.0	252.6	0.6			0.002	
			8733		255.8	256.8	1.0			NIL	
			8734		270.7	271.7	1.0			NIL	
292.0	330	GREEN-GREY VOLCANICS becoming more fractured 1% Py with minor qtz veins. → along qtz + hematite seams Low magnetism	8735		278.3	279.8	1.5			NIL	
			8736		285.0	286.0	1.0			NIL	
			8737		295.5	300.5	5.0			NIL	

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ SHEET NO. 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
330	367.	GREEN-GREY volcanics not as badly fractured. L1% Py 40% qtz at 332-332.8 siliceous with qtz veinlets and some hematite. 351-352- 8 40% qtz with black siliceous material intermixed.	8738		300.5	306.5	6.0			0.002	
			8739		332.0	332.8	0.8			NIL	
			8740		351.0	352.0	1.0			NIL	
			8741		367.0	372.0	5.0			0.002	
367	369	Transition zone - volcanics more altered and tending to a flow.									
3690	390	Sediments - fractured, brecciated siliceous pinkish grey ^{bluish} tuffaceous rock. pebbles noted in few spots. Much broken core. 2' LC at 377-379. 3% Py	8742		372.0	377.0	5.0			0.002	
			8743		401.3	401.6	0.3			NIL	
			8744		407.0	409.0	2.0			0.002	
			8745		422.0	427.0	5.0			0.002	
			8746		453.0	457.5	4.5			NIL	
			8747		470.0	474.5	4.5			NIL	
390	447.	GREENISH ROCK with poor foliation with a granitic texture in some spots. More silicification at 402' could be a gneiss. Epidote veinlets noted at 55° CA. Jasper blob at 444'.									

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ SHEET NO. 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ. TON	OZ. TON	
					FROM	TO	TOTAL					
447	517.	More mafic rock. Greenish grey with minor qtz. veins. few granitic blebs noted and minor hematite. medium magnetic. Transition zone (graywacke?) graywacke mixed with other sediments. stretched well foliated. Possible a schist or gneiss. Dark siliceous rock.	8748		491.7	494.8	3.1			Nil		
			8749		504.5	507.0	2.45			0.002		
			8750		513.0	517.0	4.0			0.002		
517	517. 520			8751		524.0	528.2	4.2			Nil	
				8752		553.9	554.5	0.6			0.01	
520	558			8753		542.2	543.5	1.5			0.002	
517	517		8754		557.0	562.0	5.0			0.002		
			8755		562.0	567.0	5.0			Nil		
558	567.		8756		WASTE					0.002		
567		EOH										

DIAMOND DRILL RECORD

LAT 0139N = 34° at 397'
 DEP - 33+00W
 AZ - 342°

NAME OF PROPERTY Wood Lake (on claim #)

HOLE NO. 83-B2 (B & Corp) SHEET NO. 1 TEST 397 = 60 -41°

Elevation: 35 ft. above Swamp ~~8150N~~

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE	%	%	OZ TON	OZ TON	
				FROM	TO	TOTAL				
		Total length: 409 ft. Logged by: D. Oliver Sept 6/83 Colored Sept 3/85 Completed Sept 5/83								
0.0	10.0	CASING								
10.0	25.0	very fine grained greenish-grey volcanic rock. minor epidote and hematite veins with <1% py. very minor qtz veins.								
25.0	50.0	Same as above but more qtz and epidote veins. Some calcite veining. <1% py	8757	42.5	43.8	1.3			NIL	
50.0	69.0	same rock (darker) but becoming more silicious with more qtz veining and blebs appearing. minor pyrite associated with thin wispy hematite veins.								
69.0	88.0	very fine groundmass with qtz veining and minor calcite. Some hematite of a minor occurrence is associated with some qtz veins. Magnetism very from a low to medium range.								
88.0	106.0	Still a fine grained groundmass (greenish-grey) with carbonate and qtz veins. Py is associated with qtz veins. 5% Py intermixed with hematite + qtz @ 96.0. low to medium magnetism.	8758	91.0	96.0	5.0			NIL	
			8759	96.0	96.8	2.8			NIL	
			8760	96.8	99.9	2.1			NIL	

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. 83-B2

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	Au		
					FROM	TO			TOTAL	oz ton	oz ton
106.0	127.0	Volcanics with a green-grey ground mass Becomes more fractured and brecciated at 1120'. More silicious and calcite seaming. Slight faulting action at 117.0'. Rematite stringer intermixed with qtz. 2190 Py.	8461		106.0	107.7	1.7			NIL	
127.0	147.0	<u>CONTACT</u> abrupt change to sediments. 127-130 is more of a pebble conglomerate with distinct pebbles visible in the matrix. Pebbles range from micro size to 1/2" and range in color from yellow-dark green. Minor rematite veins in this section. 130-147 are a more uniform metasediments indicating extensive folding action. A 1/2" blob of jasper is noted at 136.8. Sediments show contorted laminations and range in color from white, yellow, green-brown. No sulphides noted.	8445		127.0	132.0	3.0			0.002	
			8446		130.0	134.0	4.0			0.002	
147.	164.0	Metasediments. Same as above with contorted laminations.									

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. 83-B2 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON
					FROM	TO				
164.0	186.0	Sediments have lost contorting appearance and is more uniform now with very fine laminations. Color is yellow-dark green. Sulphides are not noted. Hardness is 4.5-5.5.								
186.0	207.0	Sediments with minor contorting and alteration at 187'. Jasper blub at 201'. Green laminations are slightly larger than the rest. Otherwise, fairly uniform in texture.								
207.0	226.0	Sediments taking on a more gneissic-schist appearance. Large carbonate ^{vein} seam at 207.6. App. 2 1/2".								
226.0	246.0	Gneissic look becoming more of a polymictic conglomerate. Granitic texture cobbles up to 2 3/4" appearing now. Qtz veins 70° CA are limited and the overall hue is more of a green color. No magnetites. Very minor jasper blubs in the matrix.								
246.0	265.0	Same as above with reddish ^(granitic) tinted cobbles.								

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. 83-132 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
265.0	284.0	Mud sediments now taking on a bluish-grey ^{green} appearance. Granitic texture cobbles are more plentiful and up to 4 1/2" in size. Very fine carbonate veining of up to 1/8". No sulphides noted. Hardness is approx 5.									
284.0	302.0	Greenish tinted sediments with more visible uniform laminating. Minor cobbles noted. Slightly more gty and carbonate veining. One paper blob at 285'.									
302.0	318.0	Sediment lamination more distinct. Minor cobbles and similar to above.									
318.0	340.0	Same as above. Fine lamination. Two cobbles noted. Minor carbonate veins. Greenish grey tinted groundmass with some large green blebs.	8762		327.0	330.4	3.4			0.005	
340.0	359.0	Sediments starting to take on an altered contorted appearance. More carbonates than above. Minor paper and no cobbles. No sulphides.									

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. 83-B2

SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
359.0	378.0	Greenish sediments with one large $4\frac{1}{2}$ " granitic texture cobble. Laminating is still contorted with minor qtz veins. Few Jasper blebs.									
378.0	397.0	Green tinted sediments have lost almost all laminated appearance. More now of a green groundmass with darker green blebs and more cobbles now, up to 3". Jasper bleb of $\frac{1}{2}$ " at 382'. 387.8-390.3 contains a qtz and carbonate vein. Carbonate is reddish white. No sulphides. Hardness $5-5\frac{1}{2}$.	8763		387.8	390.9	3.1			0.002	
397.0	407.0	Sediments losing all appearance of lamination. Greenish blebs with a few cobbles up to $2\frac{1}{2}$ " in size. One minor qtz vein of $\frac{1}{4}$ ".									
407.0	409.	Rock starting to take on a volcanic appearance. Dark groundmass, but sediment blebs still visible. Possibly a transition zone. No mineralization and a hardness of $5\frac{1}{2}-6$.	8764		407.0	409.0	2.0			0.002	
409.0		EOH.	8765		Scrap					0.002	

DIAMOND DRILL RECORD

Metals Resources Ltd., Irwin Twp

LAT 04525
 DIP -40° @ 118' - 380
 DEP - 33+00W
 AZ - 342°

NAME OF PROPERTY LAKEUR BANK

HOLE NO. 83-B3 (BQ core) SHEET NO. 1 OF 2

FOOTAGE		Total Length: 118 ft. Elevation: 47 ft above at 1+50N	Logged By: P. Oliver Sept 183 DESCRIPTION On Claim #	SAMPLE			ASSAYS					
FROM	TO			NO.	% SULPH IDES	FOOTAGE		%	%	OZ TON	OZ TON	
						FROM	TO	TOTAL				
0.0	10.0		CASING									
10.0	25.0		VERY Fine grained greenish-grey mafic (DACITE) minor epidote and hematite as fracture filler. P _g < 190. 65% broken core very low to no magnetics.									
25.0	47.0		Same as above but epidote is more impregnated in the rock.									
47.0	53.0		Rock becomes more fractured with gtz and hematite as filler 3% P _g .	8766		47.8	53.0	5.4			NIL	
53.0	63.0		Volcanics becoming more siliceous 57.0-58.3 contains 70% gtz + calcite possibly galena? Still greenish-grey with minor hematite.	8767		53.0	57.0	4.0			NIL	
				8768		57.0	58.3	1.3			0.02	
				8769		58.3	63.0	4.9			0.002	
63.0	73.0		fractured grey rock with hematite, gtz. as filler. 65'-67' 15-20% P _g sericite. Extremely weathered looking.	8770		63.0	67.5	4.5			NIL	
				8771		67.5	73.0	5.7			NIL	
73.0	85.0		73.0'-73.5' ore rich gtz band with hematite along sides. Pyrite cubes visible. In general a green tinted volcanic due to impregnation of epidote. Minor seams of hematite at 50°C.P. < 190 P _g . low to medium magnetics.	8772		73.0	73.5	0.5			0.005	

1st site zone →

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY Brookbank
 HOLE NO. B2-23 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ/TON	OZ TON	
					FROM	TO	TOTAL					
850	920	SAME as above. Minor hematite blebs and impregnated with epidote. very dense grey rock. minor epidote as veins 60° CP. Andesitic composition. 92.6-94.6 has 10% Py (diss.) 97.5-97.9 is more silicious containing a large gty vein with hematite and pyrite cubes. 105.0-106.3 contains 5% Py and minor specular.										
92.0	107.		8773		92.6	94.6	2.0			0.005		
			8774		97.5	97.9	0.4			0.01		
			8775		105.0	106.3	1.3			NIL		
1070	118.0	Dense grey rock with very fine veins of hematite, gty and epidote. Low to medium magnetic. Hardness of 5-5.5.	8776		107.7	111.4	3.9			NIL		
			8777		111.4	111.8	0.4			0.01		
			8778		Scrap material					NIL		
118.0		ECH.										

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B4 LENGTH 295.0 feet
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 28+00W DEPARTURE 2+15S
 ELEVATION 1013' AZIMUTH 342 DIP -40
 STARTED Sept. 6'83 FINISHED Sept. 8'83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
295.0'	-34				

HOLE NO. 83-B4 SHEET NO. 1

REMARKS BO 1 7/16"

LOGGED BY DON OLIVER

B. Kawalaki

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	4.0	CASING								Au	Ag
4.0	6.0	Slightly fractured siliceous fine-grained greyish volcanic. Dacitic composition. Very fine-grained impregnation of hematite and less than 1/2% PYRITE.	8779		4.0	6.0	2.0			0.07	0.06
6.0	8.0	Highly fractured silicic reddish rock (volcanic)-more of an andesite in composition. Generally, an altered stretched breccia. 2-5% PYRITE (very fine-grained) associated with quartz veinlets as seam enclosures or impregnations.	8780		6.0	11.5	4.0 (LC1.5)			0.005	
8.0	13.0	Reddish breccia as above. 40% silicic material. Locally up to 5% PYRITE.	8781		11.5	13.0	1.7			0.02	
13.0	17.0	Greyish-brown mildly foliated volcanic. More carbonate enriched than above with a loss of reddish silicic material. Less than 1% PYRITE. Weakly magnetic.	8782		13.0	18.0	4.5 (LC0.5)			0.02	
17.0	27.0	LC 2.5'. More of a stretched breccia now with a re-introduction of more silica. Slightly reddish grey in appearance. Hardness 6.5. Highly fractured. One PYRITE seam (3mm) at 25.0', otherwise 2% disseminated.	8783		23.0	25.0	2.0			0.03	0.02
27.0	29.0	LC 2.5'. Mildly fractured light brownish grey rock. Minor quartz seamlets. Less than 1% PYRITE. Weakly magnetic.	8784		25.0	29.0	4.0			0.002	
29.0	37.0	Slightly reddish-grey brecciated volcanic. Locally very fine foliation. Highly silicic and fractured with quartz as a filler. More of an andesite in composition. Weakly magnetic. Hardness app. 6. PYRITE 1-2%.	8785 8786		29.0 31.0	31.0 37.0	2.0 6.0			0.002 Nil	

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B4 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
37.0	44.0	Greyish-green-brown to red volcanic somewhat brecciated. 1" quartz vein at 38.0', less than 1/2% PYRITE. Locally 5% pyrite is associated with quartz and hematite. Generally, 2% PYRITE throughout. Weakly magnetic. Locally up to 5% epidotization.	8787		37.0	40.5	3.5			Au Nil	
			8788		40.5	44.0	3.7				
44.0	48.5	Fine-grained groundmass reddish-grey in colour, brecciated. Very silicic and fractured. Locally 5% PYRITE. Otherwise 1-2% associated with quartz and hematite. Minor quartz staining to a brownish colour due to impurities. Severe weathering at 44.0-44.5' to brown.	8789		44.0	48.5	4.5			0.002	
48.5	50.0	Greenish fine-grained volcanic, tending toward an andesitic composition. Weakly magnetic with quartz seamlets of less than 5%. PYRITE less than 1%. Somewhat tuffaceous in appearance.	8790		48.5	50.8	2.3			Nil	
50.0	53.0	Same as above fine-grained greenish volcanic. Siliceous mildly fractured. Weakly magnetic. PYRITE is less than 1%. Hardness of 6.	8791		50.8	53.0	2.4			Nil	
53.0	60.0	Same as prior to 53.0'. Fine-grained greenish volcanic. More quartz seamlets of approximately 3mm appearing now. Quartz is slightly red in colour. PYRITE is less than 1%. At 58.9' rock is becoming increasingly brecciated downhole.	8792		53.0	55.0	2.0			Nil Nil	
			8793		55.0	60.0	5.0				
60.0	71.0	Rock is now somewhat schistose in appearance and is greyish-brown to red in colour. Generally a breccia (siliceous). Weakly magnetic and PYRITE content less than 2%.	8794		60.0	63.5	3.5			0.002	
			8795		63.5	67.5	4.0				
			8796		67.5	71.0	3.7				
71.0	89.0	Contact with fine-grained greenish chloritic volcanic. Dacitic composition. Numerous quartz-carbonate veins.									

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B4 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 3

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON		
					FROM	TO	TOTAL						
		Less than ½% PYRITE as fillings in veins. Hardness 5-5½, weakly magnetic.											
89.0	95.0	Rock is same as 71.0'-89.0' except pink-carbonate (calcite) at 92.0'-93.0'. Less than 1% associated PYRITE.	8797		92.0	93.0	1.0						
95.0	100.0	Rock is mafic but more siliceous with 5% PYRITE. It is moderately fractured with quartz fillers.	8798		95.2	96.5	1.3						
			8799		96.5	100.3	3.10						
100.0	110.5	Greenish volcanic with quartz-carbonate fracture fillings. Locally in zones of 3" shows distinct foliations. 102.0'-104.0' and 104.6'-106.5' have 5% PYRITE. Overall is less than 2% PYRITE.	8800		102.0	104.0	2.0						
			4001		105.0	106.5	1.5						
110.5	130.0	Chloritic greenish soft fine-grained volcanic. Moderate veining of carbonate (112.0-113.6') has more silica and 2-3% PYRITE. Overall is less than 1% PYRITE.	4002		112.0	113.5	1.5						
130.0	144.0	Chloritic, greenish fractured fine-grained volcanic with quartz-carbonate fillings. Becomes increasingly foliated downhole at 144.0'. PYRITE is less than 1%. Foliation is 70° to core axis. Very minor hematization (less than 1%) within the quartz veins.											
144.0	173.0	An altered flattened agglomerate (volcanic origin). Light yellow-grey in colour showing various widths of irregular foliation (probably flattened pebbles) ½", PYRITE seam at 150.2' and a large quartz vein at 164.6-165.0'. No visible associated PYRITE. Almost gneissic in appearance. Many fragments (2-3mm) visible. 30% sericitic.	8447		152.0	156.0	4.0						
			4003		151.2	151.5	0.3						
			4004		164.8	165.0	0.4						
			4005		165.4	165.6	0.2						

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B4 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 4

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON		
		FROM			TO	TOTAL						
173.0	177.0	Contact of METASEDIMENTS. Slightly foliated tuff with 40% quartz. Associated PYRITE is less than 1%. Light greyish yellow in appearance.	4007		173.1	176.2	3.1			0.005		
X 177.0	191.5	METASEDIMENTS-tuff like appearance. Sericitic with visible foliation or laminations 65-75° to core axis. Some yellowish bands are 3mm in width. Hardness of 5-5½.	4008		178.7	178.11				Nil		
					179.6	179.10						
					180.10	181.0						
					181.3	181.7						
191.5	210.5	Same as above(tuff like with laminations). Jasper bleb at 192.0'. Two minor quartz veins at 198.5' and 207.7' with a width of 1-1½". In general the rock is soft, light grey-brown-yellow in colour with uniform laminations. Sulphides are less than ½%.										
210.5	230.5	Metasediments. Sericitic, almost fine laminations, locally, otherwise irregular. 30% quartz from 216.0-217.0. Associated PYRITE is less than ½%. Colour is yellowish green and has a hardness of 5. Various small (2mm) jasper blebs noted in four locations. More tuff-like than 228.0-229.5'.	8448		215.0	217.5	2.5			0.002		
230.5	249.5	Same as prior to 230.5'. Metasediments showing irregular flattened laminations. 1" jasper at 232.3'. Sericitic, greenish yellow in colour. Hardness of 5. Very fine laminations locally, quartz 35% at 245.0' but no visible PYRITIZATION. Total PYRITE content is less than ½%.										
249.0	269.0	Metasediments as above. Yellowish green, irregular to regular fine laminations. Jasper blebs up to 4mm noted in various locations. 5" quartz vein at 255.4-255.8'. Related PYRITE is less than 1%. Total PYRITE content is less than ½%. Hardness of 5. Some laminations are probably flattened pebbles due to their irregular shape. 40% quartz from 257.0-258.0' less than 1% PYRITE.	4006		255.3	255.9				Nil		
					257.2	258.0						
					258.8	258.10						
			8449	½	259.0	264.0	5.0			0.005		

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B4 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 5
 REMARKS _____
 LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
269.0	288.0	Metasediments: As above but more tuffaceous in texture from 270.0'-274.0'. Sericitic yellowish green with flattened to fine laminations. Minor jasper blebs (up to 2mm) noted in a few locations. Minor quartz veinlets of 3mm at 270.5'. PYRITE content is less than 1/2%.	8450		274.5	278.0	3.7			0.002 ^{Am}	
			8451	1	282.0	287.0	5.0			Nil	
288.0	295.0	Same as former metasediments. Irregular laminations, flattened, more tuff like appearance from 293.0'-295.0'. Volcanic waste fragment of 3mm noted at 290.5'. Minor fracture fillings of pyrite less than 1%. Yellowish green in colour. Hardness 5.	8452		287.0	290.0	3.0			0.01	
			8453		290.0	292.5	2.5			Nil	
EOH											

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B5 LENGTH 197 feet
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 23+00W DEPARTURE 2+64S
 ELEVATION 997 AZIMUTH 342 DIP -40
 STARTED Sept. 8 '83 FINISHED Sept. 9 '83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
197	-38				

HOLE NO. 83-B5 SHEET NO. 1
 REMARKS BO 1 7/16"

LOGGED BY PENTI LASSILA *pen*

R. Kowalki

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	56.0	Meta-andesite to meta-basalt. Massive fine-grained grey green mafic volcanic, mainly less than 25% feldspars (75%) mafic minerals. Weakly to moderately laced with irregular thin seamlets, wispy patches and locally saussaritized feldspar phenocrysts (3mm). Weakly very finely fractured. 2-5% variably oriented calcite seaming commonly enveloped with thin (3mm) hematitic seams, with associated minor disseminated pyrite. Weakly chloritized mainly along fractures. Also locally very weakly silicified. Locally weakly magnetic. 45'-56' very distinct wispy splashes of epidote and epidotized feldspar crystals form a light greenish-spotted texture. Increasingly silicic downhole from 52-56'.	4010		14.0	14.5					
					30.0	30.4					
					34.0	34.3	1.8				
					38.5	39.1					
56.0	62.5	Metavolcanic: fine-grained grey moderately fractured, moderately silicified (approaching dacite composition), moderately irregularly foliated, volcanic (no epidote). Variably injected with calcite, calcite-quartz, and quartz seams-veinlets (5-10%). Abundant orange-red hematitic silica associated with quartz veinlets. Variably abundant (1/2-5%) disseminated PYRITE; locally weakly magnetic.	4011		42.0	42.3					
					47.0	47.4	2.1			0.11	
					50.0	51.6					
56.0	62.5	Metavolcanic: fine-grained grey moderately fractured, moderately silicified (approaching dacite composition), moderately irregularly foliated, volcanic (no epidote). Variably injected with calcite, calcite-quartz, and quartz seams-veinlets (5-10%). Abundant orange-red hematitic silica associated with quartz veinlets. Variably abundant (1/2-5%) disseminated PYRITE; locally weakly magnetic.	4012		56.0	57.0	1.0			0.26	
			4013		61.1	62.5	1.4			0.002	
62.5	80.0	Metavolcanic as at 56'-62.5' except less quartz-carbonate seaming (2-5%) in part only weakly fractured and very weakly foliated, locally faint epidotization, rare hematite silica.									
80.0	88.0	Metadiorite, uniform unit, chloritic green moderately to well foliated, moderately-to well chloritized, fine-grained except for lath-like altered dirty-white feldspar crystals and segregations (phenocrysts-porphyroblasts) blended into groundmass (are also moderately-to very-calcareous). Minor 1-2% thin 1-5mm calcite seamlets.	4014		87.5	90.0	2.7			0.03	

DIAMOND DRILL RECORD

B

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B5

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH. IDES	FOOTAGE			%	%	OZ. TON	OZ. TON
					FROM	TO	TOTAL				
X 88.0	105.5	Metavolcanic (fractured, brecciated) similar to 80'-88' but more silicic and more intensely fractured, 1" part fault brecciated, variably foliated; moderately to strongly-silicified; moderately to heavily-injected with quartz-carbonate seaming and yellowish-grey to orangy-red flow foliated fragmental material-all quite calcareous. Very minor, less than 1/2% PYRITE. Moderately soft to hard.	4015		90.0	94.5	4.5			0.005	
			4016		94.5	97.3	2.10			0.04	
			4017		97.3	101.5	4.2			0.002	
			4018		101.5	105.5	4.0			0.002	
X 105.5	131.0	Main silicified zone: complex melange of fault breccia, foliated, extensively flattened fragmental and clastic material; variably injected with quartz and quartz-carbonate, in part extensively hematized (orangy-red). Minor 1% to locally abundant 10% disseminated PYRITE; sericitic (minor chlorite); appears to contain both volcanic and sedimentary material-increasingly more sediment (extremely flattened polymictic pebble metaconglomerate) in downhole direction. Locally up to 3% SPECULARITE as fracture fillings (associated with reddish brown hematitic silica)	4019		105.5	108.0	2.7			0.01	
			4020		108.0	111.0	3.0			0.06	
			4021		111.0	115.0	4.0			0.16	
			4022		115.0	118.5	3.5			0.06	
			4023		118.5	123.4	4.11			0.08	
			4024		123.4	128.0	4.8			0.005	
X 131.0	138.5	Altered flattened, metaconglomerate. Extensively flattened altered flow foliated vary-coloured dark grey to pinkish lency fragments, clasts? which may originally have been polymictic pebble conglomerate mainly of intermediate (grey) to silicic (white to pinkish) composition: minor silicic breccia. Minor 1/2% to locally massive lenticular clot-like seamlets of PYRITE. Well brecciated between 137.7' and 138.5'.	4025		128.0	131.0	3.0			0.005	
			4026		131.0	133.8	2.8			0.005	
			4027		133.8	135.1	1.4			0.002	
X 138.5	161.0	Grey metafragmental: well foliated, flattened, lency banded in part brecciated, flattened rock. In part appears to be brecciated grey volcanic material of intermediate composition, and in part extremely flattened flow foliated light to dark grey metaconglomerate material. Minor disseminated PYRITE and locally as thin stringers parallel to foliation. Weakly calcareous.	4028		135.1	137.7	2.6			0.02	
			4029		137.7	138.5	0.10			0.002	
			4030		138.5	145.0	6.7			0.002	
X 161.0	172.0	Mafic metasediment? Greenish lenticularly banded chloritic schist with quartz interbands up to 1cm thick 5%; apparently a flattened metaconglomerate of mainly mafic composition; weakly calcareous. Two narrow 8" sections at 162.0'-164.0' compose quartz-feldspar and sericite with minor 1% PYRITE.	4031		145.0	147.5	2.5			0.01	
			4032		147.5	149.5	2.0			0.01	
			4033		149.5	152.0	2.7			0.005	
			4034		152.0	157.5	5.5			0.002	
			4035		162.0	162.8					
					164.0	164.8	1.4			0.005	

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B5 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPH. IDES	FOOTAGE		%	%	OZ. TON	OZ. TON
					FROM	TO				
172.0	182.0	Mafic to intermediate metasediments. Same as 161'-172' but the mafic components are more greyish and silicic.								
182.0	197.0	Fractured flattened metasediment? Well foliated, extensively flattened, dark grey, light grey and felsic lensy bands (dark bands moderately chloritic; light bands sericitic) Approx. 50-70% felsic material. Appears to be altered, fractured, flattened pebble metaconglomerate. Several sections (see sample location) with reddish-brown (hematitic) and whitish quartz lenses usually with associated minor 1-3% PYRITE.	4036		182.0	186.3	4.3			0.002
			4037		190.0	191.5	1.5			0.01
			4038		192.7	194.0	1.5			0.005
			4039		195.0	196.0	1.0			0.005
EOH										

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B6 LENGTH 179 feet
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 25+00W DEPARTURE 1+25S
 ELEVATION 985' AZIMUTH 162 DIP -40
 STARTED Sept. 9 '83 FINISHED Sept. 10 '83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
179	-36				

HOLE NO. 83-B6 SHEET NO. 1

REMARKS BQ 1 7/16"

LOGGED BY DON OLIVER
B. Kawabaki

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0.0	4.0	CASING										
4.0	16.8	LC 2' at 10' location. Very siliceous altered brecciated mafic volcanic. Fragments are stretched and distorted. Could be more altered agglomerate than brecciated. The rock is dark grey to reddish in colour. Disseminated PYRITE 1-2%. Abundant quartz veining and seaming is observed with an impregnation of hematite throughout. It is weakly magnetic.										
16.8	28.2	Less alteration. Rock is more chloritic with a fine-grained groundmass. Hardness 5-5½. Quartz veining is 45-70° to core axis. PYRITE content is less than 1%. More of an andesitic composition. (Mafic volcanic).										
28.2	38.0	Altered volcanic agglomerate. Greyish red in colour. Silicic zones are 28.2-29.5'. Stretched fragments with 1% PYRITE. 29.5'-31.7' is less altered with fine quartz carbonate veining. Less than 1% PYRITE. At 31.7'-38.0' it is more altered with stretched fragments and is more silicic. PYRITE locally is 5%. This zone is badly fractured with quartz-carbonate fillings. Almost schistose in appearance at 37.0'-38.0'.										
38.0	41.0	More chloritic volcanic with locally visible pebbles. Moderately fractured with quartz fillings 50° to core axis. Greenish fine-grained in appearance. Hardness of 5. PYRITE is less than 1%.										
41.0	45.8	Fine-grained chloritic green volcanic. 5% carbonate seaming. Hardness of 5. No alteration. PYRITE is less than 1%. Seams are 70°-75° core axis.										
45.8	53.0	Same as above: Chloritic fine-grained groundmass becom-										

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B6 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
		ing more fractured downhole. Fractures filled by quartz SULPHIDE content is 1-3%. Quartz fractures are only 1-3mm in width.	4043		48.0	52.0	4.0			Nil	
			4044		52.0	53.0	1.0			Nil	
X	53.0	76.0	4045		53.0	58.8	4.8			0.002	
			4046		58.8	59.9	1.1			0.005	
			4047		59.9	66.0	6.3			0.002	
			4048		66.0	71.0	5.0			0.005	
			4049		71.0	76.0	5.0			0.04	
	76.0	82.10	4050		76.0	79.0	3.0			0.002	
			4051		79.0	82.10	3.10			0.002	
	82.10	94.0	4052		82.10	86.7	3.9			0.002	
	94.0	95.8									
	95.8	125.0									

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B6 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 3

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
125.0	144.5	fracture contains epidote, quartz and 5% disseminated PYRITE. Overall SULPHIDES are less than 2%.									
144.5	165.0	Greenish tinted mafic volcanic with a fine-grained groundmass. Impregnation of epidote and in the form of wispy swirls. Quartz veining is present up to 3/4". Hardness of rock 6-6½. PYRITE is 1% and is fine-grained blebs associated with the epidote swirls. No visible PYRITE with the quartz veins. Rock is weakly- to moderately- magnetic.									
144.5	165.0	Rock is same as above but a large quartz carbonate fracture filling from 158.6' to 161.3'. No visible associated PYRITE. As above, PYRITE is associated with the epidote wispy swirls and the overall content is less than 1½%. Fracturing is moderate with quartz, hematite and epidote as fillers. Hardness of 6 except in the carbonate fracture where it is lower.	4053		158.6	161.3	2.9			0.002	
165.0	184.0	Rock is fine-grained greenish in colour due to impregnation, seams and swirls of epidote. Hardness of 6. Moderately fractured with quartz and epidote as fillers. Overall PYRITE is less than 1%. Locally from 166.9-167.2 there is 10% PYRITE which is disseminated. Rock is weakly- to strongly- magnetic.									
184.0	197.0	LC 186'-1.0'. Rock is same as above but 1% hematite blebs. Epidote impregnation and swirls. Mainly fine-grained except from 196.0'-197.0' where there is a great intermixing of quartz, epidote wispy swirls and 1% hematite blebs. Moderately fractured locally and overall SULPHIDE content is less than 1%. Locally rock is weakly- to moderately- magnetic.									

LANGRIDGES - TORONTO - 366-1168

EOH

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B7 LENGTH 237.0 feet
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 26+00W DEPARTURE 2+65S
 ELEVATION 1017' AZIMUTH 342 DIP -40
 STARTED Sept. 10 '83 FINISHED Sept. 11'83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
237	-34				

HOLE NO. 83-B7 SHEET NO. 1

REMARKS BO 1 7/16"

LOGGED BY PENTI LASSILA *pel*

B. Kowalski

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON		
					FROM	TO	TOTAL						
0.0	10.0	CASING											
10.0	70.0	Dacitic andesite to dacite; massive fine-grained, grey to slightly greenish, volcanic, composition trending to dacite, minor carbonate and quartz-carbonate seams-veinlets (2%) few localized patchy fracture fillings of epidote. From 57'-70' more siliceous-dacite. Strongly magnetic.											
70.0	74.0	Dacite: Fractured dacite with considerable calcite-quartz fracture filling with associated massive clots, seamlets of disseminated PYRITE and SPECULARITE. Strongly magnetic. Quartz-carbonate veinlets 20%; PYRITE ave. 5% in quartz-carbonate portion; SPECULARITE ave. 1% in quartz carbonate portion.	4055		71.0	74.0	3.0			Nil			
X 74.0	79.0	Transition zone: Mixed brecciated creamy greenish, pinkish reddish material composed of sericitic schist, chloritic schist, silicified flow flattened breccia, carbonate veinlet (across foliation structure), welded rounded fragments of quartz-veining, kink folded foliation. 1-8% fine PYRITE as disseminations, dissem. lenses, clots and aggregations. Extensively and intricately laced with thin 1-2mm variably oriented crosscutting seamlets of SPECULARITE, 1-5%.	4056		74.0	79.0	5.0			0.005			
79.0	136.0	Complex sulphide and SPECULARITE bearing hematitic silicified zone. It is composed of: variably concentrated, intermixed, interlayered, interbedded, injected, recrystallized, foliated-fragmented-brecciated-flattened-predominately dynamically metamorphosed (low temp=high pressure=flattening=brecciation=recrystallization=variable remobilization) faulted material.	4057 4058 4059 4060 4061 4062 4063		79.0 83.0 85.0 87.0 89.5 91.5 93.0	83.0 85.0 87.0 89.5 91.5 93.0 94.0	4.0 2.0 2.0 2.5 2.0 1.7 1.0			0.13 0.02 0.03 0.01 0.14 Nil Nil			

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B7 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ./TON	OZ./TON
					FROM	TO	TOTAL				
		Includes components of: a) boudinaged, silicified and hematitic silicia, chloritic-sericitic schistose polymictic metaconglomerate. b) Whitish hematitic haloed, fragmented to brecciated, variably configured injected quartz, usually with associated PYRITE as fine disseminations and lensy thin fracture filling seamlets and small clot-like patches of SPECULARITE:PYRITE content ranges from 1% to locally 10%, SPECULARITE less than 5%. c) 107'-125'-40-60% of rock is bright reddish (hematized) 'b' type silicic breccia. d) Chloritized, schistose, interbedded, flattened, well foliated tuff and lapilli tuff of mafic to intermediate composition. e) Angular fragmented dacitic breccia, in part injected with secondary quartz.	4064		95.0	96.7	1.7			0.005	
			4065		96.7	98.3	1.8			0.02	
			4066		98.3	99.5	1.2			0.005	
			4067		99.5	101.7	1.2			0.01	
			4068		101.7	103.0	1.5			0.002	
			4069		104.0	105.0	1.0			0.005	
			4070		105.0	107.0	2.0			0.03	
			4071		107.0	112.5	5.5			0.02	
			4072		112.5	117.3	4.10			0.01	
			4073		117.3	120.5	3.2			0.005	
			4074		120.5	125.0	4.7			0.03	
		4075		125.0	130.0	5.0			0.002		
		4076		130.0	135.0	5.0			0.002		
X	135.0	152.0									
		Chloritic schist: meta-andesite or metabasalt: uniform sea-green unit, well foliated, soft very mafic, laced with wispy lenses-clots of white calcite-quartz (mainly calcite) seamlets-veinlets subparallel to foliation (10-20%). Possibly mafic metatuff. 135'-136.5' Transition zone.									
X	152.0	162.3									
		Polymictic metaconglomerate. Mafic to intermediate composition minor felsic components. Well foliated, extensively flattened and flow foliated. Core texture as lensy to wispy bands to boudinage texture in more siliceous units. Composition: green mafic material 15-80% with intricately interlayered gradations to whitish-creamy-pink tinged felsics 2-80% of rock, laced with white to very minor pinkish (hematitic) silica injection commonly with up to 3% associated PYRITE, rare thin lmm SPECULARITE seams. Non-magnetic. Locally brecciated in felsic secitons.	4077		152.6	154.0	1.6			0.002	
			4078		155.0	159.5	4.5			0.002	
			4079		159.5	162.3	2.10			Nil	
	162.3	166.0									
		Flow banded fragmental: Similar to 152'-162.3' section but composed mainly of fractured, silica injected, dacitic material; silicified flattened, brecciated, flow foliated, pebble-cobble metaconglomerate of mainly intermediate composition. 1-2% PYRITE average clasts appears to be metatuffs. Weakly magnetic.	4080		162.3	166.0	3.9			0.005	

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B7

SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ./TON Au	OZ./TON
					FROM	TO	TOTAL				
167.0	176.0	Mafic to intermediate metatuff? Grey to green grey, lenticular, flattened, pseudofragmented texture, well foliated fine-grained, volcanic material of mafic to dacitic composition, probably metatuff. Lenticular, weakly banded texture (bands "weld" into each other) in core. 5-20% wispy lensy quartz-calcite seamlets mainly subparallel to foliation; minor 1% PYRITE in more siliceous sections. Moderately calcareous. Weakly to moderately-magnetic, to 178' then nonmagnetic.	4081		167.8	169.7	1.11			0.002	
			4082		172.0	173.2	1.2			0.002	
			4083		174.3	175.7	1.4			Nil	
176.0	214.0	Chloritic schist: meta-andesite or metabasalt essentially identical to description for 135'-152'. 205'-214' Becomes more siliceous (chlorite-minor sericite) lighter green more tightly lensy banded at 205'-214'.	4084		178.0	180.0	2.0			Nil	
			4085		181.0	181.7	0.7			Nil	
214.0	217.0	Siliceous metaconglomerate. Finely banded to laminated interlayers of variably intergrading light green (mafic) creamy yellow (felsic) whitish (quartz) and minor very thin (1-2mm) reddish (hematitic) material: all extensively flattened and well foliated (chlorite-sericite schist); few local narrow (1-2") siliceous brecciated zones. Minor less than 1% disseminated PYRITE.	4086		214.0	217.0	3.0			Nil	
217.0	222.0	Mafic to intermediate metatuff?, intergrading variation of schistose units at at 135'-152'; 167'-177'; and 177'-205'.									
222.0	237.0	Chlorite-sericite coarse metatuff. Extremely foliated talcy, chloritic-sericite schist. Very uniform unit compositionally, considerable variation (folding), in foliation-ranges from nearly perpendicular to nearly parallel to core axis. Occasional bright reddish jasper fragment. Moderately calcareous. 226.0'-228.0' Approx. 50% white injection quartz, minor calcite.	4087		226.0	228.0	2.0			0.002	

X

LANGRIDGES - TORONTO - 366-1168

EOH

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B8 LENGTH 343.0 feet
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 30+00W DEPARTURE 3+50S
 ELEVATION 1014' AZIMUTH 342 DIP -45
 STARTED Sept. 11 '83 FINISHED Sept. 12 '83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
343	-40				

HOLE NO. 83-B8 SHEET NO. 1
 REMARKS BQ 1 7/16"

LOGGED BY PENTI LASSILA *per*
B. Kowalicki

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0.0	28.0	CASING										
28.0	35.0	Autobrecciated mafic volcanic, grey green angular fragment weakly silicified, weak epidote alteration, minor hematized seams, occasional isolated and clot-like clusters of fractured orang_y red K-feldspar (hematized)										
35.0	45.0	Volcanic autobreccia: Similar to above but more silicified, and much more -10% silicic hematized material, local moderate infusion of epidote; ½% to locally 3% disseminated fine-grained specularite, very minor PYRITE less than 1%.	4093		35.0	38.0	3.0			Nil		
			4094		38.0	40.0	2.0			Nil		
			4095		40.0	45.0	5.0			Nil		
45.0	47.8	Massive grey-green metadiorite.										
47.8	52.0	Volcanic auto breccia as 34-45'.	4096		47.8	52.0	4.4			Nil		
52.0	61.5	Fractured andesitic to dacitic metavolcanic. Grey to grey-green fractured to locally finely brecciated altered volcanic. Feldspars altered to sericite, epidote and in part hematized (reddish hue). Minor specularite ½%.										
61.5	88.1	Weakly to moderately silicified mafic metavolcanic auto-breccia. Very variably altered with distinct segregated angular clots to intergraded patches containing epidote, sericite, hematite silicate, rusty fracture seams, vuggy clacite seams and minor local quartz enrichment. ½-2% SPECULARITE as disseminated concentrations along fracture. Very minor PYRITE -1% locally associated with siliceous material.	4097		61.5	65.5	4.0			0.002		
			4088		67.0	71.4	4.4			Nil		
			4089		71.4	75.10	4.6			Nil		
88.1	105.0	Fractured to brecciated slightly to moderately silicified mafic volcanic (metabasalt). Fine-grained, grey-green, fractured to brecciated, massive-to weakly-foliated andesitic volcanic, variably silica enriched, moderately										

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B8 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
105.0	110.4	calcareous, nonmagnetic 5% to locally 10% irregularly oriented and crosscutting thin 5mm carbonate seams, minor quartz; few quartz veinlets ½-2" thick. Variably concentrated segregations of euhedral disseminated PYRITE 2mm cubes, throughout: ave 1% to 2% PYRITE quartz veining at 90', 93', 94.5'. 100.5'-½% cpy (1-4mm blebs) over 5".	4098		89.0	91.0	2.0			Nil	
			4099		92.6	97.0	4.6			Nil	
			4100		97.0	102.0	5.0			0.002	
			4101		102.0	105.0	3.0			0.002	
			4102		105.0	108.5	3.5			0.005	
			4103		108.5	110.4	1.11			Nil	
110.4	125.3	Metabasalt: Fine-grained, grey to green tinged massive volcanic with small 1mm altered calcite phenocrysts, very calcareous. At 117.6'-119.6' and 120.5'-121.5' two silica enriched (weakly reddish) zones with abundant 5-10% PYRITE and quartz-carbonate veinlet.	4104		110.4	115.0	3.8			Nil	
			4105		117.6	119.6	2.0			0.02	
			4106		120.5	121.5	1.0			0.01	
125.3	129.0	Quartz breccia and silicified volcanic. 10% white quartz (minor calcite) breccia in finely brecciated smoky grey volcanic groundmass. Pinkish-hue siliceous breccia 125.3' to 126' with 2-5% PYRITE over 4". Approx. 2% PYRITE average over rest of section.	4107		121.5	125.3	3.10			Nil	
			4108		126.0	129.0	3.0			0.005	
129.0	217.5	METABASALT: Massive uniform unit, fine-grained, green grey weakly finely speckled (tiny 1mm white-green calc-feldspar phenocrysts) and faint brick reddish (hematite haloed) porphyroblasts to 3mm diameter minor calcite and calcite-quartz seams and occasional 1-4mm hematite quartz carbonate seams. Moderately to strongly calcareous; non-magnetic. Dark green foliated chlorite blebs 107'-217'.	4109		152.0	155.5	3.5			Nil	
			4110		178.0	179.5	1.5			Nil	

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B8 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 83-B8 SHEET NO. 3
 REMARKS _____
 LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
		217.5'-229.0' Dacitic-andesite-breccia. Fine grained, dull grey massive subangular fragments, moderately to strongly-calcareous, weakly magnetic, 1-2% fine disseminated PYRITE.	4111		217.5	224.0	6.7			0.005	
			4112		224.0	228.0	4.0			0.002	
X	229.0	COMPLEX SULPHIDE AND SPECULARITE BEARING HEMATITE SILICATE ZONE. Well foliated, stretched, silica injected hematite-chlorite-sericite altered lensy banded, flow foliated, recrystallized meta-fault-brecciated rock, carrying secondary pyrite and fracture filling of specularite. Uphole portion (217.5'-249') contains silicic and fragmented mafic metavolcanic material and lower portion silicic and metaconglomerate (metasediment) material. All components are complexly intermixed, a interlayered, and variably concentrated. General segregations include: a) Heavy over 50% whitish to pink-reddish silica breccia b) Heavy over 30% brick-red silica breccia c) Mainly white calcite-silica and over 50% mafic volc. d) Finely layered quartz-calcite-sericite and minor reddish silica. e) Well brecciated mafic to intermediate volcanic. f) Chlorite schist (mafic volcanic) g) Quartz veining.	4113		228.0	230.0	2.0			0.002	
			4114		230.0	233.0	3.0			0.02	
			4115		233.0	237.8	4.8			0.02	
			4116		237.8	241.0	3.4			0.002	
			4117		241.10	244.5	2.7			Nil	
			4118		244.5	249.0	4.7			0.005	
			4119		249.0	253.0	4.0			0.002	
			4120		253.0	255.5	2.5			0.05	
			4121		255.5	257.8	2.3			0.30	0.21
			4122		257.8	259.6	1.10			0.10	
	287.4	Mafic volcanic breccia fine-grained, grey green fragmented andesitic to slightly silicified mafic; becomes increasingly foliated downhole to a chlorite schist at 299.0'. Minor thin dark chlorite seams and 5% calcite seamings, moderately to strongly calcareous. Non-magnetic.	4123		259.6	263.0	3.6			0.04	
			4124		263.0	267.0	4.0			0.005	
			4125		267.0	271.0	4.0			Nil	
			4126		271.0	273.0	2.0			0.005	
	299.0	Kink foliated chlorite schist, with lensy laminated interlayers exhibiting compositional variations from dark green (more mafic) to light green (more feldspathic)	4127		276.0	279.5	3.5			0.002	

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B8 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 4
 REMARKS _____
 LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
		and or siliceous components, pseudo fragmented texture in part; Intricately injected (mainly parallel to foliation) with whitish quartz-carbonate, and apparantly interbedded with extremely stretched whitish quartz-feldspars-carbonate clasts. 205'-306'; white and pinkish silicic foliated breccia ½% PYRITE. 312.6'-317.0' 30% white fracture quartz with yellowish sericite fracture filling.	4128		279.5	281.6	2.1			0.01	
			4129		281.6	285.0	3.6			0.005	
			4130		285.0	287.4	2.4			0.002	
			4131		305.0	306.0	1.0			0.002	
			4133		312.6	317.0	4.6			0.002	
X	316.0	321.6	4134		320.0	321.6	1.6			0.005	
		Flattened pebble cobble metaconglomerate. Grey to white banded texture in core. Consists of very flattened foliated pebbles and cobbles mainly of intermediate to felsic compositon. Less small mafic clasts-all altered to sericite and chlorite, except for quartz material. 316.0'-321.6' mainly white quartz and yellow-green sericite.									
X	321.6	343.0									
		Coarse metalapilli tuff. Extremely flattened, foliated chloritic-sericitic, uniform unit, considerable kink folded foliation.									
		EOH									

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B9 LENGTH 286 feet
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 22+00W DEPARTURE 2+28S
 ELEVATION 1001' AZIMUTH 342 DIP -45
 STARTED Sept. 13'83 FINISHED Sept. 14'83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
286	-39				

HOLE NO. 83-B9 SHEET NO. 1

REMARKS BO 1 7/16"

LOGGED BY PENTI LASSILA

Kowalski

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0.0	14.0	CASING										
14.0	32.0	Metadacite; grey green to grey-blue-green well fractured massive fine-grained volcanic. Compositional intergradations from silicic andesite to rhyodacite, noncalcareous except for thin (up to 3mm) fracture filling seams. Locally heavily epidotized as splayed ragged patches and swirls mainly associated with fractures commonly with associated with brownish red hematitic fine breccia fragments. Several thin carbonate fracture seams with heavy rusty-red hematite envelopes, also cube PYRITE disseminations 10% (up to 1/2" wide) associated with some seams. Average PYRITE overall is less than 1/2%; 'patchy' weakly-magnetic zones.										
32.0	58.0	Metaquartz-diorite; in part a micro breccia; grey-green, fine-grained massive, weakly- to moderately- magnetic, saussaritized feldspar porphyry (2mm ragged light green phenocrysts). Many thin (to 4mm) irregularly oriented quartz-carbonate seams commonly also hematitic composition. Locally micro-brecciated with up to 50% epidote ground-mass, and contains nearly black quartz? "granules" to 2mm diameter.	4149		35.0	36.4						
			4150		44.6	45.0	1.10			Nil		
			4150		54.2	55.5	1.3					0.002
58.0	60.2	Transition Zone: Well fractured epidotized (ave. 30%) increasingly siliceous downhole: a 60' 2" hematite, quartz, calcite, epidote veinlets 1% PYRITE.	4151		58.0	60.2	2.2					Nil

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B9 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
60.2	74.0	Metadacite autobreccia; fine-grained grey-green fractured to brecciated, locally weakly foliated, hard, strongly magnetic with local segregated fragment-like clots of magnetite. Minor disseminated very fine-grained (½%) PYRITE. Non-calcareous.	4152		67.4	72.0	4.8			Nil	
74.0	75.0	Epidote, hematitic silica, dacite foliated breccia, minor PYRITE associated with hematitic silica.	4153		74.0	75.0	1.0			0.002	
75.0	91.5	Variably silicified andesitic to dacitic meta-autobreccia similar to 60.2-74' but more greenish, softer. Weakly to moderately-magnetic only at some spots, weakly calcareous and more calcite and calcite-quartz seamlets. Few narrow (to ½") reddish hematitic breccia bands-seamlets with associated minor by mainly between 84'-91.5' weakly chloritic.	4154		84.0	88.0	4.0			Nil	
			4155		88.0	91.5	3.5			Nil	
X 91.5	121.4	Metaquartz diorite as at 32-58' (microbreccia). 104.3-113.0'; zone of very heavy epidote alteration abundant quartz-carbonate and lesser (2-3%) red hematite alteration, minor ½% PYRITE. 199.0-121.4'; transition zone; very fractured more siliceous lighter green volcanic to 121.4'.	4156		109.3	113.0	3.9			Nil	
X 121.4	171.0	Finely fractured metadacite: massive, uniform, dull grey, finely fractured, fine-grained, uniformly magnetic (moderate) volcanic of intermediate composition. Noncalcareous to weakly calcareous mainly due to fine quartz-calcite seams (2-4%). ½-1% very fine disseminated PYRITE throughout. Locally few cubes to 1mm diameter. Appears to contain about 20-30% fine (less than 1mm) smoky grey quartz crystals. 150.0'-158.0'; isolated widely spaced to locally lined concentrations of disseminated euhedral PYRITE cubes to 2mm diameter (½-1%). Becomes more mafic (greenish tinged) 165'-171' and weakly foliated.	4157		121.4	123.8	2.4			0.005	
			4158		123.8	128.0	4.4			0.04	
			4159		163.0	165.7	2.7			0.002	
X 171.0	174.0	Silicified Breccia (hanging wall); Complex mottled melange of very fractured rewelded fault breccia. Includes white, yellow-orange to brick red crushed silicate material, mafic to intermediate volcanic, wispy splays along fractures. Well mineralized with fine PYRITE (3-10%)	4160		171.3	174.2	2.11			0.05	

ANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B9 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ TON
				FROM	TO	TOTAL				
X 174.0	180.0	Chloritic schist well laced with quartz-carbonate. Well foliated chloritic schistose mafic green-grey andesitic volcanic (possibly originally a mafic tuff) extensive laced interlayered patchy ragged lenses of quartz-carbonate (30%) very calcareous. Flattened and well foliated.							As	Ag
180.0	214.5	Footwall silicified zone; extremely altered, brecciated, flattened, sericitized, pebble to cobble metaconglomerate mainly of intermediate to felsic composition, with minor to abundant reddish hematite alteration and weak to moderate-secondary PYRITE enrichment and minor (locally to 3%) thin (1-2mm) SPECULARITE seaming. Presently material is boudinage textured, lensy foliate banded, sericitic schistose to sericite-chlorite schistose, polymictic clastic rock with the quartzitic clasts being fractured (microbrecciated), foliated and sericitized. The unit is non calcareous and nonmagnetic; quartz content ranges from 10-70%, whitish-yellow to greenish-yellow (feldspar-sericite) approx. 15-50%, mafic (dark grey) material up to 30%, PYRITE 1/2-3% (mainly as semi-massive (up to 70%) seamlets (up to 3mm) subparallel to foliation) SPECULARITE mainly associated with siliceous sections as thin (less than 2mm) black seams subparallel to foliation. Occasional pseudomorphic fabric of very brecciated flattened, altered cobbles to about 3" thick.	4161	180.0	182.6	2.6			0.04	
			4162	182.6	187.0	4.6			0.07	
			4163	187.0	192.0	5.0			0.03	
			4164	192.0	194.5	2.5			0.08	
			4165	194.5	197.0	2.7			0.03	
			4166	197.0	200.0	3.0			0.04	
			4167	200.0	203.0	3.0			0.06	
			4168	203.0	204.5	1.5			0.27	
			4169	204.5	210.3	5.10			0.36	0.23
			4170	210.3	214.5	4.2			0.18	
X 214.5	227.8	Finely laminar banded varicoloured yellow-green to reddish-brown finely boudinage quartz and sericite schist apparently formed from felsic tuff and tuff lapilli. Minor kink folding, few specs very fine PYRITE.	4171	214.5	219.5	5.0			0.02	
			4172	219.5	224.0	4.7			0.005	
			4173	224.0	227.8	3.8			0.005	
227.8	229.0	White quartz vein 6" and silicic foliated breccia 1% PYRITE associated with quartz.	4174	227.8	229.0	1.4			0.03	
229.0	241.8	Hematized finely brecciated quartz and sericite schist. Extensively finely brecciated (micro-breccia) well hematized (10-20%) silicate, white to smoky grey quartz and minor sericite expresses as foliated hematite seamed breccia								

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B9 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ. TON	OZ. TON
					FROM	TO	TOTAL				
		in core. Appears to be a metaquartz pebble conglomerate or metarhyolite lapilli. 1-2% PYRITE mainly disseminated along lensy seamlets subparallel to foliation. ½-1% SPECULARITE as thin (1mm) black lensy seams subparallel to foliation.	4175		229.0	234.0	5.0			Au	
			4176		234.0	238.0	4.0			0.02	
			4177		238.0	241.8	3.8			0.04	
241.8	249.0	Sericitized, finely brecciated, flattened, boudinaged well foliated quartz-pebble metaconglomerate similar to section at 229-241.8' but only very weakly hematized. Approx. 70-80% quartz material with thin (to 2mm) heavily PYRITIZED (10-50% PYRITE) sericitic laminae. Approx. 2-3% PYRITE overall. No SPECULARITE.	4178		241.8	245.0	3.4			0.06	
			4179		245.0	249.0	4.0			0.07	
249.0	254.7	Yellow-green sericite zone: sericite and white quartz pebble metaconglomerate/meta-tuff-lapilli. Well fragmented-brecciated flattened (boudinaged) quartz pebbles-cobbles intricately interlayered in flow foliated yellow-green sericite schist. Sericitic component appears to be a felsic tuff derivative. Minor greyish more mafic (dacitic) clastic material. Numerous very fine (½mm) quartz eyes and ½% very fine disseminations and lensy clots of PYRITE.	4180		249.0	254.7	5.7			0.09	
254.7	259.0	Similar to section at 249-254.7' but much less whitish quartzitic clasts and 20% dark grey laminar chloritic bands. Trace very fine-PYRITE.	4181		254.7	259.0	4.5			0.005	
259.0	259.6	Coarse uniform, greenish, sericitic well foliated crystal tuff, occasional tiny (½mm) red chert fragments. ½% PYRITE very fine-grained.								0.002	
259.6	264.5	Sericite, quartz, minor coarse greenish tuff interlayers: swirled, mottled, locally kink foliated texture with complex interlayering of above 3 components: 35% white quartz; 40% yellowish green sericite tuff; 25% greenish coarse tuff; ½% very fine PYRITE.									
264.5	271.0	Transition zone from sericite to coarse tuff, interlayers sericitic rock and coarse tuff (60%).	4182		264.5	268.5	4.0			Nil	

MCGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B9 SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ TON
					FROM	TO	TOTAL				
271.0	277.0	5' ground core. 90% white granular (microbrecciated) quartz; 10% yellow-green sericite. Trace PYRITE.									
277.0	286.0	Light greenish grey, massive, uniform, granular grained clastic with over 50% quartz granules (no mafics). Subrounded, commonly microfractured quartz granules to 1mm diameter linearly oriented along foliation of sericite groundmass. Appears to be coarse felsic crystal metatuff but could be well sorted quartz granule metasandstone.									
EOH											

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B10 LENGTH 275.0'
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 21+00W DEPARTURE 1+65S
 ELEVATION 792' AZIMUTH 342 DIP -40
 STARTED Sept. 14'83 FINISHED Sept. 15'83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
275	-36				

HOLE NO. 83-B10 SHEET NO. 1

REMARKS BO 1 7/16"

LOGGED BY DON OLIVER *you*

B. Kowalski

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO					TOTAL
0.0	10.0	CASING	4184		39.5	42.8	3.3			Au 0.002	
10.0	30.0	Volcanic, dacitic composition. Fine-grained, dark grey in colour. Quartz vein at 26.3'-27.0', epidote swirls before quartz and veining after it for one foot. PYRITE associated with the quartz is 1-2%. Overall content is less than 1%. This unit is moderately fractured with quartz-carbonate fillings and is moderately- magnetic.	4185		49.0	53.0	4.0			Nil	
			4186		62.0	67.0	4.0			Nil	
			4187		67.0	68.0	1.0			Nil	
			4188		68.0	70.0	2.0			Nil	
			4189		70.0	72.5	2.5			Nil	
			4190		72.5	74.0	1.7			Nil	
			4191		77.0	79.8	2.8			0.002	
			4192		79.8	87.0	7.4			0.002	
30.0	50.0		Same as above but slightly more epidote. Rock is hard at 6.5. 39.5'-42.8' has 10% PYRITE. Colour is more green due to epidote impregnation. Seams and veinlets are quartz-carbonate.	4193		87.0	89.10	2.10			0.002
				4194		89.10	93.0	3.2			Nil
				4195		93.0	94.0	1.0			0.04
				4196		94.0	98.0	4.0			0.005
		4197			98.0	100.0	2.0			0.005	
50.0	93.0	Greenish fine-grained rock as above. Less epidote at 60.0' downhole. Moderately fractured with quartz-carbonate fillings. Quartz vein at 70.0'-71.7'. Locally 5-10% PYRITE on the sides and as disseminations in the middle. A 7" quartz vein at 82.0' has 5-10% PYRITE on the uphole side in disseminations in epidote and silica material. Minor hematite of 2% occurs near the quartz. 88.0'-88.7' has four quartz veins of 1/4" width. Related pyrite is 1% in a disseminated state. This unit is more of a mafic-dacite composition with weak- to moderately- magnetic. Minor pink calcite of 1% occurs in the 88.0'-88.7' zone.		4198		100.0	104.0	4.0			0.01
			4199		104.0	107.0	3.0			0.002	
			4200		107.0	109.6	2.6			Nil	
			4201		109.6	111.8	2.2			0.01	
			4202		111.8	115.0	3.4			0.002	
			4203		115.0	117.3	2.3			0.005	
			4204		117.3	121.0	3.9			0.005	
			4205		121.0	126.10	6.10			0.06	
			4206		126.10	131.0	4.2			0.02	
			4207		131.0	135.10	5.10			0.02	
			4208		135.10	136.10	1.0			0.09	
			4209		136.10	144.0	7.2			0.005	
93.0	117.0	Reddish siliceous breccia zone. 101.0'-103.0' contains 40% quartz with 10% PYRITE in the quartz which is very fine-grained. Overall PYRITE content is 1-2%. Core is very fine-grained and heavily fractured with quartz-carbonate and silica fillers. Hematitic.	4210		144.0	145.8	1.8			0.01	
			4211		145.8	148.4	2.8			0.03	
			4212		148.4	150.2	1.10			0.03	
			4213		150.2	152.6	2.4			0.04	
			4214		152.6	153.10	1.4			0.02	
			4215		153.10	154.10	1.0			0.02	
			4216		154.10	157.0	2.2			0.02	
			4217		157.0	160.0	3.0			0.01	
			4218		160.0	160.10	0.10			0.04	

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. LENGTH
 LOCATION
 LATITUDE DEPARTURE
 ELEVATION AZIMUTH DIP
 STARTED FINISHED

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 83-B10 SHEET NO. 2
 REMARKS
 LOGGED BY

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
117.0	135.10	Moderately fractured dark grey volcanic. Quartz-carbonate fillings. PYRITE content is 2-5% locally.	8019		160.10	163.6	1.8			0.01	
			4220		163.6	169.0	5.6			0.02	
			4221		169.0	171.7	2.7			0.005	
135.10	195.0	METAVOLCANICS-METACONGLOMERATE. Colours range from tan-brown-red-black. Volcanic fragments are flattened to a near laminated appearance. This unit becomes more sericitic at 184.0' downhole PYRITE content is 1%. All pebbles are flattened and this seems to be a mixture of sediments and volcanics.	4222		171.4	172.4	1.0			0.10	
			4223		172.4	173.8	1.4			0.01	
			4224		173.8	178.0	4.4			0.03	
			4225		178.0	183.10	5.10			0.005	
			4226		183.10	188.0	4.2			0.02	
			4227		185.0	188.0	3.0			0.002	
			4228		188.0	189.8	1.8			0.05	
195.0	241.0	METASEDIMENTS. Locally fine to poor laminations. Volcanic waste still visible as a minor occurrence. PYRITE content is less than 1%. Sericite becomes more evident at 240.0'. Colour is green (chlorite) red and brown to yellow. Minor chert fragments.	8029		189.8	194.10	5.2			0.02	
			8030		194.10	197.10	3.0			0.02	
			8031		197.10	204.0	6.2			0.02	
			8032		204.0	209.0	5.0			0.24	
			8033		209.0	214.8	5.8			0.01	
			8034		214.8	218.0	3.4			0.02	
241.0	267.0	CHLORITE SCHIST light green in colour. 265.0'-266.0' has 60% quartz containing less than 1% PYRITE and less than 1% SPECULAR HEMATITE. Laminations are fine to poor and irregular.	8035		218.0	220.6	2.6			0.03	
			8036		220.6	223.0	2.6			0.01	
			8037		223.0	226.5	3.5			0.005	
			8038		226.5	228.5	2.0			0.01	
			8039		228.5	233.5	5.0			0.08	
267.0	275.0	Coarse tuff to lapilli material greenish-brown in colour. Non sericitic. PYRITE less than ½%. Rock is soft (5) and nonmagnetic.	8040		233.5	236.4	2.11			0.02	
			8041		236.4	240.0	3.8			0.005	
			8042		240.0	244.6	4.6			Nil	
			8043		244.6	247.8	3.1			Nil	
			8044		247.8	255.0	7.4			0.002	
			8045		255.0	258.0	3.0			0.002	
			8046		258.0	259.10	1.10			Nil	
			8047		259.10	260.8	0.10			0.002	
			8048		260.8	265.0	4.4			0.005	
			8049		265.0	266.7	1.7			0.002	
			8050		266.7	268.4	1.9			0.002	
			8051		268.4	269.1	0.9			0.002	
			8052		269.1	275.0	5.11			0.002	

LANGRIDGES - TORONTO - 366-1168

EOH

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B11 LENGTH 353.0 feet
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 21+00W DEPARTURE 1+65S
 ELEVATION 992' AZIMUTH 022 DIP -40
 STARTED Sept. 15 '83 FINISHED Sept. 17 '83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
353	-31				

HOLE NO. 83-B11 SHEET NO. 1
 REMARKS NO 1 7/8"

LOGGED BY DON OLIVER
B. Kowalaki

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0.0	10.0	CASING										
10.0	34.8	Mafic volcanic up to 34.8 and then becomes more dacitic in composition. Rock is high in mafic minerals and dark grey-green in colour with a hardness of approx. 6.5. Quartz seaming accounts for 1-2%. This unit is weakly- to moderately-fractured with epidote as a filler and hematite as a minor occurrence of less than 1%. Minute SPECULARITE seams are present, but account for less than 1/2% as does PYRITE. From 33.5'-34.8' there is a flattened brecciated unit consisting of 6" of flattened- quartz intermixed with hematite, epidote and 5% PYRITE. From there to 34.8', the unit is brecciated-fragmental with reddish clasts in a greenish groundmass with less than 1/2% SPECULARITE and 2% PYRITE. Magnetics are locally low to strong.	8053		33.5	34.8	1.3			0.002		
34.8	46.0	Rock is slightly more siliceous and of a dacitic composition. There is fine quartz and epidote seams mixed with veins. Hematite is not observed in the same amount as above. PYRITE occurs in fine-grained masses of 1%. This whole unit is moderately fractured fine-grained and low to medium magnetic.										
46.0	81.5	Fine-grained greenish dacitic rock as above. Moderately fractured uphole but more evident 73.0' downhole. Fractures are filled by quartz, epidote and hematite. Minor calcite seaming of less than 1%. Overall PYRITE content is less than 2% except in sampled locations. 51.8'-53.4' has a fractured quartz vein filled with epidote, hematite and 3-5% PYRITE 71.3'-71.9' has a 3mm epidote swirl enveloped by hematite with PYRITE cubes 3-5%. 1% SPECULARITE at 80'-80.2'. This unit is moderately magnetic.	8054		51.8	53.4	1.8			Nil		

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B11 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ. TON	OZ. TON
					FROM	TO				
81.5	110.0	Dacitic material as above. Severely fractured, grey-green in colour, fine-coarse grained. Fractures are quartz-carbonate filled with minor epidote and hematite seams. 98.4'-98.10' has an altered siliceous hematitic epidotized section intermixed with PYRITE 3-5%. Rock is hard at 6.5 and overall PYRITE content is ½-1%. Core becomes less fractured at 110.0' downhole. The coarse grained material has a somewhat granitic texture from 82'-99'.								
110.0	154.0	Rock is greenish-grey in colour with a hardness of 6.5 and is moderately fractured with quartz-carbonate and epidote filled with minor (1%) hematite seams. Epidote is impregnated in the rock giving it a greenish tint. Overall PYRITE content is ½-1%. The rock is slightly more mafic in appearance from 151.0'-154.0'.								
X 154.0	189.10	Rock is of dacitic composition, hardness 6.5, greenish in colour and moderately fractured with quartz-carbonate epidote fillings. 155'-157' is a brecciated agglomerate with flattened hematitic fragments. More of a fault breccia with 1% PYRITE. Hematite is a minor occurrence acting as an enveloping agent around quartz veins. Overall PYRITE content is 1%. Magnetics are weak to moderate.								
189.10	211.0	Contact of brecciated-hematized conglomerate zone, colour ranges from red-grey-white. Visible flattened pebbles and fragments. Very well silicified, locally high percentage of hematite and PYRITE. 192.3'-193.6' has 40% hematite, 30% quartz, 10-12% PYRITE. A well mineralized section. Some fragments are recognizable where others are flattened. 207.2'-208.7' has 40% quartz with 5% PYRITE dissemination. Overall PYRITE is 2-3%. Minute SPECULARITE seams are also noted.	8055		189.10	192.3	2.5		0.03	
			8056		192.3	193.6	1.3		0.10	
			8057		193.6	197.9	4.3		Nil	
			8058		197.9	199.1	1.4		0.002	
			8059		199.1	202.5	3.4		0.02	
			8060		202.5	207.2	4.9		0.01	
			8061		207.2	208.7	1.5		0.005	
			8062		208.7	213.0	4.5		0.02	
			8063		213.0	218.5	5.5		0.03	
			8064		218.5	223.0	4.7		0.09	
			8065		223.0	227.5	4.5		0.02	
			8066		227.5	230.0	2.7		0.02	
			8067		230.0	234.0	4.0		0.02	
			8068		234.0	239.0	5.0		0.11	
	211.0	237.0								
		Much the same as above. A flattened pebble agglomerate almost schistose in appearance. Hematitic material laminated with siliceous rock and volcanic waste. Overall PYRITE content is 1% this appears as disseminations and very thin seams. Some areas such as 213'-218' are not as fragmented as others. Blue quartz eyes are noted in small amount. Hematite occurs as seams and blebs. At 228' a small seam of mariposite.								

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B11 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ. TON	OZ. TON
					FROM	TO	TOTAL				
237.0	258.0	More of a metasediment appearance. Fine to irregular laminations with silica chlorite and sericite. Some volcanic waste is still present. Hematitic banding is also present as is locally 1/2-1% PYRITE. This rock is soft at 5.5, and has almost a schistose to gneissic appearance. Non- to weakly-magnetic.	8069		239.0	244.0	5.0			Au	
			8070		244.0	249.0	5.0			0.01	
			8071		249.0	252.8	3.8			0.02	
			8072		252.8	258.0	5.4			0.01	
258.0	284.4	Metasediments as above with a schistose to gneissic appearance. Not as much volcanic waste as previously and laminations are still fine to irregular. Locally pebbles can be seen ranging from 1-2mm (almost a lapilli) grain size varies from fine- to coarse-grained locally. Cavities appear in the coarser material. These are primarily in the quartz-carbonate. This unit is calcareous and pink calcite is noted in a few locations. PYRITE is still occurring as seams and disseminations ranging from 1/2-1% locally ranging at 2-3% in minute seams. Laminations are quartz, carbonate, hematite, chlorite-sericite. Carbonates play the major role.	8073		258.0	263.1	5.1			0.02	
			8074		263.1	267.0	3.11			0.05	
			8075		267.0	272.0	5.0			0.03	
			8076		272.0	277.0	5.0			0.04	
			8077		277.0	282.0	5.0			0.03	
			8078		282.0	284.4	2.4			0.03	
284.4	309.9	Same as above. Carbonate, chlorite-sericite laminations with volcanic waste laminations present. Laminations are fine to flattened and contorted. At 303' there is a 2" quartz band but no associated sulphides. To 294' the PYRITE content is 1% but downhole from 294', it becomes less than 1/2%. The PYRITE had occurred as fine seams and disseminations. Minor carbonate (1%) occur at 289' hematite is still present as fine seams and phenocrysts.	8079		284.4	289.0	4.8			0.02	
			8080		289.0	294.0	5.0			0.03	
			8081		294.0	296.5	2.5			0.10	
			8082		296.5	301.0	4.7			Nil	
			8083		301.0	306.0	5.0			0.002	
			8084		306.0	309.9	3.9			Nil	
309.9	324.5	Contact with chlorite-sericite schist. Rock becomes increasingly more sericitic downhole. Rock is greenish-white in colour. Laminations are chlorite-sericite, quartz-carbonate and 2% volcanic waste. PYRITE is less than 1/2%. Minor jasper fragments are noted from 1-3mm in size. A 3" quartz vein is noted at 327.2' but no sulphides are present. This whole unit is soft at 5. Laminations are fine to flattened. 315' & 318' mariposite seams.	8085		309.9	314.5	4.8			Nil	
			8086		314.5	317.0	2.7			0.002	
			8087		317.0	322.2	5.2			0.002	
			8088		322.2	324.5	2.3			0.01	

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B11 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
324.5	346.0	As above, a chlorite-sericite schist. Fine laminations only interrupted by quartz veins of 1-3" from 331.2-332.4. Laminations are not as flattened as before. Sulphide content is still less than 1/2%. This is light green in colour with a hardness of 5. No jasper is present.	8089		324.5	327.0	2.7			0.005	
			8090	#	327.0	331.2	4.2			Nil	
			8091		331.2	332.4	1.2			0.002	
			8092		332.4	336.0	3.8			0.002	
			8093		336.0	341.0	5.0			0.002	
			8094		341.0	346.0	5.0			Nil	
			8095		346.0	349.2	3.2			0.002	
346.0	349.2	Transition zone leading to tuff material. This zone is flattened and altered with contortions. Carbonate laminations are pulled almost out of shape. Instead of laminated they are pulled. This consists of quartz-carbonate, chlorite sericite. NO VISIBLE SULPHIDES.									
349.2	353.0	This zone is a coarse tuff with faint laminations of sericite. Quartz-carbonate laminations and phenocrysts are seen also. Fairly uniform texture.	8096		349.2	353.0	3.10			Nil	
ECH											

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B12 LENGTH 927.0 feet
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 18+00W DEPARTURE 5+00S
 ELEVATION 1002' AZIMUTH 342 DIP -65
 STARTED Sept. 17 '83 FINISHED Sept. 21 '83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
400	-65				
927	-64				

HOLE NO. 83-B12 SHEET NO. 1

REMARKS BC 1 7/16"

LOGGED BY PENTTI LASSILA per *Pentti*

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	2.0	CASING									
2.0	5.0	Silicified, fragmented, PYRITE-fine-grained disseminated 2%, light green grey volcanic laced with white quartz veins (20%) along fractures.	8098		2.0	5.0	3.0			0.002	
5.0	165.0	Meta-andesite; gradings towards a dacite in composition. Green, fine-grained, massive volcanic, weakly saussaritized to locally heavily splayed epidote mainly along fractures. Red hematite common along many fracture seams and/or epidote seams comprise 2-5% of rock. Groundmass varies from non- to moderately-calcareous at various locations along the section indicating minor compositional variations. Various minor disseminations and blebs of PYRITE, minor flow top breccia (44.0-50.0').									
		19.0-21.5 Quartz-carbonate seaming, 30% of rock, with brick red hematitic alteration associated with seaming, well chloritized and foliated at 10-30° to core axis. One percent in quartz-carbonate seams.	8099		19.0	21.5	2.5			Nil	
		67.0-68.5 Silicified zone, fractured, hematitic quartz-carbonate 2-5% disseminated PYRITE.	8100		67.0	68.5	1.5			Nil	
		82.0-82.5 White quartz vein, minor PYRITE and reddish silica.	8101		82.0	82.5	0.5			Nil	
					105.0	105.3	0.3				
					106.0	107.5	1.5				
		105.0-107.5 White quartz-carbonate vein, heavy epidote ½" red hematitic silica 1-2% PYRITE.									
		124.5-126.5 Quartz and quartz-carbonate vein(80%), minor hematite; 2"= 2% PYRITE.	8102		124.5	126.5	2.0			0.002	

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. R3-B12 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
		Grain size grades to metadiorite 130-165ft. Very gradual gradational increase in grain size from 120-130ft. Abrupt change (contact) over a few inches at 165' from green speckled (saussaritized) metadiorite to fine-grained bluish-green strongly magnetic non-saussaritized dacite.	8103		145.7	146.6	0.11			Nil	
165.0	190.0	Dacite intergrading composition variations and meta-andesite or metadiorite with the siliceous components generally moderately magnetic and the mafic components tending to be non- to weakly- magnetic. Faint flow top? breccia exhibited just below 167.0ft extending to about 169ft. Occasional thin (1-4mm) calcite and quartz-carbonate seams along irregular fractures, mainly epidote carbonate seams between 179ft and 185ft. 167.0-168.0 Hematized quartz-carbonate seamlets with 1% PYRITE. 181.0-182.5 Mainly ground core: heavy epidote, reddish (hematitic) quartz-carbonate with approximately 4% disseminated PYRITE. 177.4-178.0 Quartz-carbonate injection, hematized, 4% disseminated PYRITE swirly texture.	8104		177.4	178.0	0.8			Nil	
190.0	215.0	METADIORITE TO METAQUARTZDIORITE: Fine to medium-grained intergrading throughout also variably and indistinctly intergrading from well saussaritized allotriomorphic diorite (speckled texture due greenish epidote altered feldspars) to dark green-grey hypidiomorphic texture relatively unaltered quartz diorite. Few thin (1-3mm) fracture seams filled with quartz-carbonate commonly epidotized and less commonly hematitic envelope.									
215.0	236.0	Meta-andesite intergrading to dacite in composition. Very similar to section at 165.0-190.0ft non- to weakly-magnetic, non- to weakly-calcareous.									

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B12 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ./TON	OZ. TON
					FROM	TO	TOTAL				
236.0	307.0	Many quartz-carbonate veinlets-seams from 130-136 ft -- 233-236ft. becomes fine-grained, grey, more siliceous. SOUTH SILICIFIED ZONE									
236.0	244.5	Brecciated, heavily hematized (brick red), intensely silicified volcanic and white injection quartz. Two percent to 15% PYRITE mainly associated with hematized silica. 236.0-238.0:25% volcanic fragments, 55% reddish silicic material, 10% white-pinkish quartz 5% PYRITE. 238.0-241.5:50% white quartz injections, 40% reddish hematitic silica, 5% volcanic fragments, 3-5% PYRITE. 241.5-244.5:50% hematized silicified volcanic fragments 15% grey volcanic fragments, 30% white quartz injections, 3-5% PYRITE.	8105		236.0	238.0	2.0			0.002	
			8106		238.0	241.5	3.5			0.002	
			8107		241.5	244.5	3.0			0.001	
244.5	302.0	Silcified autobrecciated volcanic ranging from an andesite to rhyolite in composition, weakly to locally intensely hematized "pyritized" (secondary pyrite). Zone has an overall grey-purplish to reddish hue due to hematitic alteration: fine-grained, massive to locally stretch foliated, well fractured to finely-brecciated, numerous crosscutting and in part breccia fragment enveloping quartz, quartz-carbonate and carbonate fracture filling seams. Also very fine (1-2mm thick) dark green chloritic fracture filling seams. Noncalcareous groundmass in very silicic sections to strongly calcareous groundmass in mafic (andesitic) sections. Apparantly magnetite has been largely converted to secondary hematite alteration in the more siliceous rock (see below). No epidote.									
		244.5-256.0 Non-magnetic, siliceous, locally strong hematization (up to 10% disseminated associated pyrite), well brecciated volcanic. Very little very fine 0.1mm PYRITE ½%.	8108		244.5	246.4	1.11			Nil	
			8109		246.4	250.9	4.5			0.002	
			8110		250.9	253.5	2.8			0.005	
			8111		253.5	256.6	3.1			0.002	

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B12 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ./TON	OZ./TON
					FROM	TO	TOTAL				
		256.0-286.0 Strongly magnetic andesite to moderately silicic breccia, locally weak hematization, volcanic autobreccia with disseminated pyrite concentrated mainly along fracture seams (ave. ½-1% PYRITE overall). Magnetite finely disseminated and locally segregated into fine tiny black lenses often in part hematized (reddish).	8112		258.0	261.5	3.5			Nil	
			8113		261.5	264.0	2.7			Nil	
			8114		264.0	267.0	3.0			0.002	
			8115		269.2	274.2	5.0			Nil	
			8116		281.0	283.8	2.8			Nil	
		286.0-289.0 Heavily pyritized silicified volcanic auto-breccia 5% to locally 30% disseminated cubic PYRITE (to 1mm diam) reddish tinged (hematite) dull bronze colour hard siliceous fine-grained autobreccia, minor 1% fine to 2mm hematite fracture filling seams, strongly calcareous, few white quartz-carbonate veinlets-one 1½" thick.	8117		286.0	289.0	3.0			0.005	
		289.0-293.3 Purplish tinged (hematite) strongly magnetic intermediate volcanic autobreccia as at 256.0-286ft.	8118		289.0	292.0	3.3			Nil	
		293.3-295.0 Heavily hematized, pyritized, silicified well brecciated volcanic. 2-10% cubic PYRITE dissemination.	8119		292.3	295.0	2.9			0.002	
		295.0-302.0 Slightly reddish tinged strongly magnetic, calcareous, fine-grained, grey diorite.									
302.0	345.5	Fine-grained, massive meta-andesite to silicified meta-andesite. Considerable compositional intergrading from green mafic volcanic to reddish tinged grey-green (weakly hematized) volcanic. Variably non- to strongly-magnetic (occasional segregated small clots of magnetite 327-340ft.. Locally more mafic differentiates are moderately well saussaritized. Minor small (mainly 1-4mm quartz calcite seams, 5%, (epidotized in more mafic groundmass). Rare hematitic seams.	8120		317.0	319.5	2.5			Nil	
345.5	347.0	Heavily pyritized, epidotized, hematized, quartz injected swirl foliated, brecciated, silicified section Ave. 15% disseminated and clots of PYRITE.	8121		345.5	347.0	1.7			0.005	
347.0	361.0	MASSIVE META-ANDESITE. Fine-grained, dark grey-green, very weakly to locally strongly epidotized mainly along fractures and wispy									

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B12 SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
		swirls between 347.0-352.0ft: 5% of rock as white quartz-carbonate seams mainly 1mm-5mm thick.									
361.0	368.0	ROCK SILICIFIED INTO GREY METAGRANODIORITE Medium-grained, weakly to strongly-calcareous, distinctive, medium grey to reddish tinged massive unit. Est. 5-10% quartz (more in strongly hematized reddish-brown material). White feldspars have been largely altered to calcite, tiny (1mm) kaolinized laths and reddish tinged hematitic aggregates-very difficult to distinguish hematized feldspar from hematized quartz. Possibly 5% very fine dark grey to nearly black mafic minerals of unknown composition. Non-magnetic. PYRITE ½-1% as fine disseminations to occasional subhedral cubes to 3mm diam (2"-5-8% pyrite). General texture is weakly mottled, subhued pseudoporphyroblastic, finely fractured to locally brecciated.	8122		363.5	368.0	4.7			Nil	
368.0	485.0	Massive uniform well saussaritized fine to medium grained meta-diorite-gabbro. Distinctive green coarsely speckled texture caused by epidote altered (light green) rather ragged feldspar laths (20-40%) forming matrix for darker green altered mafic crystals of unknown mineral composition (appears to be mainly green pyroxene). The unit is almost certainly an intrusive phase of the mafic flows. Nearly all the quartz-calcite seams partly to completely epidotized (some distinct bright light green (clinozoisite) seams. Reddish hematized with associated pyrite exhibited 25% of seams: Seams are generally thin 1-3mm, ranging up to ½" thick and comprise about 2% to locally 5% of the rock.									
		392.0-394.0 Five inch quartz vein and other quartz-carbonate veins to 2 in. thick well enveloped with pyritiferous hematite, few thin 1/8" clinozoisite seams. Average 1% PYRITE up to 5% over 2".	8123		392.0	394.0	2.0			0.02	
		473.1-475.0 Quartz- carbonate veining, epidote, hematization. Average PYRITE 2%.	8124		473.1	475.0	1.11			Nil	

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

 NAME OF PROPERTY BROOKBANK

 HOLE NO. 83-B12

 SHEET NO. 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPH. IDES	FOOTAGE			%	%	OZ./TON	OZ./TON
					FROM	TO	TOTAL				
482.0	502.5	METADIORITE Bluish-grey-green fine-grained massive volcanic, gradual compositional change from gabbroic phase to dioritic phast between 480.0-485.0ft. Moderately magnetic throughout, no epidote alteration below 485'. Occasionally quartz-carbonate seam. Moderately to strongly calcareous.									
502.5	507.5	WHITE QUARTZ VEIN 80% white quartz with 5% heavily hematized PYRITIC seams and clots-20% PYRITE along hematized fractures, minor very bleby fractures in white quartz, carrying, metallic grey mineral (possibly galena) at 506.5-507.0ft.	8125		502.5	507.5	5.0			0.002	
507.5	555.0	META-ANDESITE Strongly calcareous groundmass at 507.5' decreases to noncalcareous at 513ft. Non-magnetic. Fine-grained dull grey greenish tinged pseudoporphyratic- porphyroblastic texture, occasional light green epidote splays associated with fractures. Grades into chloritic schist from 545.0-555.0ft.									
555.0	574.5	SCHISTOSE CHLORITIC ANDESITIC METAVOLCANIC: "Blotchy" blue grey, moderately foliated, moderately chloritized rather uniform unit which gradually becomes more intensely foliated chloritized and softer down-hole to a well developed chlorite schist at 270.0-275.0ft. Nonmagnetic throughout strongly calcareous throughout. Occasional thin (1-3mm) white calcitic seams.									
574.5	588.0	Mafic volcanic breccia: hematitic quartz-carbonate zone Fine-grained andesitic autobreccia, grey green, with numerous vuggy white to pinkish reddish brown hematite altered calcite crosscutting fracture fillings (minor quartz) usually with 1-2% PYRITE in the calcite seams. Less than ½% PYRITE in volcanic groundmass. Calcite-hematite fracture comprises about 20% of rock, no epidote moderately magnetic, weakly silicified, strongly calcareous.	8126 8127 8128		574.5 580.0 583.0	579.6 583.0 588.0	5.1 3.0 5.0			0.002 Nil Nil	
588.0	593.0	Well fractured to brecciated fine-grained weakly to moderately silicified mafic grey-green volcanic; strongly cal									

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B12 SHEET NO. 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ./TON	OZ./TON
					FROM	TO	TOTAL				
		calcareous, moderately to strongly magnetic, occasional thin (1-3mm) white quartz-carbonate seams becomes increasingly epidotized downhole.									
593.0	656.0	Well fractured to extremely crushed breccia of moderately silicified dacitic mafic volcanic. Heavily epidotized along fracture fillings, and as large (to 8") patchy ragged blotches commonly with fragment-like reddish hematitic clots associated with quartz-calcite fracture fillings. Very rugged fragmental between 606.0-625.0ft. Groundmass and epidote blotches are noncalcareous but fracture fillings are strongly calcareous, locally up to 3% PYRITE, but volcanic groundmass carries less than 1/2% PYRITE. Variably nonmagnetic to strongly magnetic. Compositional grade of breccia fragments ranges from moderately silicified andesite to rhyodacite. Apparently, pre-brecciated composition interlayering of andesitic to rhyodacite volcanism has occurred. Some altered seaming may be remnants of pillow selvages. Breccia becomes increasingly siliceous downhole from 643.0-656.0ft.	8129		601.0	606.0	5.0			Nil	
			8130		606.0	610.0	4.0			Nil	
			8131		610.0	613.0	3.0			Nil	
			8132		613.0	617.0	4.0			Nil	
			8133		617.0	620.5	3.5			Nil	
			8134		620.5	625.0	4.7			Nil	
			8135		625.0	629.0	4.0			Nil	
			8136		630.5	634.0	3.7			Nil	
			8137		634.0	638.0	4.0			Nil	
			8138		638.0	641.0	4.0			Nil	
			8139		641.0	643.0	2.0			Nil	
			8140		643.0	646.0	3.0			Nil	
			8141		647.5	651.0	3.7			Nil	
			8142		653.0	656.0	3.0			Nil	
656.0	662.0	Smoky-grey rhyolitic breccia, moderately magnetic, no epidote, very fine (1mm) quartz and quartz-carbonate seams, 1% very fine pyrite.	8143		658.5	662.0	3.7			Nil	
662.0	663.4	Quartz vein, in part hematized, white to pinkish tinged 1% PYRITE associated with hematite. Few disseminated crystals of galena.	8144		662.0	663.4	1.4			0.005	
663.4	669.0	Well fractured intermediate volcanic, similar to section 656.0-662.0ft., grades to more mafic downhole, minor epidote and quartz-carbonate seams.									
669.0	692.0	VOLCANIC BRECCIA: Moderately silicified and calcite enriched. Intense compressional brecciation of mafic volcanic. Most fragments have been silicified and subsequently breccia eg: considerable post-silicification brecciation has occurred. Fragments vary considerably in degree of alteration and matrix material as well as the main groundmass is brecciated indicating more than one period of	8145		669.0	670.5	1.5			0.002	
			8146		670.5	672.3	1.10			Nil	
			8147		672.3	677.0	4.9			Nil	
			8148		677.0	682.5	5.5			Nil	
			8149		682.5	687.5	5.0			Nil	

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B12 SHEET NO. 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
		crushing, and injection of quartz-carbonate material. Fragments include: light yellowish-green felsic volcanic with chlorite-sericite fracture filling. Whitish grey well carbonatized quartz-diorite with embedded greenish subangular more mafic fragments and rimmed with black specularite seams: Greenish grey andesitic volcanic fragments rimmed with calcite seams. Variable impregnations of light pinkish tinged to reddish hematite alteration.									
669.0	692.0	Minor concentrations of disseminated PYRITE mainly associated with the more felsic (silicified) components. The section is variably very weakly to strongly magnetic and moderately to strongly calcareous. The seam (fracture filling) structures are very calcareous. Appears to be epidotized calcitic pillow selvages t 691-692ft. Few blebs (½% chalcopryrite over 4") in white quartz at 671.0ft. 20% very fine black hematite (non-magnetic), possibly specularite, over 5inches at 684.5ft and 2" at 685.0ft..No epidote alteration observed. The rock contains variably intergrading "mixtures" and segregations of the above described lithologic components.									
692.0	702.0	Fine-grained well fractured dacitic grey-green meta-volcanic, fine crosscutting fractures epidote filled as well as two large (4-6") massive epidote patches at 697 & 670ft., occasional quartz-carbonate seamlet to 4mm thick. Groundmass noncalcareous but seams are calcareous.									
702.0	739.0	Massive fine-grained grey green meta-andesite with occasional small quartz-carbonate seams, moderately to strongly calcareous, weakly to moderately magnetic, minor compositional variations from andesitic to slightly silicified zones, no epidote. 703.0ft. 4 quartz-carbonate PYRITE weakly hematized veinlet weakly porphyritic from 727.0-739.0-coarser texture (metadiorite).Moderately well fractured 702.0-730.0ft.									

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B12 SHEET NO. 9

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ./TON	OZ./TON
					FROM	TO	TOTAL				
739.0	758.0	MASSIVE METADIORITE-GABBRO. Dark-green fragments-pseudo porphyroblasts (60-80%), light green epidotized feldspathic matrix in part weakly hematized, ragged-speckled spotty texture on wet surface. Webby filament-like concentration of epidote (40-60% over 1-2" at 743-744ft. Very weakly calcareous except for narrow (up to 4cm) quartz-carbonate seams 5% of rock), moderately magnetic. No epidote alteration.	8150		740.0	741.0	1.0			0.002	
			8151		757.0	758.0	1.0			0.003	
758.0	758.5	White to pinkish tinged calcite-quartz-hematite veining over 6", 2% PYRITE.									
758.5	774.0	Grey green calcareous dacitic meta-andesite; Fine-grained moderately hard, fractured, massive volcanic, very calcareous, moderately silicic, moderately to strongly magnetic. 5% white quartz calcite seams to 4mm thick: possibly a silicified metabasalt.									
774.0	777.0	Chloritic mafic volcanic breccia schist well laced with wispy lenticular seams of calcite and quartz-calcite subparallel to well developed foliation, 10% calcite seaming, nonmagnetic very calcareous groundmass.									
777.0	783.5	TRANSITION ZONE: First quartz cobble at 777.0ft (well brecciated flattened hematized). Mainly fragmented-brecciated andesitic volcanic variably silicified, weakly hematized, inter-layered with well flattened weakly hematized very flattened brecciated, foliated polymictic pebble-cobble metaconglomerate.	8152		779.0	783.5	4.5			Nil	
783.5	787.0	POLYMICTIC METACONGLOMERATE:Wetted surface is brightly variccoloured in steel grey, whitish, yellow-brown, orange-brown, reddish and minor dark grey hues representing compositional variations in very flattened, altered, fragmented to brecciated, foliated, and weakly hematized polymictic pebble metaconglomerate. Noncalcareous, nonmagnetic, well silicified. Texture in core ragged lensy banded gneissic. Fabric is sericitic.	8153		783.5	787.0	3.7			0.005	

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B12 SHEET NO. 10

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
787.0	788.0	Green schistose chloritic sheared metavolcanic with 10% quartz seams?pebbles?.									
788.0	793.0	Quartz pebble-cobble metaconglomerate. Extensively flattened well fractured to brecciated dirty white to brownish quartzitic pebbles to cobbles with well hematized sericitic foliated fracture filling commonly carrying fine stringlets of disseminated PYRITE -1%. Occasional thin seam (less than 2mm, one band (5mm) of black hematite.	8154		788.0	793.0	5.0			0.02	
793.0	798.0	Mafic metaconglomerate (greenschist with whitish quartzitic pebbles). Mafic clasts has lost all identity and have been completely altered to chloritic schist (80%). Interbedded in the chlorite are dirty-white to pinkish tinged quartzitic pebbles which have been flattened into lensey clots and well microbrecciated.									
798.0	803.0	Quartz pebble-cobble metaconglomerate as at 788 0-793.0ft	8155		798.0	803.0	5.0			0.01	
803.0	810.0	Transitional gradation zone from quartz-pebble metaconglomerate to a chloritic schist with brecciated white to greenish tinged quartzitic pebbles, cobbles and rare bouldersize clasts.	8156		804.0	809.0	5.0			0.09	
810.0	901.0	Grey-greenish metaconglomerate. Well foliated, sericite-chlorite, very flattened pebbles-cobbles (max. size at 916ft. is 4" across narrow width, flattened width unknown but probably one ft.), tightly compacted, poorly sorted; all whitish to grey green colour (wetted surface); nonmagnetic noncalcareous; Composition mainly greenish-grey clasts of mafic to intermediate composition intermixed with whitish granitic or quartzitic pebbles-cobbles, occasional well fractured to brecciated reddish cherty jasper clasts. The quartzitic cobbles are extremely microbrecciated with nearly complete alteration and recrystallization of all minerals except quartz. The mafic components have been largely altered to a chlorite schist and the more feldspathic material to sericite. Metamorphism appears to largely be related to extreme compressional stress, nonshearing and low temperature									

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. _____ LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 83-B12 SHEET NO. 11

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
901.0	927.0	Grey-greenish metaconglomerate as above but contains thin (1-3mm) laminae of mustard yellow greenish sericite (10%). Also narrow (to 8inch) interlayers of coarse grey meta-lapilli-tuff appears with increasing abundance down-hole to 927.0ft.	8157		901.5	908.1	6.8			0.002	
			8158		908.1	913.0	4.11			0.002	
			8159		913.0	917.0	4.0			Nil	
			8160		917.0	922.0	5.0			0.002	
EOH											

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B13 LENGTH 211 feet
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 19+00W DEPARTURE 1+10S
 ELEVATION 2ft. abv. swmp AZIMUTH 340 DIP -40
 STARTED Sept. 21'83 FINISHED Sept. 22 '83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
211	-36				

HOLE NO. 83-B13 SHEET NO. 1

REMARKS BO 1 7/16"

LOGGED BY DON OLIVER *par*

P. Kowalaki

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0.0	8.0	CASING										
8.0	11.1	Very fine-grained greenish grey rock. Weakly fractured to 10.0ft. at which it becomes moderate. PYRITE - 1/2%. Hematite up to 10.0' is 1% and to 11.1' is 5% with 3% quartz-carbonate filled fractures. This unit is hard at 6 and contains 10% broken core. Epidote has been impregnated into the groundmass in a disseminated state.	8186		8.0	11.1	3.1				0.01	
11.1	12.8	Severely fractured quartz vein containing hematite 5%, quartz 65-70%, PYRITE 5-10% SPECULAR HEMATITE less than 1% and epidote less than 1%. Fractures are filled by the above.	8187		11.1	12.8	1.7				0.03	
12.8	29.10	Reddish hematized brecciated zone. This zone is moderately- to severely-fractured and brecciated locally. Hematite varies from red to brick red. This is a very siliceous zone with quartz-carbonate filled fractures. A quartz vein of similar appearance to 11.1-12.8' occurs at 14.0-14.7'. PYRITE content is 2%. Hematite occurs as wispy patches, blebs, veins, seams and disseminations. The hematite is more in the disseminated state down at 30.0'. PYRITE varies locally from 1-10%. An overall average would be 2-3%. PYRITE is occurring in cubes, fine-grained masses and in a disseminated state.	8188		12.8	16.0	3.4				0.005	
			8189		16.0	18.1	2.1				0.02	
			8190		18.1	21.5	3.4				0.005	
			8191		21.5	25.5	4.0				0.002	
			8192		25.5	29.10	4.5				0.002	
29.0	70.0	Fine-grained greenish volcanic moderately silicified. This is a moderately fractured zone cut by 5-10% quartz and quartz-carbonate thin seams (up to 2mm). Hematite occurs in the amount of 10% at 62.0-62.4'. But overall it is present as a minor occurrence of 1%. This is in the form of disseminations and as minute seams. PYRITE occurs locally up to 5% but overall is 1%. It is generally associated with the hematite. This unit is weakly	8193		29.10	34.10	5.0				Nil	
			8194		34.10	39.0	4.2				0.002	
			8195		39.0	42.7	3.7				Nil	
			8196		67.0	70.0	4.5				Nil	

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. _____ LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 83-B13 SHEET NO. 2
 REMARKS _____
 LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
		magnetic. Epidote is impregnated but no large wisps are visible. The hardness of this unit is 6.										
70.0	84.2	A reddish (slightly) tinted very siliceous severely fractured brecciated zone. This unit is more of a stretched contorted rock than having an actual breccia appearance. Hematite is impregnated within this structure in varying amounts of 2-5% locally. Quartz plays an active role of 25-30% in the form of crosscutting fractures, seams and veins. Hence an overall whitish-red appearance. SPECULAR HEMATITE is present in the amount of 1% and occurs as seams and enveloping small quartz patches. PYRITE occurs as disseminations, fine granular masses and as visible cubes. This occurs locally in the amount of 1-5%.	8197		70.0	73.1	3.1			Au		
			8198		73.1	77.0	3.11			0.02		
			8199		77.0	79.0	2.0			Nil		
			8200		79.0	84.2	5.2			0.002		
84.2	97.0	A fine-grained greenish rock similar to the unit from 29.0-70.0'. Quartz and quartz-carbonate veining-2%. Epidote is impregnated in the rock with thin seams. PYRITE occurs in the amount of 1% in a disseminated state. This unit is weakly- to moderately- fractured. From 91.3-93.0' quartz has increased to 15% but no increase in sulphides. This whole unit is weakly- to moderately-magnetic.	8201		84.2	87.0	2.10			0.002		
			8202		87.0	91.3	4.3			0.005		
			8203		91.3	97.0	5.9			0.005		
97.0	122.0	POLYMICTIC METACONGLOMERATE. This unit has a brecciated to gneissic flattened appearance. Quartz bands are primarily 50° to core axis. This unit is fairly soft at 5 except locally where more quartz is present. SPECULAR HEMATITE is present as small seams (less than 1mm) in a total of 1%. PYRITE occurs as fine-grained disseminations in a total amount of 1-1½%. The quartz pebbles appear flattened and mafic pebbles appear as small (1-3mm) inclusions. Sericite has also been intro-	8204		97.0	102.5	5.5			0.05		
			8205		102.5	107.0	4.7			0.005		
			8206		107.0	111.7	4.7			0.01		
			8207		111.7	116.2	4.7			0.005		
			8208		117.9	122.6	4.9			0.01		

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. _____ LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 83-B13 SHEET NO. 3

REMARKS _____

LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
122.0	161.0	duced in an amount of locally up to 5%. This rock is probably calcareous, due to carbonate and calcite seaming.	8209		122.6	125.10	3.4			Au	
		As prior to this, a polymictic-metaconglomerate. Almost gneissic in appearance, this unit varies in silica and carbonate content locally as does hardness of 5-6.5. The quartz and mafic pebbles have the flattened appearance. Sericite is not as evident as in the last unit. Mafic pebbles make up the primary constituent of this unit. Quartz occurs as pinkish veins and white pebbles up to ½" in size. PYRITE occurs as fine-grained disseminations in the amount of 1-2%.	8210		125.10	130.4	4.6			0.03	
			8211		130.4	136.0	5.8			0.05	
			8212		143.0	147.7	4.7			0.03	
			8213		147.7	151.10	4.3			0.002	
			8214		151.10	155.4	3.6			0.03	
			8215		155.4	158.0	2.8			0.03	
			8454		158.0	163.2	5.2			0.04	
										0.01	
161.0	185.5	META SEDIMENT. This unit is greenish-yellow in colour and shows fine to irregular laminations. Pebbles of a granitic texture are now evident and are visible up to 1" in size. A ½" jasper fragment is visible at 176.0'. The quartz pebbles have the flattened appearance. A large quartz vein is present from 163.2-164.0'. Quartz is the primary constituent of 40%, but it is contaminated and altered to a greyish colour. PYRITE is present in this vein at 10% in the form of seams and disseminations. Sericite is also more evident here in the amount of 15-20%. Overall PYRITE content is ½-1%.	8216		163.2	164.6	1.4			0.09	
185.5	201.0	Greenish SERICITE SCHIST. This zone shows fine to irregular laminations. A ¼" jasper fragment is present at 188.5'. Minor ones of less than 1mm are also present but occurring in the amount of less than ½%. PYRITE occurs -less than ½%. Quartz pebbles are also present and are flattened. This whole unit is soft at 5.	8217		186.10	192.2	5.4			0.002	
			8218		192.2	197.0	4.10			Nil	
201.0	211.0	META TUFF. Greyish tuff with 3-5% sericite laminations. 3½" quartz pebbles with 5% quartz seams. SULPHIDES less than ½%.									

LANGRIDGES - TORONTO - 366-1168

EOH

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B14 LENGTH 225.0 feet
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 17+00 W DEPARTURE 1+10S
 ELEVATION 986' AZIMUTH 342 DIP -40
 STARTED Sept. 22 '83 FINISHED Sept. 23 '83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
225	-35				

HOLE NO. 83-B14 SHEET NO. 1
 REMARKS BO 1 7/16"

LOGGED BY DON OLIVER *per*
B. Kowalski

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0.0	28.0	CASING										
28.0	50.0	Fine-grained greenish andesite tending toward dacite. This zone is weakly fractured with quartz as a filler. 5% quartz seaming and veining are 1-2mm in width and are white to pink in colour. One faint halo of hematite is evident at 38.0' a 1/2" in width. Epidote is more visably impregnated within the rock at 47.0' downhole. PYRITE makes up less than 1/2% of the unit. Carbonate filling is less than 1%. This mafic volcanic has a hardness of 6-6 1/2 and is weakly- to moderately-magnetic.										
50.0	72.0	The groundmass of this unit is the same original texture as above, but it is more fractured and siliceous. Quartz and quartz-carbonate are the fillers (5-10%) with a general impregnation of epidote. This occurs locally (1-5%) except at 59.0'-60.0', where there is 10-15% breccia fragmental epidote. The fractures in this epidote zone are pink carbonate filled. The epidote also appears in the form of wispy patches up to 5". PYRITE -less than 1/2% except at 60.3'-60.6' where 10% is included in a 3" quartz vein. This quartz has pink carbonate as a fracture filling. This zone is weakly magnetic, indicating the absence of magnetite. Hardness 6-6 1/2.										
72.0	88.4	TRANSITION ZONE: This zone is beginning to take on a more fractured fragmental-brecciated appearance with the introduction of more hematite-15%. This zone is quite siliceous with quartz and pinkish quartz veins and fracture fillings. Five percent carbonate occurs in this unit. The fractures and veins are all crosscutting indicating the beginning of the breccia zone. PYRITE content varies 1-5%; it generally occurs as disseminations in the hematite or as	8219		70.3	73.3	3.3				Nil	
			8220		73.3	77.0	3.9				0.08	
			8221		77.0	81.3	4.3				0.03	
			8222		81.3	85.0	3.9				0.18	
			8223		85.0	88.4	3.4				0.03	

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B14 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
		cubes along quartz seams. Epidote impregantion is still visable locally from 1-2%. The hematite occurs as seams, veins and fragments.	8224		88.4	91.0	2.8			0.17	Ag
88.4	107.0	HEMATIZED REDDISH BRECCIA ZONE. This zone has a high silica content, except from 99.0'-101.1' it is uniform in the brecciated appearance. Quartz content is approximately 30-35%; epidote has been introduced (20%) from 99.0'-101.1' giving it a green appearance compared to red. Chlorite is also present (1-2%) as micro seams. PYRITE occurs as seams and disseminations 3-5%. This zone is weakly magnetic and has a general hardness of 6.	8225		91.0	96.5	5.5			0.34	0.21
			8226		96.5	99.0	2.7			0.08	
			8227		99.0	101.1	2.1			0.12	
			8228		101.1	107.0	5.11			0.09	
107.0	127.0	POLYMICTIC METACONGLOMERATE. Locally this would be gneissic but the overall effect of flattened pebbles makes it a conglomerate. Quartz occurs as seams, veins, flattened pebbles 15-20%. From 110.7'-112.6' quartz 40% is mixed with hematite and volcanic waste. PYRITE content in this quartz sections varies less than 5%. Chlorite also occurs as lmm seams in the amount of 5% carbonate filled fractures are present as well as quartz-carbonate fillings. Hematite occurs as fragments up to 1/2" but mainly as seams or veins 5%. Overall mafic and quartz pebbles are the primary constituents. PYRITE occurs as disseminations in the amount of 1/2-1%. This unit is non- to weakly-magnetic and a general hardness of 6 is apparant except where chlorite and carbonate veining is present.	8229		107.0	110.7	3.7			0.005	
			8230		110.7	112.6	1.11			0.15	
			8231		112.6	117.0	4.6			0.03	
			8232		117.0	121.2	4.2			0.03	
			8233		121.2	125.6	4.4			0.005	
			8234		125.6	129.10	4.4			0.005	
			8235		129.10	134.4	5.6			0.06	
127.0	167.0	POLYMICTIC METACONGLOMERATE. Locally gneissic appearance to flattened pebbles. As before, quartz and volcanic pebbles are the main components. Hematite (5-10%) occurs as fragments, fracture fillings and micro-seams. Quartz-carbonate and carbonate fills other fractures in the amount of 10-15%. Micro-seams are also filled by black specular hematite, 1%. 60-70% of the pebbles exhibit flattened and contorted formations. PYRITE 1-2% occurs as fine-grained micro-seams. This zone is weakly magnetic.	8236		134.4	139.3	4.11			0.02	
			8237		139.3	144.0	4.9			0.002	
			8238		144.0	148.10	4.10			0.002	
			8239		148.10	154	5.2			0.02	
			8240		154.0	158.9	4.9			0.01	
			8241		158.9	164.2	5.5			0.06	
			8242		164.2	169.1	4.11			0.17	

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B14 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH. IDES	FOOTAGE			%	%	OZ./TON	OZ./TON
					FROM	TO	TOTAL				
167.0	186.0	METASEDIMENTS. This rock is brownish-grey to green in colour. Laminations are fine to irregular. A large 5" cobble is present at 182.0'-quartz and reddish siliceous material. Jasper is present at 183.0'-½" fragment. Volcanic waste is almost absent except at 109.0' where a 3" cobble is present. Quartz-carbonate compose 25-30% of the laminations. PYRITE ½-1% occurs as fine-grained microseams. The overall foliation in this zone is 50°-60° to the core axis. The hardness of this unit is 5-6.	8243		169.1	174.3	5.2			Au	
			8244		174.3	177.0	2.9			0.02	
			8245		177.0	182.10	5.10			0.01	
186.0	192.7	METASEDIMENTS as above but more greenish in colour due to more sediment material. Three cobbles of 4" are visible with a granitic texture. Laminations are as before- fine to irregular. Small jasper blebs are also noted ½"; but are few in number. Downhole at 190.0' sericite is present as prior to this, it constitutes 1-5% of this unit. Foliation is now at 60°-70° to core axis. PYRITE content is less than ½% and no hematite is noted. The overall hardness is 5-5½. Quartz cobbles and laminations make up approximately 15-20% of this unit.									
192.7	223.0	SERICITIC UNIT. Sericite composes 60% of this unit and shows fine to irregular laminations. Minor jasper blebs of less than 1mm and less than 1% are present. Small sections of no more than 4" have a more tuffaceous appearance than sericitic banding. However, the banding is still 60°-70° to core axis. A few quartzitic cobbles of 3" are present and total quartz content is approximately 25%. This unit has a general hardness of 5-5½ depending on quartz presence. NO VISIBLE PYRITE.	8455		218.5	223.0	4.7			0.03	
223.0	225.0	Quartz-banded TUFFACEOUS ZONE. Sericitic content 20%; quartz makes up 15-20% and bands of ½" are 75° to core axis. This unit has the appearance of a lapilli-tuff. NO VISIBLE PYRITE and has a general hardness of 5.5.									
225.0	EOH										

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B15 LENGTH 100 feet
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 15+56W DEPARTURE 0+67S
 ELEVATION 997' AZIMUTH 161 DIP -45
 STARTED Sept. 23 '83 FINISHED Sept. 24 '83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 83-B15 SHEET NO. 1
 REMARKS BQ 1 7/16"

LOGGED BY PENTTI LASSILA
@Kawalski

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON		
					FROM	TO					TOTAL	
0.0	100.0	<p>Fine-grained, grey-green well fractured to brecciated volcanic, with quartz, quartz-calcite fracture filling seaming and veining. Variably hematized; includes weakly- to strongly-hematized (faint pinkish to brick reddish) fine (1mm-4mm) irregular variably oriented crosscutting seams, mottled reddish impregnations into volcanic material, and as brecciated fragments in a 'dirty' quartz and quartz-calcite matrix. At many locations 'younger' non-hematized white quartz and quartz-carbonate seamlets cut through an older generation of well hematized seams. It is evident that at least some of the more intense brecciation occurred after the hematitic silicification was completed and possibly much of the white quartz-carbonate fracture filling throughout the volcanic pile occurred subsequent to the period of hematitic silicification.</p> <p>The above note in this log characterizes the zone as hole and is discussed here as these aspects are well exhibited in the two side by side holes of BQ and NQ core.</p> <p>The "groundmass" rock is a grey green volcanic, meta-andesite to metabasalt in composition which has been variably altered by secondary silicification and hematization. In the most heavily altered breccia the mafic components have been completely replaced by brick red hematitic silica.</p> <p>PYRITIZATION is most heavy concentrated along the contacts of hematite zones enveloping white quartz and appears to be mainly (but not totally) secondary to the red silica (e.g. post hematitic introduction). Local concentrations of disseminated euhedral cubic pyrite 1-1½mm</p>	8172		7.0	9.0	2.0				Au	0.03
			8173		9.0	11.4	2.4					0.03
			8174		11.4	15.4	4.0					0.04
			8175		15.4	21.5	6.1					0.03
			8176		21.5	26.5	5.0					0.01
			8177		31.0	32.4	1.4					0.005
			8178		34.1	35.4	1.3					0.02
			8179		42.0	47.0	5.0					0.005
			8180		47.0	53.0	6.0					0.005
			8181		53.0	60.0	7.0					0.09
			8182		63.0	64.0	1.0					0.09
			8183		70.0	73.5	3.5					0.002
			8184		88.0	92.0	4.0					Nil

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B15

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPH. IDES	FOOTAGE			%	%	OZ./TON	OZ./TON
					FROM	TO	TOTAL				
EOH		up to 4-5% of the rock in the silicic zones are common. Weakly to moderately magnetic except in reddish silicified zones. Epidote alteration along fractures between 43-54feet. Weakly to moderately calcareous groundmass; moderately to strongly calcareous along quartz-carbonate seams-veinlets. Grades into fine-grained meta-diorite downhole from 73ft.								Au	

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B16 LENGTH 66ft.
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 15+55W DEPARTURE 0+67S
 ELEVATION 997' AZIMUTH 161 DIP -45
 STARTED Sept. 24 '83 FINISHED Sept. 24 '83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0'	-45°				

HOLE NO. 83-B16 SHEET NO. 1
 REMARKS NO 1 7/8"
 LOGGED BY PENTI LASSILA *per*
B. Kawaloki

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO					TOTAL
0.0	66.0	Same as 83-B15. Fine-grained, grey-green well fractured to brecciated volcanic, with quartz, quartz-calcite fracture filling seaming and veining. Variably hematized; includes weakly to strongly-hematized (faint pinkish to brick reddish) fine (1-4mm) irregular variably oriented crosscutting seams, mottled reddish impregnations into volcanic material, and as brecciated fragments in a 'dirty' quartz and quartz-calcite matrix. At many locations 'younger' non-hematized white quartz and quartz-carbonate seamlets cut through an older generation of well hematized seams. It is evident that at least some of the more intense brecciation occurred after the hematitic-silicic alteration was completed and possibly much of the white quartz-carbonate fracture filling throughout the volcanic pile occurred subsequent to the period of hematitic silicification. The above note in this log characterizes the zone as hole and is discussed here as these aspects are well exhibited in the two side by side holes of BQ and NQ core. The "groundmass" rock is a grey-green volcanic, meta-andesite to metabasalt in composition which has been variably altered by secondary silicification and hematization. In the most heavily altered breccia the mafic components have been completely replaced by brick red hematitic silica. PYRITIZATION is most heavy concentrated along the contacts of hematite zones enveloping white quartz and appears to be mainly (but not totally) secondary to the red silica (e.g. post hematitic introduction). Local concentrations of disseminated euhedral cubic pyrite 1-1½mm, up to 4-5%	8161		7.0	9.0	2.0			Au	Ag
			8162		9.0	11.5	2.5			0.12	
			8163		11.5	14.8	3.2			0.002	
			8164		14.8	20.2	5.6			0.08	
			8165		20.2	23.0	2.10			0.05	
			8166		26.6	28.0	1.6			0.02	
			8167		31.2	32.5	1.3			0.24	
			8168		37.0	43.0	6.0			0.20	
			8169		49.8	54.0	4.4			0.19	
			8170		57.0	62.0	5.0			0.06	
			8171		62.0	66.0	4.0			0.27	
										1.14	0.46

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B16

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPH. IDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
		<p>of the rock in the silicic zones are common.</p> <p>Weakly to moderately magnetic except in reddish silicified zones.</p> <p>Epidote alteration along fractures between 43-54feet.</p> <p>Weakly to moderately calcareous groundmass; moderately to strongly calcareous along quartz-carbonate seams-veinlets.</p> <p>Grades into fine-grained meta-diorite downhole from 73ft.</p> <p>From 57.0-66.0 ft. quartz vein with associated fragmented red silica alteration and 3-5% PYRITE follows downhole along core.</p>									

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B17 LENGTH 247 FEET
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 11+00W DEPARTURE 2+20S
 ELEVATION 1005' AZIMUTH 342 DIP -45
 STARTED SEPT. 24/83 FINISHED SEPT. 25/83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
247	-41				

HOLE NO. 83-B17 SHEET NO. 1
 REMARKS NO 1 7/8"

LOGGED BY P. LASSILA per B. Kowaloki

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON		
					FROM	TO	TOTAL						
0.0	6.0	Overburden, Casing											
0.0	10.0												
10.0	138.2	<p>Heavily fractured to brecciated grey to grey-green mafic volcanic of andesitic composition which has been variably silicified and well laced with cross-cutting white quartz-carbonate fracture filling seams to 4mm thick. In part volcanic material has been intensely silicified with brick red hematitic silica (complete replacement of volcanic material in some breccia), which has been subsequently ? brecciated and fracture filled with whitish quartz and quartz-carbonate injections.</p> <p>Euhedral PYRITE is most abundantly concentrated in lenticular lineated disseminations along quartz and quartz-carbonate fracture filled seamlets (stockwork) in zones of red hematite breccia, but occurs disseminated in variable amounts (0.5% to 3.0%) throughout all the lithologic components.</p> <p>SPECULAR HEMATITE occasionally occurs in hairline fracture seams, in the most silicified sections, and cut most if not all lithological units (very minor amounts less than 1/2% in silicified sections). At a few locations specularite forms as thin black borders, between white injection quartz and red hematized fragments.</p> <p>Reddish hematization and coincident silicification of the mafic fragments is the most striking compositional feature. Both have very variable (weakly to nearly complete) impermiated-replaced-altered the mafic fragments, which as a result exhibit a polymerization of tints and shades ranging from grey-green to brick red</p>	8246		8.0	10.0	2.0				Au	Ag	
			8247		10.0	13.0	3.0				0.002		
			8248		17.0	19.5	2.5				0.005		
			8249		23.6	26.7	3.1				0.03		
			8250		28.2	32.0	3.8				0.02		
			8251		35.7	39.0	3.5				Nil		
			8252		41.1	46.7	5.6				0.01		
			8253		46.7	50.0	3.3				0.005		
			8254		52.1	57.0	4.9				0.03		
			8255		57.0	61.0	4.0				0.01		
			8256		61.0	66.0	5.0				0.04		
			8257		66.7	70.0	3.3				0.002		
			8258		70.0	73.5	3.5				0.002		
		8259		73.5	77.0	3.5				Nil			
		8260		77.0	80.3	3.3				Nil			

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B17

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ./TON	OZ./TON	
				FROM	TO	TOTAL					
		commonly with distinct boundaries but also interblending hues.	8261		80.3	83.7	3.4			0.002	
		Degree of fragmentation varies from intense to finely-brecciated reddish silicate material to coarsely-fragments welded mafic volcanic of rather uniform composition, with white quartz-calcitic seaming.	8262		85.0	87.5	2.5			Nil	
		Degree of foliation varies considerably from non-foliated breccia to well developed chloritic-sericitic schistose bands of light red, greenish to blackish material which appear with metasedimentary components incorporated into the volcanic material (example at 105 to 109 feet).	8263		88.8	92.0	3.2			Nil	
			8264		97.0	98.1	1.1			0.005	
			8265		98.1	101.0	2.9			0.002	
			8266		102.5	105.4	2.9			0.002	
			8267		105.4	106.1	0.9			0.12	
		Interpreted stages of development: 1) Andesitic to basaltic volcanic flows;	8268		106.1	109.8	3.7			0.005	
		2) Modest compressional fracturing and quartz-carbonate injection;	8269		111.5	114.2	2.9			0.002	
		3) Introduction of silica and hematite injection and continued brecciation;	8270		128.7	132.5	3.10			0.005	
		4) Extensive brecciation of all units including hematite altered material, with associated injection of white quartz-carbonate (post hematization period);	8271		133.5	137.3	3.10			Nil	
		5) Formation of specularite seams;									
		6) Final formation of secondary pyrite.									
		This unit is non- to weakly- magnetic uphole from 95ft.; Moderately calcareous groundmass, strongly calcareous fracture fillings.									
138.2	146.5	TRANSITION ZONE									
		Interblending of variably silicified, flattened, foliated altered, brecciated, non- to weakly- hematized volcanic fragments and polymitic metaconglomeritic material. Original fabric and texture completely obliterated:-fault melange- only pseudo texture indicating probable original identity remains; overall composition is dioritic to granitic: non-magnetic, weakly calcareous becoming noncalcareous downhole.	8272		138.2	140.2	2.0			0.002	
			8273		142.5	146.5	4.0			0.002	

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B17

SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPH. IDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
146.5	247.0	POLYMICHTIC METACONGLOMERATE (schistose to gneissic texture). Extremely flattened, foliated, sericitized to chloritized (minor) microbrecciated, recrystallized pebble to cobble size polymictic metaconglomerate. Poorly- to moderately well-sorted (in sericitized tuff pebble?-lapilli?- section) with variable and intermittent compositional changes of predominating clasts across section. Apparent tightly- to moderately-compacted (lower most portion with large cobbles in mainly arkosic matrix, coarse sericitic, quartz granule grey tuff-lapilli? sections to 1ft. thick in last 15 ft. of hole.								
	146.5-151.0	Interlayered lensy bands (pebbles); 30% brownish, 35% creamy greenish to brownish tinted, 30% dull grey to smokey grey, 5% green-all sericitic except green which is chloritic; over 40% quartz content; 3% disseminated lenses of PYRITE.	8274		146.5	151.0	4.5			0.02
	151.0-161.1	Dull grey banded (15% white quartz bands) quartz-dioritic; kaolinized?, 0.5% PYRITE.	8275		155.0	161.5	6.5			0.02
	161.1-163.1	Pink-green quartzitic and white quartzitic, minor subgreywacke (dark) to feldspathic arkose (grey) bands.	8276		161.5	163.1	2.6			0.05
	163.1-171.0	Creamy green (sericitic) and white quartz banded ½-1% PYRITE (meta-tuff?, lapilli?, felsic?).	8277		163.1	167.0	3.4			0.002
			8278		167.0	171.0	4.0			0.002
	171.0-174.5	Boudinaged whitish, light greyish and finely fragmented hematitic silica breccia, 5% PYRITE stringers and disseminations.	8279		171.0	174.5	3.5			0.31 0.21
	174.5-179.5	Light green to pinkish sericitic laminae; quartzitic (felsic metatuff-lapilli?); ½-1% PYRITE.	8280		174.5	178.5	4.0			0.005
			8281		178.5	179.5	1.0			0.06

DIAMOND DRILL RECORD

 NAME OF PROPERTY BROOKBANK

 HOLE NO. 83-B17

 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPH. IDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
		179.5-183.0 Greenish- green grey bnads, 20% white quartz bands, 10% chloritic schist.									
		183.0-184.0 Similar to 171.0-174.5ft.	8282		183.0	184.0	1.0			0.02	
		184.0-187.0 Similar to 179.5-183.0ft.									
		187.0-189.8 Mixture=sericite green, 5% black (specularite) 3% white to pinkish quartz, 30% light grey, 20% tan, 10% dark chlorite, 30% quartz breccia, 1-2% PYRITE, 1% thin SPECULARITE seams.	8283		187.0	189.8	2.8			0.02	
		189.8-193.5 Interlaminar green-grey, rusty brown, dirty white, pinkish brown, minor dark grey bands: 1% thin specularite seams; ½-1% PYRITE: Similar to 174.5-179.5 section.	8284		189.8	193.0	3.2			0.005	
		193.5-197.0 Boudinaged pinkish quartzitic breccia, fine greenish grey, whitish grey-brown flattened pebbles, grey quartzitic metatuff lapilli?, minor grey-black laminae.	8285		193.5	197.0	3.5			0.08	
		197.0-203.0 Mainly grey-green banded metaclasts (sericitic-chloritic schist) 20% white to pinkish brecciated silicic clasts.									
		203.0-214.0 Similar to section at 146.3 to 151ft. but more/grey (subarkosic) material: ½-1% PYRITE stringers and disseminations.	8286		203.0	207.0	4.0			0.07	
			8287		207.0	212.0	5.0			0.09	
		212.8-213.6 ft. black silicate with few specs of CHALCOPYRITE, 1% PYRITE.	8288		212.0	214.0	2.0			0.005	
		214.0-247.0 Mainly greenish metaclastics, locally mustard yellow-green sericite laminae and up to 30% whitish flattened brecciated quartz clasts.									
247.0		END OF HOLE									

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B18 LENGTH 307 FEET
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 14+00W DEPARTURE 1+75S
 ELEVATION 1005' AZIMUTH 032 DIP -40
 STARTED Sept. 25, '83 FINISHED Sept. 27, '83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
307	-35				
<i>cap. corrected</i>					

HOLE NO. 83-B18 SHEET NO. 1

REMARKS NO 1 7/8"

LOGGED BY DON OLIVER *ae*
B. Kawabata

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO					TOTAL
0.0	12.0	CASING									
12.0	42.7	12.0-15.0 Ground core 19.5-25.0 Ground core 26.5-28.9 Ground core Moderately fractured fine-grained greenish, weakly siliceous volcanic, (an andesite grading to a dacite in composition at 42.7'). The fractures (less than 10%) are quartz and quartz-carbonate filled. Other than this the unit is stable in uniformity as having a fine-grained groundmass. The only location of interest is 31.0'-32.4'; here 10% hematite is present in the form of seams intermixed with quartz seams in the amount of 15%. Associated with the quartz and hematite are visible pyrite cubes in the amount of approximately 10%. From 37.10' downhole, epidote is visibly impregnated in the host and also occurs as lmm seams in the amount of 10%. At 37.10' a 4" cavity is filled by quartz-carbonate. A high percentage of carbonate is present due to its rapid effervesence. But, only 1% PYRITE is present. The same situation occurs again at 39.0'. PYRITE content is 5% in this cavity.	8289		28.9	32.4	3.7			0.002	
			8290		37.10	39.0	1.2			Nil	
			8291		39.0	42.7	3.7			Nil	
42.7	73.0	This unit is more dacitic in composition. It is moderately fractured and silicified with a fine-grained greenish groundmass. Fractures are filled with quartz and quartz-carbonate (10-15%), epidote seams (10%) hematite (1%). Most of the epidote occurs as impregnations and spotting in the form of phenocrysts. At 42.7' a 10" cavity of pinkish quartz-carbonate is present with 3% PYRITE; 85% of the seams and veins are at 70-80°	8292		42.7	43.5	0.10			Nil	

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B18

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ./TON	OZ./TON
					FROM	TO	TOTAL				
		to the core axis. The remaining 15% are cross-cutting each other at various angles. This unit is locally low-to medium-in magnetics. Total sulphide content within the groundmass is ½-1%. NOTE: Three feet of ground core from 63.0'-66.0'. Total content of epidote in this unit is 20%.								Au	
73.0	110.0	Downhole to 82.10', this unit is similar to above except epidote is more visably present as impregantions rather than seams or phenocrysts. One micro-seam is present at 86.0' of 3" within a quartz vein which is either specularite or chlorite but is too small to positively identify. TOTAL SULPHIDE CONTENT IS ½-1%.	8293		82.1	87.0	4.11			0.14	
		Beginning at 82.10' downhole is a locally hematized zone (not brecciated) which alternates with hematitic enrichment (up to 30%) and moderately silicified volcanics. Hematite occurs as impregnation, wispy clots and seams-veins.	8294		87.0	91.9	4.9			0.01	
			8295		91.9	97.0	5.3			Nil	
		From 97.0'-100.10' hematite occurs locally as a fragmental unit with lengths up to 4". Associated with the hematite is 1-3% euhedral, disseminated PYRITE. This whole unit appears more flow-banded than prior 73.0'. Alternating with the hematite zones are calcium enriched volcanics that are severely fractured with calcite and quartz as fillers. One-2% hematite is present within these volcanic sections as thin seams.	8296		97.0	100.1	3.1			0.002	
		The major calcium enrichment begins at 100.10' downhole. PYRITE content within the volcanics is ½-1%. Hence no such zone exists except an alternating sequence of hematite enrichment with calcium enriched volcanics, both bearing a stretched to flow banded appearance.	8297		103.10	104.5	0.7			0.002	
					108.6	109.9	1.3				
110.0	131.3	This unit is a quartz-carbonate moderately fracture-filled volcanic. Fine-grained greenish appearance of dacitic composition. Hematite (2-3%) is present in the form of wispy patches up to one inch in size to micro-seams and veins. Quartz and quartz-carbonate occurs as 10-15% in the form of seams and veins. These are primarily 70° to C/A and have a width of up to ½".									

LANGRIDGES - TORONTO - 368-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B18 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
		121.9-124.0. This unit is fragmented to brecciated containing 2-3% hematite. Seventy percent of the angular fragments are calcium, quartz and volcanic. PYRITE content within the fragmented zone is 1%. Overall content is ½-1%.	8298		121.9	124.0	2.3			0.14	
		124.0-131.3 contains a moderately fractured silicified greenish volcanic, (Dacitic). Fractures are quartz-carbonate filled and 70° to C/A. PYRITE content within this section is less than ½%.	8299		126.7	131.3	4.8			0.005	
131.3	145.8	This unit varies locally from a moderately hematitic-brecciated zone to a flow banded fragmental zone. Hematite (25-30%) is intermixed with epidote, quartz and carbonate. In the more intensely brecciated areas there are 1% micro-seams of SPECULARITE and locally 3-5% PYRITE occurring as disseminations and seams. This is an area of intense mineralization and silicification. Epidote occurs as wispy patches and veins in the amount of 10%. Most of the quartz veining shows evidence of being introduced at a later stage in the formation of this rock. Total PYRITE content is ½-1%.	8300		131.3	135.3	4.0			0.40	0.16
			8301		135.3	139.3	4.0			0.11	
			8302		139.3	143.0	3.9			0.005	
			8303		143.0	145.8	2.8			0.02	
			8304		145.8	147.9	2.1			0.005	
145.8	180.0	Up to 160.0' this dacitic unit alternates with (lengths up to 1.5'), highly silicified severely fractured areas. These contain epidote, locally up to 15%, overall hematite of 1-2%. Fractures are 80% filled by quartz and quartz-carbonate. PYRITE content varies from 1-15% in the form of disseminations and seams. Indication of the alterations and multiple cross-cutting fractures shows that this was an area of intense activity. This zone has been described as such, due to the complexity and irregular lengths of the two different occurrences. A final note should be that this whole unit is calcareous.	8305		147.9	150.9	3.0			0.03	
			8306		153.0	158.4	5.4			0.02	
			8307		163.0	167.0	4.0			0.02	
			8308		167.0	172.2	5.2			0.03	
			8309		172.2	174.1	1.11			0.005	
			8310		174.1	179.9	5.8			0.12	
			8311		179.9	183.0	3.3			0.15	
			8312		183.0	187.0	4.0			0.02	
180.0	194.0	This zone is a well silicified carbonate enriched fragmental (locally brecciated) to flow banded mildly hematized zone of volcanic origin. To 187.0' hematite is visible, 2-5%.									

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B18

SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO					TOTAL
		<p>Past 187.0' its presence drops to ½%, and hematite occurs as thin seams-veins and as impregnations within the groundmass. Quartz-carbonate occurs as 20-25% fracture fillings.</p> <p>From 187.0' downhole the texture is more of a flow-banded structure of a volcanic groundmass with quartz-carbonate filled fractures and veins. PYRITE seams and disseminations occur from 180.0'-187.0'=½-1% 187.0' downhole= ½% than</p> <p>This unit is also mildly sericitized 1%.</p>	8457		187.0	193.0	6.0			0.05	
194.0	215.0	<p>This zone begins to take on the appearance of a polymitic meta-conglomerate. This unit is mildly hematized, 2%, between 207.0'-210.6'. The greenish groundmass alternates between a fine- to medium- grained texture. Quartz and quartz-carbonate veins range up to ½" in width and occupy 20-25% of the rock. The angle of foliation is 75° to C/A. This unit is also mildly sericitized at 2% and PYRITE content varies locally from Nil to less than ½%, except from 207.0'-210.6'. This rock has a hardness of 5-5½.</p>	8314		207.0	210.6	3.6			Nil	
215.0	250.0	<p>This is a continuation of the polymictic metaconglomerate as above. The only difference is from 239.0'-243.8' where the texture would have to be called a schist due to its fine uniform banding 70° to C/A. Prior to this, the quartz and volcanic pebbles are visably flattened. Quartz-carbonate veining is also present in the amount of 20-25%; 70-80° to core axis.</p> <p>Between 229.0'-235.0' there is a slight impregnation of hematite in the amount of 3%.</p> <p>Throughout there is 3% sericite, except at 249.0' down-hole sericite is 15%. Total SULPHIDE content in this section is ½-1%. There is a general appearance of flattened quartz and volcanic pebbles as well as locally fine to irregular laminations. This whole section varies in hardnes from 5-6.5. This unit is non-magnetic and calcareous.</p>	8315		229.6	235.0	5.6			Nil	
			8316		239.0	243.8	4.8			Nil	

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B18 SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
250.0	263.0	This is a continuation of the polymictic metaconglomerate; 20% quartz and quartz-carbonate veins and seams. Volcanic pebbles are flattened and gneissic pebbles are noted. Sericitic content has dropped to 2% and not as evident as in previous unit.	9042		251.7	253.8	2.1			Nil	
			8317		253.8	258.6	4.10			0.07	
			8458		258.6	263.0	4.6			0.18	
			8459		263.0	265.7	2.7			0.002	
263.0	291.0	META-SEDIMENTS. Dark green in colour with quartz and quartz-carbonate veining and granitic cobbles (2-3%). Jasper fragments were noted at 279.0' and 283.0'. No visible SULPHIDES.									
291.0	307.0	SERICITIC UNIT. Granitic cobbles are noted; quartz-carbonate veining 75° to core axis; two jasper fragments were noted at 302.0' and 306.10'. NO VISIBLE SULPHIDES.									
307.0	EOH										

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B19 LENGTH 370 FEET
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 14+00W DEPARTURE 2+17S
 ELEVATION 1005 AZIMUTH 292 DIP -40
 STARTED SEPT. 27 '83 FINISHED SEPT. 29 '83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
370	-35				
<i>corp. corrected</i>					

HOLE NO. 83-B19 SHEET NO. 1

REMARKS NO 1 7/8"

LOGGED BY PENTI LASSILA

B. Kowalski

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0.0	6.0	CASING								
6.0	80.0	Well fractured to brecciated variably silicified mafic metavolcanic. Fine-grained light to dark green (hard), well fractured to intensely brecciated. Variably non-to moderately-magnetic. Essentially noncalcareous groundmass which is intricately cut by moderately to strongly calcareous (hairline) quartz-carbonate fracture fillings as well as many (5-10%) larger (up to 1/2 inch) quartz-calcite seams.	8319		31.0	33.5	2.5			0.002
		Well altered with epidote except for reddish hematized breccia sections. Epidote has replaced earlier calcite seams (now noncalcareous) as well as variably impregnated (saussaritized) much of the groundmass at some locations. Also formed as irregular halos enveloping reddish hematized siliceous fragmental which is localized as xenolithic fragmental breccia "patches" within the light green fractured volcanic.	8320		37.0	40.0	3.0			0.002
			8321		41.0	44.0	3.0			0.002
			8322		44.0	46.7	2.7			0.002
			8323		52.5	56.4	3.11			Nil
			8324		58.0	59.8	1.8			Nil
			8325		61.4	62.6	1.2			0.002
			8326		68.4	72.0	3.8			Nil
			8327		72.0	75.5	3.5			Nil
			8328		75.5	78.5	3.0			Nil
		SPECULAR HEMATITE occurs mainly as thin (1mm) seamlets along fractures and cuts most fracture filling components. Also occasionally forms "rims" on both sides of quartz-carbonate seams.								
		Several well brecciated stockwork-like quartz-carbonate fracture filled, moderately to strongly silicified, variably hematite altered sections, carrying up to 3% PYRITE locally, and ranging from a few inches to several feet across the section. Such segments occur at: 42.5'-43.5'; 44.0'-46.7'; 52.5'-56.4'; 58.0'-59.8 feet. The most silicic hematite altered zones are nonmagnetic and any primary magnetite has been altered to hematite.								

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B19 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH. IDES	FOOTAGE			%	%	OZ./TON	OZ./TON
					FROM	TO	TOTAL				
80.0	84.0	FAULT CRUSH BRECCIA: Extreme fracturing with 80% grey volcanic fragments of dacitic composition, 10% red-tinted to brick red hematitic fragments, 8% white quartz impregnation, 2% cubic disseminated pyrite to 1mm.	8329		80.5	84.0	3.7			Nil	
84.0	97.0	Fine-grained, hematite and calcitic seams within this metavolcanic, microbreccia-silicified to dacitic composition. Moderately to strongly magnetic. Light green epidote commonly rimmed with reddish hematite at several locations. PYRITE ½-2% locally.	8330		93.0	97.0	4.0			0.002	
97.0	179.0	FAULT CRUSH ZONE: Mainly silicified grey volcanic, with 10% to 50% quartz content and 2-7% disseminated PYRITE. Hematized in part but most hematite washed out during drilling: only 10% to 20% core recovery as small sub-rounded pebbles produced by polishing action during drilling, very incompetent rock probably as a result of fault crushing.	8331		97.0	102.0	5.0			Nil	
			8332		102.0	107.0	5.0			Nil	
			8333		107.0	112.0	5.0			0.002	
			8334		112.0	117.0	5.0			Nil	
			8335		117.0	122.0	5.0			0.002	
			8336		122.0	127.0	5.0			0.002	
			8337		127.0	131.0	4.0			Nil	
			8338		131.0	137.0	6.0			Nil	
		93-177 feet -- 74.5 feet core lost in 84 feet.	8339		137.0	142.0	5.0			Nil	
			8340		142.0	147.0	5.0			Nil	
179.0	254.5	Well fragmented grey metavolcanic of dacitic composition, in part brecciated, fine crosscutting quartz-carbonate fracture filling seams (abundant) usually associated with epidote from 179-187 feet. Only occasional very minor epidote seaming downhole from 187ft. Reddish hematite alteration commonly associated with quartz-carbonate seaming. Few quartz-carbonate seams rimmed with thin (1mm-2mm) specular hematite, also minor PYRITE associated with quartz-carbonate seams. Moderately-to strongly-magnetic throughout.	8341		147.0	153.0	6.0			Nil	
			8342		153.0	157.0	4.0			Nil	
			8343		157.0	167.0	10.0	sludge		0.01	
			8347		177.0	187.0	10.0	sludge		0.002	
			8348		189.0	191.0	3.0			Nil	
			8349		201.6	204.5	2.11			Nil	
			8350		247.0	249.5	2.5			0.13	
		Hematite alteration, minor SPECULARITE and locally up to 2% PYRITE at 189-191 and 201.6-204.5 feet.									
		247.0-249.5 Patch of white quartz veining well enveloped in heavy red hematitic silica-also 8" patch of 70% red brecciated hematitic silica and white quartz, both moderately to heavily PYRITIZED 2-5%. Several 1mm-2mm SPECULAR HEMATITE seamlets generally rimming quartz veining: Host rock grey hard dacitic volcanic.									

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B19 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
254.5	259.0	Very altered flow, foliated volcanic breccia with white quartz veining (10-18" patches). Variable hues of colour tinting from dark grey volcanic material to rusty red hues with creamy-yellowish-greenish hues as halo-like envelopes associated with quartz-carbonate injection. Very stretched foliated texture-fabric. Very light yellow-cream coloured alteration along white quartz features maybe kaolinization. Also minor black seamlets of specularite in quartz fractures. PYRITE occurs in all components, except white quartz, as disseminated stringers comprising 1-3% of rock.	8351		254.4	259.5	5.0			0.10	
259.0	279.0	Similar rock as 254.5-259ft but without quartz veining. Mainly (70%) medium to dark grey foliated moderately-to well chloritized (darker components) fragmental volcanic. Well fractured to brecciated and subsequently flow foliated. Increasingly sericitic in lighter coloured more felsic material. Considerable whitish-yellowish-light greenish alteration:fractured mottled texture. More siliceous well brecciated material generally contain yellowish-brownish to reddish hematite alterations commonly with minor (1-2%) PYRITE. Variably nonmagnetic to weakly magnetic. Light yellowish-buff-brownish-reddish hematitic breccia mainly concentrated at 268-269;270-270.7;272-279 feet and variably between 275-279 feet.	8459		263.0	265.7	2.7			0.002	
			8352		268.0	269.3	1.3			0.12	
			8353		270.0	274.0	4.0			0.02	
			8354		274.0	279.0	5.0			0.005	
279.0	296.0	Fragmented greenish altered metabasalt(?). Fine-grained well fragmented welded weakly mottled texture fabric, finely peppered with white calcitic metacrysts..to 1mm size. Variably laced with white-pinkish tinged calcitic seamlets. Nonmagnetic and weakly calcareous groundmass. One percent disseminated PYRITE. (weakly magnetic in spots 287 to 296 feet).									
296.0	297.0	Fractured white quartz with stringlets of disseminated PYRITE (1%) along seams.	8367		296.0	297.0	1.0			0.01	
297.0	320.5	Green fine-grained metabasalt. Fine-grain green mafic volcanic, variably peppered with small (1mm-2mm) white-greenish tinged altered									

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B19 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
		feldspar? phenocrysts. Heavily (10-15% of rock) laced with crosscutting quartz-carbonate seamlets. Fractured and foliated at 297 feet becoming massive at 310ft and increasingly foliated (chloritic) from 317-320.5ft.									
320.5	339.0	SCHISTOSE POLYMICTIC METACONGLOMERATE. Schistose, extremely flattened, lenticular frayed banding, completely recrystallized clastic material with some altered (sericitic) laminar enveloped boudinaged reddish silicic breccia (5-10% of rock), pale whitish-yellow-green dark grey, brownish hues intermixed and interblended due to alteration. Locally ½-2% disseminated PYRITE occurs mainly as stringlets parallel to foliation. Sericitic, chloritic, gneissic schist.	8355		320.5	324.5	4.0			0.01	
			8356		324.5	327.2	2.9			0.005	
			8357		327.2	328.6	1.4			0.04	
			8358		328.6	332.0	3.6			0.002	
			8359		332.0	334.2	2.2			0.12	
339.0	366.0	SILICEOUS PEBBLE METACONGLOMERATE. Extremely flattened, sericitized quartzitic pebbles in sericitic laminae. Pebbles well fractured to brecciated and elongated to several times width; forming a gneissic banded boudinage texture. In part (mainly between 342 and 356) "laminae" (matrix) contain heavily hematized reddish brown fine (1mm) siliceous fragments and very thin (hairline to 1mm) black laminae of very fine specularite? All material appears to be finely brecciated or fractured. PYRITE occurs as thin disseminated stringlets lineated parallel to foliation-banding. Generally ½-1% PYRITE and is most abundant (1-2%) between 345-346.5 ft.).	8360		334.2	339.0	4.10			0.002	
			8361		339.0	342.5	3.5			0.002	
			8362		342.5	346.5	4.0			0.002	
			8363		346.5	352.0	5.7			Nil	
			8364		352.0	356.0	4.0			0.04	
			8365		356.0	361.0	5.0			0.005	
			8366		361.0	366.0	5.0			0.01	
366.0	370.0	PEBBLE-COBBLE METACONGLOMERATE Similar to 339ft but contains large (cobble) clasts and is more mafic (30% dark grey material).									
370.0	EOH										

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B20 LENGTH 272.0 feet
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 23+00W DEPARTURE 2+60S
 ELEVATION 997' AZIMUTH 342 DIP -40
 STARTED Sept. 29 '83 FINISHED Sept. 30 '83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
272	-36				

HOLE NO. 83-B20 SHEET NO. 1

REMARKS NO 1 7/8"

LOGGED BY Don Oliver *per*

B. Kowalski

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0.0	42.0	In general, a fine-grained greenish dacite moderately fractured. This zone is moderately siliceous as fractures are filled by quartz and quartz-carbonate at 5-10%. Epidote occurs as 10% in the form of seams and impregnation. At 37.2' and 41.3' are 2" and 9" veins of reddish quartz-carbonate more in the form of cavity fillings. Total hematization percentage is 1%. At 10.0', 3' was ground to 13'. Total sulphide content is locally less than 1/2-1%. Note: from 24.0'-33.0' this hole shows evidence of having followed the previous hole. Hematite also occurs as micro phenocrysts haloed by epidote besides occurring as seams. This zone varied locally from weakly to moderately magnetic and has a hardness of 6. From evidence of previous holes, this zone can be considered to be a poor host for gold occurrence.										
42.0	75.0	This zone can be considered the same original host rock as above except it is more fractured with quartz, quartz-carbonate fillings than above. From 42.0'-58.0' hematite alteration has increased to 5% in the form of veins and seams. Downhole from 58.0' the hematite alteration has dropped to 1/2-1%. This whole unit is epidotized, heavily from 42'-55' where visible phenocrysts are seen and downhole where a general impregnation is evident. From 42'-55' the epidote (15%) also occurs as wispy patches up to 2" associated with the hematite veins. From 58'-58.4' is a section containing 85% quartz with hematized host rock. PYRITE content within the mentioned section is 1%. Total PYRITE content varies locally from 1-10%. This occurs as disseminated masses and micro seams. There is no set angle for a veining pattern as there is a complexity of cross-cutting. Hematite seaming is usually more stable at 80° to core axis. Associated with the saussuritized epidote phenocrysts are micro-calcite phenocrysts indicating a calcareous unit. This	X		55.0	58.6	3.6			0.002		
			X		60.7	63.9	2.2			Nil		

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B20 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPH. IDES	FOOTAGE		%	%	OZ. TON	OZ. TON
					FROM	TO				
		whole zone shows extensive alteration and metamorphism. Also this unit is locally weakly-to moderately- magnetic. This unit is locally 5.5-6 in hardness depending on silica and calcite content.								
75.0	93.0	This zone is of an andesitic to dacitic composition. It is moderately fractured with 10% quartz quartz-carbonate filled fractures and veins. There is less cross-cutting and more of a tendency to a 75° foliation to core axis. Hematite content has dropped to ½% with a general impregnation of epidote. PYRITE content is less than 1% and occurs as isolated fine-grained cubes. This unit is weakly-to moderately- magnetic and has a hardness of 6. This is a more stable appearing unit in uniformity compared to prior units.								
93.0	110.0	This is the contact between the hematized fragmental to locally brecciated zone. From 93'-98.5' there is a mild hematization at 3% compared to downhole at 5%. 107.5'-110' contains the best breccia compared to fragments prior to this. The fragmental zone is intermixed with volcanic waste, epidote seams and quartz-carbonate seaming. PYRITE occurrence is associated with the hematite and occurs as fine-grained masses, isolated cubes and micro seaming. Less than ½% of SPECULARITE micro-seaming is also visible. The hematite breccia ranges in size from 1-3mm. The fragments range in size up to ½". This also is an area of intense alteration with a hardness of 6.5, due to the silica content. From 102.5'-107.0' there is a purplish zone where magnetite has not been fully altered to hematite.	8375		94.9	98.5	3.8			0.03
			8376		98.5	102.5	5.0			0.02
			8377		102.5	107.5	5.0			Nil
			8378		107.5	110.0	2.7			0.02
110.0	141.9	This is a continuation of the siliceous hematized breccia zone. Downhole from 131.8' there is more showing of volcanic host rock indicating the near termination of this hematized zone. Prior to 131.8' there is 20% hematite occurring as seams, veins and breccia. There is approx. 20% quartz occurring as seams and veins mixed with the hematite. No epidote is visible and PYRITE occurrence varies locally from 2-10% in relation to hematite. Micro	8379		110.0	113.8	3.8			0.06
			8380		113.8	118.6	4.10			0.13
			8381		118.6	123.7	5.4			0.11
			8382		123.7	127.0	3.5			0.07
			8383		127.0	131.8	4.8			0.01

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B20 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH. IDES	FOOTAGE			%	%	OZ./TON	OZ./TON
					FROM	TO	TOTAL				
		seams are also visable in the amount of ½% of SPECULARITE. From 131.8-141.9' there is an increase of 10-25% mafic rock. Mixed with the volcanics are 15-20% quartz-carbonate veining. 1-5% PYRITE and less than ½% SPECULARITE occurs locally. Minor chloritic seams of 1% are also present. This zone has a hardness of 6.5 due to the silica content.	X		131.8	137.0	5.4			0.005	
			8384		137.0	141.9	4.9			0.01	
141.9	162.0	This is the beginning of polymictic metaconglomerate. There is still 2% hematite in this unit which occurs as ½" veins. 80% of this unit is of volcanic material with some laminating appearance of 75° to core axis. 18% is of quartz-carbonate in the form of veins and seams. PYRITE occurrence is in the form of disseminations in the amount of ½%. This unit has a hardness of 5.5-6 depending on the carbonate and silica. 5% of the volcanic material appears as flattened pebbles.	8460		141.9	147.0	5.3			0.005	
			8461		147.0	151.0	4.0			0.005	
			8462		151.0	154.0	3.0			0.01	
			8385		154.0	155.2	1.2			0.005	
			8463		155.2	157.8	2.6			0.002	
			8464		157.8	161.0	3.4			0.005	
162.0	185.0	This zone could be called a chlorite schist. 20% chlorite present but 3% is present at 182.0' downhole. The fine laminations are at 75° to core axis and alternates between chlorite and mafic material. Hematite occurrence is in the amount of 2% locally as impregnations. Quartz-carbonate seaming occupies 15% of the host rock. This appears to be a calcareous unit. PYRITE content less than ½%. The hardness is 5. Downhole from 182.0' this unit contains mafic laminations with 3% chlorite and 5-10% carbonates.	8465		166.0	168.5	2.5			0.01	
185.0	203.6	This is a continuation of the above unit but with more of an appearance of a polymictic conglomerate. There are fine to irregular laminations 75-80° to core axis with visably flattened quartz and mafic clasts. Slight hematitization is present in the form of impregnation of 3%. 15-20% of the veining or laminations are pinkish quartz and quartz-carbonate. Overall PYRITE content is ½-1% except locally at 3%. Minor seams of less than ½% are visable of SPECULARITE. Overall hardness is 6 due to silica content.	8388		186.0	190.6	4.6			0.005	
			8389		190.6	195.1	3.7			0.005	
			8390		195.1	199.9	4.8			0.002	
			8392		203.6	203.6	-			-	
			8393		210.1	210.1	-			-	
203.6	226.0	Pinkish sericite zone. At 207-208' the appearance is more of a volcanic schist. Overall however, is a sericite schist. Lamination alter between a green and pinkish sericite. Laminating is primarily fine with foliation 70° to core	8392		205.0	210.1	5.1			0.04	
			8393		210.1	214.5	4.4			0.005	

LANGRIDGES -- TORONTO -- 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B20 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ. TON	OZ. TON
					FROM	TO	TOTAL				
		axis. Carbonate seaming is also present in the amount of 10-15% volcanic waste is still evident at 1-2%. This zone has less than 1/2% visible PYRITE. It also has a hardness of 5.5. The PYRITE occurs as disseminations associated with the volcanic waste.	8466		224.0	225.8	1.8			0.02	
226.0	245.0	This is an intermixed zone of meta-sediments and a flattened sericite schist. The sedimentation laminations are fine to irregular and vary 60-75° to core axis. Two 1/2" jasper blebs are noted at 231.0' and 238.0'. A faint cobble of granite texture with a diameter of 2" is noted at 241.0'. At 233.0' downhole green sericite begins to occupy 25-30% of this unit. No SULPHIDES are visible.	8467		225.8	229.0	3.4			0.002	
245.0	272.0	This zone is an intermixture of a sericite schist (flattened) and a sericitic tuff with a fine-grained groundmass. In the flattened appearance quartz veins are pulled the length of the core in a contorted fashion. This occurrence is limited to the tuffaceous areas with sericite also pulled through the material. At 268.7' and 267.0' a 4" and 2" band of quartz are present but no related minerals. SULPHIDES are not noted within this unit.	8395		245.0	249.8	4.8			0.002	
EOH											

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B21 LENGTH 817 feet
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 24+00W DEPARTURE 5+03S
 ELEVATION 1020' AZIMUTH 342 DIP -65
 STARTED Oct. 16'83 FINISHED Oct. 22 '83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
400	-64				
786	-60				

HOLE NO. 83-B21 SHEET NO. 1

REMARKS NO 1 7/8"

LOGGED BY P.LASSILA AND D.OLIVER

per Barb K.

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO				
0.0	8.0	CASING								
8.0	112.0	Moderately silicified propylitized mafic volcanic. Fine-grained, dark green fractured volcanic, possibly in part originally a basalt which has been subsequently altered by introduction of quartz into the groundmass. Now mainly dacitic in composition, hard to scratch. Numerous fine irregularly oriented crosscutting fractures filled with quartz-carbonate, epidote and hematite apparently mainly in that sequence with occasional exceptions. Many quartz-carbonate seams are hematite rimmed commonly with associated PYRITE, some seams mainly epidote; the mainly hematitic seams usually cut the other structures. At 10-17' vesicular-like, calcite filled, epidote rimmed porphyroblasts indicate a possible vesicular basalt genesis. Groundmass is essentially noncalcareous, but fractures are calcareous, less so in epidotized seams and some noncalcareous hematitic sections. Generally weakly to moderately magnetic according to compositional variations, with the more siliceous zones being most magnetic, apparently caused by very finely disseminated magnetite. Compositional alteration variations, from non-saussaritized grey generally moderately to strongly magnetic dacite, to intensely saussaritized light green speckled (feldspars) dioritic(?) less magnetic sections intergrade intermittently throughout the unit.								
		The above unit contains several zones of heavy alterations, fracturing brecciation and crushing with introduction of quartz, calcite, epidote, hematite and PYRITE: main such sections are noted below: 32-36.5; Fault fractured to brecciated zone with heavy epidote swirls and seams 32-33.5', minor quartz-carbonate and reddish hematite alteration, minor PYRITE along	8468		32.0	36.5	4.5			0.002

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83 B21 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
		37.0-38.5;Fracture silicic PYRITIC (5%) volcanic and vuggy white quartz with 1% PYRITE.	8469		37.0	38.5	1.5			0.002	
		38.5-43.0;Brecciated to fault crushed moderately silicic light green volcanic, thin quartz-carbonate fracture infills,locally reddish hematitic, ½% PYRITE.	8470		38.5	43.0	4.7			Nil	
		51.5-53.5;Well fractured, heavy epidote swirls and seaming minor red hematitic seams, quartz-carbonate clots seamlets with 1% PYRITE.	8471		51.5	53.5	2.0			Nil	
		61.5-64.0;Fractured to brecciated volcanic with distinct rusty red hematite seams to ¼" thick (2%) quartz-carbonate and epidote seams-veinlets.Up to 3% PYRITE in hematite quartz carbonate fracture filling.	8472		61.6	64.0	2.6			0.002	
		64.0-81.0;Generally moderate to heavy saussaritization of feldspar lends to speckled pseudodiabasic texture due to greenish alteration of feldspar laths.									
		74.0-83.0;Distinct hairline fracture seams of rusty hematite.									
		83.0- 87.0;Relatively uniform massive grey dacite; moderately to strongly magnetic.									
		87.0-112.0;Considerable variation intermittently in degree of fracturing-brecciation, intensity of alteration and amount of alteration injection products as well as in compositional changes in groundmass material (groundmass is essentially dacitic).Only minor local epidote alteration.	8473		87.0	91.0	4.0			0.005	
			8474		91.0	95.0	4.0			Nil	
			8475		108.5	110.5	2.0			Nil	
112.0	117.0	Completely fault crushed crumbly material.Mixture of grey volcanic granules, reddish hematite fine (to 3mm) fragment and minor quartz-carbonate injection material, ½-1% PYRITE.	8476		112.0	115.5	3.5			0.005	
117.0	163.0	Fine grained, grey-green metavolcanic; very similar unit to that of 8-112' except that it is essentially nonmagnetic and epidote alteration is much less prominent and									

ANGRIGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B21 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
				FROM	TO	TOTAL				
		limited essentially to fractures. Goundmass is virtually noncalcareous and appears to be compositionally slightly more mafic (trending towards andesitic rather than dacitic). Except for a few locations epidotization is more and lighter in colour (clinozoisite?). Hematization is much less prominent and occurs as thin fracture filling seams. Main zones of quartz-carbonate veining with associated PYRITE and minor pinkish to reddish hematite and epidote occur at: 119.5-122.0; well fractured volcanic with 20% quartz-carbonate minor hematite and 1-2% associated PYRITE 141.5-144.5; well fragmented grey-green volcanic with 15% white to pinkish quartz-carbonate and 7% bright sea green epidote seaming, very minor (½%) reddish hematite, ½% PYRITE. 144.5-146.2; quartz veining (40%) epidote (20%) PYRITE ½%. Gradually grades to fine grained metadiorite at 163.0'.	8477	119.5	122.0	2.7			Nil	
			8478	141.5	144.5	3.0			Nil	
			8479	144.5	146.5	2.0			Nil	
163.0	177.0	Metadiorite; Saussaritized (speckled) metadiorite becomes downhole increasingly fragmented to flow foliated brecciated with lensy splashes of reddish hematite and lensy wispy calcite seams. Noncalcareous groundmass at 163' becomes strongly calcareous, moderately well foliated and chloritized below 170'.								
177.0	179.5	Hematized, chloritic, foliated, PYRITIFEROUS (1-2%), fragmented dark grey metavolcanic 177-178'. 178-179.5' mainly well fractured white quartz and lesser PYRITIFEROUS red hematite breccia (2% pyrite).	8480	177.0	179.5	2.5			0.002	
179.5	279.0	Greenish grey metadacite intergrades into fine grained diorite. Fine-green, greenish-grey to grey hard 5, massive volcanic, strongly calcareous 179.5-183', then continues downhole as non-to weakly-calcareous groundmass. Moderately to strongly magnetic throughout. Weakly- to locally- extensively fractured. Numerous thin (less than 2mm) irregular oriented quartz-carbonate seams and occasional veinlet to 1" thick. Commonly epidotized. Few thin SPECULARITE seamlets. Compositional and grain size variations range from metadacite-andesite to metadacite (diorite to quartz diorite) and intergrades indistinctly and variably throughout; otherwise a rather uniform massive unit except for some	8481	234.5	238.5	4.0			Nil	

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B21 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPH. IDES	FOOTAGE			%	%	OZ./TON	OZ./TON
					FROM	TO	TOTAL				
		intensely fractured, altered, silicified, PYRITIZED sections noted below.									
		234.5-238.5; Very fractured reddish tinged dull grey altered metavolcanic. Intensely finely fractured, tracholitic (?) metavolcanic with numerous, quartz-calcite-epidote filled irregular oriented hariline seams, prominent purplish-brown hematite-quartz-carbonate veinlet (altered pillow selvage?); rusty red, hematite quartz-calcite seams, white quartz and quartz-calcite veinlets to over 1/2" thick. Variable disseminated PYRITE locally to 3%.									
		245.0-247.0; Similar to section at 234.5-238.5' but also includes 3" section heavily laced with epidote.	8482		245.0	247.0	2.0			Nil	
279.0	304.0	Moderately silicified, very fractured, variable altered metavolcanic with compositional variations from metadiorite to metaquartzdiorite, very to fine medium grained, weakly to moderately magnetic. Groundmass non to weakly calcareous but with numerous calcareous fracture fillings. Alteration products appear to be mainly associated with the fracturing and exhibit extensive variation of combinations of alteration material including: quartz; quartz-calcite; quartz-calcite-epidote; quartz-calcite-hematite; quartz-calcite-hematite-epidote; epidote; and occasional SPECULARITE seams. Secondary PYRITE occurs in minor amounts with all alteration products but is generally most abundant in the silicic red-hematitic seamlets. Occasional CHALCOPYRITE blebs occur in the white quartz-carbonate. Fracture patterns are very irregularly oriented and commonly crossing. Locally weak foliation has developed along with a poorly developed linear fabric. Main zones of fracture filled alteration material: Occurs at 280.5-285.5'; 293.5-295.5'; 298.5-304'.	8483		280.5	285.5	5.0			Nil	
			8484		293.5	295.5	2.0			Nil	
			8485		298.5	304.0	5.7			Nil	
304.0	384.5	Metavolcanic; well fragmented to brecciated, fine grained, dull greenish to dark grey hues, nearly black chloritic fracture fillings (matrix), weakly flow foliated in part, hard 5, minor 5% quartz-carbonate seamlets, occasional quartz veinlet 1/2" to 1.6" thick commonly rimmed with									

LANGRIDGES -- TORONTO -- 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B21 SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
		hematite and PYRITE. Mainly intermediate in composition. Some quartz-calcite-hematite seamlets may be remanent pillow selvages. Mainly moderately magnetic and noncalcareous groundmass. From 358'-365'; 372'-373'; 378'-379' segregations and isolated small clots of PYRITE occur (approx 10%) from 363'-364'.	8486		332.0	335.0	3.0			0.002	
		382.5'-384.5' Foliated breccia zone; quartz-calcite and red hematitic silicate, clinozoisite 382.5'-383.5'; 20% PYRITE 383.5'-384.5' in black matrix hematitic silicic breccia.									
384.5	409.0	Fine-grained grey metavolcanic. Dacitic volcanic at 384.5' grades to grey meta-andesite(?) at 391'. Meta-andesite is softer (H4) and finely porphyritic with small (up to 1½mm) light greenish phenocrysts (saussaritized amygdules) and dark grey (chloritic) in colour. Weakly magnetic and noncalcareous groundmass. Moderately well laced with epidote fracture filling and lesser earlier small (to 3mm) quartz-carbonate seamlets. Pillow selvages well evident at 387.5', 391.0', 391.5', 393.5', 396', 398.4', 399.8', 400.5', 402', 403', 404', and 405.5'. Selvages range from ¼" to ½" thick and are filled epidotized quartz carbonate and minor (1%) PYRITE. Volcanic is weakly to locally well fractured.	8487		382.5	384.5	2.0			0.002	
409.0	433.0	Sharp contact with metadiorite. Massive uniform unit, robin's egg green peppered texture due to light greenish saussaritized feldspar laths (to 2mm). Medium grained dark green mafic minerals and light green laths exhibit diabasic texture. Occasional epidote seams and rare quartz-carbonate veinlets. Weakly magnetic, noncalcareous.									
433.0	471.0	Metadiorite as above but exhibits considerable variation (integration) in grain size from medium grained peppered texture to smooth fine grained massive grey green volcanic. The finer grained components also are harder and apparently slightly more siliceous. The groundmass is noncalcareous and weakly to locally moderately magnetic. The section is well laced with light green alteration products (clinozoisite) and several quartz and quartz-carbonate veinlets ¼" to 1" thick.									

DIAMOND DRILL RECORD

NAME OF PROPERTY, BROOKBANK

HOLE NO. 83 B21

SHEET NO. 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ./TON	OZ./TON
					FROM	TO	TOTAL				
471.0	520.0	Metadiorite:same as at section 409-433' except for minor variations in grain size and composition.Essentially non-magnetic and noncalcareous except for occasional quartz-carbonate seam. Becomes slightly chloritic downhole from 480'.Below 500' saussaritization fades out and apparently kaloni zation replaces it.									
520.0	550.0	Meta-diorite;texture varies from medium to coarse-grained.Essentially non quartzitic except for minor veins, and a 2" band at 524'.Epidote occurs as wispy blebs and saussaritized spots, in the amount of 3%.Associated hematite seams are less than 1%.This unit is low in magnetics.One 7" quartz carbonate vein is at 542' but no sulphides are noted,except less than 1%.	8488		540.4	542.0	2.8			Nil	
550.0	607.0	Diorite; coarse salt and pepper texture becoming finer grained 57.2' downhole.Greenish in colour with a high percentage of mafic minerals.Quartz-carbonate seaming is very minimal at less than 1%.This unit is non-magnetic and contains epidote at less than 1/2%.Hardness is varying from 5-6.This is a very uniform unit.No sulphides are noted.	8489		554.5	559.4	4.11			Nil	
607.0	628.5	This unit is becoming a metadiorite as more quartz is beginning to appear.The groundmass is still greenish-grey with a medium to coarse grained texture.Thin quartz-carbonate seams and veins are 60-70" to core axis., and occur in the amount of 5%.A large vuggy quartz-carbonate zone is present from 619-621'.This has a minor percentage of PYRITE (less than 1/2%) downhole from 623' the thin quartz-carbonate seams begin to cross-cut each other.Sulphides are not noted except in assoication with the large quartz-carbonate zone.The hardness of this unit varies from 5-5.5.This zone is also low in magnetics indicating a low magnetite percentage.A fairly uniform unit.	8490		619.0	622.7	3.7			Nil	
628.5	674.5	This is basically the same rock type as above.This is more of a coarse-grained texture and is greenish-grey in colour.Another large quartz zone is present from 629.5-632. where quartz varies from 50% upwards.However, sulphide content is less than 1/2%.To 654' quartz-carbonate thin									

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B21 SHEET NO. 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH. IDES	FROM	TO	TOTAL	%	%	OZ./TON	OZ./TON
		seams occupy 3% of the host, but downhole from 654' the quartz-carbonate seams and veins occupy 10-15% of the rock. These vary up to 1/4" in width. PYRITE content is generally less than 1/2% but locally occurs as 1/2-1% as disseminations. The quartz carbonate veins have a flattened and pulled downhole appearance. This unit is generally low to nonmagnetic and has a hardness of 5-5.5. From 672-673' small seams of hematite appear and occupy 2-3% of the host. In 629-631.5 small CHALOPYRITE bleb.	8491		629.0	631.5	2.5			Nil	
			8492		670.0	673.0	3.0			Nil	
673.0	682.5	Contact with reddish hematized brecciated zone. This zone exhibits microbrecciation laced with thin PYRITE seams. Total PYRITE content is approx. 3%. This is in the form of disseminations and seams. Hematite occupies 20-25% of this unit and microseams of 1-2% of SPECULARITE. This unit is very hard at 6-6.5.	8493		673.0	678.0	5.0			Nil	
			8494		678.0	682.5	4.5			0.002	
682.5	698.5	This unit has the appearance of a siliceous polymictic meta-conglomerate. Flattened quartz pebbles are evident while hematite is present in the amount of 10% in the form of seams and veins. PYRITE occurs as disseminations in the amount of 1/2-1%. Angle of foliation (gneissic like) are 65-70 to core axis. This unit is hard due to quartz.	8495		682.5	687.0	4.7			Nil	
			8496		687.0	692.0	5.0			Nil	
			8497		692.0	694.7	2.7			0.002	
			8498		694.7	698.5	3.10			0.09	
698.5	727.0	This zone is more of the reddish hematized brecciated zone. This shows good brecciated fragments. Hematite and quartz are the main constituents in this zone and each are represented equally. PYRITE content ranges from overall 5% locally 7%. This occurs as microseams and disseminations. SPECULARITE occurs as less than 1/2% as micro seams.	8499		698.5	702.9	4.4			0.02	
			8500		702.9	706.9	4.0			0.005	
			8501		706.9	710.0	3.3			0.005	
			8502		710.0	715.0	5.0			0.03	
			8503		715.0	720.0	5.0			0.08	
			8504		720.0	725.0	5.0			0.005	
727.0	757.0	This is more of the polymictic metaconglomerate. This is darker in colour (grey-white) due to decrease of hematite. The percentage now is overall 3-5%. This unit is gneissic in appearance due to foliations 70°-75° to core axis. Flattened quartz pebbles are evident as well as volcanic waste. One large 4" quartz pebble is present at 750'. PYRITE is evident as disseminations and micro seams locally 1-2%. Light green sericite is present as laminations in the amount of 1%.	8505		725.0	728.1	3.1			Nil	
			8506		728.1	730.6	2.5			Nil	
			8507		730.6	734.0	3.6			Nil	
			8508		734.0	737.0	3.0			Nil	
			8509		750.0	753.0	3.0			0.09	
			8510		753.0	756.0	3.0			Nil	
			8521		748.3	753.3	5.0			0.02	

LANGRIDGES - TORONTO - 356-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B21 SHEET NO. 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH. IDES	FOOTAGE			%	%	OZ./TON	OZ./TON
					FROM	TO	TOTAL				
		NOTE: CORE BARREL LOST AT 757' WEDGE PUT IN AT 748'.									
757.0	772.0	This zone is a continuation of the polymictic to iron formation. Downhole from 744' sericite begins to make a more noticeable appearance at 5-10%. Volcanic material alternates with quartz-carbonated throughout with the presence of red silicic material, locally less than 10%. Micro seams of PYRITE generally occurs in association with the more silicic zones and in the amount of less than 5%. There is quite a degree of variance locally with the sericite, volcanics, silica, to a PYRITE enriched siliceous zone to the opposite. Carbonate % is low according to acid test.	8522		757.0	759.4	2.4			0.03	
			8523		763.0	766.6	3.6			0.05	
			8524		766.6	769.9	3.3			0.10	
772.0	796.9	This is a continuation of the above zone and is quite similar with the exception of the introduction of sediment material locally. This is still the iron formation, gneissic looking due to banding. Sericite (pinkish looking) is present as 10-15% in the form of slips. PYRITE occurs as disseminations and micro seams, locally up to 5%.	8525		769.9	775.0	5.3			0.02	
			8526		775.0	779.0	4.0			0.04	
			8527		786.0	789.0	3.0			Nil	
796.9	817.0	Contact with metasediment zone. Granitic cobbles up to 4" in diameter are present as well as a few jasper fragments up to ½". PYRITE content has dropped to less than ½%. Downhole from 810' local zones of tuffaceous material is present.									
EOH											

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B22 LENGTH 807 feet
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 28+00W DEPARTURE 5+00S
 ELEVATION 1037' AZIMUTH 342 DIP -65
 STARTED Oct. 22 '83 FINISHED Oct. 26 '83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
400	-65				
807	-60				

HOLE NO. 83-B22 SHEET NO. 1

REMARKS NO 1 7/8"

LOGGED BY DON OLIVER
Barb K

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	10.0	CASING									
10.0	65.0	Severely fractured grey-green volcanic with fractures filled by quartz-carbonate 10-15%, epidote 5%, hematite 1-2%. Ground core is evident from 13-15': From 36-38' is a rusty vuggy section with quartz-carbonate and less than 1% PYRITE. Epidote is also present at 20% as impregnations Overall PYRITE content is less than 1/2% to 1%. In general this unit could be classed as a meta-basalt to a dacite. The severe fracturing occurs at every angle and shows cross fracturing. Hardness is 6.	8528		36.0	38.0	2.0			0.002	
65.0	85.0	Downhole from 65' this basically continuous unit shows only moderate fracturing filled by quartz-carbonate 5%, epidote 5% and reddish silica at 1-2%. Epidote is also present at 10-15% as impregnation and occurring as wispy clots. These clots are sometimes enveloped by reddish silica. The most prominent angle to the core axis is 45-50°. This unit is also grading towards a meta-basalt-dacite. Overall PYRITE content is less than 1/2% with a hardness of 5.5-6. The epidote gives the core a salt and pepper (green) coarse grained appearance. This occurs in local areas of heavy concentration. No veins or fractures are larger than 1/2".									
85.0	100.0	This unit is also moderately fractured but is more fine-grained than above. This zone shows variance in composition from a basalt to an andesite more andesitic looking now. PYRITE content is less than 1% and occurs as micro-disseminations. Fractures are primarily filled by epidote as quartz-carbonate occurs in the amount of less than 5%.									
100.0	137.0	This is a fine-grained greenish grey unit (dacite) looking. This is similar to the above unit with the moderate fracturing filled by quartz-carbonate 10%, epidote 5-10%									

LANGRIDGES - TORONTO - 366-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B22 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ./TON	OZ./TON
					FROM	TO	TOTAL				
		and pinkish silica 1-2%. Most evident fractures are 45°-55° to core axis. This unit is hard at 5.5-6 and sulphides occurring in disseminations, less than ½%. Downhole from 115' epidote has increased to more wispy clots up to 3" in width, and saussuritization is evident. The wispy clots tend to enclose quartz-carbonates within.									
137.0	176.0	This is also a dacitic rock, locally moderately to severely fractured. This greenish grey in colour and fractures are quartz-carbonate, epidote and pinkish silica filled. From 144'-147' and 149'-152' samples were taken due to fractured rusty appearance. PYRITE content within these two zones range from 1-3%. Outside the sampled zones PYRITE content is nil to ½%. Fracturing is generally 45°-50° to core axis and this zone also features cross-fracturing. The hardness is 5.5-6. Epidote is once again the prominent figure as it is impregnated and large phenocrysts are visible.	8529		144.0	147.0	3.0			0.002	
			8530		149.0	152.0	3.0			0.002	
176.0	211.0	As above a fine-grained greenish grey rock. Epidote is the dominant figure again as it occurs as heavy impregnation and wispy clots. This is also a moderately fractured zone with quartz-carbonate at 5-7% as a filler along with epidote at 15-20%. A vuggy section from 203'-205' was sampled due to rusty appearance and sulphide content at 1-2%. Overall content is ½-1% PYRITE occurring as disseminations. This zone is also hard at 6 and the dominant fracturing system is 50° to core axis.	8531		203.0	205.0	2.0			Nil	
211.0	250.0	Dacitic metavolcanic; fine grained, grey-green hard 5-6. Locally intensely silicified, locally well fractured to brecciated. Quartz carbonate fracture fillings to ½" thick. Epidote (10%) as wispy clots and impregnations into ground mass, also as rims commonly associated with hematite along quartz-carbonate seams. 242'-247.5' ground core containing 5-10% disseminated PYRITE.	8532		213.0	214.9	1.9			0.002	
			8533		220.5	225.5	5.0			Nil	
			8534		225.5	228.0	2.7			Nil	
			8535		233.0	236.0	3.0			0.002	
			8536		242.0	247.5	5.5			0.002	
			8537		247.5	250.0	2.7			Nil	
250.0	289.0	Fine-grained greenish grey moderately fractured rock. Downhole from 260' a heavy concentration of epidote appears as saussuritized phenocrysts giving the core a speckled appearance. From 250'-254' is a moderately silicified partly vuggy sample location. Sulphide content within this section									

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B22 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ. TON	OZ. TON
					FROM	TO	TOTAL				
		varies from 1-5%. Outside the sampled location, the PYRITE content is less than 1%. Minor (less than 1 to 2%) blebs of hematite alteration are visible, but with no associated minerals of a significant amount. Overall silica percentage is 10%, hardness of this unit is 6.	8538		250.0	254.0	4.0			0.005	
289.0	302.0	This is the contact with a mafic volcanic. This rock is dark grey in colour and very fine grained. (meta-basalt) Epidote has dropped to less than 1% and this rock is low to moderately fractured with 1-2% quartz-carbonate fillings. From 298'-302' a sample was taken due to disseminated PYRITE occurring as 1-5% locally. The 5% occurs with a 1/4" quartz vein and less than 1/2% hematite associated with it. Hardness of this unit 5.5-6.	8539		298.0	302.0	4.0			Nil	
302.0	377.0	This unit is a fine-grained greenish grey rock which is low to moderately fractured. This would be a metabasalt to dacite. Fractures are filled by quartz-carbonate and epidote, which also occurs as swirly masses. Quartz veins occupy the rock up to 5%. The general width is 1/2" and associated with it is less than 1/2% hematite and less than 1% PYRITE. Overall sulphide content is less than 1/2%. The most prominent veining occurs from 45°-50° to core axis. This is a fairly uniform unit. The only difference is that downhole from 357' cross fracturing is featured.									
377.0	400.0	This unit has the same groundmass as above but is more fractured at 10-15% with quartz-carbonate fillings. Epidote is not noted as swirly masses but only as impregnation and micro veins. A 5" section is seen at 382' containing 20% quartz-carbonate but less than 1/2% PYRITE. PYRITE overall is less than 1/2% but occurs locally to 1% in association with quartz. Minor hematite at 1/2-1% is also noted as fragments associated with quartz veining. The hardness of this unit is 5.5-6.									
400.0	448.0	This is a moderately fractured fine-grained greenish-grey rock. No more dacitic fractures are quartz-carbonate filled at 10-15% with epidote at 5%. Hematite occurs at 2-3% as local areas of a brecciated appearance and in association with some quartz veining. Overall PYRITE is 1/2% except locally at 1%. It occurs as disseminations and micro-									

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B22 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO					TOTAL
448.0	505.0	veining. Most prominent veining is 50° to core axis and widths are up to 1". A general hardness of 6. This zone is low to moderately fractured and is more greenish grey than above due to a general overall impregnation of epidote. This rock could also be a dacite. Fractures are quartz-carbonate filled and downhole from 487' the fracturing is more intense and occurs as cross-fracturing at every angle. From 488-489.9 a brecciation is present consisting of hematite and 5% PYRITE in the form of large cubes. Other than that, PYRITE occurrence is in disseminations at less than 1%. Local blebs of hematite are also visible outside the brecciated zone, but in a minor amount. Hardness is 5.5-6.	8540		488.0	489.7	1.7			0.005	
505.0	537.0	This unit is moderately fractured greenish grey in colour. Quartz-carbonate veining occurs up to 1/4" in width and approx. 45-50° with the core axis. Hematite micro spotting occurs at less than 1% and sulphide content is less than 1/2%. Epidote has dropped to approximately 1-2% as a general impregnation.									
537.0	550.3	This unit is more a dacite to metadiorite (quartz diorite?) due to the appearance of its coarse-grained salt and pepper texture. The only note of importance in this zone is massive white quartz from 548.7-550.3. Sulphides within at 3% as disseminations. Otherwise this section has sulphides at less than 1/2%. This is a very uniform unit. Veining of up to 1/4" is 50° to core axis and a hardness of 5-6.	8541		548.7	550.3	1.8			0.01	
550.3	595.0	This unit is a coarse-grained greenish grey rock-quartz diorite? texture is of a salt and pepper appearance. Pinkish quartz-carbonate veining is present 50-55° to core axis. Minor cross-fracturing is apparent. Downhole from 573' more intense silicification starts to appear as veining to an increase of 15-20%. These veins alternate between whitish and pinkish tinted. Sulphide content is still 1/2-1%. This could be called a transition zone leading to the breccia.	8542		590.0	595.0	5.0			0.02	

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B22 SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ./TON	OZ. TON
					FROM	TO	TOTAL				
595.0	632.0	Contact of the reddish fragmental to locally brecciated zone. Intense silicification is featured with colour ranging from whitish-reddish-black. The appearance is of a swirling combination of all of the above colours mixed in. Local fragments are seen, but the overall picture is of a mixed flattened combination. PYRITE occurrence is of a disseminated nature and as micro seaming. Total percentage ranges from 5-7%. Minor amounts of SPECULARITE less than 1% are noted in the form of micro seams. No angles to the core axis can be seen due to intense alteration, pulling and flattening. Hardness is 6 due to high percentage of quartz.	8543		595.0	599.0	4.0			0.06	
			8544		599.0	604.8	5.8			0.05	
			8545		604.8	608.0	3.4			0.06	
			8546		608.0	612.5	4.0			0.03	
			8547		612.5	617.0	4.7			0.01	
			8548		617.0	621.5	4.5			0.005	
			8549		621.5	626.5	5.0			0.10	
			8550		626.5	630.5	4.0			0.06	
			8551		630.5	633.0	2.7			0.07	
			632.0	677.0	This is a continuation of the above unit. This is also fragmental to brecciated reddish-white in colour. Some of the best breccia is noted here up to 642' with the more brecciated appearance than fragments. PYRITE again occurs as micro seams and in disseminations up to locally 5-7%. Micro seams of SPECULARITE are also seen to less than 1%. Downhole from 642' the appearance is as above-flattened, altered and pulled. Downhole from 657' more mafic waste is appearing, indicating the near end of the breccia zone. Hardness of this unit is 6.	8552		633.0	637.0	4.0	
8553		637.0				642.0	5.0			0.06	
8554		642.0				647.0	5.0			0.005	
8555		647.0				651.5	4.5			0.01	
8556		651.5				655.0	3.7			0.005	
8557		655.0				660.0	5.0			0.002	
8558		660.0				665.0	5.0			0.01	
8559		665.0				669.3	4.3			0.06	
8560		669.3				674.0	4.9			0.04	
8561		674.0				677.5	3.5			0.002	
677.0	709.0	Polymictic to iron formation due to the majority of mafic material. Local areas of reddish fragmental material is still evident but more dark mafic bands are seen. These mafic bands alternate with quartz-carbonate veins and have a prominent angle of 55°-60° to core axis. Minor greenish sericite is also mixed in at 1%. Sulphides are still present as disseminations and vary locally from 1-5%. The 5% is usually in the form of associated micro-seaming. Hardness of section ranges from 5-6.	8562		677.5	681.5	4.0			Nil	
			8563		681.5	685.8	4.3			Nil	
			8564		685.8	689.0	3.4			0.005	
			8565		689.0	692.0	3.0			0.005	
			8566		692.0	694.8	2.8			0.005	
			8567		694.8	697.0	2.4			0.01	
			8568		697.0	700.0	3.0			0.005	
			8569		700.0	704.5	4.5			0.01	
			8570		704.5	709.0	4.7			0.02	
			709.0	746.0	This is a continuation of the polymictic to iron formation. Downhole from 727' most of the reddish alteration has left except for 2-3%. Prior to 727' hematization is present up to 5-6%. Generally the appearance is of a banded fine-grained texture alternating between whitish and greenish black. Foliation is between 60°-65° with the core axis. Sulphides are still occurring locally as disseminations and micro seams up to 5%.	8571		709.0	714.0	5.0	
8572		714.0				718.7	4.7			0.002	
8573		718.7				723.0	4.5			Nil	
8574		723.0				725.7	2.7			0.005	
8575		729.3				732.0	2.9			Nil	
8576		739.0				741.0	2.0			0.005	

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B22 SHEET NO. 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ./TON	OZ TON
					FROM	TO	TOTAL				
746.0	784.0	This zone is a continuation of the iron formation and is similar to the above except for the introduction of some meta sediments to 5%. This section shows medium laminations 50°-55° to core axis and is primarily whitish and black-green with minor reddish alteration at 2-3%. Sulphides occurring as micro seams and disseminations vary from less than 1%-5%. Generally occurring in a higher amount in association with quartz.	8577		760.2	762.0	1.10			0.02	
			8578		765.0	769.0	4.0			0.02	
			8579		769.0	771.9	2.9			0.002	
784.0	807.0	Contact-this section is the beginning of the meta-sedimentary zone. Texture is generally fine-grained tends towards a greenish hue. A ¼" black band is noted at 785' confirming this zone and a few quartzitic pebbles of up to 4" are seen bearing a flattened appearance. Jasper fragments of up to ¼" are also noted in a few places. This zone shows no reddish alteration and sulphide content is Nil to less than ¼%.									
		EOH									

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B23 LENGTH 157.0 feet
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 34+35 W DEPARTURE 0+41N
 ELEVATION 40' above swmp AZIMUTH 025 DIP -55
 STARTED Oct. 26'83 FINISHED Oct. 27'83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 83-B23 SHEET NO. 1
 REMARKS NQ 1 7/8"

LOGGED BY PENTI LASSILA
Per Barb K

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0.0	6.0	Casing									
6.0	73.0	Dacitic metavolcanic in part well fractured and filled in with alteration products: Hard (H5-6) dull grey, fine-grained, moderately to strongly- magnetic, noncalcareous groundmass. Locally epidote altered, minor to moderate quartz-carbonate filling, generally PYRITIFEROUS mainly as disseminated streaks and fracture filling seamlets. Occasional reddish hematite silicate predominately locations of intense fracture related pyritization. Drill follows close to dip and strike of an altered fragmental (minor fault) zone in part heavily enrich with epidote, clinozoisite, quartz-carbonate commonly rimmed with hematized silicic material and associated pyritization.									
		16.0-19.0 Very altered zone with minor to locally heavy PYRITE (30% over 4") some whitish-creamy to light greenish (clinozoisite?) alteration in the form of wispy lacings associated with fracturing.	8582		16.0	19.0	3.0			Nil	
		31.0-32.5 Similar to above but contains 2" pinkish PYRITIZED carbonate vein, minor white quartz veinlets locally heavy epidote-hematite seams with specularite.	8583		31.0	32.5	1.5			Nil	
		42.0-43.8 Irregular veinlet of mottled white to pinkish quartz carbonate hematite reddish breccia and heavy associated PYRITE 10-15% veinlet about 1/2-2" thick runs subparallel to core.	8584		42.0	43.8	1.8			Nil	
		47.5-51.0 Fracture altered zone, light green clinozoisite seamlets, quartz seam heavily rimmed with rusty red hematite silica with associated PYRITE 10-15%.	8585		47.5	51.0	3.7			Nil	

DIAMOND DRILL RECORD

 HOLE NO. _____ SHEET NO. 2

REMARKS _____

LOGGED BY _____

 NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B23 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
		63.0-67.0 Well fractured altered zone, well laced with light creamy green alteration products with incorporated whitish to reddish microfractured silicate products minor 1%, associated PYRITE.	8586		63.0	67.0	4.0			Nil	
		68.3-73.0 Extreme fracturing and alteration with epidote calcite, quartz hematite rimmed pyritized vuggy fracture seaming running nearly parallel to core axis.	8587		68.5	73.0	4.7			Nil	
73.0	108.0	Mafic altered metavolcanic: Mainly dacitic at 73.0 grades to andesitic to basaltic downhole, essentially chloritic schist at 104-108'. Nonmagnetic and increasingly calcareous groundmass downhole to very calcareous at 104-108. Variably altered along fractures with quartz-carbonate, epidote and lesser reddish hematitic silica along seams. Main alteration zones nearly parallel to core axis at 79.5-82.5' and 85-88.5'. Both zones are intensely quartz-carbonated and epidotized with lesser red hematite, minor 1% pyrite and few locations with very fine disseminated galena? Well foliated 104-108'.	8588		79.0	82.5	3.5			Nil	
			8589		85.0	88.5	3.5			Nil	
108.0	113.0	Silicified alteration brecciated zone, mafic volcanic, quartz, calcite, silicic volcanic (weak hematized) and PYRITE 3-5% all melted together in fault-flow breccia.	8590		108.0	113.0	5.0			Nil	
113.0	157.0	Mafic volcanic breccia: weakly foliated-stretched-lineated with moderate introduction of quartz-carbonate, minor PYRITE and weak silicification. Becomes harder less calcareous and more siliceous below 134'. Main alteration zones at: 122-127 Stretched breccia, abundant hematite silicate, to 10% PYRITE locally white-pinkish quartz-carbonate seams. 134-138 Similar to 122-127 but more hematite silicate. 147-151 Heavy specularite seaming, 1-3% PYRITE, splashes of cpy, trace galena.	8591		122.0	127.0	5.0			Nil	
			8592		134.0	138.0	4.0			Nil	
			8593		147.0	151.0	4.0			Nil	

LANGRIDGES - TORONTO - 366-1168

EOH

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B24 LENGTH 68.5 feet
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 34+35W DEPARTURE 0+41N
 ELEVATION 40' above swmp AZIMUTH 289 DIP -55
 STARTED Oct. 27 '83 FINISHED Oct. 28 '83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 83-B24 SHEET NO. 1

REMARKS NO 1 7/8"

LOGGED BY PENTI LASSILA

per Barok

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	6.0	CASING									
6.0	68.5	<p>Dacitic metavolcanic, in part well fractured and injected with alteration products. Hard (H5-6) dull grey, fine-grained, moderately- to strongly- magnetic, non-calcareous groundmass. Groundmass becomes moderately- to strongly calcareous below 48' and weakly- to moderately magnetic. Minor quartz-calcite fracture filling, generally weakly to moderately PYRITIFEROUS except for occasional narrow pyrite seam and thin (to 5mm) quartz seam rimmed with pyritiferous red hematite.</p> <p>Exceptions to above: 12.0-15.0 Broken core; hematitic pyrite seams, minor quartz-carbonate with occasional bleb of cpy.</p> <p>38.5-40.5 Well fractured rhyodacite with heavily (to 60%) pyritized thin (to 4mm) pyrite seams, pyritiferous hematitic quartzitic material (5") with 10-30% disseminated pyrite.</p> <p>42.0-48.0 Heavily fractured with hematite and quartz-carbonate and pyrite 3-5% seam fillings.</p> <p>52.0-54.0 10% white quartz veinlets, 10% reddish silicate breccia, 5% to locally 25% disseminated PYRITE (average 10-15%).</p> <p>67.0-68.5 Brecciated zone, 30% volcanic material, 20-30% PYRITE, 30-35% white quartz, 20% red hematitic silicate.</p>									
			8594		12.0	15.0	3.0			0.002	
			8595		38.5	40.0	1.7			Nil	
			8698		42.0	48.0	6.0			Nil	
			8596		52.0	54.0	2.0			Nil	
			8597		67.0	68.5	1.5			0.01	

LANGRIDGES - TORONTO - 366-1168

EOH

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B25 LENGTH 174 feet
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 34+45 W DEPARTURE 0+41N
 ELEVATION 40' above swmp AZIMUTH 160 DIP -75
 STARTED Oct. 28 '83 FINISHED Oct. 29 '83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
174.0	-75				

HOLE NO. 83-B25 SHEET NO. 1

REMARKS NO 1 7/8"

LOGGED BY PENTI LASSILA

per [Signature]

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	10.0	CASING									
10.0	42.0	Dacitic fractured metavolcanic: Dull grey, hard 5-6, fine-grained, well fractured to brecciated, moderately to intensely injected with quartz-carbonate along fractures including white quartz seamlets 1mm to 1cm thick moderately to heavily hematite rimmed-enveloped quartz-carbonate as fine (1mm) crisscrossing fracture fillings to heavily PYRITIZED hematitic veinlets and impregnations to 2cm thick (locally up to 60% PYRITE associated with hematite-quartz-carbonate injection; normally above 10% PYRITE associated). Strongly magnetic noncalcareous groundmass, 10-39' becomes weakly to nonmagnetic from 30-42' and moderately to strongly calcareous groundmass, also below 39' gradational compositional change to softer (H4) more mafic slightly chloritic volcanic at 42'. 21.0-27.0 Well fractured zone with heavy injection of quartz-carbonate with associated hematization and secondary PYRITE overall 10% PYRITE, locally to 60% veinlet-like clots to 1 inch thick.	9051		21.0	27.0	6.0			0.002	
			9052		39.0	42.0	3.0			0.16	
42.0	53.0	Well fractured Meta-andesite: Fine-grained grey-green moderately calcareous non magnetic groundmass, 10% calcareous seaming as irregular fracture fillings with minor associated PYRITE. 42.0-43.0 Volcanic breccia, 10% quartz carbonate, 5% PYRITE, 1% CHALCOPYRITE associated with quartz-carbonate.	9053		42.0	43.0	1.0			0.12	
53.0	69.0	Dacitic well fractured metavolcanic. Similar to section at 10-42' but much less quartz-carbonate, hematite and PYRITE fracture fillings occur mainly as thin (1-5mm) seamlets. Overall 5% quartz-carbonate, 1/2% reddish									

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B25 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 2
 REMARKS _____
 LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
		hematite, 1/2-2% PYRITE. PYRITE occurs predominately as fracture filling seams, lesser small (less than 4mm) clots and disseminations. At 58-59' several PYRITE clots to 8mm diameter enveloped by black magnetite rims. 59.0-65.0' light green dacitic volcanic peppered with black small (1-2mm) phenocrysts (possibly black hematite). Occasional fine SPECULARITE seams.									
69.0	72.5	Zone of heavy PYRITIZATION; overall average 20% PYRITE as massive disseminated clots and clot-like veinlets (several 1/2" to 1" thick): 6" section at 70.0 with red hematite silicate-quartz and 15% PYRITE.	9054		69.0	72.5	3.5			0.005	
72.5	77.0	PYRITIFEROUS section in dacitic volcanic with 20% white to pinkish quartz-carbonate veinlets; 10" white quartz vein at 75.0 to 75.8' with 3% associated PYRITE.	9055		73.0	75.0	2.0			0.005	
77.0	90.0	Fractured to brecciated metavolcanic of dacitic to andesitic composition. Moderately to strongly calcareous apparantly mainly due to numerous hairline calcite fracture seams. In part chloritic, calcite seamed partly hematitic and pyritic-mainly between 82.0-86.0' where overall PYRITE content averages about 5%. Also weakly foliated and chloritized 82-86'.	9056		75.0	77.0	2.0			0.01	
			9057		82.0	86.0	4.0			0.005	
90.0	92.0	FAULT GOUGE: of mafic volcanic with rusty quartz vein about 1' thick.									
92.0	119.0	Metadiorite to weakly silicic meta-andesite: Grey to grey-green fine to medium grained volcanic with compositional gradation from diorite-andesite to nearly dacite, (H5), weakly magnetic to non magnetic, very weakly calcareous groundmass; in part well saussaritized porphyritic (saus. feldspar phenocrysts) diorite to very weakly saussaritized weakly silicic andesitic composition.									

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B25 LENGTH _____
 LOCATION _____
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH _____ DIP _____
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 3
 REMARKS _____
 LOGGED BY _____

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
119.0	130.0	Occasional wispy filaments and segregations of light green epidote alteration, minor thin (1-3mm) carbonate seams, and few rusty red hematitic seamlets.	9059		119.0	123.0	4.0			Nil	
		FALUT CRUSH BRECCIA: A melange of small (less than 2mm to locally 1cm thick) green volcanic fragments, intermixed with small (to 3mm) red hematite fragments (2-5%) and brecciated white to pink, quartz carbonate: approx. 5-10% disseminated secondary PYRITE dispersed throughout. 4" white quartz vein at 121'-strongly calcareous, nonmagnetic.	9060		124.0	130.0	6.0			Nil	
130.0	133.5	Fault breccia similar to 119.0-130.0' but mainly volcanic fragments, more siliceous and only minor hematite and PYRITE (1%) except for 1" hematite; pyrite quartz-calcite seam at 132.5'. Strongly calcareous, nonmagnetic.									
133.5	136.0	Fault breccia and quartz vein, rusty pink is part, 20% white quartz, 20% dark grey very silicic volcanic breccia-with 3-5% associated PYRITE, 40% dacitic medium grey volcanic fragments with 1-2% PYRITE, 20% rusty material.	9061		133.5	136.0	2.7			Nil	
136.0	174.0	Sharp contact. Metadiorite. Uniform unit essentially the same as at 92.0-119.0ft.									

LANGRIDGES - TORONTO - 366-1168

EOH

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B26 LENGTH 827.0 feet
 LOCATION METALORE RESOURCES LTD.
 LATITUDE 16+00W DEPARTURE 5+00S
 ELEVATION 1002' AZIMUTH 342 DIP -65
 STARTED Oct. 29 '83 FINISHED NOV. 3 '83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
			0'	-65	
			400'	-65	
			827'	-60	

HOLE NO. 83-B26 SHEET NO. 1

REMARKS NO 1 7/8"

LOGGED BY PENTI LASSILA

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL					
0.0	10.0	CASING										
10.0	57.0	<p>Very calcareous metadiorite? metavesicular basalt?. Massive, very uniform unit of well altered mafic rock; moderately soft(H3-4), chloritized matrix with whitish laths (poikioblastic phenocrysts?) to 3mm in diameter, composed predominately of calcite.</p> <p>Between 50-60feet groundmass grades to noncalcareous, but retains the same texture. Weakly to moderately fractured with white calcite and quartz-calcite fracture filling seamlets (5% of rock) 2-5mm thick. Occasional white quartz veinlets 3mm-2cm thick.</p>										
57.0	203.0	<p>Non-calcareous saussaritized metadiorite?, metabasalt-gabbro?. Massive very uniform unit with intensely altered groundmass, in part porphyroblastic texture with saussaritized feldspar filaments completely surrounding dark green mafic microfractured crystals. Hardness 4-5. Approximately 5% epidote and quartz-carbonate seamlets-veinlets, some of which appear to be relics of pillow selvages. Minor red hematite with associated pyrite as rims bounding some epidote-quartz-carbonate seamlets-veinlets.</p> <p>135.5-137.5. Quartz-calcite vien; minor quartz-2"; red hematite; 5% PYRITE; and some light green alteration material. One-2% PYRITE overall.</p> <p>Both saussaritization and kaolinatization of feldspar occurs below 90 feet.</p> <p>Below 137.5 feet considerable textural variation indicates probable minor interchanges in composition and degree and type of metamorphism-metasomatism.</p>	9065		135.5	137.5	2.0			0.002		

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B26 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
		190.0-203.0 The unit becomes increasingly more calcareous mafic and chloritized downhole from 190ft.. It is essentially a well carbonatized, chloritic, schistose pseudobreccia at 200.0-203.0 feet.									
203.0	238.0	SHARP CONTACT. Fractured, moderately silicified, hematite impregnated, weakly to moderately magnetic altered metavolcanic of dacite composition. Well fractured - locally brecciated, with complex compositional intergradations due to introduction of different alteration products including silicification, epidotization, hematization and quartz-carbonatization, with introduction of secondary pyrite and local thin (1mm) seams of specularite mainly associated with hematization and less so with quartz-carbonate seams-veinlets. Coloured hues of bright greenish, reddish-purplish to dark grey indicates alteration products which have impregnated the groundmass. Groundmass is weakly to moderately magnetic, essentially noncalcareous, moderately silicified and well fractured.	9066		203.0	207.0	4.0			0.002	
		203.0-207.0 Zone of intense fracturing with 15% quartz, quartz-carbonate seams (5mm-3cm thick) carrying 1% to locally 15% PYRITE, minor 5% red hematite.	9067		223.0	227.0	4.0			Nil	
		223.0-227.0 Zone of hematization, fracturing, with 10% of rock is heavily hematite rimmed quartz-carbonate seams, minor epidote, few thin seams specularite. Overall average 1% PYRITE.									
238.0	244.0	Brecciated, red hematite and pyrite. Almost entirely strongly hematized quartz material, heavily streaked with clot-like massive disseminations of PYRITE (average 50% PYRITE).	9068		238.0	244.0	6.0			Nil	
244.0	247.0	Hematitic silica and breccia as above but PYRITE content only about 15%, also more-30%- volcanic fragments.	9069		244.0	247.0	3.0			0.005	
247.0	249.0	Fractured volcanic as at 203.0-238.0.	9070		249.0	251.0	2.0			0.02	

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B26 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ. TON	OZ. TON
					FROM	TO	TOTAL				
249.0	251.0	Quartz and quartz-carbonate vein. Mainly white quartz and quartz-carbonate vein material (80%). Minor reddish hematization, 5% PYRITE overall; occasional isolated epidote seams up to 1 inch thick. Few specs and tiny blebs of grey-metallic mineral.									
251.0	432.0	SHARP CONTACT WITH METADIORITE-meta-gabbro?-metabasalt? (tending toward more mafic). Nearly same as dioritic unit at 57.0-203.0 ft. Porphyritic texture due to whitish-greenish altered feldspars, fine to medium-grained dark grey-green groundmass, noncalcareous, nonmagnetic to locally weakly magnetic due to minor compositional variations. Ten percent white quartz-calcite and light green epidote seamlets approximately in equal proportions. 324.0-340.0 Slightly more mafic and altered (chloritic). 376.0-383.0 Weakly foliated chloritic section. Downhole from about 310ft epidote alteration becomes subdued and alteration of the feldspars becomes very light greenish remaining noncalcareous. A general more mottled appearance or blending in of the various mineral components and a general increase in chloritization also occurs downhole from 310ft. Below 400ft. core is increasingly chloritic and softer (H4) taking on mottled texture between 420 and 435 ft, caused by segregation of lighter green and darker green alteration products.									
432.0	452.0	FRACTURED ALTERED MAFIC VOLCANIC. A dark green psuedobreccia with light creamy green filament-like mottled lath intrastructure of alteration products:becomes increasing more distinctly fractured downhole:437.0-452.0 very distinct filament-like splays of light cream to creamy green alteration (30% of rock). Groundmass is noncalcareous and non-magnetic. Below 447.0ft minor clots of fracture-orangy K-feldspar enveloped epidote-like light greenish splays.									

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B26 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	OZ / TON	OZ TON	
					FROM	TO					TOTAL
452.0	521.0	Fine-grained well fractured dark grey altered metadacite (H5) weakly magnetic, noncalcareous groundmass, numerous fine crisscrossing fractures filled with quartz-carbonate usually hematitic and commonly with epidote haloes and patchy impregnations. PYRITE commonly associated with hematitic seams. 487.0-496.0 Heavily hematized quartzitic breccia with 5% disseminated pyrite and minor specularite seams. 492.0-496.0 White quartz vein in ground core, with 1-3% PYRITE. Approx. 4ft. of core was lost in this section.	9071		487.0	496.0	9.0			0.002	
521.0	541.0	Well fractured to brecciated meta-andesite. Similar to section at 452.0-521.0 but softer (H4) and more mafic in composition. Grades downhole (537.0-541.0) into very fractured altered dacitic metavolcanic at 540.0ft. Fault sheared breccia at 539.0-541.0ft-well carbonatized, 1% PYRITE.									
541.0	617.0	Very fractured, altered, fine-grained, hard (H5) meta-dacite (very similar to 452.0-521.0) Weakly calcareous to noncalcareous, variably nonmagnetic to weakly magnetic groundmass. Contains abundant fracture fillings and clot-like lacings of epidote, hematized quartz-carbonate seams and locally minor pyrite, quartz-carbonate hematite seams-veinlets. Considerable intergradational compositional interlayering along its length from dacitic-andesitic with the more mafic compositional components being only weakly to non-magnetic; more siliceous components usually weakly to moderately-magnetic. 590.0-617.0ft the composition is essentially that of a meta-andesite.	9072		582.0	584.5	2.5			Nil	
617.0	623.0	Massive uniform unit of extensively saussaritized meta-diorite; pseudoporphryoblastic texture with dark green mafic microfragmented fragments enveloped by light green filament-like saussaritized feldspar laths: Coarse dark and light green salt-pepper texture.									

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

 NAME OF PROPERTY BROOKBANK

 HOLE NO. 83-B26 SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ. TON	OZ. TON
					FROM	TO	TOTAL				
623.0	637.0	Moderately fractured, weakly silicic meta-andesite. Occasional thin (1-3mm) epidote-quartz-carbonate seamlets.									
637.0	643.0	Very fractured, to brecciated moderately to strongly silicified metavolcanic. Heavily laced with filaments, wispy clots and fracture fillings of epidote. Moderately quartz-carbonated, and minor (2%) hematitic pyritiferous seams and lenticular clots.	9073		639.0	643.0	4.0			Nil	
643.0	662.0	Well fractured heavily epidotized dacitic metavolcanic. Grey to grey-green, (H5-6), fine-grained with numerous fine crisscrossing fine fracture filled with white quartz carbonate and or epidote with epidote secondary to quartz-carbonate. Also mottled epidote halos, clots, wispy filaments. Minor thin hematitic seamlets associated with epidote.									
662.0	679.0	DACITE:Dull grey, fine-grained hard moderately magnetic, well fractured volcanic with quartz-carbonate fracture fillings, essentially no epidotization.									
679.0	681.5	White quartz vein. 80% white quartz and minor calcite, 1% PYRITE, very minor (few specs and tiny clots) metallic grey very fine grained unknown mineral.	9074		679.0	681.5	2.5			0.005	0.11
681.5	712.0	Meta-andesite grading to metabasalt in part. Green grey fine-grained, massive to well foliated and moderately chloritic schistose soft (H3), locally weakly silicified and brecciated with minor hematization. Foliated portions exhibit weak composition interbanding. Groundmass is nonmagnetic and moderately to strongly calcareous: moderate 5% to abundant 15% quartz-calcite seaming. Minor pyrite in brecciated weakly silicified weakly hematized sections. No epidotization which is pervasive uphole from this section.									
712.0	752.0	Fractured to brecciated metavolcanic of andesitic to very local dacitic(silicified) composition. Weakly to locally moderately magnetic and strongly calcareous groundmass. Numerous variably oriented quartz-calcite filled fine									

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK
 HOLE NO. 83-B26 SHEET NO. 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ. TON	OZ. TON
					FROM	TO	TOTAL				
		(1-3mm) crossing fractures, minor pyrite associated with quartz-calcite. No epidote alteration, very minor hematization associated with quartz-carbonate seams. Ground core 727.0-742.0ft.									
752.0	783.5	SHARP CONTACT between very fractured mafic metavolcanics (uphole) and intensely flattened polymictic metaconglomerate downhole. Extensively flattened brecciated altered, silicic, sericitic, well foliated, pebble-cobble polymictic metaconglomerate of schistose-gneissic texture well enriched with secondary pyrite predominately as concentrated disseminated segregations lineated parallel to subparallel to foliation. Lithologic, compositional and structural variations of sampled sections are described following.									
		752.0-755.0 Dark grey very siliceous fractured breccia, with calcareous fracture filling and 1% disseminated PYRITE. Some weakly reddish hues probably due to hematite alteration.	9043		752.0	755.0	3.0			Nil	
		755.0-760.0 Extremely flattened, brecciated foliated very siliceous polymictic metaconglomerate: Varicoloured hues of white, dark grey, pinkish brown clastic material (compositional variations) forming a lency boudinage texture with very fine creamy green sericitic filament like laminae bounding the clastic material. 1-4% disseminated PYRITE mainly as disseminated linear lenses.	9044		755.0	760.0	5.0			0.03	
		760.0-764.5 Very similar to 755.0-760.0ft but contains large brecciated quartz injected cobble (boulder?) apparently originally of granitic composition at 763ft.	9045		760.0	764.5	4.5			0.08	
		764.5-771.0 As above but clast size decreases downhole to mainly pebble size with higher quartz-pebble content, more light greenish sericitic material and higher pyrite content (2-6%): At 768.0 1" and 2" white quartz	9046		764.5	771.0	6.7			0.25	

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK

HOLE NO. 83-B26 SHEET NO. 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ. TON	OZ. TON
					FROM	TO	TOTAL				
771.0	776.0	As at 764.5-771.0ft but entirely white to greenish material compositionally, white quartz-pebble material (60-70%) and greenish sericitic material (30-40%) with 1% locally 10% PYRITE as disseminated streaks, mainly in the sericitic slips.	9047		771.0	776.0	5.0			0.06	
		776.0-782.5 Monoclastic quartz-pebble, flattened and brecciated metaconglomerate, heavy sulphides 10-15% as dark grey seamlets lineated along foliation, appears to be mainly nonmagnetic po.	9048		776.0	782.5	6.5			0.27	
783.5	790.0	783.5-790.0 Extremely flattened white quartz and mafic (green chloritic schistose) fragmented polymictic pebble (occasional cobble) metaconglomerate. Mafic clasts altered to chloritic schists. Well banded lensy green and white texture. Local minor 1% PYRITE.	9049		782.5	784.5	2.0			0.02	
			9050		784.5	790.0	5.7			0.005	
790.0	827.0	White and greenish polymictic metaconglomerate. Poorly sorted pebble to large cobble size clasts composed of 20% white fractured pebbles and cobbles and greenish chloritized schistose mafic clasts. Lost 10ft. better sorted extremely flattened pebbles and small cobbles (well compacted) of mafic to intermediate composition.									
EOH											

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK W. METALORE RESOURCES
 HOLE NO. 83-B27 LENGTH 732.0
 LOCATION IRWIN TOWNSHIP
 LATITUDE ~~43°00'N~~ 44°05' DEPARTURE 14+00 W
 ELEVATION 991' AZIMUTH 342° DIP -65°
 STARTED NOV. 3, 1983 FINISHED NOV. 6, 1983

CORRECTED DIPS					
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
			COLLAR	-65°	342°
			407'	-72°	
			732°	-63°	

HOLE NO. 83-B27 SHEET NO. 1 OF 5

REMARKS _____

LOGGED BY D. OLIVER

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	Au OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0.0	10.0	CASING - LEFT IN HOLE	9083		14.6	17.9	3.3			0.005	
10.0	44.0	GREENISH-GREY MODERATELY TO SEVERELY FRACTURED. FRACTURES ARE QTL CARB FILLED 70° TO CA. SAMPLED AREAS OF THIS VOLCANIC UNIT CONTAIN HIGH SiO ₂ (UP TO 35%) WITH DISSEMINATED PYRITE AND SEAMS UP TO 15%. 3% REDDISH MATERIAL PRESENT IN SAMPLES WITH 1/2% SPECULAR CONTAINED IN SAMPLE 34.9-37.5. Rock is hard at 6. THIS ROCK IS NON-CALCAREOUS EXCEPT FOR SEAMS.	9082		34.9	37.5	2.6			0.002	
			9084		21.0	24.0	3.0			0.002	
44.0	99.0	FINE GRAINED GREYISH MOD TO MODERATELY FRACTURED VOLCANIC. (ANDSITIC) FRACTURES ARE QTL-CARB FILLED. SULPHIDE CONTENT AS DISSIMINATIONS IS 21% EXCEPT FROM 68-73.7 WHERE CONTENT IS 3%. 68-73.7 IS MORE SILICIOUS WITH A STRETCHED APP. BASICALLY A UNIFORM STRUCTURE.	9085		68.0	73.7	5.7			Nil	
99.0	151.2	99-116 IS MORE OF A DIORITE AND DOWNHOLE CONTINUES AS AN ANDSITIC ROCK. FINE GRAINED GREENISH GREY. 130' DOWNHOLE EPIDOTE APPEARS AS WISPY PATCHES. MODERATE FRACTURING QTL-CARB WITH 21% Py.	9086		138.0	142.0	4.0			0.002	

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK WEST

HOLE NO. 83-B27 SHEET NO. 2 OF 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ. TON	OZ. TON
					FROM	TO	TOTAL				
147.0 151.0	170.0	VERY SILICIOUS FRAGMENTAL TO BRECCIATED ZONE. 156-159.5 CONTAINS 95% QTZ 3% Py. COLOR RANGES FROM WHITISH-RED. HARD AT 6. SULPHIDES AS DISSIMINATIONS LOCALLY TO 15%.	9087		151.0	156.5	5.5			0.005	
			9088		156.5	159.0	2.5			0.002	
			9089		159.0	163.7	4.7			0.005	
			9090		163.7	165.1	1.4			0.005	
171.0	266.0	VERY UNIFORM UNIT OF A META-DIORITE WITH SAUSSERATIZED FELDSPARS. POORLY FRACTURED (1%) WITH QTZ CARB AND EPIDOTE. HARDNESS 5.5.	9091		165.1	170.0	4.9			0.01	
266.0	317.0	SIMILAR TO 171-266. META DIORITE. MORE EPIDOTE PRESENT AS WISPY PATCHES 300' DOWN HOLE. SULPHIDE CONTENT $2\frac{1}{2}\%$.									
317.0	385.0	FINE GRAINED GREENISH GREY VOLCANIC (BASALTIC)? 347-359 SEVERELY FRACTURED VOLCANIC WITH QTZ CARB AS FILLINGS. Py CONTENT IS 3-5%. OUTSIDE THIS SAMPLE PYRITE IS $<1\%$. EPIDOTE CONTENT AT 5% AS WISPY PATCHES AND FRACTURE FILLINGS. GROUND CORE AT: 317-320 356-359 361-362 382-383	9092		347.0	354.0	7.0			0.002	

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK WEST
 HOLE NO. 83-B27 SHEET NO. 003 OF 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
385.0	477.0	SEVERELY FRACTURED GREENISH GREY VOLCANIC. FRACTURES ARE QTZ-CARB AND EPIDOTE FILLED. 415-418.5 CONTAINS 65% QTZ WITH 3% DISS. PY. 410-412.6 CONTAINS GR. CORE AND 15-20% QTZ WITH 5-7% Py. EPIDOTE IS PRESENT AS WISPY PATCHES AND FRACTURE FILLINGS AT 15%. GROUND CORE AT: 393-396 407-408 427-428 437-439 THIS SECTION IS HARD AT 5.5, SULPHIDE CONTENT 1/2-1% EXCEPT SAMPLED AREAS.	9093		410.0	412.5	2.5			Nil	
			9094		415.0	418.5	3.5			0.002	
			9075		387	397	SLUDGE			0.002	
			9076		397	407	SLUDGE			0.002	
			9077		407	417	SLUDGE			0.002	
			9078		417	427	SLUDGE			0.005	
			9079		427	437	SLUDGE			0.002	
			9080		437	447	SLUDGE			0.005	
			9081		447	457	SLUDGE			0.002	
477.0	502.0		SIMILAR TO 385-477 BUT ONLY MODERATELY FRACTURED. QTZ-CARB AND EPIDOTE AS FILLERS. ROCK IS FINE GRAINED GREENISH GREY AND HARD AT C. CROSS FRACTURING IS SHOWN AND SULPHIDE CONTENT AS DISSIMINATIONS IS <1%.								
502.0	553	GREENISH MEDIUM GRAINED META-DIORITE. MODERATELY FRACTURED WITH QTZ CARB AND EPIDOTE FILLINGS. EPIDOTE ALSO PRESENT AS WISPY PATCHES AND IMPREGNATIONS. SULPHIDE CONTENT 1/2%. HARDNESS 5.5. EXCEPT FOR FRACTURES: ROCK IS NON-CALCAREOUS.									

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK W

HOLE NO. 83-027

SHEET NO. 4 OF 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
553.0	623.0	SIMILAR TO 502-553. GREENISH MEDIUM GRAINED META-DIORITE. MODERATELY FRACTURED WITH QTZ CARB, EPIDOTE FILLINGS. 3" QTZ VEIN AT 582 WITH 4 1/2% Py. FRACTURES ARE 60-70° TO CA. BASICALLY A UNIFORM UNIT. HARDNES: 5.5-6. 574'-576' CONTAINS 15% QTZ AND 5% Pyrite.	9095		574.0	576.0	2.0			0.002	
623.0	648.0	FINE GRAINED GREENISH VOLCANIC MODERATELY FRACTURED. FRACTURES ARE QTZ CARB FILLED AT 5% AND REDDISH MATERIAL AT 1-2%. 627.4-631.5 CONTAINS 15 QTZ AND 5% PY. OVERALL PY IS 1% MAGNETIC, CALCAREOUS AT FRACTURES.	9096		627.4	631.5	4.1			Nil	
648.0	657.0	SLIGHTLY TRANSITIONAL LEADING TO SEDIMENTS. FOLIATION 75° CA, CALCAREOUS AT FRACTURES. MAFIC AND SOME SEDIMENT MATERIAL PRESENT. PYRITE CONTENT 1/2-1%.									
657.0	663.0	SB PEBBLE CONGLOMERATE - REDDISH WHITE-GREEN. FOLIATION 70° TO CA. CALCAREOUS IN SEAMS. SULPHIDES 1/2-1%. SPECULAR SEAM AT 663.7. = 1%. STRETCHED PEBBLES VISIBLY.	9097		657.0	661.5	4.5			0.14	
			9098		661.5	663.7	1.5			0.70	
			9099		663.0	666.0	3.0			0.04	
			9100		666.0	669.3	3.3			0.005	

DIAMOND DRILL RECORD

NAME OF PROPERTY BROOKBANK WEST

HOLE NO. 83-827 SHEET NO. 5 OF 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
663 663	675	SILICIOUS REDDISH TINTED FRAGMENTAL TO LOCALLY BRECCIATED UNIT. CALCAREOUS AT SEAMS AT 10%. OUTSIDE LOCAL BRECCIA, ROCK HAS A GNESSIC APPEARANCE WITH FOLIATION 70-75° TO CA. SEDIMENT MATERIAL IS LAMINATIONS AT 2-5%. SERICITIC AT 3%. SULPHIDE CONTENT AS DISSIMINATIONS AND MICRO SEAMS LOCALLY TO 10%. HARDNESS 6.	9101		669.3	675.0	5.7			0.002	
675	698.9		9102		675.0	679.4	4.4			0.005	
			9103		679.4	682.0	2.6			0.08	
		9104		682.0	685.5	3.5			TR		
		9105		685.5	689.0	3.5			TR		
		9106		689.0	691.6	2.6			0.03		
698.9	710.5	SIMILAR TO 675-698.9 REDDISH BRECCIATED TO FRAGMENTED UNIT. 705.8-710.5 IS MORE OF A QTLTIC STRETCHED PEBBLE CONGLOMERATE. FINE TO IRREGULAR LAMINATING WITH SULPHIDES AT 2-5%. REDDISH SILICA AT 1% 698.9-699.9-25% Py	9107		691.6	696.1	4.5			TR	
			9108		696.1	698.9	2.8			TR	
			9109	25%	698.9	699.9	1.0			0.17	
710.5	729.0	SIMILAR TO 698.9-710.5 QTLTIC PEBBLE CONGLOMERATE STRETCHED QTL PEBBLES PRESENT. HARDNESS 6. SULPHIDES <1%.	9110		699.9	703.3	3.4			0.05	
			9111		703.3	705.8	2.5			TR	
729.0	732. EOH.	FRACTURED DARK BLACK SILICIOUS VOLCANIC. QTL PEBBLES PRESENT. SULPHIDES NIL. QTL AS FRACTURE FILLINGS AND AS VEINLETS.	9112		705.8	710.5	4.7			0.24	

LANGRIDGES - TORONTO - 366-1168

LOCATION: BROOKBANK

PROPERTY: METALORE RESOURCES

HOLE NO: 83-B28

LATITUDE: 5455

DEPARTURE: 8700 W

LENGTH: 981

ELEVATION: _____

CLAIM NO. _____

INCLIN: -65°

CORE SIZE: NQ 1 7/8"

SECTION: _____

AZIMUTH: 342°

DIP TESTS: _____

LOGGED-BY: BARB KOWALSKI

STARTED: DEC. 2, 1983

DRILLED BY: BRADLEY BROS.

DATE LOGGED: DEC. 7, 1983

COMPLETED: DEC. 11, 1983

DRILLED FOR: METALORE RESOURCES

PURPOSE: BROOKBANK ZONE

FEET		DESCRIPTION	SAMPLE NO.	FOOTAGE		LENGTH	ASSAYS	
From	To			From	To		Ag/T	Ag/L
		AT 203.7-206.5 SIMILAR TO 127.6 TO 128.11 (MASSIVE)						
333.2	406.7	DIORITE IN SHARP CONTACT WITH VOLCANIC MAFIC MINERALS IN DIORITE ARE NOT UNIFORMLY DISTRIBUTED. DIORITE IS BRECCIATED WITH POTASSIC ALTERATION AT 333.2 TO 339.11. QUARTZ VEINLETS (< 1/8" IN WIDTH), K-FELDSPAR, CALCITE, EPIDOTE, Fe-CARBONATE, etc. OCCUR IN BLEBS AND VEINLETS. TWO PERCENT DISSEMINATED PYRITE AND 2% FINE-GRAINED BLUE METALLIC MINERAL. SPECTROMETER READINGS (2) 40 + 45 COUNTS PER MINUTE	919.5	333.2	339.11	6.9	TR	Nil
		AT 342-347 SAME AS 333.2-339.11 LESS THAN 1% BLUE METALLIC MINERAL. SPECTROMETER READING 35 COUNTS PER MINUTE.	919.6	342	347	5	TR	Nil
		AT 347-406.7 DIORITE HAS ACQUIRED A RED HUE WITH NON-UNIFORM DISTRIBUTION OF MAFIC MINERALS (< 1/8" IN SIZE) TO MAFIC PHENOCRYSTS REACHING 1/4" IN SIZE. DIORITE						

LOCATION: BROOKBANK

PROPERTY: METAKORE RESOURCES LTD.

HOLE NO: B-28

LATITUDE: 57 45 S DEPARTURE: 8+00 W

LENGTH: 981

ELEVATION: _____

CLAIM NO. _____

SECTION: _____

INCLIN: -65°

CORE SIZE: NO 1 7/8"

LOGGED BY: BARB KOWALSKI

AZIMUTH: 342°

DIP TESTS: _____

DATE LOGGED: DEC. 7, 1983

STARTED: DEC. 2, 1983

DRILLED BY: BRADLEY BROS.

COMPLETED: DEC. 11, 1983

DRILLED FOR: METAKORE RESOURCES LTD.

PURPOSE: BROOKBANK ZONE

FEET		DESCRIPTION	-SAMPLE NO.	-FOOTAGE-		-LENGTH	-ASSAYS-	
From	To			From	To		Au/T	Ag/T
		AT 887-912.0 FINE-GRAINED MEDIUM-GREEN MAFC ROCK WITH 15-20% QUARTZ AND CALCAREOUS (WEAKLY PINK) VEINLETS. LOCALLY ROCK IS SHEARED WEAKLY AND BRECCIATED WEAKLY. THREE PERCENT Fe-CARB. PRESENT IN THE FORM OF BLEBS. FINE-GRAINED 3% DISSEMINATED PYRITE. ROCK HAS REDDISH HUE → SPECTROMETER READING (3) 40 COUNTS PER MINUTE.						
912.0	937.0	ENTIRE SECTION IS MODERATELY BRECCIATED; DEEP-RED IN COLOUR; QUARTZ, CALCAREOUS AND CHLORITIC STRINGERS THROUGHOUT. LOCALLY ROCK IS MODERATELY SHEARED. VERY FINE-GRAINED 4% DISSEMINATED PYRITE AND 2% BLUE-METALLIC LUSTROUS MINERAL.						
		912.0 - 923.2 SPECTROMETER READING 30-40 COUNTS PER MINUTE.	9197	912.0	923.2	11.10	0.002	0.01
		923.2 - 932.0 → 45 COUNTS PER MINUTE.	9198	923.2	932.0	9.10	0.002	0.01
		932.0 - 937.0 → 40-45 COUNTS PER MINUTE.	9199	932.0	937.0	5.0		

DIAMOND DRILL RECORD & LOG

LOCATION: BROOKBANK.

PROPERTY: METALORE RESOURCES.

HOLE NO: B3-1329

LATITUDE: 5+00S DEPARTURE: 6+00W LENGTH: 852'
 INCLIN: -65° CORE SIZE: BQ
 AZIMUTH: 342° DIP TESTS: 400' - 66°
852' - 70°
 STARTED: DEC. 12, 1983
 COMPLETED:
 PURPOSE: BROOKBANK ZONE.

ELEVATION: 1032'
 DRILLED BY: BRADLEY BROS.
 DRILLED FOR: METALORE RESOURCES

CLAIM NO. _____
 SECTION: _____
 LOGGED BY: ARR KOWALSKI
 DATE LOGGED: DEC. 16, 1983

Paul K

FEET		DESCRIPTION	SAMPLE NO.	FOOTAGE		LENGTH	ASSAYS		
From	To			From	To		Au/T		
0.0	8.0	CASING							
8.0	96.0	MASSIVE, FINE-GRAINED, MEDIUM-GREEN MAFIC VOLCANIC. WEAKLY MAGNETIC AND FRACTURED WHERE QUARTZ, CALCITE, EPIDOTE FILL IN THE LATTER LOCALLY VOLCANIC IS WEAKLY BRECCIATED WITH POTASSIC ALTERATION. CHLORITIC VEINLETS ARE PRESENT THROUGHOUT. TWO PERCENT DISSEMINATED PYRITE							
96.0	97.0	QUARTZ-CALCITE VEIN WITH K-ALTERATION. FIFTEEN PERCENT DISSEMINATED PYRITE. SPECTROMETER READING 35 COUNTS PER MINUTE.	9206	96.0	97.0	1'		0.02	
97.0	100.6	WEAKLY BRECCIATED WITH POTASSIC ALTERATION IN VOLCANIC. QUARTZ MICROVEINLETS (<5%) THROUGHOUT. FIVE PERCENT DISSEMINATED PYRITE. SPECTROMETER READINGS (4) 30-35.	9207	97.0	100.6	3.6'		0.002	
100.6	107.0	SIMILAR TO 8.0-96.0.							

DIAMOND DRILL RECORD & LOG

LOCATION: BROOKBANK

PROPERTY: METALORE RESOURCES

HOLE NO: 83-B29

LATITUDE: 5+00S DEPARTURE: 6+00W LENGTH: 852'
 INCLIN: -65° CORE SIZE: B0
 AZIMUTH: 342° DIP TESTS: _____
 STARTED: DEC. 12, 1983
 COMPLETED: _____
 PURPOSE: BROOK BANK

ELEVATION: _____
 CLAIM NO. _____
 SECTION: _____
 LOGGED BY: BARB KOWALSKI
 DATE LOGGED: DEC. 16, 1983
 DRILLED BY: BRADLEY BROS.
 DRILLED FOR: METALORE RESOURCES

FEET		DESCRIPTION	SAMPLE NO.	FOOTAGE		LENGTH	ASSAYS						
From	To			From	To		Au/lt						
107.0	137.0	DIORITE. MAFIC MINERALS (<1/8" IN SIZE) ARE NOT UNIFORMLY DISTRIBUTED IN THIS SECTION. WEAKLY MAGNETIC AND FRACTURED WHERE QUARTZ, CALCITE, EPIDOTE FILL IN THE LATTER. LOCALLY, DIORITE IS WEAKLY BRECCIATED WITH K-ALTERATION. TWO PERCENT DISSEMINATED PYRITE. AT 130.4-137.0 PHENOCRYSTS OF MAFIC MINERALS ARE DISPERSED THROUGHOUT THIS SECTION.											
137.0	232.6	DIORITE WITH UNIFORMLY DISTRIBUTED MAFIC MINERALS. SIMILAR TO 107.0-137.0.											
232.6	247.0	SIMILAR TO MAFIC VOLCANIC 8.0-96.0. SHARP CONTACT WITH DIORITE.											
247.0	249.2	QUARTZ VEIN WITH WEAKLY BRECCIATED AND POTASSIC ALTERED WALLROCK. FIVE PERCENT DISSEMINATED PYRITE.	9208	247.0	249.2	2.2'							TR
249.2	270.0	SAME AS 8.0-96.0. AT 268.2-269.2 QUARTZ VEIN WITH 5% DISSEMINATED PYRITE IN VERY WEAKLY K-ALTERED WALLROCK. SPECTROMETER READINGS 30 COUNTS PER MINUTE (2)	9209	268.2	269.2	1'							001

DIAMOND DRILL RECORD & LOG

LOCATION: BROOKBANK.

PROPERTY: METALORE RESOURCES.

HOLE NO: 83-B29

LATITUDE: 5700S DEPARTURE: 6700W

LENGTH: 852'

ELEVATION: _____

INCLIN: -65°

CORE SIZE: BQ

CLAIM NO. _____

AZIMUTH: 342°

DIP TESTS: _____

SECTION: _____

STARTED: DEC. 12, 1983.

LOGGED BY: BARB KOWALSKI

COMPLETED: _____

DATE LOGGED: DEC. 16, 1983

PURPOSE: BROOKBANK

DRILLED BY: BRADLEY BROS.

DRILLED FOR: METALORE RESOURCES.

FEET		DESCRIPTION	SAMPLE NO.	FOOTAGE		LENGTH	ASSAYS						
From	To			From	To		Au (%)						
699.6	720.0	SIMILAR TO 80-96.0 EXCEPT THIS SECTION IS WEAKLY FOLIATED (31° C/A), AND LOCALLY IT HAS WEAK DEVELOPMENT OF K-ALTERATION, BRECCIATION AND AN INCREASED NUMBER OF QUARTZ VEINLETS (1/4" IN WIDTH). SPECTROMETER READINGS (4) AT 25 COUNTS PER MINUTE. LESS THAN 1% DISSEMINATED PYRITE.											
720.0	744.7	GRASS-GREEN MAFIC SEDIMENT. GRANULAR IN APPEARANCE WITH LOCAL FEATURES AS DESCRIBED IN 699.6-720.0. LESS THAN 1% DISSEMINATED PYRITE.											
744.7	782.5	POLYMITIC-METACONGLOMERATE-WHERE-CLASTS-ARE-WELL-FLATTENED AND MATRIX HAS THE APPEARANCE OF A SCHIST. MATRIX IS WELL SHEARED WITH CHLORITIC VEINLETS (<1/8" IN WIDTH) AND BLACK VERY HARD, SILICEOUS MATERIAL (FOLIATION 40° C/A). LATE STAGE KINKED QUARTZ-VEINLETS-CROSS-CUTS-FOLIATION. SPECTROMETER READINGS ON GRANITIC CLASTS (4) 40 COUNTS PER MINUTE. THREE PERCENT DISSEMINATED PYRITE.											
		744.7-749.0 QUARTZ, MAFIC AND GRANITIC (40 COUNTS PER MINUTE) CLASTS ARE WELL FLATTENED.	9210	744.7	749.0	4.5'							TR

DIAMOND DRILL RECORD & LOG

LOCATION: BROOKBANKPROPERTY: METALORE RESOURCESHOLE NO: 83-B29LATITUDE: 5400SDEPARTURE: 6400WLENGTH: 852'

ELEVATION: _____

CLAIM NO. _____

INCLIN: -65°CORE SIZE: BQ

SECTION: _____

AZIMUTH: 342°

DIP TESTS: _____

LOGGED BY: BARB KOWALSKISTARTED: DEC. 12, 1983DRILLED BY: BRADLEY BROS.DATE LOGGED: DEC. 16, 1982

COMPLETED: _____

DRILLED FOR: METALORE RESOURCESPURPOSE: BROOKBANK

FEET		DESCRIPTION	SAMPLE NO.	FOOTAGE		LENGTH	ASSAYS						
From	To			From	To		Au/lt						
		777.0-782.5. VERY WELL FOLIATED MATRIX (50° C/A) WITH FLATTENED MAFIC, QUARTZ AND GRANITIC CLASTS. GRANITIC CLASTS ARE PALER IN COLOUR (25-30 COUNTS PER MINUTE). MASSIVE PYRITE VEINLETS (<1/2" IN WIDTH; 20%) OCCURS IN MAFIC CLASTS AND CHLORITIC VEINLETS. THE MASSIVE PYRITE VEINLETS ARE EVENLY DISTRIBUTED THROUGH THIS SECTION.	9216	777.0	782.5	5.5'			Tr				
782.5	789.6	SERICITE (CREAM)-CHLORITE-SCHIST, WITH PALE PINK QUARTZ AND PALE GREEN CHLORITIC VEINLETS. QUARTZ BLEBS WITH PINK HUE ARE FOUND THROUGHOUT THIS SECTION. TWO PERCENT VERY FINE-GRAINED-PYRITE.	9217	782.5	789.6	6.1'			Tr				
789.6	793.6	REDDISH-BROWN TO BLACK GREEN SCHIST. FOLIATION IS STRONG (45° C/A). BLACK-GREEN MATERIAL IS HARD. LESS THAN THREE PERCENT DISSEMINATED PYRITE.	9218	789.6	793.6	4.0'			Tr				
793.6	800.3	INTERMITTENT 782.5-789.6 AND 789.6-793.6. LESS THAN TWO PERCENT DISSEMINATED PYRITE.	9219	793.6	800.3	5.9'			Tr				

LOCATION: BROOKBANK

PROPERTY: METALORE RESOURCES

CLAIM NO. _____
 SECTION: _____
 LOGGED BY: Paul Kawabaki
 DATE LOGGED: Jan. 17

LATITUDE: 21005 DEPARTURE: 0+00 LENGTH: 352'
 INCLIN: -45 CORE SIZE: BQ
 AZIMUTH: 342° DIP TESTS: _____
 STARTED: Jan. 11, 1984
 COMPLETED: Jan. 14, 1984
 PURPOSE: Test Brookbank Ore Zone

ELEVATION: _____
 DRILLED BY: BRADLEY REOS
 DRILLED FOR: Metalore Resources

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS							
From	To			From	To		Au/t							
239.4	284.7	SIMILAR TO 10.0-31.8. DIORITE IS LOCALLY-NEARLY BRECCIATED - INCREASED NUMBER OF QTZ-CARB VEINLETS (<1/4" IN WIDTH). LESS THAN 1/2% Fe-CARB. LESS THAN 1/2% DISSEMINATED FINE-GRAINED PYRITE. FOLIATION 53° CIA.												
283.10	301.8	ALTERED ZONE SPECTROMETER READINGS. BKGD. 20-25cpm 283.10-285.3 QTZ-CARB VEINS (<2" IN WIDTH) WITH PALE PINK ALTERATION FINE-GRAINED PYRITE 1/2% IN DARK GREEN MATRIX AND OCCURS ALONG CHLORITIC MICROVEINLETS. 3/4% HEMATITE	9229	283.10	285.3	1.5			0.002					
		285.3-290.3 FEWER QTZ-CARB STRINGERS ROCK IS DARK BROWN BLACK WITH EXTREMELY WEAK-K-ALTERATION. WEAK FeCO ₃ AND <1/2% HEMATITE. ROCK IS SLIGHTLY HARDER THAN OVERLYING DIORITE. ONE PERCENT DISSEMINATED PYRITE THROUGHOUT. NON-MAGNETIC.	9230	285.3	290.3	5.0			0.01					
		290.3-292.8 INCREASED DEGREE OF DEFORMATION, QTZ STRINGERS AND CHLORITIC VEINLETS. ROCK IS V. HARD AND BLACK. ONE PERCENT DISSEMINATED PYRITE. 1/2% HEMATITE	9231	290.3	292.8	2.5			0.02					
		292.8-297.10 INCREASED DEGREE OF DEFORMATION, QTZ, CHLORITE STRINGERS AND Fe-CARBONATE.	9232	292.8	295.3	2.7			0.12					
			9234	295.3	297.10	2.7			0.13					

PROPERTY: METALORE RESOURCES

PAGE NO: 2 of 7

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS	
From	To			From	To		AULT	
		GROUND CORE 87.0 - 105.0						
		GROUND CORE 127.0 - 129.10"						
		GROUND CORE 154.0 - 156.0						
		GROUND CORE 162.0 - 169.0						
		AT 179.5"-180.5" QUARTZ-CARBONATE VEIN WITH 3% FINELY-DISSEMINATED PYRITE. GREATER THAN 30% OF VEIN IS FRACTURED WITH CHLORITE, WALKROCK, Fe-CARBONATE INFILLINGS.						
		AT 200.0-207.0 QUARTZ-CARBONATE VEIN BARREN FROM SULPHIDES. WALKROCK IS STRONGLY ALTERED (2") WITH HEMATITE PLUS SPECTROMETER READINGS (2) AT 30-35 COUNTS PER MINUTE INDICATE SOME POTASSIC ALTERATION. ONE PERCENT FINELY-DISSEMINATED PYRITE THROUGH ALTERED WALKROCK.						
280.0	293.10	ALTERED ZONE. SERICITE (YELLOWISH-CREAM) WITH DEEP RED HEMATITE PLUS POTASSIUM MAKE UP THE ALTERATIONS IN THIS SECTION. SPECTROMETER READINGS 30 COUNTS PER MINUTE. THIS ZONE HAS BEEN WEAKLY BRECCIATED. IRON-CARBONATE OCCURS IN VEINLETS.						
		AT 285.9"-289" SERICITE-Fe-CARBONATE AND QUARTZ CONTENT HAS INCREASED. WEAKLY BRECCIATED						
		AT 289-294 POTASSIC AND SERICITIC ALTERATIONS WEAKLY DEVELOPED. IN THIS DIORITE. SUBHEDRAL HORNBLende IS VISABLE THROUGH THE ALTERATIONS. FIVE PERCENT AND LESS, EUHEDRAL PYRITE WHICH IS COARSE-GRAINED AND ASSOCIATED WITH CHLORITE.						

PROPERTY: METALORE RESOURCES

PAGE NO: 3 of 7

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS	
From	To			From	To		AULT	
		LESS THAN 2% BLUE-METALLIC MINERAL WHICH OCCURS IN VEINLETS.						
293.10	356.0	FINE-GRAINED DIORITE (WITH BIODITE, Ca-PLAGIOCLASE, PYROXENE AND HORNBLENDE (SUBHEDRAL)) THAT IS WEAKLY FRACTURED WITH QUARTZ-CARBONATE (<1/8" IN WIDTH), EPIDOTE, Fe-CARBONATE AND CHLORITIC VEINLETS. LESS THAN 3% FINE- TO COARSE-GRAINED PYRITE.						
356.0	458.7"	FINE-GRAINED VESICULAR PILLOW SELVAGES IN MAFIC VOLCANIC. WEAKLY FRACTURED WITH Ca- AND Fe-CARBONATE, QUARTZ, EPIDOTE AND CHLORITE. LOCALLY VOLCANIC IS BRECCIATED BUT GENERALLY IT IS MASSIVE AND WEAKLY MAGNETIC. LESS THAN 2% FINE- TO COARSE-GRAINED PYRITE.						
458.7"	468.3"	ALTERED BRECCIA. Ca- AND Fe-CARBONATE, QUARTZ, AND CHLORITIC VEINLETS THROUGHOUT. PYRITE IS FINE- TO COARSE-GRAINED (15%), 2% BLUE METALLIC MINERAL.						
		QUARTZ VEIN AT 463.7"-466.4". IT IS BRECCIATED WITH Ca- AND Fe-CARBONATE. MASSIVE PYRITE VEINLETS ASSOCIATED WITH CHLORITE AND BLUE-METALLIC MINERAL THROUGHOUT.						
468.3"	492.0	SIMILAR TO MAFIC VOLCANIC AT 356.0-458.7"						
492.0	753.0	WEAK- TO MODERATELY- DEVELOPED FOLIATION IN WHAT BEGINS TO APPEAR TO BE A DIORITE. 495.0-> DIORITE IS SIMILAR TO 293.10-356.0 EXCEPT IT IS COARSE-GRAINED.						

PROPERTY: METALORE RESOURCES.

PAGE NO: 4 of 7

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS	
From	To			From	To			Au/t
		AT 602.0-603.0 QTZ-CARB VEIN WITH Fe-CARB, SERICITE AND CHLORITE. THREE PERCENT COARSE-GRAINED PYRITE.						
		AT 603.9-604.7' QTZ-CARB VEIN AS 602.0-603.0.						
		685.0-696.0 ALTERED DIORITE. IT HAS ACQUIRED A CREAMY COLOUR (SERICITE) AND A MODERATE FOLIATION (50° C/A). ONE PERCENT FINE-GRAINED PYRITE AND LESS THAN 1/2% FINE-GRAINED MAGNETITE.						
		696.0-707.10' WEAKLY BRECCIATED V. FINE-GRAINED DIORITE. IT HAS ACQUIRED A PINKISH-YELLOW HUE TWO PERCENT DISSEMINATED PYRITE CONCENTRATING NEAR AND WITHIN CHLORITIC VEINLETS.						
		707.10'-753.0 ALTERED ZONE. IT IS PINK-BROWN IN COLOUR, WEAKLY BRECCIATED WITH NUMEROUS VEINLETS (1/4" IN WIDTH) OF A LUSTROUS-METALLIC BLUE MINERAL (3%), 1% CHALCOPYRITE WHICH IS COARSE-GRAINED AND 3% DISSEMINATED PYRITE. THERE IS 2% Fe-CARBONATE, <1% SERICITE AND 1/2% QUARTZ-CARBONATE VEINLETS AND ONE 3" VEIN ALMOST BARREN FROM SULPHIDES AND CHLORITE. DIORITIC TEXTURE IS NOTICEABLY VISABLE THROUGH ALTERATION. SPECTROMETER READINGS 25-40 COUNTS PER MINUTE.						
753.0	784.0	MOSS-GREEN, VERY WEAKLY FRACTURED, MAFIC VOLCANIC. LOCALLY IT HAS ACQUIRED A STRONG FOLIATION, ACCOMPANIED BY Fe-CARBONATE, SERICITE AND POTASSIC ALTERATIONS AND IS ENRICHED IN PYRITE (3%). GENERALLY, THERE IS 1% FINE-						

PROPERTY: METALORE RESOURCES

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS	
From	To			From	To		Au/T	
		GRAINED PYRITE THROUGHOUT. TWO PERCENT QUARTZ AND SLIGHTLY PINKISH CARBONATE VEINLETS ARE PRESENT IN THIS SECTION. SPECTROMETER READINGS 20-30 COUNTS PER MINUTE.						
784.0	802.0	SIMILAR TO ALTERED ZONE 707.10'-753.0' EXCEPT THERE IS NO DIORITIC TEXTURE.						
802.0	858.0	SIMILAR TO MAFIC VOLCANIC 753.0-784.0.						
858.0	867.0	SIMILAR TO ALTERED ZONE 707.10-753.0 EXCEPT THERE IS NO DIORITIC TEXTURE.						
867.0	927.0	SIMILAR TO MAFIC VOLCANIC 753.0-784.0.						
927.0	950.0	SIMILAR TO ALTERED ZONE 707.10'-753.10' EXCEPT THERE IS NO DIORITIC TEXTURE.						
950.0	964.0	SIMILAR TO MAFIC VOLCANIC 753.0-784.0.						
964.0	966.1"	(QUARTZ VEIN PLUS WAKKROCK. VEIN IS WHITE (MILKY) AND ALMOST BARREN OF SULPHIDES. WAKKROCK IS BRECCIATED, 1/2% FE-CARBONATE, 5-2% PINENEY DISSEMINATED PYRITE.						
966.1"	1057.3'	MAFIC VOLCANIC SIMILAR TO 356.0-458.7'. ALTERED MAFIC VOLCANIC AT 1049.0-1057.3'. WHITE QUARTZ VEIN AT 1057.3'-1059.1'. QUARTZ IS WEAKLY FRACTURED WITH CHLORITE AND FE-CARB. VEINLETS. ASSOCIATED WITH THE FORMER IS FINE-GRAINED PYRITE (3%).						
1057.3'	1115.0'	DIORITE IS COARSE-GRAINED AND SIMILAR TO 293.10'-356.0'.						

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS	
From	To			From	To		Au/T.	
1115.0	1161.0	MAFIC VOLCANIC IS IN SHARP CONTACT WITH DIORITE. THIS SECTION HAS A WELL DEVELOPED FOLIATION AND IS MODERATELY BRECCIATED. IT IS MODERATELY WELL FRACTURED WITH Fe- AND Ca- CARBONATE VEINLETS, EPIDOTE, K-FELDSPAR, QUARTZ AND CHLORITIC VEINLETS. UP TO 3% FINELY DISSEMINATED PYRITE.						
1161.0	1251.0	ALTERATION ZONE. HIGHLY DEFORMED, VERY WELL BRECCIATED, DARK RED-BROWN TO BLACK (SILICIFIED) ROCK. THIRTY PERCENT Fe- CARBONATE, 3% QUARTZ AND Ca- CARBONATE (PINKISH HUE) VEINLETS. FIFTEEN PERCENT EXTREMELY FINE-GRAINED DISSEMINATED PYRITE. ROCK IS MODERATELY HARD AND WEAKLY MAGNETIC. SPECTROMETER READINGS 30-50 COUNTS PER MINUTE. (FOLIATION 60-65° TO C/A). AT 1187.0-1194.0 ROCK HAS ACQUIRED A STRONGER FOLIATION (65° TO C/A) BUT IS SIMILAR TO THE ABOVE. 1194.0-1202.0 STRONGLY FOLIATED WITH AN INCREASE OF Fe- CARBONATE AND SERICITE. FIFTEEN PERCENT EXTREMELY FINE-GRAINED PYRITE AND 1% OF EXTREMELY FINE-GRAINED MAGNETITE AND SPECULARITE. 1202.0-1207.0 SIMILAR IN APPEARANCE TO 1187.0-1194.0 BUT HAS AN INCREASED AMOUNT OF MOSS-GREEN CHLORITE. 1207.0-1212.0. QTZ-CHLORITE-SERICITE-Fe-CARB SCHIST. WELL BRECCIATED STRONGLY FOLIATED WITH SPECTROMETRE READINGS 40-70 COUNTS PER MINUTE. UP TO 15% EXTREMELY FINE-GRAINED PYRITE AND 1% EXTREMELY FINE-GRAINED MAGNETITE AND SPECULARITE.						

LOCATION: BROOKBANKPROPERTY: METALORE RESOURCESHOLE NO: 84-B33LATITUDE: 0+67SDEPARTURE: 15+55WLENGTH: 107.0'ELEVATION: 997'

CLAIM NO. _____

INCLIN: -45°CORE SIZE: BQ

SECTION: _____

AZIMUTH: 342°

DIP TESTS: _____

LOGGED BY: Arnt KowabkiSTARTED: JAN. 31, 1984COMPLETED: JAN. 31, 1984DRILLED BY: Bradley Bros.DRILLED FOR: Metalore ResourcesDATE LOGGED: JAN. 31, 1984PURPOSE: BROOKBANK ZONE

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS							
From	To			From	To									
00	40.0	VOLCANIC BRECCIA. INTENSE MICROFRACTURING WITH QUARTZ, EPIDOTE AND CHLORITE STRINGERS THROUGHOUT. ROCK IS NON-MAGNETIC IN UNALTERED AREAS												
		00-4.0 RUSTY COLOUR (WEATHERED SULPHIDES) BRECCIA WITH 3% FINELY-DISSEMINATED PYRITE. THERE IS SOME POTASSIC ALTERATION WITH SPECTROMETER READINGS RANGING FROM 30-40 COUNTS PER MINUTE.	9287	0.0	4.0	4.0					0.01			
			9288	4.0	8.7	4.7					Nil			
		4.0-8.7 SIMILAR TO ABOVE EXCEPT K-ALTER. IS POORLY DEVELOPED AND WEAKLY BRECCIATED; < 2% FINELY-DISSEMINATED PYRITE.												
		8.7-11.7 STRONG K-ALTERATION AND BRECCIATION. TWO PERCENT Fe-CARBONATE. LESS THAN 5% FINE-GRAINED PYRITE. SPECTROMETER READINGS RANGE 30 TO 40 COUNTS PER MINUTE. HEMATITE MAY BE ACCOMPANIED WITH K-ALT. THUS GIVING BRICK RED COLOUR.	9289	8.7	11.7	3.0'					0.10			
		11.7-15.0 ROCK HAS ACQUIRED AN ORANGE COLOUR. INTENSELY FRACTURED WITH 80% Fe-CARBONATE VEINLETS AND 2% QUARTZ. LESS THAN 5% FINE-GRAINED PYRITE. SPECTROMETER READINGS GENERALLY RANGE	9290	11.7	15.0	3.5'					0.30			

LOCATION: BROOKBANK

PROPERTY: METALORE RESOURCES

HOLE NO: 84-B33

LATITUDE: 0767S

DEPARTURE: 15+55W

LENGTH: 107.0'

ELEVATION: _____

CLAIM NO. _____

INCLIN: -45°

CORE SIZE: BQ

P.T.S.: POLISHED THIN SECTION

AZIMUTH: 342°

DIP TESTS: _____

LOGGED BY: Bail Kowalski

STARTED: JAN. 31, 1984

DRILLED BY: Bradley Bros.

DATE LOGGED: JAN. 31, 1984

COMPLETED: JAN. 31, 1984

DRILLED FOR: Metalore Resources

PURPOSE: BROOKBANK ZONE

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS		
From'	To			From	To			Au/T	P.T.S.
		FROM 30-40, BUT OCCASSIONALLY READS 60 COUNTS PER MINUTE.							
		15.0-20.0 SIMILAR TO 4.0-8.7.	9291	15.0	20.0	50'		0.03	
		20.0-40 SIMILAR TO 4.0-8.7 EXCEPT VOLCANIC IS ALTERED, MINERALIZED AND BRECCIATED LOCALLY (SIFOOT SECTIONS)							
		25.0-26.0 4% FINELY-DISSEMINATED PYRITE:	9292	25.0	26.0	1.0'		0.002	
		30.6-31.6 4% FINELY-DISSEMINATED PYRITE.	9293	30.6	31.6	1.0'		0.32	
40.0	60.5	VOLCANIC BRECCIA WITH MINOR Fe-CARBONATE, CHLORITE, HEMATITE DEVELOPMENT. EPIDOTE HAS INCREASED. LESS THAN 1% FINELY DISSEMINATED PYRITE.							
		AT 58.8 CALQZ VEIN WITH MINOR K-ALTERATION AND HEMATITE IN WALLROCK. THREE PERCENT COARSE-TO FINE-GRAINED PYRITE. LESS THAN 1% CHALCOPYRITE, AND LESS THAN 1/2% Sphalerite IN QUARTZ.	9294	58.8	60.5	1.9'		0.005	
		LESS THAN 1/2% EPIDOTE IN WALLROCK.	9295	60.5	61.2	0.9'		1.62	
60.5	107.0	FINE-GRAINED, MEDIUM-GREEN DIORITE. VEINLETS (2%) ARE FILLED WITH Fe- AND Ca-CARB, QZ, CHLORITE AND EPIDOTE. LESS THAN 1% FINE-GRAINED PYRITE.							

P.T.S.
84-B33-1

LOCATION: BROOK BANK

PROPERTY: METALORE RESOURCES

HOLE NO: 84 BE-34

LATITUDE: 2409 E DEPARTURE: 1400S

LENGTH: 257.0'

ELEVATION: _____

CLAIM NO. _____

INCLIN: -45°

CORE SIZE: BQ

SECTION: _____

AZIMUTH: 32°

DIP TESTS: _____

LOGGED BY: Paul Kowalski

STARTED: FEB 1, 1984

DRILLED BY: Bradley Bross

DATE LOGGED: FEB 2, 1984

COMPLETED: FEB 2, 1984

DRILLED FOR: Metalore Resources

PURPOSE: TEST BROOK BANK ZONE

Paul K

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS						
From	To			From	To		Au/T						
0.0	13.0	CASING											
13.0	85.0	FINE-GRAINED, MASSIVE MAFIC VOLCANIC. WEAKLY MAGNETIC AND POOR DEVELOPMENT OF ALTERATION. ACCOMPANIED WITH LOCALIZED ALTERED AREAS ARE BRECCIATION, AND 2% FINE-GRAINED PYRITE. LESS THAN 5% QTZ-CARB VEINLETS WITH FAINT PINK HUE. FOLIATION IS POORLY DEVELOPED.	9323	33.0	36.0	3.0		0.02					
85.0	127.0	DIORITE IS MEDIUM-GRAINED WITH EPIDOTE ALTERATION (<3%). LESS THAN 2% QTZ-CARB (WHITE) VEINLETS THROUGHOUT. IT IS MASSIVE AND WEAKLY MAGNETIC. LESS THAN 1/2% FINELY DISSEMINATED PYRITE THROUGHOUT.											
127.0	150.0	FINE-GRAINED, GRANULAR IN APPEARANCE MAFIC SEDIMENT. FOLIATION VERY POORLY DEVELOPED. LESS THAN 2% QTZ-CARB VEINLETS THROUGHOUT LESS THAN 1/2% FINE-GRAINED PYRITE.											
150.0	257.0	POLYMITIC METACONGLOMERATE WITH FLATTENED JASPER, QTZ, AND FELDSPATHIC CLASTS. IT IS MODERATELY WELL FOLIATED (66° TO CIA). LESS THAN 1/2% FINE-GRAINED PYRITE.	9319 9320 9321 9322	204.0 214.0 222.0 227.0	209.0 219.0 227.0 232.0	5.0 5.0 5.0 5.0		TR TR TR TR					

LOCATION: BROOKBANK.

PROPERTY: METALORE RESOURCES LTD.

HOLE NO: 84-1338

LATITUDE: 13+43W

DEPARTURE: 7+89S

LENGTH: 1922'0"

ELEVATION: 999

CLAIM NO. TB 29038

INCLIN: -75°

CORE SIZE: NQ - 1 7/8"

SECTION: VERTICAL

AZIMUTH: 340° 1353' AT 1908'

DIP TESTS: Capillarity Corrected.

LOGGED BY: Bob Kowalski

STARTED: MAR 3 '84

1400' -75°

DATE LOGGED: MAR 12 '84

COMPLETED: MAR 15 '84

800' -77°

PURPOSE: BROOKBANK ZONE.

1200' -77°

1600' -77°

1922' -77°

DRILLED BY: Bradley Bros.

DRILLED FOR: Metalore Resources Ltd.

OK

BACKGROUND SPECTROMETER (K) READINGS 250 COUNTS PER MINUTE.

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS						
From	To			From	To		Au						
0.0	6.0	CASING.											
6.0	71.0	QTZ-CHLORITE-K-FELDSPAR SCHIST. LESS THAN 1% Fe-CARB. FOLIATION 25° TO CIA. SPECTROMETER READINGS 30-50 COUNTS PER MINUTE. ONE PERCENT FINE-GRAINED DISSEMINATED PYRITE THROUGHOUT.	9435	17	22	5				0.002			
		22.0-42.9 QTZ-CHLORITE-FUCHSITE (MARIPOSITE)-Na+K-FELDSPAR. SCHIST. FOLIATION 30° TO CIA. ONE PERCENT FINELY DISSEMINATED PYRITE, ALONG CHLORITE SEAMS. GRADATIONAL INCREASE OF SERICITE.	9436	22	27	5				0.002			
		42.9-67.0 ZONE OF ALTERATION AND SILICIFICATION. ALTERATION PREDOMINATELY IS A SERICITIC BRECCIA WITH LESS THAN 1% Ca- + Fe-CARBONATE VEINLET + LESS THAN 1/2% PYRITE. APPROXIMATELY ONE FOOT SECTIONS ARE SILICIFIED WITH 3% ASSOCIATED PYRITE. SPECTROMETER READINGS 20-40 COUNTS PER MINUTE.	9437	42.9"	43.6"	0.9"				0.024			
			9438	43.6"	44.6"	1.0				0.018			
			9439	44.6"	48	3.6"				0.02			
			9440	48	53	5				0.012			
			9441	53	58	5				0.004			
			9442	58	63	5				0.002			
			9443	63	68	5				0.002			
71.0	352.0	SHARP CONTACT. MAFIC VOLCANIC IS MASSIVE, FINE-GRAINED WITH WEAKLY DEVELOPED ALTERATIONS AND FRACTURING THROUGHOUT. VOLCANIC IS VESICULAR AND WEAK PILLOW SEEVAGES ARE	9444	68	71	3				0.002			

PROPERTY: METALORE RESOURCES.

PAGE NO: 3 of 4

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS	
From	To			From	To		g/t	
		(<1/2" WIDTHS) OF SPECULARITE (35%), 15% CHALCOPYRITE WHICH IS COARSE-GRAINED, AND 3% DISSEMINATED PYRITE SPECTROMETER READS BACKGROUND IN LOCALLY ALTERED AREAS (200 COUNTS PER MINUTE). FOUR PERCENT QUARTZ-CARBONATE VEINLETS THROUGHOUT. THIS ZONE IS MORE MAGNETIC THAN ALL OTHER DIORITIC UNITS.						
1732.0	1848.9	ALTERATION ZONE STRONGLY FOLIATED (30° CIA) VOLCANIC WITH NUMEROUS PINK-QTZ-CARBONATE VEINLETS. 22% FINELY DISSEMINATED PYRITE. 4% FINELY DISSEMINATED CHALCOPYRITE.						
		1742.0-1747.0 STRONG FOLIATION PLUS WEAKLY DEVELOPED BRECCIA. Fe-CARB, SERICITIC ALTERATIONS ARE WEAKLY DEVELOPED. THIS ZONE IS MODERATELY SILICIFIED (30%). 3% FINELY DISSEMINATED PYRITE. SPECTROMETER READING 200-300 COUNTS PER MINUTE.						
		1747.0-1751.0 AS 1742.0-1747.0 WITH AN INCREASE AMOUNT OF Fe-CARBONATE, BRECCIATION, SILICIFICATION AND K-ALTERATION. MINOR DEVELOPMENT OF SERICITE. SPECTROMETER READINGS 300-500 COUNTS PER MINUTE.						
		1751.0-1755.0 WEAKER ALTERATIONS THAN 1747.0.						
		1755.0-1764.0 WEAKER ALMOST FAINTLY DEVELOPED ALTERATION. IT IS THE SAME AS 1732.0-						

METALORE RESOURCES LTD. DIAMOND DRILL LOG

Location: BROOKBANK WEST GRID Hole No. B38A

Latitude: - Departure ND TRO-PARI Elevation: - Length: 137' Core Size NQ-1 7/8" Claim No. TB 29038 Started JULY 19, 1984

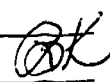
Azimuth: <u>-</u>	Tropari/Dip Tests:							
Dip: <u>-</u>								

Completed: JULY 20, 1984
 Logged by: BARBARA KOWALSKI
 Drilled by: BRADLEY BROS. LTD.

Purpose: TO INTERSECT BROOKBANK CONTACT ZONE.

Footage		Description	Sample No.	Footage		Length	Assays	
From	To			From	To		Au oz/ton	
		BACKGROUND SPECTROMETER (K) READINGS 200-300 COUNTS PER MIN.						
		THE DESCRIPTION FOR THIS DEFLECTION CAN BE BEST DESCRIBED AS THREE DISTINCTIVELY DEFORMED SECTIONS A, B, C.						
720.6"	1832.6"	ALTERED DIORITE. TEXTURE VISIBLE THROUGH ALTERATION. SECTIONS B, C SPECTROMETER READINGS (K) 400-700 COUNTS PER MIN.						
		A HIGHLY DEFORMED, FOLIATED (25°-30° TO CIA) DARK GREEN ROCK. STRINGERS OF Ca- AND Fe-CARBONATE, QUARTZ AND CALCITE ARE FOLIATED. WEAK PINK ALTERATION (BKGD) WITH SOME BRICK RED HEMATITE. 2% EXTREMELY F.G., DISSEMINATED Py.						
		B 1739.2" - 1751.6" 4% SILICIFIED, BRECCIATED, PINK AND BRICK RED (HEMATITE) ALTERATIONS. 5-8% EXTREMELY F.G. Py.						
		C 1751.6" - 1765.10" 10% SILICIFIED, HIGHLY FOLIATED, BRICK RED HEMATITE THROUGHOUT. 2% F.G. DISSEMINATED Py.						
		A 1765.10" - 1811 SAME AS 1720.6" - 1739.2" - LOCAL Py CONTENT 2-5%.						
		C 1811 - 1821 SAME AS 1751.6" - 1756.6" 2-5% EXTREMELY F.G. Py.						

Footage		Description	Sample No.	Footage		Length	Assays	
From	To			From	To		Au oz/ton	
	B	1821-1832 40% SILICIFIED, BRECCIATED PINK AND RED ALTERATIONS. 5-8% EXTREMELY F.G. Py.						
1832.6"	1837	SHARP CONTACT						
		40% SILICIFIED QTZ-CHLORITE-SERICITE-CARBONATE SCHIST. FOLIATION 32° TO CIA. BRECCIATED IN PLACES WITH BRICK RED HEMATITE AND PINK ALTERATIONS. 2% EXTREMELY F.G. DISSEMINATED Py.						
1837	1857	SHARP CONTACT.						
EOH		POLYMIC TIC METACONGLOMERATE. QTZ, JASPER <1", MAFIC, FELDSPATHIC <1"-4" FLATTENED CLASTS. THE FELDSPATHIC CLASTS ARE ENRICHED WITH Fe-CARBONATE, (BROWN). THE MATRIX IS WELL FOLIATED, HOMOGENEOUS GREEN (CHLORITE). NO SULPHIDES.						

METALORE RESOURCES LTD. DIAMOND DRILL LOG Location: BROOKBANK WEST GRID Hole No. 81-B-38-B
 Latitude: 7+15S Departure 13+70W Elevation: 999' Length: 1267' Core Size BQ-1 7/16" Claim No. TB 29038 Started JULY 20, 1984.
 Azimuth: 356° Tropari/Dip Tests: 407' -70° 800' -70° 1200' -66° 1267' -66° Completed: AUGUST 4, 1984.
 Dip: -75° (T) 356° Logged by: BARBARA KOWALSKI
 Purpose: TO INTERSECT BROOKBANK CONTACT ZONE Drilled by: BRADLEY BROS. LTD. 

Footage From	Footage To	Description	Sample No.	Footage		Length	Assays	
				From	To		Au oz/ton	
		BACKGROUND SPECTROMETER (K) READINGS 400 COUNTS PER MINUTE.						
0.0	8.0	CASING						
8.0	76.0	INTERMITTENT GROUND CORE						
8.0	88.9"	MAFIC VOLCANIC. VESICULAR PINNACLES IN THIS MASSIVE VOLCANIC. IT IS VERY WEAKLY FRACTURED WITH STRINGERS OF QTZ, Ca- AND Fe- CARBONATE, EPIDOTE, & HEMATITE ALONG SLIP-PAGE PLANES. VOLCANIC IS VERY WEAKLY MAGNETIC. AT 35-37 QTZ-CARB VEIN 1% M.G. Py. <1% M.G. DISSEM. Py.						
88.9"	265	DIORITE. MASSIVE, HOMOGENEOUS, MEDIUM-GRAINED DIORITE. STRINGERS AND FRACTURING SAME AS 8.0-88.9". <1/2% M.G. Py. NO DEFORMATION & ALTERATION IN THIS UNIT.						
265	283	MAFIC VOLCANIC. SAME DESCRIPTION AS 8.0-88.9" SHARP CONTACT.						
283	297	DIORITE. SAME DESCRIPTION AS 88.9"-265. SHARP CONTACT. 295-2970 MILKY WHITE QUARTZ VEIN WITH A WEAK PINK ALTERATION. 1% M.G. Py.						
297	337	MAFIC VOLCANIC SAME AS 8.0-88.9"						

Footage		Description	Sample No.	Footage		Length	Assays		
From	To			From	To		Au oz/ton.		
337	389	DIORITE. SAME AS 88.9" - 265 WITH WEAKLY ALTERED AND BRECCIATED SECTIONS. 1% M.G. Py.							
387	404.5"	MAFIC VOLCANIC. SAME AS 8.0-88.9"							
404.5"	1000	DIORITE SAME AS 88.9" - 265. WITH WEAKLY BRECCIATED AND ALTERED SECTIONS. THESE SECTIONS ARE SILICIFIED (WEAKLY - FISSURE VEINING). 2% F.G. - T.G. Py + FINELY DISSEMINATED Spec.							
		420 - 427.6" ALTERED ZONE. SANDY-PINK IN COLOUR. IT IS BRECCIATED WITH STRINGERS OF QTZ, + K-FELDSPAR. ROCK IS VERY HARD AND SILICEOUS. 5% F.G. DISSEM. Py + 42% Spec.	9526	421	423.6"	2.6"			Ni 1
			9553	423.6"	426.1"	2.7"			0.002
			9527	426.1"	427.7"	1.6"			0.01
		427.6" - 430.6" MILKY WHITE QTZ VEIN WITH CHLORITIC VEINLETS THROUGHOUT. 4% DISSEM. + AGGREGATES OF Py.	9554	427.7"	429.1"	1.6"			0.042
			9528	429.1"	431.3"	2.2"			0.005
		430.6" - 474 THIS ZONE IS STRONGLY FOLIATED (30° CIA) WITH PALE GREEN CRYSTALS + CRYSTALS OF PLAGIOCLASE FELDSPAR IN A SOFT CHLORITIC MATRIX. QTZ-CARB STRINGERS THROUGHOUT. CRYSTALS + FOLIATION GRADUALLY BECOME WEAK AT END OF SEQUENCE.							
		540 - 554 SAME AS 420 - 427.6" IT IS SANDY (SERICITE?) PINK (K-FELDSPAR) IN COLOUR, IN A SILICEOUS MATRIX. 3% C.G. Py, <2% STRINGERS OF Spec; <1% Cpy.							
		554 - 560 SAME AS 430.6" - 474.0							
		THIS ALTERATION WITHIN THE DIORITE IS REPEATED BUT IN							

Footage To	Description	Sample No.	Footage		Length	Assays Au oz/ton	
			From	To			
	NARROW SECTIONS, THAN DESCRIBED ABOVE						
	757-777 ALTERED DIORITE DESCRIBED AT 420-427.6"						
	758-761 MILKY WHITE QUARTZ VEIN WITH $< \frac{1}{2}$ % M.G. Py + 1% F.G. Spec IN CHLORITIC SEAMS.						
	DIORITE BECOMES FINER-GRAINED DOWNHOLE. INTERMITTENT GROUND CORE FROM 847-880.						
1141	MAFIC VOLCANIC. SHARP CONTACT WITH A FINE-GRAINED, MASSIVE VESICULAR PINNOW SELVAGES THROUGHOUT VOLCANIC. STRINGERS + BLEBS OF Fe- + Ca-CARBONATE, QTZ + EPIDOTE LOCAL HEAVY CONCENTRATION OF EPIDOTE. 1% F.G.-M.G.Py.						
1141	ALTERED MAFIC VOLCANIC.						
	1146-1148.6" DARK RED BLACK ROCK. IT IS WELL FOLIATED 35° CIA. < 3% QTZ + > 80% CHLORITE. STRINGERS OF Fe- AND Ca-CARBONATE THROUGHOUT. SPECTROMETER READINGS 400-600 C.P.M. IT IS MAGNETIC. $\frac{1}{2}$ % F.G. Py.	9555	1146	1148.6"	2.6"		0.002
	1148.6"-1150.9" INCREASE IN DARK RED ALTERATION (HEMATITE) AND QTZ THAN IN 1146-1148.6". SPECTR. 400-500 C.P.M. $< \frac{1}{2}$ % F.G. Py.	9529	1148.6"	1150.9"	2.3"		0.005
	1150.9"-1153.7" SIMILAR TO 1148.6"-1150.9" WITH 2" BRECCIATED SERICITIC SECTIONS, AND AN INCREASE IN QTZ CONTENT. $< \frac{1}{4}$ % F.G. Py.	9556	1150.9"	1153.7"	3.10"		0.012

Footage		Description	Sample No.	Footage		Length	Assays	
From	To			From	To		Au oz/ton	
	●	1153.7" - 1157 SIMILAR TO 1148.6" - 1150.9" BUT SECTIONS ARE INTENSELY BRECCIATED & SERICITIZED. <1/20% F.G. Py.	9530	1153.7"	1157	3.5"		Ni/
			9557	1157	1159.8"	2.8"		0.002
			9531	1159.8"	1161.9"	2.1"		0.005
		1161 - 1164.10" 40% HEMATITE (BRECCIATED) IN SECTION + 5% QTZ IN THIS BLACK (CHLORITIC) ROCK. SPECT. 400-700 C.P.M. 1% F.G. Py.	9558	1161.9"	1164.10"	2.1"		0.002
		1164 - 1167 EXTREMELY WELL FOLIATED (40° C/A); 30% QTZ, 60% CHLORITE, 10% K-FELDSPAR, HEMATITE, SERICITE, Fe- AND Ca- CARBONATE. 1% F.G. Py ALONG CHLORITIC, CARB, HEMATITE SEAMS.	9532	1164.10"	1167	2.2"		0.002
			9559	1167	1169.6"	2.6"		0.002
		1169.6" - 1172.11" AS PREVIOUS SECTION EXCEPT 90% SILICIFICATION						
		1192.3" - 1213 EXTREMELY WELL FOLIATED, SILICEOUS, HEMATITE, & CHLORITE IN THIS SECTION. DARK RED IN COLOUR WITH BLACK SECTIONS. Fe- & Ca- CARB THROUGHOUT FOLLOWING FOLIATION. SPECTR. 400-650 C.P.M. 1% F.G. Py.						
		1213 - 1214.6" HIGHLY SILICEOUS, Fe- AND Ca- CARBONATE, CHLORITE WITHIN THIS WELL FOLIATED SECTION. 3% F.G. Py, <1/4% F.G. Cpy, & ROCK IS WEAKLY MAGNETIC.						
		1214.6" - 1236.11" EXTREMELY SILICEOUS, Fe- AND Ca- CARBONATE, CHLORITE WITHIN THIS SECTION. 5% EXTREMELY F.G. Py, <1/4% Po & IS WEAKLY MAGNETIC.						
		1236.11" - 1244.6" QTZ-CHLORITE-SCHIST (P. Cong?). 5-8% EXTREMELY F.G. DISSEM. Py, <1/4% Po, <1/4% Cpy, NON-Magnetic.						

Footage To	Description	Sample No.	Footage		Length	Assays Au oz/ton	
			From	To			
	1244.6" - 1247 SIMILAR TO 1236.1" - 1244.6" EXCEPT INCREASE IN DARK GREEN CHLORITE. DECREASE IN QTZ CONTENT + $1/2\%$ SULPHIDES.						
1267	SHARP CONTACT WITH POLYMIC TIC METACONGLOMERATE. QTZ, FERDSPATHIC, MAFIC, JASPER PEBBLES + COBBLES. $1/2\%$ DISSEM. Py.						

METALORE RESOURCES LTD. DIAMOND DRILL LOG

Location: BROOKBANK WEST GRID

Hole No. B38C

Latitude: 7+15S Departure 13+70W Elevation: - Length: 185' Core Size BQ-1 7/16" Claim No. TB 29038 Started July 27, 1984

Azimuth: DEFLECTION Tropari/Dip Tests: 358 1/2° -66° Completed: July 28, 1984

Dip: DEFLECTION AT 1275' Logged by: BARBARA KOWALSKI

Purpose: INTERSECT BROOKBANK CONTACT ZONE Drilled by: BRADLEY BROS. LTD.

Footage From	Footage To	Description	Sample No.	Footage		Length	Assays	
				From	To		Au oz/ton.	
090	1144	MAFIC VOLCANIC. FINE-GRAINED, MASSIVE, VESICULAR PILLOW SELVAGES IN THIS MODERATELY MAGNETIC VOLCANIC. WEAKLY FRACTURED WITH Fe- AND Ca- CARBONATE, QUARTZ, EPIDOTE STRINGERS & VEINLETS.						
1144	1254	ALTERED MAFIC VOLCANIC. IT IS WELL FOLIATED AND WEAKLY BRECCIATED IN SECTIONS. HEMATITE AND PINK ALTERATION BECOME PROMINANT DOWNHOLE. 1164.2" - 1219 STRONG PINK TO RED ALTERATION 400-650 COUNTS PER MINUTE. CHLORITIC VEINLETS WITH 1/2% F.G. Py & <1/4% Spec. DOWNHOLE ROCK GRADUALLY BECOMES MORE SHEARED & SILICIFIED. 1219-1240 ACCOMPANIED WITH SILICIFICATION IS AN INCREASE OF Py (WHICH BECOMES EXTREMELY F.G.) AND THE GRADUAL DEPLETION OF Fe- AND Ca- CARBONATE, HEMATITE, PINK ALTERATION AND BRECCIATION. FOLIATION IS PROMINANT AT 1240-1254 WHERE IT MAY BE CALLED A QTZ-CHLORITE SCHIST. <1/8% SERICITE THROUGHOUT THIS SILICEOUS ZONE. 1219-1254 5-8% EXTREMELY F.G. Py, <1/4% Po, <1/4% Cpy, <1/4% Spec. GRADUALLY THIS ZONE BECOMES NON-MAGNETIC.						

METALORE RESOURCES LTD.

DIAMOND DRILL LOG

Location: BROOKBANK WEST GRID

Hole No. B380

Latitude: 7155

Departure 1370W

Elevation: -

Length: 107'

Core Size BQ- P/16"

Claim No. TB 29038

Started JULY 30, 1984

Azimuth: DEFLECTION

Tropari/Dip Tests:	<u>359°</u>	<u>-61°</u>					
Dip:	<u>AT</u>	<u>1275'</u>					

Completed: JULY 31, 1984

Logged by: BARBARA KEWALSKI

Dip: DEFLECTION

Drilled by: BRADLEY BROS. LTD.

Purpose: INTERSECT BROOKBANK CONTACT ZONE

Footage From	Footage To	Description	Sample No.	Footage		Length	Assays	
				From	To		Au oz/ton.	
1068	1141	MAFIC VOLCANIC, MASSIVE, FINE-GRAINED WITH VESICULAR PILLOW SELVAGES. IT IS WEAKLY FRACTURED WITH STRINGERS + BLEBS OF EPIDOTE, Fe- AND Ca- CARBONATE, AND QUARTZ. IT IS MODERATELY MAGNETIC.						
1141	1220	DEFORMED MAFIC VOLCANIC. IT IS WELL FOLIATED AND BRECCIATED. Fe- AND Ca- CARBONATE STRINGERS + VEINLETS ARE PINK IN COLOUR SUGGESTING HEMATITE + K-ALTERATIONS. THE FOLIATION, HEMATITE + K-ALTERATION BECOME MORE PROMINANT DOWNHOLE.						
		1181-1214 STRONG PINK TO RED ALTERATIONS (SPECTR. 400-650 COUNTS PER MIN) WITH CHLORITIC VEINLETS THROUGHOUT. THESE CHLORITIC VEINLETS HAVE 1/2% DISSEMINATED F.G. Py, Cpy + <1/4% Spec..						
		FURTHER DOWNHOLE ROCK BECOMES PROGRESSIVELY MORE SHEARED + GRADUALLY SILICIFIED.						
		1214-1220 ACCOMPANIED WITH SILICIFICATION IS AN INCREASE OF FINELY DISSEMINATED Py (10%) AND THE GRADUAL DEPLETION OF Fe- AND Ca- CARBONATE, HEMATITE, PINK ALTERATION + BRECCIATION.						

From	Footage	Description	Sample No.	Footage		Length	Assays		
				From	To		Au oz/ton		
1220	1232	<p><u>DEFORMED & ALTERED POLYMIC TIC METACONGLOMERATE.</u> IT IS WEAKLY PRECIPITATED IN SECTIONS & EXTREMELY WELL FOL- IATED. SERICITE, & CHLORITE ARE THE COMMON ALTERATION MINERALS. REMNANT EXTREMELY FLATTENED QTZ, FELDSPATHIC, JASPER (<1/4") CLASTS THROUGHOUT. 1-2% EXTREMELY F.G. Py, <1/4% Cpy, <1/4% Po. IT IS NON-MAGNETIC.</p>							
1232	1275	<p><u>SHARP CONTACT WITH POLYMIC TIC METACONGLOMERATE.</u> QTZ, FELDSPATHIC, MAFIC & JASPER CLASTS. MATRIX IS WELL FOLIATED (35° CIA) WITH QTZ, Ca- & Fe-CARBONATE STRINGERS THROUGHOUT. <1/4% F.G. Py, <<1/4% Cpy. IT IS NON-MAG- NETIC.</p>							

METALORE RESOURCES LTD. DIAMOND DRILL LOG Location: BROOKBANK WEST GRID. Hole No. B38E
 Latitude: 7155 Departure 1370W Elevation: - Length: 116' Core Size BQ-1 7/16" Claim No. TB 29038 Started AUG. 1, 1984
 Azimuth: DEFLECTION Tropari/Dip Tests:

354°	-65°					
AT	1255'					

 Completed: AUGUST 2, 1984
 Dip: DEFLECTION Logged by: BARBARA KOWALSKI
 Purpose: TO INTERSECT BROOKBANK CONTACT ZONE Drilled by: BRADLEY BROS. LTD

Footage		Description	Sample No.	Footage		Length	Assays	
From	To			From	To		Au oz/ton	
1039	1145.2"	MAFIC VOLCANIC. IT IS MASSIVE, FINE-GRAINED WITH VESICULAR PIKHOW SELVAGES. IT IS WEAKLY FRACTURED WITH Fe- AND Ca-CARBONATE + QTZ STRINGERS. IT IS MODERATELY MAGNETIC.						
1145.2"	1249.8"	ALTERED MAFIC VOLCANIC. IT IS WELL FOLIATED (35° CIA) + WEAKLY BRECCIATED IN SECTIONS. HEMATITE + PINK ALTERATION IN THE FORM OF BLEBS + STRINGERS BECOME PROMINANT DOWNHOLE. 1149.8" - 1212 STRONG PINK TO RED ALTERATION (ESPECIALLY AT 1162.1" - 1165.1") WITH CHLORITIC VEINLETS THROUGHOUT. WITHIN THESE VEINLETS 1/2% F.G. DISSEMINATED Py, Cpy) < 1/4% Spec. Spectrometer 400-750 COUNTS PER MIN. DOWNHOLE ROCK BECOMES PROGRESSIVELY MORE SHEARED + GRADUALLY SILICIFIED. 1212 - 1221 ACCOMPANIED WITH SILICIFICATION IS AN INCREASE OF FINELY DISSEMINATED Py (10%) AND THE GRADUAL DEPLETION OF Fe- + Ca-CARBONATE, HEMATITE + PINK ALTERATION + BRECCIATION. 1221 - 1245.1" SILICIFIED BUT WEAKLY BRECCIATED WITH CHLORITIC + SPECULARITE VEINLETS. NON-MAGNETIC ROCK.						

From	To	Description	Sample No.	Footage		Length	Assays	
				From	To		Au oz/ton	
		1245.1" - 1247.8" BLACK & HARD SILICEOUS ROCK. <1% F.G. Py, <1/4% Cpy.						
		1247.8" - 1249.8" EXTREMELY WELL FOLIATED CHLORITE-SERICITE SCHIST WITH 2% FINELY DISSEMINATED Py.						
249 ECH	1255	POLYCLYTIC META CONGLOMERATE. CLASTS RANGE FROM PEBBLES TO COBBLES & COMPOSITION VARIES FROM QTZ, FENDSPATHIC, MAFIC & JASPER. GREEN HOMOGENEOUS MATRIX.						

METALORE RESOURCES LTD. DIAMOND DRILL LOG Location: BROOKBANK WEST GRID Hole No. 81-B-40
 Latitude: 6+74S Departure 10T00W Elevation: 1004.4" Length: 1492' Core Size NQ-1 7/8" Claim No. TB 29038 Started AUG. 17, 1984
 Azimuth: 740° Tropari/Dip Tests: 400' - 71° 800' - 74° 1200' - 75° T1492' - 70° Completed: AUG. 28, 1984
 Dip: 70° (T) 351 1/2° Logged by: BARBARA KOWALSKI BK
 Purpose: TO TEST BROOKBANK CONTACT ZONE - BETWEEN MAFIC VOLCANICS & POLYMETIC METACONG. Drilled by: BRADLEY BROS. LTD.

Footage		Description	Sample No.	Footage		Length	Assays	
From	To			From	To		Au oz/ton	
0.0	16.0	CASING.						
16.0	399.0	NOTE: * BACKGROUND SPECTROMETER (K) READINGS 400 COUNTS PER MIN. INTERMITTENT GROUND CORE THROUGHOUT.						
		DIORITE. MEDIUM-GRAINED, HOMOGENEOUS & MASSIVE DIORITE. IT IS VERY WEAKLY FRACTURED THROUGHOUT WITH STRINGERS AND VEINLETS OF Fe- AND Ca-CARBONATE, HEMATITE, QUARTZ AND EPIDOTE 1%. IT IS MODERATELY TO STRONGLY MAGNETIC. LESS THAN 1/2% FINE- TO MEDIUM- GRAINED DISSEMINATED PYRITE.						
399.0	701.0	MAFIC VOLCANIC. VESICULAR PILLOW SELVAGES THROUGHOUT THIS FINE-GRAINED, MASSIVE VOLCANIC. IT IS WEAKLY FRACTURED THROUGHOUT WITH STRINGERS AND VEINLETS OF Fe- AND Ca-CARBONATE, HEMATITE, QUARTZ AND EPIDOTE. LESS THAN 1% HEMATITE CONCENTRATED ALONG SLIPPAGE PLANES. VOLCANIC IS V. WEAKLY MAGNETIC. ISOLATED NARROW SECTIONS ARE WEAKLY BRECCIATED. 552'-569' VOLCANIC IS WEAKLY DEFORMED AND VERY DARK GREEN IN COLOUR POSSIBLY INFERRING SILICIFICATION. TWO PERCENT QUARTZ VEINS (2" WIDE) THROUGHOUT. IT IS MODERATELY FRACTURED WITH A 2% INCREASE IN Fe- AND Ca-CARBONATE AND HEMATITE STRINGERS. NO ALTERED SECTIONS. LESS THAN 2% FINE- TO MEDIUM- GRAINED PYRITE THROUGHOUT.						

Footage		Description	Sample No.	Footage		Length	Assays	
From	To			From	To		Au oz/ton	
701.0	712.0	DIORITE. FINE-GRAINED, HOMOGENEOUS AND MASSIVE DIORITE. LESS THAN 1% FRACTURING WITH Fe- AND Ca-CARBONATE AND EPIDOTE STRINGERS THROUGHOUT. IT IS MODERATELY MAGNETIC. LESS THAN 1% MEDIUM-GRAINED DISSEMINATED PYRITE.						
712.0	732.0	MAFIC VOLCANIC. VESICULAR PILLOW SELVAGES THROUGHOUT THIS FINE-GRAINED, MASSIVE VOLCANIC. IT IS WEAKLY FRACTURED THROUGHOUT WITH STRINGERS AND VEINLETS OF Fe- AND Ca-CARBONATE, HEMATITE, QUARTZ AND EPIDOTE. LESS THAN 1% HEMATITE CONCENTRATED ALONG SLIPPAGE PLANES. VOLCANIC IS U. WEAKLY MAGNETIC. ISOLATED NARROW SECTIONS ARE WEAKLY BRECCIATED.						
732.0	1401.6"	ALTERED DIORITE. TEXTURE OF DIORITE IS RETAINED THROUGH THE DEFORMATION AND ALTERATION. IT IS WEAKLY BRECCIATED IN SECTIONS AND IS MODERATELY FRACTURED WITH Ca- (PINKISH) AND Fe-CARBONATE, QUARTZ AND OCCASSIONAL STRINGERS AND BLEBS OF EPIDOTE. IN ISOLATED SECTIONS THE ALTERATION IS PALE BROWN WITH DARK RED AND PINK THROUGHOUT. SPECTROMETER (K) READINGS BACKGROUND. LESS THAN 2% C.G. Py, <1% C.G. Cpy, <2% VEINLETS OF SPECULARITE. DETAILED DESCRIPTIONS: 746-760 MILKY WHITE QUARTZ VEIN WITH A WEAK FOLIATED AND ALTERED WALLROCK. HEMATITE, CHLORITE, K-FELDSPAR AND <3" SECTIONS OF SILICIFICATION IN ISOLATED PLACES. 893-987 PINK ALTERATION IS WEAKER WITH AN INCREASE OF 3% IN SILICA DOWNHOLE. DIORITE TEXTURE VISIBLE.						

Footage		Description	Sample No.	Footage		Length	Assays	
From	To			From	To		Au oz/ton	
		987-1000 ALTERED ZONE AS DESCRIBED AT 732' - 893'.	9853	994.6"	998.2"	3.8"		TR
		994.6" - 999.10" INTERMIXED MILKY WHITE QUARTZ VEIN AND WALLROCK. WALLROCK IS BRECCIATED AND MINERALIZED WITH <3% I.G. TO M.G. DISSEMINATED Py, Cpy, AND Spec..	9854	998.2"	999.10"	1.8"		0.004
		1000-1225 FINE-GRAINED, MASSIVE, DIORITE WITH 3% FRACTURING. Fe- AND Ca- CARBONATE, HEMATITE, QUARTZ AND EPIDOTE STRINGERS AND VEINLETS, TWENTY PERCENT SILICA AND CARBONATE THROUGHOUT. LESS THAN 1% FINE- TO MEDIUM-GRAINED PYRITE + << 1/2% Cpy, Spec..						
		1225-1335 DEFORMED - WELL FOLIATED, FLATTENED MAFIC MINERALS IN A LIGHTER COLOURED MATRIX THAN 1000-1325. THERE IS APPROXIMATELY A 5-10% INCREASE IN EPIDOTE AND 3-5% INCREASE IN SILICA CONTENT.						
		1335-1342 A WELL BRECCIATED SECTION WITH BRICK RED HEMATITIC FRAGMENTS. SPEC. READINGS (K) 400-650 COUNTS PER MIN. THIS ALTERED DIORITE HAS 40% SILICA. 3-4% F.G. TO M.G. Py.						
		1351.6" - 1357 DEFORMED AND ALTERED DIORITE. DIORITE IS WELL FOLIATED (70° - 75° TO CIA) AND WELL BRECCIATED. STRINGERS AND VEINLETS WITHIN FOLIATION ARE Fe- AND Ca- CARBONATE, GREEN MICA, CHLORITE AND SILICATES. <2% M.G. Py. << 1/2% F.G. Spec.	9858	1351.6"	1357.0"	5.6"		0.008
		1357-1367 AS ABOVE SECTION EXCEPT 35% SILICA ENRICHED. SPECTR. 400-700 COUNTS PER MINUTE.	9861	1359	1364	5.0		0.016
			9862	1364	1367	3.0		0.004

Footage		Description	Sample No.	Footage		Length	Assays	
From	To			From	To		Au oz/ton.	
		1367-1401.6" GENERALLY, DIORITE IS EXTREMELY F.G. AND WELL FOLIATED & WEAKLY ALTERED. IT IS DEFORMED WITH FLATTENED MAFIC MINERALS. <math>< 1/2\%</math> F.G. TO M.G. Py.						
1401.6"	1471	GRADUAL CONTACT WITH THIS MAFIC VOLCANIC.						
		1401.6" - 1405 DEFORMED MAFIC VOLCANIC.	9863	1401.6"	1405	3.6"		0.048
		FAULT BRECCIA AT 1401.6" - 1402. VOLCANIC IS WELL FOLIATED (70°-75° CIA) AND WELL BRECCIATED. FOLIATION CONSISTS OF STRINGERS AND VEINLETS OF Fe- AND Ca-CARBONATE, GREEN MICA, CHLORITE AND SILICATES. IT IS WEAKLY MAGNETIC. <math>< 1/2\%</math> DISSEMINATED Py.						
		1405 - 1451 DEFORMED AND VERY WEAKLY ALTERED MAFIC VOLCANIC. IT IS MODERATELY WELL FOLIATED 75° CIA, STRINGERS AND VEINLETS OF Fe- AND Ca- CARBONATE AND QUARTZ. <math>< 1\%</math> F.G. Py AS DISSEMINATIONS AND VEINLETS.	9864	1406.6"	1409.4"	2.10"		TR
		FAULT BRECCIA AT 1417.0 - 1417.8" BLACK SILICEOUS MATRIX WITH A MAZE OF WHITE QTZ VEINS.						
		1451- 1454 SAME DESCRIPTION AS 1401.6" - 1405 BUT THERE IS A PROGRESSIVE INCREASE IN SILICA CONTENT DOWNHOLE. <math>< 3\%</math> E.G. Py AS DISSEMINATIONS AND VEINLETS.	9870	1451	1453	2.0		0.006
			9869	1453	1456	3.0		0.002
		1454-1467 BLACK TO DARK BROWN, VERY HARD, BRECCIATED & MODERATELY FOLIATED (70°-75° CIA). DARK- TO LIGHT- COLOURED FRAGMENTED CHERT MATERIAL. <math>< 1\%</math> DISSEM. & VEINLETS OF Py.	9868	1456	1459.6"	3.6"		0.012
			9867	1459.6"	1462	2.6"		0.024
			9866	1462	1465	3.0		0.002
			9865	1465	1467.8"	2.8"		0.002
		1467-1471 RAZOR SHARP CONTACT. FAULT BRECCIA WITH A MAZE OF QUARTZ VEINS IN A SILICEOUS BLACK MATRIX. NO SULPHIDES.						

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS	
From	To			From	To		Au/T	
1156	1178	DEFORMED MAFIC UNIT 1162-1178	9678	1162	1165	3		0.002
		IT IS MEDIUM-GREEN IN COLOUR, FINE-GRAINED AND	9658	1165	1167	2		0.006
		MODERATELY FRACTURED WITH Fe- AND Ca-CARBONATE	9659	1167	1169	2		0.015
		VEINLETS (PINKISH) THROUGHOUT. EPIDOTE IS ABSENT.	9660	1169	1171	2		0.001
		LESS THAN 1% MEDIUM-GRAINED PYRITE, MAGNETITE,	9661	1171	1178	2		0.002
		SPECULARITE (<1/2%) DISSEMINATED THROUGH UNIT.						
		1165-1178 HAVE BEEN DISORGANIZED AT DRILL						
		SITE, THEREFORE, THEY ARE UNRELIABLE.						
		1171' → 6' OF GROUND CORE.						
1178	1216.7'	ALTERED AND DEFORMED SEDIMENTARY UNIT.						
		1178'-1181' SHARP CONTACT. PALE GREY-GREEN	9662	1178	1181	3		0.01
		BLACK-ORANGE-PINK SCHIST. SIXTY PERCENT SERICITE,						
		20% SILICIFIED, POSSIBLY FLATTENED FELDSPATHIC						
		CLASTS WITH Fe- AND Ca-CARBONATE (PINKISH)						
		CUTTING FABRIC. UP TO 6% EXTREMELY FINE-						
		GRAINED PYRITE ALONG SERICITE SEAMS WITH						
		OCCASSIONAL COARSE-GRAINS THROUGHOUT UNIT.						
		FOLIATION 65° CIA.						
		1181'-1184' AS 1178'-1181'	9663	1181	1184	3		0.002
		1184'-1187'						
		1187-1189.9" THIS UNIT IS MULTICOLOURED WITH	9665	1187	1189.9"	2.9"		0.002
		BLACK-BROWN-YELLOWISH-ORANGE-PINK-DARKRED-						
		LIGHT TO MEDIUM GREEN. IT IS WELL FOLIATED						
		WITH Fe- AND Ca-CARBONATE VEINLETS CROSS-						
		CUTTING FOLIATION. HEMATITE, GREEN MICA,						
		CHLORITE, SERICITE STRINGERS AND HEMATITE						
		BRECCIA FRAGMENTS (40%) THROUGHOUT. TWO						
		PERCENT FINE-GRAINED PYRITE, <1% SPECULARITE						
		AND POSSIBLY SPHALERITE. SPECTROMETER → 400-600 P.M.						

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FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS	
From	To			From	To		AULT	
		1189.9" - 1192.3" THIS UNIT IS A MIX BETWEEN 1187-1189.9" AND 1178'-1181', WITH 1% FINE-GRAINED PYRITE.	9666	1189.9"	1192.3"	2.6"		0.004
		1192.3" - 1197.6" AS 1189.9" - 1192.3" EXCEPT SERICITE IS ABSENT.	9667	1192.3"	1194.5"	2.2"		0.004
			9668	1194.5"	1197.6"	3.1"		0.005
		1197.6" - 1200 WELL FOLIATED DARK BROWN-BLACK-WHITE COLOUR ROCK. TWENTY-FIVE PERCENT WHITE, BRECCIATED QZ VEINLETS AND 20% SILICIFICATION (BLUISH-BLACK). THIS UNIT IS VERY HARD AND IS WEAKLY MAGNETIC WITH UP TO 20% DARK BLUISH-BLACK MINERAL WHICH IS DARK BROWN WHEN SCRATCHED (SPHALERITE?) IN VEINLETS. FOUR PERCENT MEDIUM- TO FINE-GRAINED PYRITE AS DISSEMINATIONS AND VEINLETS.	9669	1197.6"	1200	2.6"		0.003
		1200 - 1207 AS 1197.6" - 1200 PRESENT AS A MINOR COMPONENT IN A MEDIUM-GREEN FINE-GRAINED ROCK AS DESCRIBED 1156-1178 WITH <1% FINE-GRAINED DISSEMINATED PYRITE.	9670	1200	1202	2		0.003
			9671	1202	1204.6"	2.6"		0.004
			9672	1204.6"	1207	2.6"		0.005
		1207 - 1210 AS 1200 - 1207 BUT WITH AN INCREASE IN SERICITE (30%), BRECCIATION AND SILICIFICATION (30%). MINUTE JASPER? OR CINNABAR? FRAGMENTS VISIBLE. UP TO 9% EXTREMELY FINE-GRAINED PYRITE ALONG SERICITIC SEAMS.	9673	1207	1210	3		0.002
		1210 - 1212 THIS IS A TRANSITION UNIT BETWEEN 1207 - 1210 AND 1212 - 1216.7.	9674	1210	1212	2		0.005

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PAGE NO: 2 of 6

METRES		DESCRIPTION	SAMPLE NO.	METRES		LENGTH	ASSAYS	
From	To			From	To		Au/T.	
		3% SPECULAR HEMATITE VEINLETS; 4-10% FINE TO COARSE GRAINED PYRITE IN DISSEMINATIONS.						
		957-1081 VERY FINE-GRAINED, VERY DARK GREEN DIORITE. IT IS HARD AND WEAKLY FRACTURED WITH QTZ-Ca- AND Fe-CARBONATE (PINKISH) VEINLETS THROUGHOUT. IT IS WEAKLY MAGNETIC. LESS THAN 1% COARSE-GRAINED PYRITE IN ISOLATED SECTIONS.						
		1008-1010 QTZ VEINLET ORIENTED DOWNDIP WITH 2% VERY COARSE-GRAINED PYRITE.						
		1081-1152 MAFIC MINERALS BECOME PROGRESSIVELY FLATTENED THUS RESULTING IN A MODERATELY WELL FOLIATED SECTION (65° CIA). DIORITIC ALTERATION IS ABSENT. EPIDOTE IS ABSENT. IT IS MAGNETIC WITH <1/2% DISSEMINATED COARSE-GRAINED PYRITE. CREAM COLOUR FELDSPARS (1/4" IN SIZE) THROUGH ISOLATED SECTIONS OF BRECCIATED NORITE.						
		AT 1117-1119 A 2' SECTION WHICH IS BRECCIATED WITH A MAZE OF QTZ Fe- AND Ca- CARBONATE VEINLETS. LESS THAN 1/2% FINE- TO MEDIUM- GRAINED PYRITE.						
		AT 1082; 4" SECTION OF BRECCIATED DIORITE WITH HEAVY CONCENTRATION OF COARSE GRAINED PYRITE IN WALL ROCK.						
		AT 1087: A 1' SECTION WHICH IS BRECCIATED WITH A MAZE OF QTZ Fe- AND Ca- CARBONATE VEINLETS. LESS THAN 1/2% FINE- TO MEDIUM- GRAINED PYRITE.						
		AT 1089-1091 AS 1087.						
		ALL THE ABOVE 1'-2' SECTIONS HAVE <2% HEMATITE. SPECT. READINGS BACKGROUND.						

METRES		DESCRIPTION	SAMPLE NO.	METRES		LENGTH	ASSAYS	
From	To			From	To		Au/t	
		ALTERED AND DEFORMED MAFIC UNIT →						
		1153-1156 IT IS MULTICOLOURED UNIT WITH BLACK-BROWN-YELLOWISH-ORANGE-PINK-DARK RED, LIGHT TO MEDIUM GREEN IN THIS WELL FOLIATED UNIT. Fe- AND Ca-CARBONATE, QZ VEINLETS (PINKISH), HEMATITE GREEN MICA (FUCHSITE) CHLORITE, SERICITE STRINGERS. LESS THAN 1/2% MEDIUM-GRAINED PYRITE AND 1% STRINGERS OF WHAT COULD BE V. FINE-GRAINED SPHAPERITE(?) WITH MAGNETITE. GENERALLY ROCK IS SOFT.	10101	1153	1156	3	TR	TR
		1156-1158 HOMOGENEOUS, SOFT MEDIUM-GREEN MAFIC THAT IS MODERATELY FRACTURED. VEINLETS OF QZ Fe- AND Ca-CARBONATE (WHITE → PINKISH) THROUGHOUT LESS THAN 1/2% DISSEMINATED MEDIUM-GRAINED PYRITE.	10102	1156	1158	2	TR	
		1158-1161.3" THIS SECTION IS A MIX BETWEEN 1153-1156 AND 1156-1158 WITH 3% SILICIFICATION (BLuish-BLACK) LESS THAN 1% FINE- TO MEDIUM-GRAINED DISSEMINATED PYRITE. HARDNESS 4-5.	10103	1158	1161.3"	3.3"	TR	
		1161.3"-1164.9" AS 1156-1158 WITH ISOLATED ALTERATION SECTIONS AS 1153-1156. ROCK IS SOFT. LESS THAN 1/2% MEDIUM-GRAINED PYRITE.	10104	1161.3"	1164.9"	3.6"	TR	
		1164.9"-1167.6" AS 1161.3"-1164.9"	10105	1164.9"	1167.6"	2.9"	TR	
		1167.6"-1170.6" ALTERATIONS AS 1153-1156 BUT MATRIX IS DARK GREY BROWN IN COLOUR WITH 40% BRECCIATED HEMATITIC FRAGMENTS. IT IS SILICIFIED 7% WITH 1% FINE- TO MEDIUM-GRAINED DISSEMINATED PYRITE. SPECTROMETER READINGS BACKGROUND.	10106	1167.6"	1170.6"	3.0"	0.002	

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METRES		DESCRIPTION	SAMPLE NO.	METRES		LENGTH	ASSAYS	
From	To			From	To		g/t	TR
		1170.6" - 1172.6" AS 1167.6" - 1170.6" BUT WITH 30% SILICIFICATION. ROCK IS VERY HARD AND 2.5% BLuish BLACK IN COLOUR. 6% MEDIUM- TO FINE- GRAINED DISSEMINATED PYRITE. SPECTROMETER READINGS BACKGROUND.	10107	1170.6"	1172.6"	2		TR
		1172.6" - 1175 ALTERATIONS AS DESCRIBED AT 1153-1156 WITH DARK GREY-BROWN MATRIX AND 3% FINE- GRAINED DISSEMINATED PYRITE. HEMATITIC FRAGMENTS HAVE DECREASED TO 10%.	10108	1172.6"	1175	2.6"		TR
		1175 - 1177.6" AS 1172.6" - 1175 BUT 4.5% SILICIFIED WITH 4% MEDIUM- GRAINED PYRITE DISSEMINATED THROUGHOUT.	10109	1175	1177.6"	2.6"		TR
		1177.6" - 1179.4" TRANSITION ZONE IT IS A MIX BETWEEN 1175-1177.6" AND 1179.4" - 1182.4". 2% EXTRA FINE- GRAINED DISSEMINATED PYRITE.	10110	1177.6"	1179.4"	1.10"		0.002
		1179.4" - 1182.4" ALTERED AND DEFORMED SEDIMENTARY UNIT(?) SHARP CONTACT. PALE GREY-GREEN-BLACK-ORANGE-PINK SCHIST. FORTY PERCENT SERICITE, 20% SILICIFIED, POSSIBLY FLATTENED FELDSPATHIC CLASTS WITH Fe- AND Ca- CARBONATE (PINKISH) CROSS-CUTTING CLASTS AND FABRIC. 2% EXTREMELY FINE- GRAINED PYRITE, ALONG CHLORITIC-SERICITIC SEAMS.	10111	1179.4"	1182.4"	3		0.024

PROPERTY: METALORE RESOURCES LTD.

PAGE NO: 3 of 4

METRES		DESCRIPTION	SAMPLE NO.	METRES		LENGTH	ASSAYS	
From	To			From	To		g/t	
		1168-1171 AS 1166-1168 BUT WITH 30% SILICIFICATION. ROCK IS VERY HARD AND BLuish BLACK IN COLOUR. 1% MEDIUM- TO FINE- GRAINED DISSEMINATED PYRITE.	10139	1168	1171	3		
		1171-1174 AS 1153.6"-1157 WITH 30% SILICIFICATION. IN ISOLATED SECTIONS UP TO 3% MEDIUM- GRAINED DISSEMINATED PYRITE.	10140	1171	1174	3		
1174	1212.5"	ALTERED AND DEFORMED SEDIMENTARY UNITS						
		1174-1177 SHARP CONTACT. PALE GREY-GREEN BLACK-ORANGE-PINK SCHIST. SIXTY PERCENT SERICITE, 20% SILICIFIED, POSSIBLY FLATTENED. FELDSPATHIC CLASTS WITH Fe- AND Ca- CARBONATE (PINKISH) CUTTING FABRIC. UP TO 6% EXTREMELY FINE- GRAINED PYRITE ALONG SERICITIC SEAMS, WITH OCCASSIONAL COARSE- GRAINS THROUGH UNIT. FOLIATION 65° CIA.	10141	1174	1177	3		
		1177-1180 AS 1174-1177	10142	1177	1180	3		
		1180-1182.6" AS 1174-1177 THIS SECTION IS A MIX BETWEEN 1174.	10143	1180	1182.6"	2.6"		
		1182.6"-1185 THIS SECTION IS A MIX BETWEEN 1174-1177 AND 1168-1171. SIX PERCENT U. FINE- GRAINED TO MEDIUM- GRAINED PYRITE ALONG SERICITIC SEAMS.	10144	1182.6"	1185	2.6"		
		1185-1187 AS 1182.6"-1185 WITH UP TO 15% PYRITE CONTENT AS DISSEMINATIONS AND MASSIVE VEINLETS.	10145	1185	1187	2		
		1187-1189 AS 1168-1171 WITH UP TO 10% PYRITE CONTENT AS DISSEMINATIONS AND MASSIVE VEINLETS.	10146	1187	1189	2		

PROPERTY: METALORE RESOURCES LTD.

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METRES		DESCRIPTION	SAMPLE NO.	METRES		LENGTH	ASSAYS			
From	To			From	To		Aut			
		1189-1190.9" AS 1185-1187.	10147	1189	1190.9"	1.9"				
		1190.9"-1194. WELL FOLIATED DARK BROWN-BLACK-WHITE ROCK. TWENTY-FIVE PERCENT WHITE, BRECCIATED QTZ VEINLETS AND 20% SILICIFICATION (BLUISH-BLACK). THIS UNIT IS VERY HARD. IT IS WEAKLY MAGNETIC, WITH UP TO 20% DARK BLUISH-BLACK MINERAL, WHICH BECOMES A DARK BROWN WHEN SCRATCHED (SPHALERITE?) IN VEINLETS. FOUR PERCENT MEDIUM- TO FINE-GRAINED PYRITE AS DISSEMINATIONS AND VEINLETS.	10148	1190.9"	1194	3.3"				
		1194-1198 AS 1190.9"-1194 PRESENT IN A MEDIUM-GREEN FINE-GRAINED ROCK AS DESCRIBED 1158.6"-1160. AS A MINOR COMPONENT	10149	1194	1198	4				
		1198-1201.6" } AS 1194-1198	10150	1198	1201.6"	3.6"				
		1201.6"-1205 }	10151	1201.6"	1205	3.6"				
		1205-1207.6" AS 1194-1198 BUT WITH AN INCREASE OF SERICITE (30%) AND SILICIFICATION (30%). MINUTE JASPER FRAGMENTS VISIBLE. UP TO 9% EXTREMELY FINE-GRAINED PYRITE ALONG SERICITIC SEAMS.	10152	1205	1207.6"	2.6"				
		1207.6"-1210 } PALE GREEN-GREY-WHITE SCHIST. SERICITIC CONTENT 40%, QTZ AND SILICIFICATION 35%. UP TO 20% EXTREMELY FINE-GRAINED PYRITE MOSTLY IN SERICITIC VEINLETS BUT ALSO IN SILICIFIED SECTIONS. PYRITE IS DISSEMINATED WITH OCCASIONAL VEINLET.	10153	1207.6"	1210	2.6"				
		1210-1212.5" }								
1212.5"	1221	SHARP CONTACT POLYMICITIC METACONGLOMERATE	FOH							

DIAMOND DRILL RECORD & LOG

LOCATION: BROOKBANK WEST GRID

PROPERTY: METALORE RESOURCES LTD

HOLE NO: 84-B41C

LATITUDE: 21+00W DEPARTURE: 6+75S

LENGTH: 63'

ELEVATION: DEFLECTION

CLAIM NO. TB 29038

INCLIN: -66°
AZIMUTH: #1 356 1/2°; #2 350 1/2°

CORE SIZE: NQ
DIP TESTS: ACID TEST 1200'
67° (Cap Corrected)

DRILLED BY: Bradley Buss Ltd

SECTION: -

LOGGED BY: BARB KOWALSKI

DATE LOGGED: OCT. 7, 1984

STARTED: OCT. 5, 1984

DRILLED FOR: metalore resources Ltd.

COMPLETED: OCT 7, 1984

TRO-PARI 66 1/2°
65 1/2°

PURPOSE: INTERSECT BROOKBANK ZONE

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS						
From	To			From	To								
1177	1194.9"	DEFORMED AND ALTERED MAFIC UNIT.											
	1177-1180	IT IS MULTICOLOURED UNIT WITH BLACK-BROWN-YELLOWISH-ORANGE-PINK-DARK RED - LIGHT TO MEDIUM GREEN IN THIS WELL FOLIATED UNIT. Fe- AND Ca-CARBONATE VEINLETS (PINKISH), HETTATITE, GREEN MICA, CHLORITE, SERICITE, STRINGERS, LESS THAN 1% FINE- TO MEDIUM-GRAINED DISSEMINATED PYRITE. SPHALERITE(?) (D. BROWN TO BLACK) IN VEINLETS < 4%. GENERALLY ROCK IS VERY WEAKLY MAGNETIC AND IS SOFT.	10178	1177	1180	3			0.086				
	1180-1183.3"	AS 1177-1180'	10179	1180	1183.3"	3.3"			TR				
	1183.3"-1185.9"	AS 1177-1180' WITH 20% SILICIFICATION AND < 1% MEDIUM- TO COARSE-GRAINED PYRITE.	10180	1183.3"	1185.9"	2.6"			0.016				
	1185.9"-1188.7"	AS 1177-1180' BUT IS VERY WELL FOLIATED AND STRONGER DEVELOPMENT OF ALTERATIONS AS DESCRIBED AT 1177-1180. TWENTY	10181	1185.9"	1188.7"	2.10"			0.014				

PROPERTY: METAKOGE RESOURCES LTD

PAGE NO: 3 of 4

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS						
From	To			From	To								
		1201.1" - 1203.7" BROKEN CORE - APPEARS TO BE SIMILAR TO 1198.1" - 1201.1".	10186	1201.1"	1203.7"	2.6"			0.006				
		1203.7" - 1205.7" THIS SECTION IS A MIX BETWEEN 1194.9" - 1198.1" AND 1191.3" - 1194.9". SIX PERCENT U.FINE - TO MEDIUM-GRAINED PYRITE ALONG SERICITIC SEAMS, AND PYRITIC VEINLETS.	10187	1203.7"	1205.7"	2			0.016				
		1205.7" - 1208.7" AS 1203.7" - 1205.7" WITH UP TO 15% PYRITE CONTENT AS DISSEMINATIONS AND MASSIVE VEINLETS.	10188	1205.7"	1208.7"	3			0.002				
		1208.7" - 1211.1" AS 1203.7" - 1205.7" WITH 6% DISSEMINATED AND VEINLETS OF PYRITE. THIRTY PERCENT SILICIFICATION.	10189	1208.7"	1211.1"	2.6"			0.014				
		1211.1" - 1212.9" PALE GREEN-GREY-WHITE SCHIST.	10190	1211.1"	1212.9"	1.8"			0.048				
		1212.9" - 1214.9" SERICITIC CONTENT 40%, QTE AND SILICIFICATION 35%. UP TO 20% EXTREMELY F.G. PYRITE MOSTLY IN SERICITIC VEINLETS BUT ALSO IN SILICIFIED SECTIONS. PYRITE IS DISSEMINATED WITH OCCASSIONAL VEINLET.	10191	1212.9"	1214.9"	2			0.006				
		1214.9" - 1218.9" BROWN-BLACK BRECCIATED FRAGMENTS PRESENT AS A MINOR COMPONENT IN A MEDIUM-GREEN F.G. ROCK AS DESCRIBED AT 1177-1180. IN THIS SECTION THERE IS AN INCREASE OF SERICITE (30%) AND SILICIFICATION (30%). MINUTE CINNABAR FRAGMENTS DISPERSED, LOCALLY, UP TO 9% EXTREMELY F.G. PYRITE ALONG SERICITIC SEAMS.	10192	1214.9"	1218.9"	4.0			TR				
		1218.9" - 1222.3" MEDIUM-GREEN, FINE-GRAINED ROCK WITH MINOR ALTERATIONS AS DESCRIBED AT 1177-1180.	10193	1218.9"	1222.3"	3.6"			TR				

PROPERTY: METAKORE RESOURCES LTD

PAGE NO: 3 of 6

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS	
From	To			From	To		Au	Other
Continued	393-1246	899' → ALTERED DIORITE. IT IS SANDY-PINK IN COLOUR, WITH QTZ VEINS AT: 900'-905' QTZ IS MILKY WHITE AND WALLROCK IS PARTLY ALTERED TO A GREEN MICA WITH SANDY PINK ALTERATION.						
		912'-915' BULK QTZ 8" (MILKY WHITE).						
		915'-918' BULK QTZ THAT IS MILKY WHITE. THE FIRST ALTERED ZONE OR UPPER ZONE IS A SANDY PINK ALTERED DIORITE (TEXTURE IS RETAINED), WHICH OCCURS FROM 899'-928' WITH UP TO 3% MASSIVE VEINLETS OF SPECULARITE AND UP TO 2% DISSEMINATED MED-TO COARSE-GRAINED PYRITE.						
		THE ALTERATION ZONE IS INTERRUPTED, BUT OCCURS IN <6' SECTIONS IN A FINE-GRAINED HOMOGENEOUS DIORITE (928'-1012').	10216	988	991	3		TR
		THE SECOND OR LOWER ZONE OCCURS AT 1012'-1037' FOLLOWED BY A FINE-GRAINED DIORITE <1/2% EPIDOTE.	10217	1026	1029	3		TR
		1184-1187 THREE FOOT SECTION OF MASSIVE PYRITE WITH QTZ, Ca- AND Fe- CARBONATE STRINGERS THROUGHOUT.	10215	1184	1186	2		0.006
		1187-1220 MEDIUM-GRAINED DIORITE WITH QTZ, Fe- AND Ca- CARBONATE STRINGERS THROUGHOUT.						
		1220-1246. DIORITE BECOMES INCREASINGLY DEFORMED DOWN HOLE. MAFIC AND FELDSPARS BECOME FLATTENED (55° C/A) DEFINING A FOLIATION.						

FEET		DESCRIPTION	SAMPLE NO.	FEET.		LENGTH	ASSAYS			
From	To			From	To					
		1246-1252.6" DEFORMED DIORITE. THE FOLIATION IN THIS DIORITIC SECTION IS STRONG WITH PHENOCRYSTS OF Ca-FELDSPARS ALONG FABRIC.	10201	1250.6"	1252.6"	2.0				TR
1252.6"	1258.2"	DEFORMED AND ALTERED DIORITE.								
		1252.6"-1255.6" ROCK IS DARK BROWN-GREEN WITH LOCAL ORANGE TO BRICK RED ALTERATIONS. CHLORITE, SERICITE, HEMATITE, Ca- AND Fe-CARBONATE CONSTITUTE THE ALTERATIONS AND VEINKETS. LESS THAN 1% MEDIUM- TO COARSE-GRAINED DISSEMINATED PYRITE. SPECTROMETER READING IN A 6" ALTERED SECTION 400-700C.P.M.	10202	1252.6"	1255.6"	3.0				TR
		1255.6"-1258.6" DARK BROWN-GREY ROCK WITH LESS THAN 2% HEMATITE, CHLORITE, SERICITE AND Ca- AND Fe-CARBONATE VEINKETS. LESS THAN 1/2% COARSE-GRAINED DISSEMINATED PYRITE.	10203	1255.6"	1258.6"	3.0				TR
		1258.6"-1261.6" ALTERATION (40%) AS DESCRIBED IN 1252.6"-1255.6" WITH 10% SILICIFICATION (BLACK) AND IS MODERATELY BRECCIATED. POSSIBLY <1/2% CINNABAR PRESENT. LOCAL ENRICHMENT OF EXTREMELY FINE-GRAINED TO MEDIUM-GRAINED PYRITE. LESS THAN 2% VEINKETS OF SPECULARITE. SPECTROMETER READINGS IN ALTERED SECTIONS 400-700C.P.M.	10204	1258.6"	1261.6"	3.0				TR
		1261.6"-1265" ALTERED AND WELL BRECCIATED SECTION WITH 20% SILICIFICATION (BLACK) AND 5% QTZ VEINKETS. ALTERATION DESCRIBED AT 1252.6"-1255.6". TEN PERCENT VEINKETS OF SPECULARITE THROUGHOUT. UP TO 3% DISSEMINATED PYRITE (2/2% COARSE-GRAINED; 1/2% FINE- TO MEDIUM-GRAINED).	10205	1261.6"	1265	3.6"				TR

PROPERTY: METALORE RESOURCES LTD.

FEET.		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS			
From	To			From	To					
		1265-1268.6" AS DESCRIBED AT 1252.6"-1255.6" EXCEPT THERE IS 30% SILICIFICATION, LESS THAN 1% PYRITE (EXTREMELY FINE - TO COARSE-GRAINED).	10206	1265	1268.6"	3.6"				TR
		ALTERED SEDIMENTARY SECTION.								
		1268.6"-1270.9" (30°/A) EXTREMELY WELL FOLIATED QTZ, CHLORITE, SERICITE WITH POSSIBLE FLATTENED QTZ AND FELDSPATHIC CLASTS. UP TO 40% SILICIFICATION AND UP TO 20% EXTREMELY-FINE - TO FINE-GRAINED DISSEMINATED PYRITE. SPECTROMETER READINGS: 40000 C.P.M.	10207	1268.6"	1270.9"	2.3"				TR
		1270.9"-1273" AS 1268.6"-1270.9" BUT HAS 45% SILICIFICATION AND LESS THAN 10% FELDSPATHIC COMPOSITION. UP TO 3% EXTREMELY-FINE TO FINE-GRAINED PYRITE.	10208	1270.9"	1273"	2.3"				TR
		1273-1275.6" WELL BRECCIATED PALE BROWN FRAGMENTS WITH UP TO 85% SILICIFICATION AND 1% QTZ. UP TO 20% EXTREMELY-FINE-TO FINE-GRAINED PYRITE AND 5% SPECULARITE VEINLETS.	10209	1273	1275.6"	2.6"				0.002
		1275.6"-1276.4" MILKY WHITE QTZ WITH <1/2% E.G. PYRITE AND <1/2% Mo. LESS THAN <1/2% CHLORITIC VEINLETS. <1/2% DISSEMINATED SCHEELITE.	10210	1275.6"	1276.4"	0.10"				TR
		1276.4"-1277.10" WALK ROCK TO QTZ-VEIN. EXTREMELY WELL FOLIATED WITH MILKY WHITE QTZ AND UP TO 20% EXTREMELY FINE-TO MEDIUM-GRAINED PYRITE ALONG CHLORITIC-SERICITIC SEAMS.	10211	1276.4"	1277.10"	1.6"				0.004

PROPERTY: METALORE RESOURCES LTD.

PAGE NO: 2 of 3

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS				
From	To			From	To						
		1260-1262.5" DARK BROWN-GREEN WITH LOCAL ORANGE TO BRICK RED ALTERATIONS. CHLORITE, SERICITE, HEMATITE, Ca- AND Fe- CARBONATE CONSTITUTE THE ALTERATIONS AND VEINLETS RESPECTIVELY. TEN PERCENT SILICIFICATION AND IS MODERATELY BRECCIATED. LESS THAN 1/2% OF POSSIBLY CINNABAR. LOCAL ENRICHMENT 20% OF EXTREMELY FINE- TO MED-GRAINED DISSEMINATED PYRITE. LESS THAN 2% SPECULARITE VEINLETS.	10220	1260	1262.5	2.5"				TR	
		1262.5"-1264.5" DARK BROWN-GREY ROCK WITH LESS THAN 2% HEMATITE, CHLORITE, SERICITE AND Ca- AND Fe- CARBONATE VEINLETS. LESS THAN 1% MED. TO COARSE-GRAINED DISSEMINATED PYRITE.	10221	1262.5"	1264.5"	2				TR	
		1264.5"-1266.5" AS 1260-1262.5" LESS THAN 3% FINE DISSEMINATED PYRITE AND <1% SPECULARITE.	10222	1264.5"	1266.5"	2				TR	
		1266.5"-1268.5" AS 1262.5"-1264.5" BUT WITH 10% SILICIFICATION (BLACK)	10223	1266.5"	1268.5"	2				TR	
		1268.5"-1270.9" AS 1260-1262.5" WITH <1% FINE- TO MED-GRAINED DISSEM. PYRITE. 3% SILIC.	10224	1268.5"	1270.9"	2.4"				TR	
		ALTERED SEDIMENTARY UNIT									
		1270.9"-1272.9" EXTREMELY WELL FOLIATED (30° C/A) QZ, CHLORITE, SERICITE SCHIST WITH POSSIBLE FLATTENED QZ AND FELDSPATHIC CLASTS. UP TO NO% SILICIFICATION AND UP TO 20% EXTREMELY FINE- TO FINE-GRAINED DISSEMINATED PYRITE. SPECTROMETER READINGS 40-80 C.P.M.	10225	1270.9"	1272.9"	2				0.02	

PROPERTY: METALORE RESOURCES LTD

PAGE NO: 3 of 3

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS				
From	To			From	To						
	1272.9"	AS 1270.9"-1272.9"	10226	1272.9"	1274	2.3"				TR	
	1274	WELL BRECCIATED PALE BROWN FRAGMENTS WITH UP TO 85% SILICIFICATION AND 1% QTZ. UP TO 20% EXTREMELY FINE- TO FINE-GRAINED PYRITE, AND 5% SPECULARITE VEINLETS.	10227	1274	1277	3				0.006	
	1277	WALLROCK PLUS QTZ VEIN INC.	10228	1277	1278.6"	1.6"				0.02	
	1278.6"	LODED IN THESE SAMPLES. EXTREMELY WELL FOLIATED WALLROCK WITH MILKY WHITE QTZ VEIN WITH UP TO 20% EXTREMELY FINE- TO MEDIUM-GRAINED PYRITE ALONG CHLORITIC-SERICITIC SEAMS.	10229	1278.6"	1280	1.6"				0.002	
	1280	AS ABOVE WALLROCK DESCRIPTION.	10230	1280	1281.6"	1.6"				0.01	
	1281.6"	90% SILICIFIED, <4% CHLORITE	10231	1281.6"	1283	1.6"				0.056	
	1283	AND SERICITE VEINLETS. LESS THAN 5% EXTREMELY FINE- TO MEDIUM-GRAINED PYRITE, IN THIS WELL FOLIATED (35° C/A) SECTION.	10232	1283	1284.6"	1.6"				0.302	
1284.6"	1295	<1% VISIBLE SULPHIDES. SHARP CONTACT WITH POLYMICRITIC METACONG- NOTERATE. CLASTS ARE QTZ TO FELDSPATHIC IN COMPOSITION, RANGING FROM <1"-6" IN SIZE. THIS UNIT IS MODERATELY DEFORMED WHEREBY THE OCCASIONAL CLAST IS SUPPORTED BY ANOTHER CLAST. GENERALLY IT IS MATRIX SUPPORTED, A DISORGANIZED BED IN THE BASAL SECTION OF A DEBRIS FLOW. MATRIX IS GRANULAR IN APPEARANCE WITH JAWPER CLASTS DISPERSED THROUGHOUT.	10233	1284.6"	1286.6"	2				0.046	

LOCATION: IRWIN TOWNSHIP - BEARDMOREPROPERTY: METALORE RESOURCESHOLE NO: 83-XILATITUDE: 15.94 S DEPARTURE: 4100W LENGTH: 97.0'

ELEVATION: _____

INCLIN: -40° CORE SIZE: NQ 1 7/8"AZIMUTH: 171° DIP TESTS: NONESTARTED: NOV. 8/1983COMPLETED: NOV. 9/1983PURPOSE: TO TEST QTZ-CARBONATE VEIN

CLAIM NO. _____

SECTION: _____

LOGGED BY: D. OLIVERDATE LOGGED: NOV. 11/83DRILLED BY: BRADLEY BROTHERS LTD.DRILLED FOR: METALORE RESOURCES LTD.*per Barbk*

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS						
From	To			From	To		AULT						
0.0	10.0	CASING											
10.0	13.0	GROUND CORE											
13.0	15.0	VERY FRACTURED MAFIC VOLCANIC. SULPHIDES $\leq 1/2\%$ QTZ-CARB. FILLINGS. GREY ROCK HARDNESS 6. WEAK TO MODERATELY MAGNETIC.											
15.0	16.7	GROUND CORE											
16.7	30.0	GREY GREEN MODERATELY FRACTURED VOLCANIC. SCHISTOSE IN APPEARANCE WITH FOLIATION 80° TO CA. WEARLY CALCAREOUS. 25.0 DOWNHOLE BECOMES MORE SILICIOUS WITH LOCALLY 5-7% PY AS SEAMS AND DISSIMINATIONS.	9114	18.0	21.0	3.0					TR		
			9115	25.0	30.0	5.0					"		
30.0	43.0	SILICIOUS BRECCIATED TO FRAGMENTAL VOLCANIC. FOLIATION 80-85° TO CA. 30-32.8 BEST BRECCIATION AND SULPHIDE CONTACT	9116	30.0	32.8	2.8					"		
		CONTENT TO 10%. SERICITE SLIPS PRESENT AT 2%. CALCAREOUS AT 2%. AS FRACTURES. PYRITE CONTENT TO LOCALLY 5%. HARDNESS 6. COLOR RED-GREY-GREEN-WHITE	9117	32.8	38.2	5.4					"		
			9118	38.2	43.0	4.8					"		

DIAMOND DRILL RECORD & LOG

HOLE NO: 93-X1

PROPERTY: IRWIN TOWNSHIP BEARDMORE ONT.

PAGE NO: 2 of 2

FEET METERS		DESCRIPTION	SAMPLE NO.	FEET METERS		LENGTH	ASSAYS	
From	To			From	To		ANAL	
43.0	60.9	BRECCIATED TO FRAGMENTAL VOLCANIC. STRETCHED AND ALTERED. 49-54.6 VERY SILICIOUS WITH BRECCIATED APPEARANCE. SULPHIDES LOCALLY UP TO 5% AS SEAMS AND DISSIMINATIONS. 43-46 SHIST TO GNESSIC WITH FOLIATION 75° TO CA. CALCAREOUS AT 1% IN FRACTURES. REDDISH HEMATITIC MATERIAL AT 3%.	9119	43.0	46.0	3.0		TR
		WEAKLY MAGNETIC. HARDNESS 6. 54.6' BLACK 5" SILICIOUS BAND PRECEDING SEDIMENT MATERIAL.	9120	46.0	49.0	3.0		"
			9121	49.0	54.6	5.6		"
			9122	54.6	57.9	3.3		"
60.9	97.0	GR GREENISH META SEDIMENTS. MODERATELY QTL-CARB ENRICHED FRACTURES AT 5%-8% CALCAREOUS ONLY IN FRACTURES. ROCK IS SOFT AT 5. DOWN HOLE FROM 92' STRETCHED QTLTIC PEBBLES ARE VISABLE. FOLIATION 70° TO CA. NON-MAGNETIC. SULPHIDE CONTENT AS DISSIMINATIONS AT <1/2%. THESE OCCURING ALONGSIDE FRACTURES.	9123	57.9	60.9	3.0		"
97.0		EOH.						

PROPERTY: IRWIN TOWNSHIP - BEARDMORE

PAGE NO: 2 of 2

FOOTAGE		DESCRIPTION	SAMPLE NO.	FOOTAGE		LENGTH	ASSAYS	
From	To			From	To		Au/T	
62.0	92.6	HOST ROCK IS DACITIC NOW, WEARLY TO MODERATELY FRACTURED. QTZ-CARB AND EPIDOTE AS FILLERS. 10% EPIDOTE ALSO PRESENT AS SWIRLS AND IMPREGNATION. PYRITE $\leq 1/2\%$. FRACTURE ARE CROSS-CUTTING.						
92.6	149.5	CONTACT WITH SHEARED SILICIC ALTERED ZONE. 104.5-105.5 FEATURES 70% QTZ PY TO 2% THIS WHOLE ZONE FEATURES KINK FOLDING, STRETCHED FRAGMENTS, TWISTED AND HIGHLY ALTERED. COLOR RANGES FROM WHITE-RED-ORANGE-BLACK. FRACTURES ARE CROSS CUTTING AND STRETCHED DOWN DIP. 114.4-119 FEATURES THE BEST HEMATITIC PRECIPITATION. OTHER PRECIPITATION IS LOCAL. PYRITE OCCURRING AS DISSIPINATIONS AND SEAMS VARY IN SAMPLES FROM 1-5%. HARDNESS 6+ DUE TO SiO_2 CONTENT.	9151	92.6	93.6	1.0	TR	
			9152	93.6	96.7	3.1		
			9153	96.7	101.0	4.3		
			9154	101.0	104.5	3.5		
			9155	104.5	105.5	1.0		
			9156	105.5	111.0	5.5		
			9157	111.0	114.4	3.4		
			9158	114.4	119.0	5.6		
			9159	119.0	125.2	6.2		
			9160	125.2	130.0	4.8		
			9161	130.0	133.2	3.2		
			9162	133.2	136.9	3.7		
149.5	167.0	SEVERELY FRACTURED GREENISH-GREY VOLCANIC WITH INTERMIXED META SEDIMENT MATERIAL. FRACTURES ARE QTZ CARB FILLED. PYRITE $\leq 1/2\%$ 3% QTZITIC VEINS ARE PRESENT BUT OCCUR WITH NIL TO $\leq 1/2\%$ PY. PROMINANT VEINING IS 30° TO CA. HARDNESS 6. THIS ZONE ALSO FEATURES SOME SHEARING BUT NOT AS INTENSE AS 92.6-149.5	9163	136.9	142.0	5.1		
			9164	142.0	144.0	2.0		
			9165	144.0	145.4	1.4		
			9166	145.4	149.5	4.1		
167.0		EOH						

LOCATION: IRWIN TOWNSHIP - BEARDMORE

PROPERTY: METALORE RESOURCES LTD.

HOLE NO: 83-X3

LATITUDE: 15+42S DEPARTURE: 13+43W

LENGTH: 197'

ELEVATION: _____

CLAIM NO. _____

INCLIN: -45°

CORE SIZE: NO 1 7/8"

SECTION: _____

AZIMUTH: 0130

DIP TESTS: NONE

LOGGED BY: D. OLIVER

STARTED: NOV. 10, 1983

DRILLED BY: BRADLEY BROTHERS LTD

DATE LOGGED: NOV. 12, 1983

COMPLETED: NOV. 11, 1983

DRILLED FOR: METALORE RESOURCES LTD.

PURPOSE: TO TEST QTZ VEIN

per Barb K

FEET METRES		DESCRIPTION	SAMPLE NO.	METRES FEET		LENGTH	ASSAYS						
From	To			From	To		Au/T						
0.0	10.0	CASING											
10.0	15.0	GROUND CORE											
15.0	29.0	MODERATELY FRACTURED MEDIUM GRAINED GREENISH GREY VOLCANIC. DIORITIC IN APPEARANCE. FRACTURES ARE QTZ-CARB FILLED. CALCAREOUS IN FRACTURES. HARDNESS 5.5-6. SULPHIDES < 1/2%.											
29.0	30.6	ALTERED REDDISH HEMATIZED SILICIOUS ZONE. HEMATITE 3% PY DISSIMINATIONS AT 3-5%. SILICA AT 15-20%.	9127	29.0	30.6	1.6						TR	
30.6	66.5	WEAKLY TO MODERATELY FRACTURED GREENISH GREY VOLCANIC SIMILAR TO 15'-29'. QTZ-CARB FRACTURES 75-80° TO CA. EPIDOTE PRESENT AS IMPREGNATION. CALCAREOUS IN FRACTURES. SULPHIDES 2 1/2%. WEAKLY MAGNETIC.											
66.5	67.8	SIMILAR TO 30.6-66.5 EXCEPT 2% HEMATITE AND 2% PYRITE DISSIMINATIONS.	9128	66.5	67.8	1.3						"	

DIAMOND DRILL RECORD & LOG

HOLE NO: 83-X3

PROPERTY: IRWIN TOWNSHIP-BEARDMORE

PAGE NO: 2 of 2

FEET METRES		DESCRIPTION	SAMPLE NO.	FEET METRES		LENGTH	ASSAYS	
From	To			From	To		Ag	T
67.8	109.7	FINE TO MEDIUM GRAINED GREENISH GREY VOLCANIC. DIORITIC TEXTURE. WEARLY FRACTURED AND FILLED BY SiO ₂ AND PINK CALCITE. WEAR TO MODERATELY MAGNETIC. HARDNESS 5.5-6. SULPHIDES < 1/2 %.						
109.7	111.6	SIMILAR TO 67.8-109.7 EXCEPT 3% HEMATITE AND 2-3% PY. DISSIMINATIONS.	9129	109.7	111.6	1.9		TR
111.6	122.3	SIMILAR TO 67.8-109.7						
122.3	123.3	HEMATIZED SILICIOUS ZONE UP TO 5% PY. 5% REDDISH BRECCIA.	9124	122.3	123.3	1.0		"
123.3	131.0	MEDIUM GRAINED GREENISH GREY VOLCANIC. DIORITIC. WEARLY FRACTURED. LOCALLY TO 1% PY. WEARLY TO MODERATELY MAGNETIC.	9130	123.3	125.7	2.4		"
131.0	133.0	GROUND CORE - UP TO 5% PY.	9131	131.0	133.0	2.0		"
133.0 133.0	147.0	WEARLY FRACTURED GREENISH GREY DIORITIC TEXTURE VOLCANIC. QTL AND PINK CALCITE FILLED FRACTURES. SULPHIDES < 1/2 %. WEAR TO MODERATE MAGNETICS. HARDNESS 6. CALCAREOUS IN FRACTURES.						
147		EOH						

FOOTAGE		DESCRIPTION	SAMPLE NO.	FOOTAGE		LENGTH	ASSAYS	
From	To			From	To		Au/T	
78.2	113.8	WEAK TO MODERATELY FRACTURED DIORITIC ROCK, CALCAREOUS IN FRACTURES ONLY. 78.2-79.2 CONTAINS HEMATITIC SEAM PLUS UP TO 5% PY. 84.9-91.2 IS MORE SEVERELY FRACTURED WITH QTL AND RUSTY RED CARBONATE SEAMS TO 3%. DISSIMINATED SULPHIDES VARY LOCALLY IN THIS UNIT FROM 1-5% HIGH CONCENTRATIONS OF SULPHIDES OCCUR IN ASSOCIATION WITH THE QTL-CARB SEAMS. MODERATE MAGNETICS.	9133	78.2	79.2	1.0		Nil
			9134	84.9	88.6	3.7		Nil
			9135	88.6	91.2	2.6		Nil
113.8	155.0	WEARLY FRACTURED DIORITIC MEDIUM GRAINED ROCK. 113.8-114 CONTAINS A HEMATITIC QTL SEAM PLUS 15% PY. HEMATITIC SEAMS WITHIN THE HOST OCCUR AT 1/2% AND GENERALLY CONTAIN DISSIMINATED PYRITE TO 1/2%. FRACTURES ARE CALCAREOUS AND 30° TO CIA. 127-128 GROUND CORE CONTAINING 5-10% PY. HARDNESS 5.5-6.	9136	113.8	114.0	0.2		0.005
			9137	117.0	118.6	1.6		Nil
			9138	127.0	128.0	1.0		0.002
155.0	197.0	WEARLY FRACTURED FINE TO MEDIUM TEXTURED GREENISH GREY NOBACNIC, HEAVY IMPRAGNATION OF EPIDOTE AT 5-10% FROM 166.8-168.3. THIS AFORE MENTIONED ZONE ALSO CONTAINS 2-3% PY. SULPHIDE CONTENT WITHIN THIS UNIT VARIES LOCALLY FROM 1/2-1 1/2%. CALCAREOUS IN FRACTURES ONLY. LOCALLY MODERATE TO STRONG MAGNETICS. SEAMS AND FRACTURES ALSO CONTAIN 1% REDDISH SILICA.	9139	166.8	168.3	1.5		Nil
197.0		EOH						

DIAMOND DRILL RECORD & LOG

LOCATION: IRWIN TOWNSHIP BEARDMORE ONT.

PROPERTY: METALORE RESOURCES LTD

HOLE NO: 83-X7

LATITUDE: _____ DEPARTURE: _____ LENGTH: 243.0
 INCLIN: -40° CORE SIZE: NO 17/8"
 AZIMUTH: 304° DIP TESTS: NONE
 STARTED: NOV. 24, 1983
 COMPLETED: NOV. 25, 1983
 PURPOSE: TO TEST QTZ VEIN

ELEVATION: _____ CLAIM NO. _____
 SECTION: _____
 LOGGED BY: BARB KOWALSKI
 DATE LOGGED: _____
 DRILLED BY: BRADLEY BROS. LTD.
 DRILLED FOR: METALORE RESOURCES LTD.

FEET.		DESCRIPTION	SAMPLE NO.	FOOTAGE		LENGTH	ASSAYS	
From	To			From	To		Au/T	Ag/T
51.1"	51.9"	SAME AS 33.75-35.55						
51.10"	53.0	QUARTZ VEIN WITH LOCALLY WEATHERED RED-BROWN ALTERATION THAT IS LOCALLY BRECCIATED AREAS OF VEIN ARE CALCAREOUS. FIVE PERCENT DISSEMINATED PYRITE IS PRESENT. SPECTROMETER READINGS 3 AT 40, 45, 40 counts per minute.	9167	51.10"	53.0	1.2°	0.23	0.18
53.0	59.8"	SAME AS 33.75-35.55						
59.8"	83.11"	HOMOGENEOUS, GREEN, DIORITE. SHARP CONTACT. MODERATELY TO STRONGLY FRACTURED WITH BLEBS AND VEINLETS FILLED WITH EPIDOTE (LOCALLY RIMMING K-FELDSPAR), K-FELDSPAR, CHLORITE, QUARTZ AND PINKISH CALCITE. DISSEMINATED PYRITE < 1/2% THROUGHOUT.						
83.11"	95.5"	SAME AS 59.8-83.11, EXCEPT ALTERATIONS ARE WEAK.						
95.5"	101.5"	WEAK, LOCAL BRECCIATION OF DIORITE WITH PINKISH ALTERATION. PINKISH CALCITIC VEINLETS (< 1/4" IN WIDTH) IN ASSOCIATION WITH CALCITE DISSEMINATED OXYIDE (S?) OCCURS						

DIAMOND DRILL RECORD & LOG

LOCATION: IRWIN TOWNSHIP - BEARDMORE ONT. PROPERTY: METALORE RESOURCES LTD.HOLE NO: 83-X7

LATITUDE: _____ DEPARTURE: _____ LENGTH: 243.0'
 INCLIN: -40° CORE SIZE: NQ 1 7/8"
 AZIMUTH: 304° DIP TESTS: None
 STARTED: NOV. 24, 1983
 COMPLETED: _____
 PURPOSE: TO TEST QTZ VEIN

ELEVATION: _____

CLAIM NO. _____
 SECTION: _____
 LOGGED BY: BARB KWALSKI
 DATE LOGGED: _____

DRILLED BY: BRADLEY BROS. LTD.
 DRILLED FOR: METALORE RESOURCES LTD.

FEET.		DESCRIPTION	SAMPLE NO.	FOOTAGE		LENGTH	ASSAYS	
From	To			From	To		Aglt.	Aglt.
101.5	117.6	SAME AS 83.11 - 95.5.						
		111.2 TO 112.11 CALCITIC VUGS WITH COARSE- GRAINED (1%) PYRITE. SPECTROMETER READINGS (2) AT 30, 35 counts per minute	9168	111.2	112.11	0.9'	0.07	0.09
117.6	119.3	SAME AS 95.5 - 101.5.						
119.3	126.0	SAME AS 83.11 - 95.5						
126.0	173.0	SAME AS 83.11 - 95.5, HOWEVER ALL CORE IS MIXED DUE TO ACCIDENT BY FOREMAN.						
147.3	179.6	SAME AS 83.11 - 95.5						
179.6	180.8	SAME AS 95.5 - 101.5						
180.8	220.0	SAME AS 83.11 - 95.5, AT 196.2 COARSE-GRAINED PYRITE $\leq 3/8"$ OCCUR.						
220.0	224.0	SAME AS 59.8 - 83.11						
224.0	243.0	SAME AS 83.11 - 95.5.						

LOCATION: IRWIN-TOWNSHIP - BEARDMORE, ONT. PROPERTY: METALORE RESOURCES LTD

HOLE NO: 83-X 8

LATITUDE: 14+68W DEPARTURE: 15+70S LENGTH: 67.0
 INCLIN: -40° CORE SIZE: NQ 1 7/8"
 AZIMUTH: 304° DIP TESTS: NONE
 STARTED: NOV. 26, 1983
 COMPLETED: NOV. 27, 1983
 PURPOSE: TO TEST QUARTZ VEIN

ELEVATION: _____
 CLAIM NO. _____
 SECTION: _____
 LOGGED BY: BARB KOVALSKI
 DATE LOGGED: Nov. 27, 1983
 DRILLED BY: BRADLEY BROS LTD.
 DRILLED FOR: METALORE RESOURCES LTD.

FEET.		DESCRIPTION	SAMPLE NO.	FOOTAGE		LENGTH	ASSAYS	
From	To			From	To		Au/T	Ag/T
0.0	10.0	CASING						
10.0	10.10"	GROUND CORE						
10.10"	19.3"	MASSIVE, FINE-GRAINED, GREEN VOLCANIC. LOCALLY, FRACTURING IS STRONG. FRACTURES ARE FILLED WITH EPIDOTE; K-FELDSPAR (PINKISH-ORANGE) WHICH IS OCCASSIONALLY RIMMED BY EPIDOTE; QUARTZ AND CALCITIC VEINLETS (< 1/4" IN WIDTH). WEAKLY BRECCIATED (LOCALLY). LESS THAN 1/2% PYRITE, ALTHOUGH, UP TO 2% PYRITE (COARSE-GRAINED) OCCURS IN PLACES. SPECTROMETER READINGS (2) 40 TO 50 COUNTS PER MINUTE.	9169	13.3"	14.6"	1.3"	0.002	0.04
19.3"	19.9"	CALCITE + QUARTZ VEIN (6" IN WIDTH). CALCITE HAS PINK ALTERATION. UP TO 2% DISSEMINATED. PYRITE, AND WEATHERED SULPHIDES (ORANGE).	9170	19.3"	19.9"	0.6"	0.002	0.03
19.9"	60.6"	SAME AS 10.10 - 19.3.						
60.6"	61.4"	QUARTZ VEIN WITH < 1/4" CHLORITIC SEAMS. VEIN IS 6" IN LENGTH. DISSEMINATED AND COARSE-GRAINED PYRITE ARE MOSTLY FOUND ALONG CHLORITIC SEAMS. VERY WEAK PINK HUE TO QUARTZ VEIN.	9171	60.6"	61.4"	0.8"	0.04	0.08

LOCATION: IRWIN-TOWNSHIP BEARDMORE, ONT. PROPERTY: METALORE RESOURCES LTD

HOLE NO: 83-X9

LATITUDE: 11+50W DEPARTURE: 15+70S LENGTH: 172.0'
 INCLIN: -40° CORE SIZE: NQ 1 7/8"
 AZIMUTH: 342° DIP TESTS: NONE.
 STARTED: NOV. 28, 1983
 COMPLETED: NOV. 28, 1983
 PURPOSE: TO TEST QUARTZ VEIN

ELEVATION: _____

CLAIM NO. _____

SECTION: _____

LOGGED BY: BARB. KOWALSKI

DATE LOGGED: _____

DRILLED BY: BRADLEY PROP. LTD.
 DRILLED FOR: METALORE RESOURCES LTD.

BACKGROUND SPECTROMETER READING (K) 25 c.p.m.

FEET.		DESCRIPTION	SAMPLE NO.	FOOTAGE		LENGTH	ASSAYS	
From	To			From	To		Au/T	Ag/T
0.0	10.0	CASING.						
10.0	57.0	HOMOGENEOUS, GREEN DIORITE, WEAKLY MAGNETIC. WEAK TO MODERATE FRACTURING WITH EPIDOTE, QUARTZ, SERICITE (YELLOWISH-WHITE) AND K-FELSPAR OCCURRING AS $\leq 1/4"$ VEINLETS AND BLEBS. CALCAREOUS VEINLETS & VUGS HAVE PINK HUE (VUGS UP TO 2" IN WIDTH). ASSOCIATED WITH K-ALTERATION (< 2" BANDS) IS DISSEMINATED PYRITE (2%). WEATHERED SULPHIDE STAINING (ORANGE) IS PRESENT LOCALLY.						
57.0	59.2'	QUARTZ VEIN WITH PYRITE 1%; CALCITE WITH PYRITE 1% AND WALLROCK WITH 3% PYRITE. CHLORITIC SEAMS IN QUARTZ VEIN CARRY PYRITE. WALLROCK IS WEAKLY BRECCIATED WITH K-ALTERATION.	9173	57.0	59.2'	2.2"	0.01	0.07
59.2'	126.6"	SAME AS 10.0-57.0 AT 104.0-107.7; 114.6-115.8; 144.0-145.3 WEAKLY BRECCIATED DIORITE WITH K-ALTERATION. MAFIC MINERALS IN DIORITE ARE WELL FOLIATED. BRECCIATED AREAS ARE IN SHARP CONTACT WITH UNDEFORMED DIORITE LOCALLY,						

LOCATION: IRWIN-TOWNSHIP BEARMORE, ONT.PROPERTY: METALORE RESOURCES LTD.HOLE NO: 83-X10LATITUDE: 11+50W DEPARTURE: 15+70S LENGTH: 186.0'

ELEVATION: _____

CLAIM NO. _____

INCLIN: -45° CORE SIZE: NO 1 7/8"

SECTION: _____

AZIMUTH: 304° DIP TESTS: NONELOGGED BY: BARB KOWALSKISTARTED: NOV. 29, 1983.DRILLED BY: BRADLEY BROS. LTD.COMPLETED: NOV. 29, 1983DRILLED FOR: METALORE RESOURCES LTD.PURPOSE: TO TEST QUARTZ VEIN.DATE LOGGED: NOV. 29, 1983BACKGROUND SPECTROMETER (K) READING 25 c.p.m.

FEET		DESCRIPTION	SAMPLE NO.	FOOTAGE		LENGTH	ASSAYS	
From	To			From	To		Ag/t	Ag/t
0.0	27.5"	CASING.						
27.5"	86.1"	HOMOGENEOUS GREEN, DIORITE. WEAKLY FRACTURED WITH BLEBS AND VEINLETS FILLED WITH EPIDOTE K-FELDSPAR, CALCITE, QUARTZ. LOCALLY, DIORITE IS WEAKLY BRECCIATED WITH POTASSIC-ALTERATION, AND < 1% COARSE-GRAINED PYRITE. MAFIC MINERALS IN DIORITE ARE LOCALLY WELL FOLIATED. DIORITE IS WEAKLY MAGNETIC.						
86.1"	94.4"	QUARTZ VEIN WITH POTASSIC ALTERATION SPECTROMETER READING(2) OF VEIN 35 + 25 COUNTS PER MINUTE. QUARTZ VEIN 3" IN WIDTH. 2% PYRITE (DISSEMINATED).	9178	88.6"	89.3"	0.3"		TR
		86.1-88.6 WALLROCK TO QUARTZ VEIN. BRECCIATED WITH K-ALTERATION. IT IS WEAKLY MAGNETIC. QUARTZ AND CALCITIC VEINLETS. UP TO 5% DISSEMINATED PYRITE. SPECTROMETER READINGS (2) 30 COUNTS PER MINUTE. (NEAR BACKGROUND)	9177	86.1"	88.6"	2.5"		0.01
		WALLROCK SAME AS 86.1-88.6						
		89.2-94.4 WALLROCK SAME AS 86.1-88.6 SPECTROMETER READINGS 40 COUNTS PER MIN.	9179	89.3"	94.4"	5.1"		TR

DIAMOND DRILL RECORD & LOG

X

LOCATION: IRWIN TWSP - BEARDMORE, ONT

PROPERTY: METALORE RESOURCES LTD

HOLE NO: 83-X11

LATITUDE: 11+50W DEPARTURE: 5+7.05 LENGTH: 107.0'
 INCLIN: -45° CORE SIZE: NQ 1 7/8"
 AZIMUTH: 20° DIP TESTS: NONE
 STARTED: NOV. 29, 1983
 COMPLETED: NOV. 29, 1983
 PURPOSE: TO TEST QUARTZ VEIN

ELEVATION: _____ CLAIM NO. _____
 SECTION: _____
 LOGGED BY: Paul Kowalick
 DATE LOGGED: Nov. 29, 1983
 DRILLED BY: BRADLEY BROS. LTD
 DRILLED FOR: METALORE RESOURCES LTD.

FEET		DESCRIPTION	SAMPLE NO.	FOOTAGE		LENGTH	ASSAYS	
From	To			From	To			
0.0	10.0	CASING.						
10.0	61.3'	INTERMITTENT GROUND CORE FROM 10.0' - 23.0'. HOMOGENEOUS GREEN DIORITE. WEAKLY FRACTURED WITH BLEBS AND VEINLETS FILLED WITH QUARTZ EPIDOTE, K-FELDSPAR, CALCITE + Fe-CARBONATE. LOCALLY EPIDOTE RIMS K-FELDSPAR. LESS THAN 2% DISSEMINATED PYRITE THROUGHOUT. WEAKLY MAGNETIC.						
61.3'	70.2	QUARTZ VEIN WITH POTASSIC ALTERATION. IN PINK CALCITIC VUGS, VEINLETS AND BLEBS, MOST OF PYRITE IS CONCENTRATED. THE REMAINING PYRITE IS FOUND ALONG CHLORITIC VEINLETS WITHIN QUARTZ. PYRITE CONSTITUTES 15% OF VEIN. SPECTROMETER READINGS (G) THREE AT 30 COUNTS PER MINUTE; THREE AT 25 COUNTS PER MINUTE.	9181	61.3"	70.2"	8.9"		0.04
70.2	89.4	SAME AS 10.0-61.3'						

LOCATION: IRWIN-TOWNSHIP BEARDMORE, ONT. PROPERTY: METALORE RESOURCES LTD.

HOLE NO: 83-X12

LATITUDE: 11750W DEPARTURE: 15+70S LENGTH: 95.0'
 INCLIN: -60° CORE SIZE: NQ 1 7/8"
 AZIMUTH: 342° DIP TESTS: NONE
 STARTED: NOV. 30, 1983
 COMPLETED: NOV. 30, 1983
 PURPOSE: TO TEST QUARTZ VEIN

ELEVATION: _____

CLAIM NO. _____

SECTION: _____

LOGGED BY: Paul KowalskiDATE LOGGED: Nov. 30, 1983DRILLED BY: PRADLEY BROS LTDDRILLED FOR: METALORE RESOURCES LTD

SPECTROMETER BACKGROUND READINGS (K) 25 c.p.m

FEET		DESCRIPTION	SAMPLE NO.	FOOTAGE		LENGTH	ASSAYS	
From	To			From	To		Ag/T	Ag/L
0.0	8.0	CASING						
8.0	38.1"	8.0 TO 15.0 INTERMITTENT GROUND CORE. HOMOGENEOUS, GREEN DIORITE, WEAKLY MAGNETIC (WEAK FRACTURED) WITH BLENDS AND VEINLETS FILLED WITH QUARTZ EPIDOTE K-FELDSPAR CALCITE AND Fe-CARBONATE. 'LESS THAN' 1% DISSEMINATED PYRITE THROUGHOUT.						
38.1"	41.3"	MASSIVE FINE-GRAINED, GREEN MAFIC VOLCANIC WEAKLY MAGNETIC. SAME DEGREE OF FRACTURING AND FILLINGS AS 8.0-38.1. POTASSIC-ALTERATION OCCURS AS DISCRETE ≤ 3 " ZONES WITH QUARTZ AND CHLORITE. IN THESE AREAS UP TO 1% PYRITE (DISSEMINATED) IS CONCENTRATED.						
41.3"	95.0	SAME AS 8.0-38.1. LOCALLY 3" CALCITIC (PINK) VEINS WITH WEAKLY BRECCIATED WALL ROCK (PINK- GREEN). OCCURS WITH 2% DISSEMINATED PYRITE. SPECTROMETER READINGS (3) OF CALCITE 25 COUNTS PER MINUTE 77.5-78.7 QUARTZ VEIN WITH POTASSIC-ALTERATION AND CHLORITIC VEINLETS. UP TO 5% PYRITE IS FOUND WITH POTASSIC + CHLORITIC ALTERATIONS.	9183	89.2"	90.0	10 inches		
			9182	77.5"	78.7"	1.2"	002	

LOCATION: IRWIN TOWNSHIP, BEARDMORE, ONT.

PROPERTY: METALORE RESOURCES LTD

HOLE NO: 83-X15

LATITUDE: 10400E DEPARTURE: 14415S LENGTH: 130.0'
 INCLIN: -45° CORE SIZE: NQ 1 7/8"
 AZIMUTH: N DIP TESTS: NONE
 STARTED: DEC. 1, 1983
 COMPLETED: DEC. 1, 1983
 PURPOSE: TO TEST QTZ-CARB ZONE

ELEVATION:

CLAIM NO. BEAVERDAM
 SECTION: TRENCH
 LOGGED BY: Paul Kawalski
 DATE LOGGED: DEC. 1, 1983

DRILLED BY: BRADLEY BROS. LTD.
 DRILLED FOR: METALORE RESOURCES LTD

Barbara Kawalski

BACKGROUND SPECTROMETER READING (K) 25 c.p.m.

FEET		DESCRIPTION	SAMPLE NO.	FOOTAGE		LENGTH	ASSAYS	
From	To			From	To		Aut	Aglt
0.0	6.0	CASING						
6.0	68.9"	HOMOGENEOUS, GREEN, DIORITE. WEAKLY FRACTURED WITH POORLY DEVELOPED EPIDOTE-POTASSIC-AND CHLORITIC-ALTERATIONS. CARBONATE VEINLETS ARE RIMMED WITH K-FELDSPAR, WHICH IN TURN IS RIMMED BY EPIDOTE. QUARTZ MICROVEINLETS ARE PRESENT THROUGHOUT. LOCALLY, DIORITE IS WEAKLY BRECCIATED WITH VERY POOR POTASSIC-ALTERATION. WEAK MAGNETICS. LESS THAN 1% DISSEMINATED PYRITE.						
68.9'	69.4'	DARK GREEN, FINE-GRAINED, MASSIVE, VOLCANIC QUARTZ STRINGERS THROUGHOUT. CHLORITE AND CARBONATE BLEBS AND VEINLETS. ARE PRESENT LESS THAN 1% DISSEMINATED PYRITE.	9184	68.9	69.4	7"	0.03	0.18
69.4'	70.3'	WELL-FOLIATED, DARK GREEN CHLORITE, CARBONATE, POTASSIC-ALTERED SCHIST. SPECTROMETER READING 35 COUNTS PER MINUTE. TEN TO FIFTEEN PERCENT DISSEMINATED PYRITE. WEAKLY MAGNETIC						

LOCATION: IRWIN TOWNSHIP, BEARMORE, ONT. PROPERTY: METALORE RESOURCES LTD.

HOLE NO: 83-X15

LATITUDE: 10400E DEPARTURE: 14415S LENGTH: 1300'
 INCLIN: -45° CORE SIZE: NW 1 7/8"
 AZIMUTH: N DIP TESTS: NONE.
 STARTED: DEC. 1, 1983
 COMPLETED: DEC. 1, 1983.
 PURPOSE: TO TEST QTZ-CARB ZONE.

ELEVATION: —

CLAIM NO. BEAVERDALE
 SECTION: TRENCH
 LOGGED BY: Paul Kowalicki
 DATE LOGGED: DEC. 1, 1983

DRILLED BY: BRADLEY BROS LTD.
 DRILLED FOR: METALORE RESOURCES LTD.

FEET		DESCRIPTION	SAMPLE NO.	FOOTAGE		LENGTH	ASSAYS	
From	To			From	To		Au/T	Ag/T
70.3"	75.8"	VERY WELL-FOLIATED, CHLORITIC VOLCANIC. POORLY DEVELOPED PINK-ALTERATION. LESS THAN 5% QUARTZ AND CALCITIC STRINGERS. LESS THAN 2% DISSEMINATED PYRITE.						
75.8"	82.2"	QUARTZ-CARBONATE-CHLORITIC SCHIST WITH POTASSIC (PINK) ALTERATION. BLACK QUARTZ IN MICROVEINLETS PRESENT. TEN TO FIFTEEN PERCENT PYRITE AND $\ll 1/2\%$ CHALCOPYRITE. SPECTROMETER READINGS (4) AT 30, 30, 35, 35 COUNTS PER MINUTE.	9185	75.8"	82.2"	6.4"	0.01	0.03
82.2"	88.8"	DARK RED-GREEN MASSIVE FINE-GRAINED VOLCANIC WITH LOCAL QUARTZ, CARBONATE, CHLORITIC VEINS ($< 1/2"$ IN WIDTH). POTASSIC-ALTERATION \rightarrow SPECTROMETER READINGS (5) 35, 38, 36, 35, 40. VOLCANIC IS VERY HARD. FIVE TO TEN PERCENT DISSEMINATED PYRITE.	9186	82.2"	88.8"	6.6"	0.005	0.01

LOCATION: IRWIN TOWNSHIP, BEARDMORE, ONT

PROPERTY: METALORE RESOURCES LTD

HOLE NO: 83-X15

LATITUDE: _____ DEPARTURE: _____

LENGTH: 130.0'

ELEVATION: _____

CLAIM NO. BEAVER DAM

INCLIN: -45°

CORE SIZE: NO 1 7/8"

SECTION: TRENCH

AZIMUTH: _____

DIP TESTS: NONE

LOGGED BY: Bob Kowalski

STARTED: DEC 1

DRILLED BY: BRADLEY BROS. LTD.

DATE LOGGED: DEC 1

COMPLETED: DEC 1

DRILLED FOR: METALORE RESOURCES LTD

PURPOSE: TO TEST QUARTZ-CARBONATE ZONE.

FEET		DESCRIPTION	SAMPLE NO.	FOOTAGE		LENGTH	ASSAYS	
From	To			From	To		Au/T	Ag/T
88.8"	96.5"	DARK GREEN, MASSIVE, FINE-GRAINED VOLCANIC. WEAKLY FRACTURED. WEAK ALTERATIONS (EPIDOTE, POTASSIC (PINK). ONE PERCENT DISSEMINATED PYRITE.						
96.5"	102.3"	WEAKLY BRECCIATED RED-DARK GREEN VOLCANIC CARBONATE BLEBS AND VEINLETS, STAINED WITH PINK-ALTERATION. VOLCANIC HAS BEEN SILICIFIED. LESS THAN 5% PYRITE (DISSEMINATED) SPECTROMETER READINGS (FIVE) AT 25 COUNTS PER MINUTE.	9187	96.5"	97.0"	5.2"	0.002	0.01
		AT 97.0 - 97.8 STRONGLY CHLORITIZED, CALCIFIED WITH VERY WEAK POTASSIC (PINK)-ALTERATION. FIVE PERCENT DISSEMINATED PYRITE.	9188	97.0"	97.8"	8"	0.01	0.03
102.3"	130.0"	MASSIVE DARK GREEN, FINE-GRAINED, WEAKLY FRACTURED, VOLCANIC. CHLORITIC VEINLETS THROUGHOUT. VOLCANIC IS VERY HARD.						
EOH		LOCALLY IT IS WELL FOLIATED, CARBONATED AND WEAKLY BRECCIATED. LESS THAN THREE PERCENT DISSEMINATED PYRITE.						

LOCATION: IRWIN-TOWNSHIP, BEARMORE, ONT. PROPERTY: METALORE RESOURCESHOLE NO: 83-X16

LATITUDE: 42°00'E DEPARTURE: 14700.5 LENGTH: 114.0'
 INCLIN: -45° CORE SIZE: NQ 1 7/8"
 AZIMUTH: N DIP TESTS: NONE
 STARTED: DEC. 3, 1983
 COMPLETED: DEC. 3, 1983
 PURPOSE: TO TEST QUARTZ + CARBONATE ZONES

ELEVATION: _____

CLAIM NO. BEAVERDAM
 SECTION: TRENCH
 LOGGED BY: BARB KOWALSKI
 DATE LOGGED: DEC. 3, 1983

DRILLED BY: BRADLEY BROS. LTD
 DRILLED FOR: METALORE RESOURCES LTD

FEET		DESCRIPTION	SAMPLE NO.	FOOTAGE		LENGTH	ASSAYS						
From	To			From	To		Au/T.	Ag/T.					
0.0	10.0	CASING											
10.0	54.0	INTERMITTENT GROUND CORE FROM 10.0 TO 28.3. HOMOGENEOUS, DARK GREEN, DIORITE, WEAKLY MAGNETIC, WEAKLY FRACTURED IN VEINLETS AND BLEDGS OF EPIDOTE, CARBONATE, QUARTZ, K-FELDSPAR, WEAKLY BRECCIATED, LOCALLY WITH ACCOMPANIED PINK-POTASSIC ALTERATION. CHLORITIC VEINLETS (< 1/4" IN WIDTH) THROUGHOUT. LESS THAN 1/2% DISSEMINATED PYRITE.											
		AT 28.3 THERE IS A FIVE INCH LENGTH OF PINK CALCITE, QUARTZ, CHLORITE WITH ONE PERCENT DISSEMINATED PYRITE.											
54.0	65.6"	WELL FOLIATED MAFIC MINERALS IN DIORITE. NUMEROUS QUARTZ - PINK CARBONATE BLEDGS AND VEINS (WHERE VEINS REACH TO 3" WIDTHS) CHLORITIC VEINLETS (< 1/4" WIDTH) ARE PRESENT THROUGHOUT. LOCALLY DIORITE IS WEAKLY BRECCIATED, RED-GREEN IN COLOUR WITH LOCAL VERY STRONG POTASSIC-ALTERATION. SPECTROMETER READINGS ON THESE AREAS IS 35, 30, 25, 25, 25 30+30	9190	54.0	65.6"	11.6"							TR

LOCATION: IRWIN TOWNSHIP, BEARDMORE, ONT.

PROPERTY: METALORE RESOURCES LTD.

HOLE NO: 83-X16

LATITUDE: _____ DEPARTURE: _____

LENGTH: 114.0'

ELEVATION: _____

CLAIM NO. BEAVER DAM

INCLIN: -45°

CORE SIZE: NO 1 7/8"

SECTION: TRENCH

AZIMUTH: _____

DIP TESTS: NONE.

LOGGED BY: Paul Kowalski

STARTED: DEC. 3, 1983

DRILLED BY: Bradley Bros. Ltd.

DATE LOGGED: Dec. 3, 1983

COMPLETED: DEC. 3, 1983

DRILLED FOR: METALORE RESOURCES LTD.

PURPOSE: TO TEST QUARTZ + CARBONATE ZONE.

FEET		DESCRIPTION	SAMPLE NO.	FOOTAGE		LENGTH	ASSAYS							
From	To			From	To		AULT.							
		THERE ARE ALSO < 1/2" VEINLETS AND STRINGERS OF RED-BROWN Fe-CARBONATE. (4%).												
65.6"	69.4"	INTERMITTENT QUARTZ - CARBONATE VEIN, WHERE WIDTHS OF 9", 7", 7" ARE FOUND IN THIS SECTION. BETWEEN THESE VEINS WALLROCK IS VERY WEAKLY BRECCIATED, RED IN COLOUR WITH CHLORITIC STRINGERS. UP TO 5% DISSEMINATED PYRITE. SPECTROMETER READINGS (3) AT 30, 25, 25 COUNTS PER MINUTE.	9191	65.6"	69.4"	3.10"					0.24			
69.4"	89.0	SAME AS 54.0 - 65.6. EXCEPT ONE PERCENT BLUE METALLIC LUSTROUS MINERAL IN STRINGERS IS FOUND. DARK RED HEMATITE IS PRESENT. UP TO 2% DISSEMINATED PYRITE IS PRESENT. SPECTROMETER READINGS 20, 25, 20, 25 + 30 OF LOCAL STRONG POTASSIC-ALTERATION.	9192	69.4"	75.9"	6.7"					TR			
89.0	114.0	SAME AS 10.0 - 54.0.												

EOH

LOCATION: Beaverdam

PROPERTY: Metamore Resources

HOLE NO: 84-X17

LATITUDE: 11+00E DEPARTURE: 14+00S LENGTH: 150'
 INCLIN: -45° CORE SIZE: BQ-17/16"
 AZIMUTH: N DIP TESTS: NONE
 STARTED: JAN. 14, 1984
 COMPLETED: JAN. 16, 1984
 PURPOSE: TO TEST QTZ-CARB VEIN

ELEVATION: -

CLAIM NO. _____
 SECTION: _____
 LOGGED BY: Paul Kowalski
 DATE LOGGED: Jan. 17.

DRILLED BY: Bradley Beas. Ltd
 DRILLED FOR: METAMORE RESOURCES

Barbara Kowalski

BACKGROUND SPECTROMETER READING (K) 25 c.p.m.

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS						
From	To			From	To		Alt	Aglt	Pb	Zn			
0.0	10.0	CASING.											
10.0	109.3	MASSIVE, UNIFORMLY DISTRIBUTED MAFIC MINERALS IN DIORITE. VERY WEAKLY FRACTURED WITH QTZ, CARB, Fe-CARB, AND EPIDOTE FILLINGS. WEAKLY MAGNETIC. LESS THAN 1/2% DISSEMINATED FINE-GRAINED PYRITE. AT 102.0 DIORITE ACQUIRES A SLIGHT PINK HUE.											
109.3	144.4"	ALTERED ZONE.											
		109.3-111.9 QTZ-SERICITE-CHLORITE SCHIST. DARK GREEN IN COLOUR WITH 5% PINK ALTERATION IN QTZ-CARB VEINLETS. LESS THAN 5% SERICITE. MICROFRACTURING OFFSETS PRIMARY FOLIATION. (60° CIA) THREE TO FOUR PERCENT DISSEMINATED PYRITE. SPECTROMETER READING BACKGROUND - 25 COUNTS PER MINUTE.	9241	109.3"	111.9"	2.6"		0.005					
		111.9-112.3 QTZ-CARB VEIN WITH NUMEROUS FRACTURES THROUGHOUT. FRACTURES ARE FILLED WITH CHLORITIC CARBONATE (SLIGHTLY PINK) AND SERICITIC MATERIAL. THREE PERCENT DISSEMINATED PYRITE. LESS THAN ONE PERCENT SHEEWITE.	9242	111.9"	112.3"	0.6"		0.002	TR				
		112.3-117.3 DARK GREEN TO BLACK WELL FOLIATED ROCK. FIVE PERCENT SERICITIC MATERIAL AND 2% CARB VEINLETS WITH	9243	112.3"	117.3"	5.0'		0.002	TR	0.01			

CATION: Beaverdam

PROPERTY: Metallor Resources

HOLE NO: 84X-17

LATITUDE: _____ DEPARTURE: _____ LENGTH: 150'
 INCLIN: -45° CORE SIZE: BQ
 AZIMUTH: _____ DIP TESTS: _____
 STARTED: JAN. 14, 1984
 COMPLETED: JAN. 16, 1984
 PURPOSE: TO TEST QTZ-CARB VEIN.

ELEVATION: _____ CLAIM NO. _____
 SECTION: _____
 LOGGED BY: Paul Kowalski
 DATE LOGGED: Jan. 17
 DRILLED BY: BRADLEY BESS LTD
 DRILLED FOR: METALLOR RESOURCES

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS %			
From	To			From	To		Au/T	Ag/T	Pb	Zn
		PINKISH HUE. THREE PERCENT FINE-GRAINED PYRITE ASSOC. WITH CHLORITIC VEINLETS AND 2% BLUE METALLIC MINERAL ASSOCIATED WITH CARBONATE VEINLETS.								
		117.3-120.9 DARK GREEN ROCK WITH 30% CARBONATE VEINLETS WHERE SOME HAVE A PINK HUE. NUMEROUS QTZ MICROVEINLETS AND CHLORITIC VEINLETS WHERE PYRITE (DISSEMINATED 3%) IS ASSOCIATED WITH THE LATTER. LESS THAN 1% BLUE LUSTROUS MINERAL.	9244	117.3"	120.9"	3.6"	0.002	TR	0.005	
		120.9-124.1 MASSIVE IN APPEARANCE DARK REDDISH-BLACK ROCK WITH < 3% QTZ-CARB-CHLORITE-SERICITE VEINLETS. LESS THAN 2% COARSE-GRAINED PYRITE. SPECTROMETER READING 23 COUNTS PER MINUTE.	9245	120.9"	124.1"	3.4"	0.005			
		124.1-128.3 WEAKLY K-ALT. AND BRECCIATED GREEN-BLACK HARD ROCK. FORTY PERCENT QTZ-CARB BLESS AND VEINLETS. LESS THAN 4% SERICITE AND CHLORITE. FIFTEEN PERCENT DISSEMINATED FINE-GRAINED TO COARSE-GRAINED PYRITE. LESS THAN 1% BLUE LUSTROUS MINERAL (FINE-GRAINED). LESS THAN 1% CHALCOPYRITE - FINE-GRAINED, DISSEMINATED.	9246	124.1"	128.3"	4.2"	0.005	0.01	0.005	0.005

DIAMOND DRILL RECORD & LOG

X

LOCATION: Beavedam

PROPERTY: Metalore Resources Ltd.

HOLE NO: 84-Y18

LATITUDE: 8+00E DEPARTURE: 13+80S LENGTH: 157.0'
 INCLIN: -45° CORE SIZE: BQ
 AZIMUTH: N DIP TESTS: _____
 STARTED: Jan 18, 1984
 COMPLETED: Jan 19, 1984
 PURPOSE: 1% test Q-Carb Vein

ELEVATION: _____
 CLAIM NO. _____
 SECTION: _____
 LOGGED BY: Paul Kowalski
 DATE LOGGED: Jan 19, 1984
 DRILLED BY: Bradley Bros.
 DRILLED FOR: Metalore Resources

Paul K

BACKGROUND SPECTROMETER READING (K) 25 c.p.m.

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS	
From	To			From	To		Aut	Ag/Tr
0.0	10.0	CASING						
10.0	24.7"	GROUND CORE						
24.7"	91.5"	MASSIVE, MEDIUM-GREEN DIORITE, WEAKLY FRACTURED WITH WEAK DEVELOPMENT OF QTZ, CARB AND EPIDOTE VEINLETS. LESS THAN 1/2% DISSEMINATED PYRITE. WEAKLY MAGNETIC.						
91.5"	127.0	SHARP CONTACT WITH DIORITE. FINE-GRAINED, WEAKLY MAGNETIC, MEDIUM-GREEN MAFIC VOLCANIC. LOCALLY IT HAS ACQUIRED A VERY SLIGHT RED HUE AND BRECCIATION IS POORLY DEVELOPED. IRON CARBONATE <2%, AND <1% HEMATITE IS PRESENT. LESS THAN 1/2% VERY FINE-GRAINED PYRITE.						
127.0	134.6"	SIMILAR TO 24.7-91.5						
134.6"	143.0	ALTERED ZONE. NUMEROUS QTZ STRINGERS AND CARBONATE VEINLETS (WITH PINK HUE) CHLORITIC MICROVEINLETS THROUGHOUT. MODERATELY DEVELOPED FOLIATION. THREE PERCENT FINE-GRAINED DISSEMINATED PYRITE. SPECTROMETER READINGS - BACKGROUND - 25 COUNTS PER MINUTE	9253	134.6"	137.3"	2.9"	0.005	0.02
			9254	141.7"	143.0	1.5"	0.002	TR

DIAMOND DRILL RECORD & LOG

X

LOCATION: Bonwedam

PROPERTY: Metakoo Resources

HOLE NO: 84-X19

LATITUDE: 13+00E DEPARTURE: 13+65S

LENGTH: 171.0

ELEVATION: -

CLAIM NO. -

INCLIN: -45°

CORE SIZE: BQ-1 7/16"

SECTION: -

AZIMUTH: 0 N

DIP TESTS: -

LOGGED BY: Barb Kowalski

STARTED: Jan 16, 1984

DRILLED BY: Bradley Bros.

COMPLETED: Jan 17, 1984

DRILLED FOR: Metakoo Resources

PURPOSE: Test QTZ-CARB VEIN.

Barbara Kowalski

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS	
From	To			From	To		Au/T	Ag/T
0.0	6.0	CASING						
6.0	87.0	MASSIVE, MEDIUM-GREEN DIORITE VERY WEAKLY FRACTURED WITH QTZ, CARB AND EPIDOTE FILLINGS. WEAKLY MAGNETIC LESS THAN 1/2% DISSEMINATED PYRITE (FINE-GRAINED). LOCALLY IT IS WEAKLY BRECCIATED WITH SLIGHT RED HUE						
87.0	103.0	ALTERED ZONE.						
		87.0-94.9 WELL FOLIATED 45° C/A, DARK GREEN BLACK ROCK WITH 15% FeCO ₃ AND 8% SERICITE. NUMEROUS CARBONATE VEINLETS. THREE PERCENT VERY FINE-GRAINED DISSEMINATED PYRITE.	9249	87.0	94.9"	7.9"	0.002	0.01
		94.9-96.9 CHLORITE-SERICITE-CARBONATE VEIN HIGHLY FRACTURED WITH EXTREMELY WEAK PINK HUE. THREE PERCENT VERY FINE-GRAINED PYRITE.	9250	94.9"	96.9"	2.0	0.01	0.01
		96.9-103.0 SIMILAR TO 87.0-94.9						
103.0	171.0	103.0-122.4 WEAKLY FRACTURED WEAKLY K-ALTERED DIORITE. FRACTURES <10% ARE FILLED WITH QTZ-CARB AND CHLORITE. LOCALLY ROCK IS WEAKLY BRECCIATED SLIGHTLY PINK AND ENRICHED IN VERY FINE-GRAINED PYRITE (3%).	9251	120.8	122.4"	1.8"	0.005	0.01
			9252	142.0	143.1"	1.1"	Nil	0.02

EOH

METALORE RESOURCES LIMITED

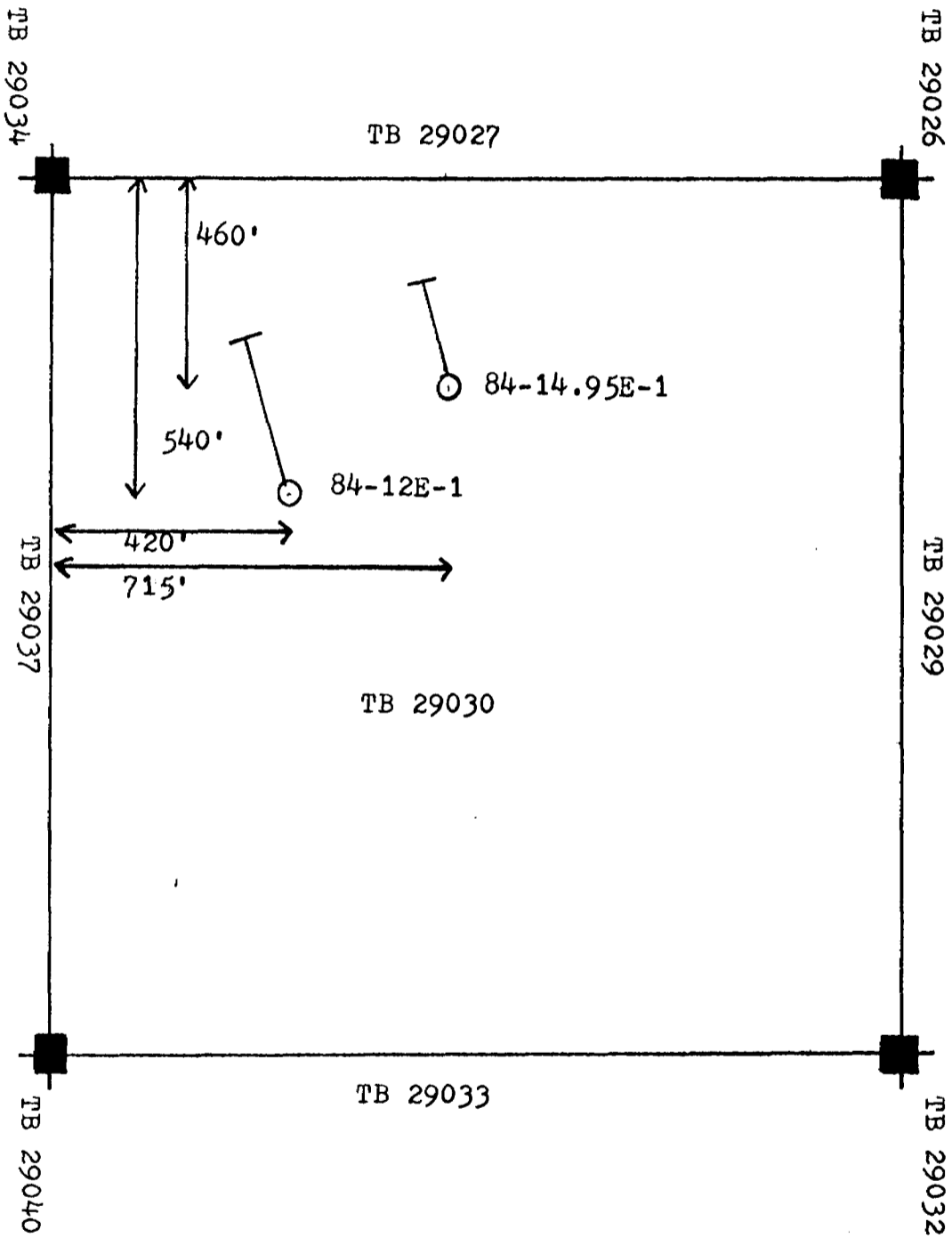
Location Map of DDH 84-14.95E-1, 84-12E-1

Irwin Township, Ontario

Claim Number TB 29030



SCALE: 1 INCH = 300 FEET



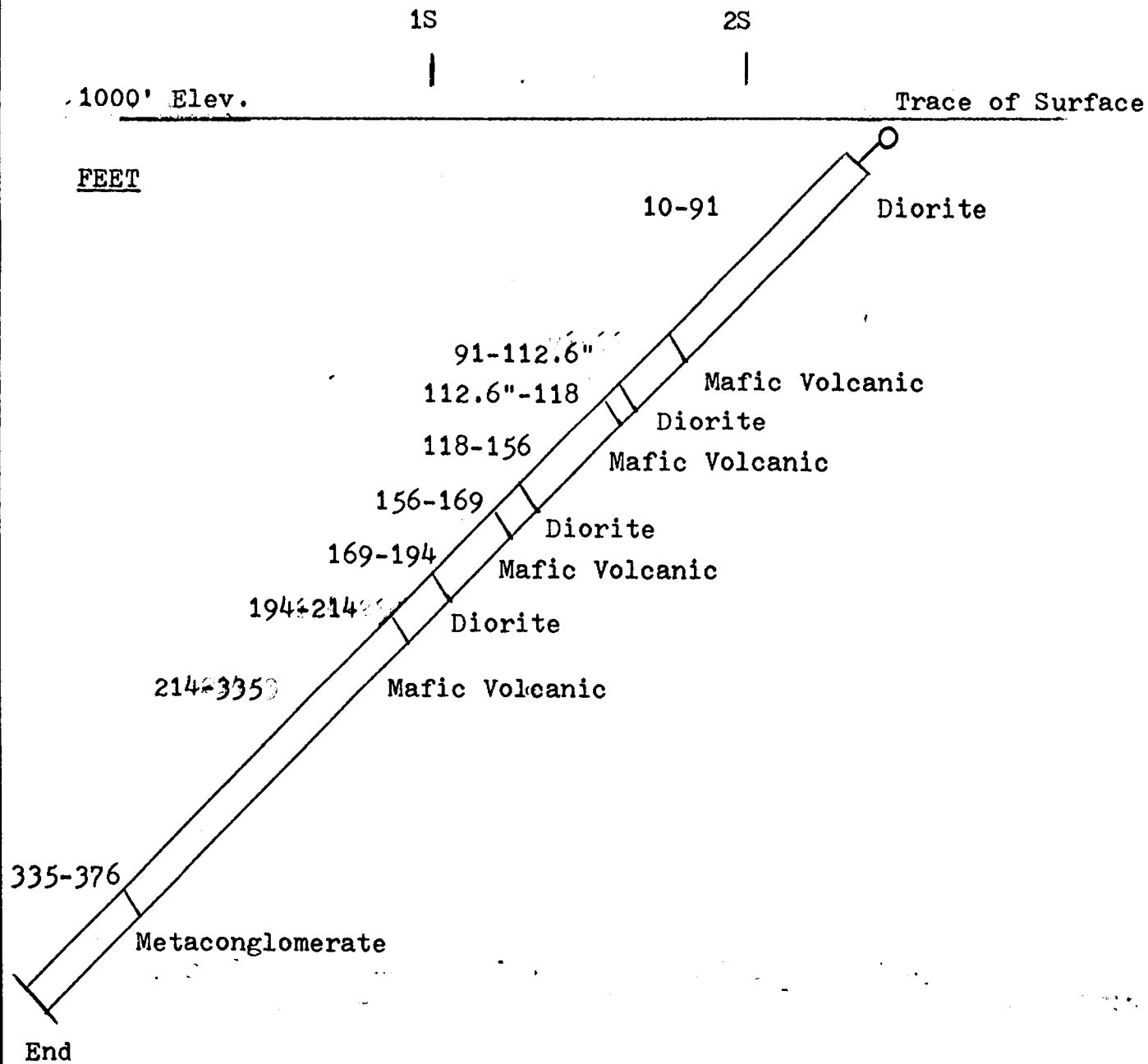
LEGEND

- Located (?) Claim Post
- Collar

BROOKBANK EAST GRID

Metalore DDH Vertical Section Line 12E

DDH Number 84-12E-1



LEGEND

— Geological Contact

○ Collar

Core Size: N-Q 1 7/8"

SCALE: 1 INCH = 50 FEET

Drawn by: Barbara Kowalski December 1984.

METALORE RESOURCES LIMITED

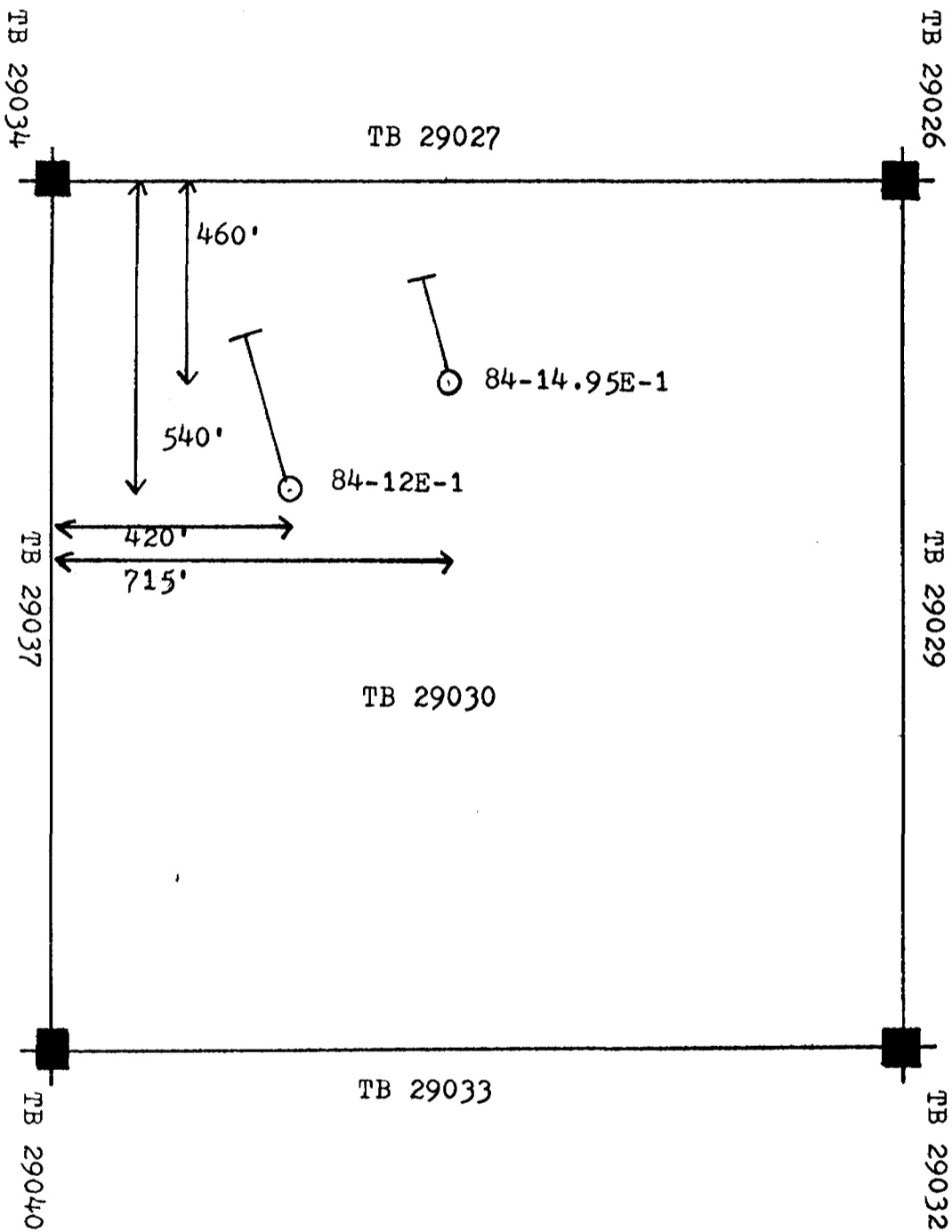
Location Map of DDH 84-14.95E-1, 84-12E-1

Irwin Township, Ontario

Claim Number TB 29030



SCALE: 1 INCH = 300 FEET



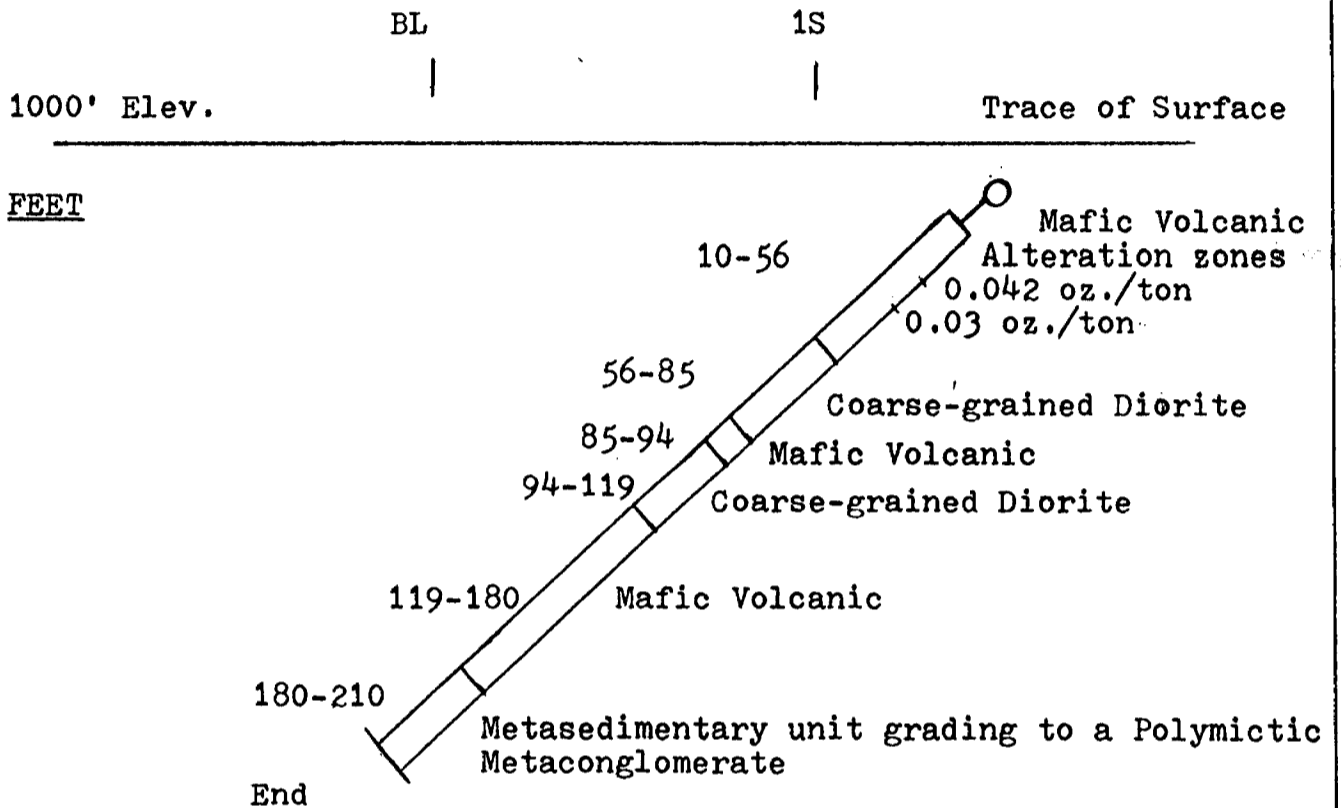
LEGEND

- Located (?) Claim Post
- Collar

BROOKBANK EAST GRID

Metalore DDH Vertical Section Line 14+95E

DDH Number 84-14.95E-1



LEGEND

— Geological Contact

○ Collar

Core Size: N-Q 1 7/8"

SCALE: 1 INCH = 50 FEET

Drawn by: Barbara Kowalski December 1984.

DIAMOND DRILL RECORD & LOG

LOCATION: BROOKBANK EAST GRID.

PROPERTY: METALORE RESOURCES LTD.

HOLE NO: 84-14+95E-1

LATITUDE: 14+95E

DEPARTURE: 1+40S.

LENGTH: 210'

ELEVATION: 1014'

CLAIM NO. _____

SECTION: VERTICAL

INCLIN: -42°

CORE SIZE: NQ-1 7/8"

LOGGED BY: Paul Kowalski

AZIMUTH: 358°

DIP TESTS: NONE

DATE LOGGED: Nov. 20, 1984

STARTED: NOV. 18, 1984

DRILLED BY: Bradley Burr Ltd.

COMPLETED: NOV. 19, 1984

DRILLED FOR: _____

PURPOSE: TEST BROOKBANK - MAFIC - SEDIMENT CONTACT.

Metalore Resources Ltd.

BK

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS						
From	To			From	To								
0.0	10.0	CASING											
10.0	56.0	MASSIVE MAFIC VOLCANIC WITH PIKAOW SKLVAGES. THREE PERCENT QTZ-CARB VEINLETS THROUGHOUT. LOCALLY VOLCANIC IS ALTERED WITH HEMATITE AND SILICIFICATION.											
		24.2-26.2 ALTERED SECTION WITH BRICK RED HEMATITE AND <10% SILICIFICATION. TEN PERCENT F.G. DISSEMINATED PYRITE.	10301	24.2"	26.2"	2				0.09			
		34.6"-36.2" POORLY DEVELOPED QTZ-CARB VEINLET WITH HEMATITE (<2%) AND SILICIFICATION (<5%). UP TO 5% FINE-GRAINED DISSEMINATED PYRITE.	10302	34.6"	36.2"	1.8"				0.030			
		44.3"-46.6" WEAKLY ALTERED WITH CARBONATE, CHLORITE AND FAINT HEMATITE. UP TO 3% FINE-GRAINED DISSEMINATED PYRITE AND 3% SPECULARITE VEINLETS.	10303	44.3"	46.6"	2.3"				TR			

METALORE RESOURCES LTD. DIAMOND DRILL LOG

Location: BROOKBANK - WEST Hole No. B-17W-2
 Latitude: 7400S Departure 17700W Elevation: 1002' Length: 1397' Core Size NQ - 1 7/8" Claim No. 29038 Started _____

Azimuth: 344 1392 72°
 Dip: -70°
 Tropari/Dip Tests: 407' 68° 1200' 67° _____
 Cap Correc. 800' 67° 1392' 64° _____

Completed: _____
 Logged by: BARBARA KOWALSKI
 Drilled by: MORISSETTE

Purpose: TO TEST BROOKBANK ZONE NOTE: BACKGROUND K-SPECTROMETER READING 400 COUNTS PER MIN.

Footage From	Footage To	Description	Sample No.	Footage		Length	Assays	
				From	To		Au oz/ton	
0.0	20.0	CASING						
0.0	126.0	MAFIC VOLCANIC VESICULAR WITH PILLOW SELVAGES THROUGH- OUT. GENERALLY, VOLCANIC IS MASSIVE. STRINGERS AND VEINLETS OF QTZ, Ca- & Fe- CARB, EPIDOTE AND HEMATITE ALONG SLIP- PLANES. WEAKLY MAGNETIC. <1% MED.-GRAINED DISSEMINATED PYRITE, << 1/4% CPY. (INTERMITTENT GROUND CORE THROUGHOUT).						
0.0	163.0	DIORITE SHARP CONTACT. IT IS MASSIVE, HOMOGENEOUS AND FINE-GRAINED. STRINGERS & VEINLETS AS DESCRIBED 20'-126'. HEMATITE + K-ALTERATIONS VISIBLE IN ISOLATED 2" AREAS. (400 COUNTS PER MINUTE K-SPECTROMETER). DIORITE IS STRONGLY MAGNETIC. <1/2% MEDIUM-GRAINED PYRITE. <1/2% MEDIUM-GRAINED CHALCOPYRITE.						
0.0	179.9"	MAFIC VOLCANIC. AS 20-126 178-179.9" MILKY WHITE QTZ VEIN WITH <1% MEDIUM- TO COARSE-GRAINED DISSEMINATED PYRITE AND CHALCOPYRITE. (BRALORNE VEIN).						
179.9"	199	DIORITE AS 126'-163'						
199	264	MAFIC VOLCANIC AS 20.0-126.0						

Footage From	To	Description	Sample No.	Footage		Length	Assays	
				From	To		Au oz/ton	
4.0	537.0	DIORITE COARSE-GRAINED AND IS DESCRIBED AS 126'-163'. 369-460 VERY WEAKLY ALTERED DIORITE. IT IS FRACTURED WITH STRINGERS OF QTZ, K-FELDSPAR, Ca- + Fe- CARBONATE. BRECCIATION IS WEAKLY DEVELOPED. THE ALTERATION IS SANDY PINK IN COLOUR WITH LOCAL (3" SECTIONS) OF WEAK SILICIFICATION. 5% MEDIUM-GRAINED DISSEMINATED PYRITE, <1/4% CHALCOPYRITE, <1/4% PHYRROTITE, AND <1% SPECULARITE. 460-470 STRONGLY ALTERED DIORITE. IT HAS BEEN HEATIZED, SERICITIZED, SILICIFIED AND K-ALTERATION IS WEAKLY- TO MODERATELY DEVELOPED. SPECTROMETER K-READING 400-600 COUNTS PER MINUTE. 470-537 VERY COARSE-GRAINED DIORITE.						
7	745	MAFIC VOLCANIC. IT IS MASSIVE AND FINE-GRAINED AS DESCRIBED AT 20-126.						
15	1273	DIORITE. SHARP CONTACT WITH THIS MASSIVE, HOMOGENEOUS, COARSE-GRAINED DIORITE. GENERALLY, <1% FINE- TO COARSE-GRAINED DISSEMINATED PYRITE, <1/4% CPY, Pb. 3% EPIDOTE VEINLETS + STRINGERS THROUGHOUT. ALTERED DIORITIC SECTIONS ARE ISOLATED AT 850-882, 897-929 AND 952-1004. THIS ALTERED DIORITE IS SANDY PINK IN COLOUR, SILICIFIED AND WEAKLY DEVELOPED K-ALTERATION. (SPECTROMETER READINGS K- 400 COUNTS PER MINUTE).	9804	897	899	2.0	0.01	
			9803	899	902	3.0	0.005	
			9802	902	905	3.0	0.002	
			9801	905	906.2"	1.2"	0.005	
			9805	916	920.2"	4.2"	0.008	

Footage		Description	Sample No.	Footage		Length	Assays	
From	To			From	To		Au oz/ton	
		ALTERED DIORITE IS WEAKLY BRECCIATED. 1% QTZ VEINLETS THROUGHOUT. (VEINLETS ARE BARREN). 1% SPECULAR HEMATITE VEINLETS. 3-8% FINE- TO COARSE- GRAINED DISSEMINATED Py. <1% CHALCOPYRITE, <1/4% PHYRITITE.	9806	920.2"	923.9"	3.7"		0.006
			9807	968	973	5.0		0.010
		1004-1273 FINE- GRAINED DIORITE WITH <1% DISSEMINATED Py AND Cpy.						
73	1380.11"	^{VOLCANIC} MAFIC VOLCANIC. SHARP CONTACT AS DESCRIBED 20'-126'. 3% EPIDOTE. MODERATELY MAGNETIC.						
		DEFORMED AND ALTERED MAFIC VOLCANIC. 1286'-1294 WEAKLY FOLIATED WITH HEMATITE, PINK Ca- & Fe- CARBONATE AND QTZ STRINGERS. <1% EPIDOTE.						
		1334-1341.9" WEAKLY BRECCIATED AND STRONGLY FOLATED (20° TO CIA). CHLORITE 12%. SILICIFICATION (PINK) 80%. 3% EXTREMELY FINE- GRAINED PYRITE, <1% MAGNETITE DISPERSED THROUGHOUT CORE.	1334	1338	1338	4.0		0.002
			1338	1341.9"	1341.9"	3.9"		0.003
		1341.9"-1355.6" L. GREY SILICIFICATION 95%, <5% CHLORITE- SERICITE, <1% K-FELDSPAR. MODERATE FOLIATION. 5% EXTREMELY FINE- GRAINED DISSEMINATED PYRITE <1/4% VERY FINE- GRAINED Cpy. <1/2% BLUE MINERAL (VERY FINE- GRAINED).	1341.9"	1345.6"	1345.6"	3.9"		2.00
			1345.6"	1348.6"	1348.6"	3.0		1.27
			1348.6"	1352.6"	1352.6"	4.0		0.10
			1352.6"	1355.6"	1355.6"	3.0		0.824
		1355.6"-1362.5" AS 1341.9"-1355.6" DARK GREY SILICIFICATION WITH MINOR PARTLY OXIDIZED PYRITE (FINE- TO MEDIUM- GRAINED). SECTION IS WEAKLY BRECCIATED.	1355.6"	1358.6"	1358.6"	3.0		0.71
			1358.6"	1362.6"	1362.6"	4.0		0.61

Footage		Description	Sample No.	Footage		Length	Assays	
From	To			From	To		Au oz/ton	
		DEFORMED AND ALTERED POLYMIC TIC METACONGLOMERATE 1362.5"-1380.8" REMNANT FLATTENED FELDSPATHIC-QTZ CLASTS. Ca- & Fe-CARBONATE STRINGERS THROUGHOUT. EXTREMELY WEAK FOLIATED (30° C/A) WITH PYRITE CONCENTRATING IN CHLORITE- SERICITE SEAMS. 6% F.G. DISSEMINATED PYRITE < 1/4% BLUE FINE-GRAINED MINERAL, < 1/4% FINE-GRAINED SPECULAR HEMATITE.		1362.6	1365.6	3.0		0.83
				1365.6	1368.6	3.0		1.30
				1368.6	1371.6	3.0		0.49
				1371.6	1374.6	3.0		0.033
				1374.6	1377.6	3.0		0.08
				1377.6	1380.11	3.5"		0.45
0.11"	1397	POLYMIC TIC METACONGLOMERATE. FAULT CONTACT. CLASTS ARE QTZ, FELDSPATHIC AND JASPER COMPOSITIONS, RANGING FROM < 1"-6" IN SIZE. THE UNIT IS MODERATELY DEFORMED, WHEREBY THE OCCASSIONAL CLAST IS SUPPORTED BY ANOTHER CLAST. GENERALLY, IT IS MATRIX SUPPORTED, A DISORG- ANIZED BED IN THE BASAL SECTION OF A DEBRIS FLOW. MATRIX IS GRANULAR IN APPEARANCE.						0.747 oz Hon over 39'2"

METALORE RESOURCES LTD. DIAMOND DRILL LOG

Location: BROOKBANK - WEST

Hole No. B-17W-2A

Latitude: 7400S Departure 17400W Elevation: _____ Length: 108' Core Size NQ-1 7/8" Claim No. 29038 Started _____

Azimuth: WEDGE Tropari/Dip Tests:

-65°	1403'					
326°	1403'					

 Completed: _____

Dip: _____ Logged by: BARBARA KOWALSKI BK

Purpose: INTERSECT BROOKBANK ZONE BACKGROUND K-SPECTROMETER READINGS 400 C.P.M. Drilled by: _____

Footage From	Footage To	Description	Sample No.	Footage		Length	Assays Au oz/ton	
				From	To			
15.0	1325.0	MAFIC VOLCANIC. IT IS MASSIVE AND VERY FINE-GRAINED. STRINGERS OF EPIDOTE (3%), HEMATITE (<1%) Ca- & Fe-CARBONATE AND QTZ THROUGHOUT. WEAKLY MAGNETIC. <1% MEDIUM-GRAINED DISSEMINATED PYRITE, WITH THE OCCASIONAL OXIDIZED PYRITE CRYSTAL.						
25	1332	DEFORMED AND ALTERED MAFIC VOLCANIC. 1325-1332.11" WEAKLY FOLIATED WITH STRINGERS OF Ca- & Fe-CARBONATE, QTZ AND HEMATITE. 2% FINE-GRAINED DISSEMINATED PYRITE THROUGHOUT. 1330-1331 QTZ VEIN WITH CHLORITE-HEMATITE STRINGERS THROUGHOUT. 2% FINE-GRAINED DISSEMINATED PYRITE. 1332.4"-1338.8" MODERATELY BRECCIATED AND WELL FOLIATED (30° TO CIA) SECTION. SERICITE, Fe- & Ca-CARBONATE, QTZ, HEMATITE (40%) AND CHLORITE VEINLETS THROUGHOUT. 15% SILICIFIED. SPECTROMETER READING K- 400-550 COUNTS PER MINUTE. 4% FINE-GRAINED DISSEMINATED PYRITE. 1338.8"-1341.8" AS 1332.4"-1338.8" EXCEPT 40% SILICIFICATION.		1329.4"	1332.1"	2.9"		0.003
				1332.1"	1335.2"	3.1"		0.002
				1335.2"	1338.8"	3.6"		Nil
				1338.8"	1341.8"	3.0"		0.01

Footage		Description	Sample No.	Footage		Length	Assays	
From	To			From	To		Au oz/ton	
		SHARP CONTACT TO A STRONG SILICIFIED ZONE.						
		1341.1"-1354.1" (90%) LIGHT GREY SILICIFICATION IS MASSIVE AND HOMOGENEOUS. <3% CHLORITE, SERICITE, Ca- + Fe-CARBONATE, K-FELDSPAR VEINLETS THROUGHOUT. SOME FUCHSITE 5% EXTREMELY FINE-GRAINED DISSEMINATED PYRITE.		1341.1"	1345.1"	4.0		1.98
				1345.1"	1349.4"	4.3		0.57
				1349.4"	1354.1"	4.9		0.09
		1354.1"-1363.3" (86%) LIGHT GREY SILICIFICATION WITH WEAKLY DEVELOPED BRECCIATION AND FOLIATION. <5% HEMATITE, SERICITE, Fe- + Ca-CARBONATE AND FUCHSITE. 4% CHLORITE; 3% QTZ VEINLETS AND BLENDS. <8% FINE-GRAINED DISSEMINATED PYRITE THROUGHOUT.		1354.1"	1358.5"	4.4		0.41
				1358.5"	1363.5"	5.0		0.94
		1363.3"-1372.3" DEFORMED AND ALTERED POLYMIC TIC METACONGLOMERATE PASTEL COLOURS IN THIS WELL FOLIATED SECTION (25° C/A). FLATTENED FELDSPATHIC CLASTS THROUGHOUT. 40% SILICIFIED. IT IS WEAKLY BRECCIATED WITH HEMATITE, Fe-CARBONATE AND QTZ FRAGMENTS. <2% CHLORITIC MATERIAL. 6% FINELY DISSEMINATED PYRITE CONCENTRATED PRIMARILY ALONG CHLORITIC, SERICITIC VEINLETS AND SEAMS.		1363.5"	1368.5"	5.0		0.70
				1368.5"	1372.5"	3.0		0.58
				1372.5"	1374.3"	2.0		0.02
				1374.3"	1377.1"	3.0		0.13
				1377.1"	1381.7"	4.6		0.28
					0.617 oz Hom	over	39.7"	
		1372.3"-1381.3" AS 1363.3"-1372.3" EXCEPT THERE IS 30% CHLORITE AND FLATTENED JASPER AND FELDSPATHIC CLASTS.						
81.3"	1400	POLYMIC TIC METACONGLOMERATE FAULT CONTACT. MATRIX IS MODERATELY FOLIATED WITH <1" → 6" FELDSPATHIC, QTZ, JASPER AND THE OCCASSIONAL FLATTENED MAFIC CLASTS.						
DA								

METALORE RESOURCES LTD. DIAMOND DRILL LOG

Location: BROOKBANK - WEST

Hole No. B-17W-2B

Latitude: 7100S Departure 17100W Elevation: WEDGE Length: 88' Core Size NQ-1 7/8" Claim No. 29038 Started: _____

Azimuth: _____	Tropari/Dip Tests:	-65°	1403'					Completed: _____
		6°	1403'					

Dip: _____ Purpose: TO INTERSECT BROOKBANK ZONE BACKGROUND K SPECT. READINGS 400 COUNTS PER MIN. Drilled by: _____

Footage From	Footage To	Description	Sample No.	Footage		Length	Assays	
				From	To		Au oz/ton	
92	1333.6"	MAFIC VOLCANIC. WEAKLY FOLIATED AND VERY FINE-GRAINED. Ca- & Fe- CARBONATE AND QTZ VEINLETS AND STRINGERS THROUGHOUT.						
1336"	1363.3"	DEFORMED AND ALTERED MAFIC VOLCANIC. 1333.6"-1336.4" MODERATELY BRECCIATED AND FOLIATED SECTION. SERICITE, QTZ, HEMATITE, CHLORITE, Fe- AND Ca-CARBONATE VEINLETS THROUGHOUT. 35% SILICIFIED. SPECTROMETER READINGS 400-600 COUNTS PER MINUTE. 4% EXTREMELY FINE-GRAINED DISSEMINATED PYRITE, <1% PHYRROTITE.						
		1336.4"-1338.10" AS 1333.6"-1336.4" EXCEPT BRECCIATION IS ABSENT.		1333.6	1336.4	2.8"		0.002
		1338.10"-1341.10" AS 1333.6"-1336.4" EXCEPT THERE IS 20% INCREASE OF Fe-CARB AND 3% INCREASE OF QTZ. (35% SILICIFIED).		1336.4	1338.10	2.6"		0.002
		1341.10"-1342.10" 90% LIGHT GREY SILICIFICATION. <1% CARBONATES AND CHLORITE. 5% EXTREMELY FINE-GRAINED DISSEMINATED PYRITE.		1338.10	1341.10	3.0		0.017
		1342.10"-1349.1" 91% LIGHT GREY SILICIFICATION. SECTION IS WEAKLY BRECCIATED, <2% Fe- AND Ca- CARBONATE, <2% CHLORITE, <2% FUCHSITE. 8% EXTREMELY FINE-GRAINED DISSEMINATED PYRITE.		1341.10	1342.10	1.0		0.48
				1342.10	1345.10	3.0		1.67
				1345.10	1349.1"	3.3"		0.284

Footage		Description	Sample No.	Footage		Length	Assays	
From	To			From	To		Au oz/ton	
	1349.1" - 1352.4"	AS 1342.10" - 1349.1" EXCEPT THERE IS AN INCREASE OF Fe- & Ca-CARBONATE (4%), QTZ (13%) & 4% FUCHSITE.		1349.1"	1352.4"	3.3"	0.16	
	1352.4" - 1354.9"	AS 1342.10" - 1349.1" EXCEPT THERE IS <1% Fe- AND Ca-CARBONATE, SERICITE & FUCHSITE. 8% EXTREMELY FINE- TO MEDIUM-GRAINED PYRITE.		1352.4"	1354.9"	2.5"	0.42	
	1354.9" - 1363.3"	AS 1342.10" - 1349.1" EXCEPT IT IS MODERATELY BRECCIATED WITH PALE YELLOWISH-BROWN FRAGMENTS.		1354.9"	1357.10"	3.1"	1.30	
				1357.10"	1360.10"	3.0	0.41	
				1360.10"	1363.3"	3.5"	0.332	
3.3"	1382	DEFORMED AND ALTERED POLYMIC TIC METACONGLOMERATE. IT IS EXTREMELY WEAK FOLIATED (25° TO CIA) WITH FLATTENED FELDSPATHIC CLASTS. MATRIX CONSISTS OF 40% CHLORITE (ALMOST BLACK IN COLOUR), 20% SERICITE & FUCHSITE, 5% Ca- & Fe- CARBONATES. 6% EXTREMELY FINE-GRAINED, DISSEMINATED PYRITE.		1363.3"	1366	2.9"	0.162	
				1366	1369	3.0	0.830	
				1369	1372	3.0	0.32	
				1372	1376	4.0	0.060	
				1376	1379	3.0	0.122	
				1379	1382	3.0	0.60	
	1376 - 1382	AS 1363.3" - 1375.11" EXCEPT THERE IS <3% CHLORITE AND AN INCREASE OF SERICITE & FUCHSITE (70%). 6% EXTREMELY FINE-GRAINED DISSEMINATED PYRITE.						0.51 oz/ton over 43.2"
82	1403	POLYMIC TIC METACONGLOMERATE. FAULT CONTACT. CLASTS ARE QTZ, FELDSPATHIC, JASPER AND MAFIC COMPOSITIONS, RANGING FROM <1"-6" IN SIZE. THE UNIT IS MODERATELY DEFORMED, WHEREBY THE OCCASSIONAL CLAST IS SUPPORTED BY ANOTHER CLAST. GENERALLY, IT IS MATRIX SUPPORTED, A DISORGANIZED BED IN THE BASAL SECTION OF A DEBRIS FLOW. MATRIX IS GRANULAR IN APPEARANCE.						

METALORE RESOURCES LTD. DIAMOND DRILL LOG

Location: BROOKBANK-WEST Hole No. B-17+50W1

Latitude: 7+65S Departure 17+50W Elevation: 1002' Length: 1749' Core Size NQ-17/8" Claim No. 29038 Started November

Azimuth: 342 Tropari/Dip Tests:

50' / -75	550' / -75	850' / -73	1186' / -72	1496' / -70	1740' / -69
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 Completed: _____

Dip: -75 Cap. Corr. 1748' / -69 & -70, also tropari Az. 354 Logged by: Barbara Kowalski *BK*

Purpose: TO TEST BROOKBANK ZONE AT DEPTH .BACKGROUND SPECTROMETER-K READINGS 300 COUNTS PER MINUTE Drilled by: _____

Footage From	Footage To	Description	Sample No.	Footage		Length	Assays Au oz/ton	
				From	To			
	12	CASING						
		NOTE: QTZ, HEMATITE, Fe- AND Ca- CARBONATE STRINGERS X-CUT CORE, CAUSING INTENSE FRACTURING AND BLOCKY CORE. THESE SECTIONS ARE NOTED THROUGHOUT LOG DESCRIPTION.						
	434	MAPIC VOLCANIC. IT IS MASSIVE AND HOMOGENEOUS WITH PILLOW SELVAGES THROUGHOUT. LOCALLY, THIS UNIT IS INTENSELY FRACTURED. LESS THAN 2% QTZ, Ca- AND Fe- CARBONATE AND EPIDOTE VEINLETS. MODERATELY MAGNETIC. LESS THAN 1/2 % FINE- GRAINED DISSEMINATED PYRITE AND SPECULARITE.						
		297.6-300.6 5" QTZ VEIN (MILKY WHITE WITH SMOKY-GREY SILICIFICATION). HEAVILY MINERALIZED WALLROCK INCLUDED IN THIS SAMPLE. THE WALLROCK IS BRECCIATED WITH PALE GREEN TO REDDISH ALTERATIONS. LESS THAN 15% FINE- TO COARSE- GRAINED PYRITE.		297.6	300.6	3.0		0.002
		300.6-309 WALLROCK TO QTZ VEIN AS DESCRIBED ABOVE. SPECTROMETER READINGS BACKGROUND.		300.6	303.6	3.0		0.004
				303.6	306.6	3.0		0.03
				306.6	309	2.6		0.01
		Blocky ground at 12-33;66-71;88-147;313-349;374-379 Cemented hole at 80-180						
	454	DIORITE IT IS MEDIUM- TO COARSE- GRAINED, MASSIVE AND HOMOGENEOUS. IT IS WEAKLY FRACTURED WITH QTZ, EPIDOTE, Fe- AND Ca- CARBONATE VEINLETS THROUGHOUT. LESS THAN 1/2% DISSEMINATED PYRITE. DIORITE IS MODERATELY TO STRONGLY MAGNETIC.						
		Blocky ground occurs throughout with less than 5 foot sections.						

From	Footage To	Description	Sample No.	Footage		Length	Assays	
				From	To		Au oz/ton	
454	462	<u>MAFIC VOLCANIC</u> SLIVER OF VOLCANICS AS DESCRIBED AT 12-434.						
462	633	<u>DIORITE</u> CONTINUATION OF THE DIORITE DESCRIBED AT 434-454. LESS THAN ¼% DISSEMINATED PYRITE.						
633	696	<u>MAFIC VOLCANIC</u> GRADATIONAL CONTACT TO THIS FINE-GRAINED MAFIC VOLCANIC WITH PILLOW SELVAGES DISPERSED THROUGHOUT. LESS THAN ½% DISSEMINATED PYRITE AND VOLCANIC IS MODERATELY MAGNETIC. Blocky ground at 666-672;681-696						
696	731	<u>DIORITE</u> AS DESCRIBED AT 462-633. IT IS INTENSELY FRACTURED WITH EPIDOTE VEINLETS AND STRINGERS. Blocky ground at 708-710;725-731						
731	790	<u>MAFIC VOLCANIC</u> AS DESCRIBED AT 12-434. VESICULAR PILLOW SELVAGES THROUGHOUT. Blocky ground at 743-848. Lost core at 775-785.						
790	867	<u>DIORITE</u> IS FINE-GRAINED AND GRADES TO COARSE-GRAINED DOWNHOLE. IT IS MODERATELY MAGNETIC WITH LESS THAN 1% DISSEMINATED PYRITE. Blocky ground at 743-848. Lost core at 816-819;822-825;822-827. 848- DOWNHOLE DIORITE IS COARSE-GRAINED, MASSIVE, BECOMING FINER GRAINED TOWARD 867. STRONGLY MAGNETIC. Blocky ground at 860-894						

Footage From	Description	Sample No.	Footage		Length	Assays	
			From	To		Au oz/ton	
867	1079.6 MAFIC VOLCANIC AS DESCRIBED AT 12-434. PILLOW SELVAGES THROUGHOUT. Blocky ground at 860-894. 956-957.6 MILKY WHITE QTZ VEIN WITH LESS THAN ½% FINE TO COARSE GRAINED PYRITE. WALLROCK LESS THAN 3" ON EACH SIDE OF VEIN IS HEAVILY MINERALIZED WITH 2% MEDIUM- TO COARSE- GRAINED PYRITE AND LESS THAN ½% SPECULARITE. QTZ VEIN HAS LESS THAN 2% SHEELITE. LESS THAN ½% CHLORITIC VEINLETS THROUGHOUT. 971-973 QTZ VEIN WITH WALLROCK. VEIN IS MILKY WHITE WITH LESS THAN ½% FINE- TO COARSE- GRAINED PYRITE AND LESS THAN ½% SHEELITE. WALLROCK IS BRECCIATED WITH LESS THAN 4% MEDIUM- TO COARSE- GRAINED DISSEMINATED PYRITE. 984-987 2" QTZ VEIN WITH ALTERED, BRECCIATED WALLRICK. VEIN IS MILKY WHITE WITH 4% FINE- TO COARSE- GRAINED PYRITE DISSEMINATED THROUGHOUT. 987.6-991 : 989-990 QTZ VEIN WITH ALTERED, BRECCIATED WALLROCK. QTZ VEIN IS MILKY WHITE WITH CHLORITIC STRINGERS AND FINE GRAINED PYRITE. WALLROCK IS BRECCIATED WITH HEMATITIC FRAGMENTS AND SERICITE VEINLETS. 5% EXTREMELY FINE GRAINED TO COARSE GRAINED PYRITE AND LESS THAN ½% CPY. 991-994 WALLRICK TO QTZ VEIN IS BRECCIATED WITH HEMATITE AND SERICITE ALTERATIONS. 3% FINE TO MEDIUM GRAINED DISSEMINATED PYRITE.						
			984	987.6	3.6		Tr
			987.6	991	3.6		Tr
			991	994	3.0		Tr
79.6	1091 ALTERED DIORITE PINK TO YELLOW-GREEN ALTERATIONS. SPECTROMETER READINGS BACKGROUND. IT IS FRACTURED WITH CHLORITIC, QTZ, SERICITIC, EPIDOTE, Fe- AND Ca- CARBONATE VEINLETS. 5% FINE TO COARSE GRAINED DISSEMINATED PYRITE.		1079.6	1083	3.6		Tr
			1083	1086.6	3.6		0.002
			1086.6	1090	3.6		Tr
091	1127 DIORITE IT IS MASSIVE, HOMOGENEOUS, FINE TO MEDIUM GRAINED. WEAKLY DEVELOP ALTERATION AT 1116-1127. SERICITE (LESS THAN ¼%) AND CHLORITE VEINLETS. WELL FOLIATED 20 degrees TO CORE AXIS.						

From	Footage To	Description	Sample No.	Footage		Length	Assays	
				From	To		Au oz/ton	
127	1181	<u>MAFIC VOLCANIC</u> IT IS WEAKLY FRACTURED, FINE GRAINED AND MASSIVE. IT IS MODERATELY FOLIATED FROM 1179-1181 (40 TO CORE AXIS). LESS THAN 1% DISSEMINATED PYRITE.						
181	1529	<u>DIORITE</u> A 6" WEAKLY ALTERED SECTION AT 1181' GRADES INTO A POSSIBLE CHILL MARGIN (8"). DOWNHOLE THE DIORITE IS COARSE GRAINED, HOMOGENEOUS AND MODERATELY MAGNETIC. LESS THAN 1/2% COARSE GRAINED DISSEMINATED PYRITE. LOST 10' CORE AT 1296-1306 1418-1420 POORLY DEVELOPED QTZ CARB STRINGERS WITH LESS THAN 1/2% HEMATITE FRAGMENTS. LESS THAN 1/4% MEDIUM GRAINED DISSEMINATED PYRITE. 1470.6-1472 MILKY WHITE QTZ VEIN WITH LESS THAN 1/4% FINE GRAINED PYRITE.						
1529	1550	<u>MAFIC VOLCANIC</u> GRADATIONAL CONTACT. THIS SECTION IS FINE GRAINED WITH PLAGIOCLASE FELDSPAR CRYSTALS THROUGHOUT. LESS THAN 1/2% FINE GRAINED PYRITE. 1532-1550 FINE GRAINED, HOMOGENEOUS VOLCANIC WITH PILLOW SELVAGES. LESS THAN 1/2% FINE TO MEDIUM GRAINED DISSEMINATED PYRITE. LESS THAN 1/2% VERY FINE GRAINED SPECULARITE.						
1550	1674	<u>DIORITE</u> GRADATIONAL CONTACT TO A MASSIVE MEDIUM GRAINED DIORITE. 2% FINE TO COARSE GRAINED DISSEMINATED PYRITE. DIORITE BECOMES FINER GRAINED BY 1590. IT IS DIFFICULT TO DISTINGUISH THIS FINE GRAINED DIORITE WITH A COARSE GRAINED MAFIC VOLCANIC. A GRADATIONAL CONTACT MAY BE ARGUED AT 1674'.						

Footage From	Footage To	Description	Sample No.	Footage		Length	Assays	
				From	To		Au oz/ton	
674	1688	MAFIC VOLCANIC GRADATIONAL CONTACT. IT IS MASSIVE AND HOMOGENEOUS. LESS THAN 1% MEDIUM GRAINED DISSEMINATED AND THE OCCASSIONAL STRINGER OF PYRITE. LESS THAN ¼% Cpy, Spec. THIS SECTION IS MODERATELY MAGNETIC. VOLCANIC BECOMES PROGRESSIVELY WELL FOLIEATED AT 1684-1688 (71 DEGRESS TO CORE AXIS.						
		1685-1688 WELL FOLIATED MAFIC VOLCANIC. LESS THAN 1% FINE GRAINED DISSEMINATED PYRITE AND LESS THAN ½% Cpy.		1685	1688	3.0		0.005
688	1706.4	DEFORMED AND ALTERED MAFIC VOLCANIC						
		1688-1691 DARK GREEN WITH REDDISH BROWN TO PALE BROWN ALTERATIONS. CHLORITE (20%) SERICITE (1%), HEMATITE (10%), QTZ (20%), Fe- AND Ca- CARBONATE (40%), SILICATES AND MAFIC MINERALS CONSTITE THE REMAINING WHOLE ROCK COMPOSITION. LESS THAN 1% DISSEMINATED FINE GRAINED PYRITE, LESS THAN ½% FINE GRAINED CHALCOPYRITE, LESS THAN 2% DISSEMINATIONS AND STRINGERS OF SPECULARITE. VERY WELL FOLIATED 75 DEGREES TO CORE AXIS (SCHIST).		1688	1691	3.0		0.01
		1691-1694 AS 1688-1691 EXCEPT 30% SILICIFICATION AND IS SCHISTOSE TO MOTTLED IN APPEARANCE. 1-2% VERY FINE GRAINED DISSEMINATED PYRITE, LESS THAN 1% FINE TO MEDIUM GRAINED CHALCOPYRITE, 2-5% FINE GRAINED SPECULARITE.		1691	1694	3.0		0.01
		1694-1697 AS 1688-1691 AND 1691-1694		1694	1697	3.0		0.01
		1697-1703 VERY DARK BROWN TO BLACK: WEAKLY SILICIFIED AND ALTERED. IT IS WELL FOLIATED AND MOTTLED IN APPEARANCE. LESS THAN 15% VERY FINE TO FINE GRAINED DISSEMINATED AND STRINGERS OF PYRITE.. LESS THAN 1% FINE GRAINED CHALCOPYRITE: 2-5% SPECULARITE ALSO AS DISSEMINATIONS AND STRINGERS. NON-MAGNETIC.		1697	1700	3.0		0.02
				1700	1703	3.0		0.09

Footage From	Description	Sample No.	Footage		Length	Assays Au oz/ton	
			From	To			
	1703-1706.4 THIS SECTION MAY BE DESCRIBED AS 1.1703-1705 AND AS 1697-1703 WITH POSSIBLE FLATTENED QTZ AND FELDSPATHIC CLASTS (LESS THAN 2" IN SIZE).		1703	1706.4	3.4		0.03
06.4	1732 <u>DEFORMED AND ALTERED POLYMICTIC METACONGLOMERATE</u>		1706.4	1709.4	3.0		0.38
	QTZ-CARB-CHL-SER-SCHIST. EXTREMELY FLATTENED FELDPATHIC, QTZ CLASTS IN A SERICITE-CHLORITE MATRIX. 20% EXTREMELY FINE GRAINED DISSEMINATED PYRITE WITH SERICITE.		1709.4	1712.4	3.0		0.16
	1706.4-1712.4 SHARP CONTACT AT 1706.4. 85-95 % PALE GREY SILICIFICATION AND LESS THAN 5% LOCAL SERICITE AND CHLORITE VEINLETS. 2-3% FINE GRAINED DISSEMINATED PYRITE AND 5% PYRITE OCCURS LOCALLY IN SILICIFIED ZONES.						
	1711.10"-1712.4" 6" BLACK-WHITE <u>FAULT</u>						
	1712.4"-1716.4" 85% PALE GREY SILICIFICATION WITH LESS THAN 15% SERICITE CHLORITE VEINLETS. LESS THAN 15% VERY FINE GRAINED DISSEMINATED PYRITE. LESS THAN 1/2% Po, LESS THAN 1/2% Cpy.		1712.4	1714.4	2.0		0.05
			1714.4	1716.4	2.0		0.08
	1716.4-1728.6 AS 1712.4-1714.4		1716.4	1719.6	3.2		0.09
			1719.6	1722.6	3.0		0.08
	1728.6"-1730.6" QTZ-SERICITE SCHIST WITH 40-50% SILICIFICATION (PALE GREY) AND 20% VERY FINE GRAINED DISSEMINATED PYRITE; LESS THAN 1/4% Po, LESS THAN 1/4% Cpy.		1722.6	1725.6	3.0		0.28
			1725.6	1728.6	3.0		0.22
			1728.6	1730.6	2.0		0.05
	1730.6-1732.6 AS 1728.6-1730.6		1730.6	1732.6	2.0		0.21
732	1749 <u>POLYMICTIC METACONGLOMERATE</u>						
	SHARP CONTACT. THE CONTACT IS CHARACTERIZED BY A 6" BLACK WHITE FAULT (SILICIFIED) AT 1732-1732.6. CLASTS RANGE IN SIZE FROM LESS THAN 1/4" TO 5". JASPER, QTZ, FELDSPATHIC AND MAFIC ARE THE MAJOR COMPOSITIONS OF THE PEBBLES AND COBBLES. THESE CLASTS ARE MATRIX SUPPORTED, HOWEVER SUBSEQUENT DEFORMATION (SHEARING) HAD PROBABLY CAUSED CLASTS TO BE FLATTENED.						

0.169 oz/ton over 26.2"

OR 0.13 oz/ton over 37.6"

TRUE WIDTH 28' 0.22 oz/ton.

METALORE RESOURCES LTD.

DIAMOND DRILL LOG Location: BROOKBANK WEST

Hole No. B-17+501'-1A

Latitude: 65S Departure 17+50W Elevation: WEDGE Length: 162 Core Size NO 17/8" Claim No. TB 29038 Started JANUARY

azimuth: 350	Tropari/Dip Tests: 1776/-70						Completed: _____
ip: _____	Cap. Correc. 1776/-70 (ACID TEST)						Logged by: BARBARA KOWALSKI <i>BK</i>

Purpose: _____ Drilled by: _____

From	To	Description	Sample No.	Footage		Length	Assays	
				From	To		Au oz/ton.	
1676		DIORITE MEDIUM TO FINE GRAINED. LESS THAN 2% MEDIUM TO COARSE GRAINED DISSEMINATED PYRITE. THE PYRITE IS LARGELY CONCENTRATED IN WEAKLY ALTERED SECTIONS. LESS THAN 1' Fe- AND Ca- CARBONATE VEINLETS THROUGHOUT.						
1685.4		MAFIC VOLCANIC. PILLOW SELVAGES ARE SPARSELY DISTRIBUTED THROUGHOUT SECTION. LOCALLY Fe- AND Ca- CARBONATE VEINLETS OCCUR IN LESS THAN 1' SECTIONS WITH 5% CONCENTRATION OF MEDIUM TO COARSE GRAINED DISSEMINATED PYRITE.						
1702.8		DEFORMED AND ALTERED MAFIC VOLCANIC						
		1685.4-1688.4 ALTERED DARK GREEN, REDDISH BROWN (HEMATITE), PALE BROWN (BRECCIATED FRAGMENTS) IN THIS VOLCANIC. 10% EXTREMELY FINE TO MEDIUM GRAINED DISSEMINATED PYRITE.		1685.4	1688.4	3.0		0.002
		1688.4-1691.4 WELL FOLIATED (70 DEGREES TO CORE AXIS) DARK GREEN TO BROWN VOLCANIC. PILLOW SELVAGES VISIBLE THROUGH ALTERATION. PALE BEIGE BRECCIATED FRAGMENTS THROUGHOUT. 3% Ca- AND Fe- CARBONATE VEINLETS, LESS THAN 3% SERICITE, LESS THAN 2% HEMATITE, LESS THAN 1/2% FUCHSITE. 10% FINE TO MEDIUM GRAINED DISSEMINATED PYRITE, LESS THAN 1/4% Po, LESS THAN 1/4% Cpy, LESS THAN 10% SPECULARITE VEINLETS.		1688.4	1691.4	3.0		Tr
		1691.4-1693.6 AS 1688.4-1691.4. IN ADDITION 25-30% SILICIFIED (PALE GREY) WITH LESS THAN 20% EXTREMELY FINE GRAINED DISSEMINATED AND VEINLETS OF PYRITE. THE ROCK IS MOTTLED IN APPEARANCE AND IN AREAS OF SILICIFICATION.		1691.4	1693.6	2.2		0.002

From	To	Description	Sample No.	Footage		Length	Assays Au oz/ton
				From	To		
		1693.6-1696.6 AS 1688.4-1691.4		1693.6	1696.6	3.0	0.001
		1696.6-1699.6 DARK BROWN-GREY MOTTLED SUGARY RICK. HEMATITIC FRAGMENTS THROUGHOUT. 25-30% SILICIFIED WITH LESS THAN 15% EXTREMELY FINE TO FINE GRAINED PYRITE. THE PYRITE OCCURS AS DISSEMINATIONS AND VEINLETS. LESS THAN 10% SPECULARITE VEINLETS.		1696.6	1699.6	3.0	0.004
		1699.6-1702.8 TRANSITION BETWEEN THE MOTTLED MASSIVE ROCK TO A WELL FOLIATED PALE COLOUR ROCK (GREY TO REDDISH). FOLIATION 70 DEGREES TO CORE AXIS. THIS COULD BE A GRADATIONAL CONTACT BETWEEN THE VOLCANICS AND SEDIMENTS, HOWEVER, NO CLEAR INDICATION OF FLATTENED CLASTS. 40% SILICIFICATION, LESS THAN 15% FINE GRAINED PYRITE.		1699.6	1702.8	3.2	0.192
1702.8	1732.2	<u>DEFORMED AND ALTERED POLYMICTIC METACONGLOMERATE</u>					
		1702.8-1705.10 AS 1699.6-1702.8		1702.8	1705.10	3.2	0.08
		1705.10-1711.10 SHARP CONTACT TO A MASSIVE PALE GREY SILICIFIED SECTION. 85% SILICIFICATION, LESS THAN 15% CHLORITE, LESS THAN 5% EXTREMELY FINE TO FINE GRAINED DISSEMINATED PYRITE.		1705.10-		3.0	0.33
				1708.10			
				1708.10-		3.0	0.122
				1711.10			
		2" <u>FAULT</u> AT 1711.10. IT IS BLACK WITH WHITE MICROVEINLETS THROUGHOUT.					
		1711.10-1714.10 75-85% PALE GREY SILICIFICATION. 5-8% QTZ, LESS THAN 15% CHLORITE-SERICITE VEINLETS, LESS THAN 15% EXTREMELY FINE GRAINED DISSEMINATED PYRITE.		1711.10-		3.0	0.062
				1714.10			
		1714.10-1717.10 AS 1711.10-1714.10, LESS THAN 10% EXTREMELY FINE GRAINED DISSEMINATED PYRITE, LESS THAN ¼% PHYRROTITE.		1714.10-		3.0	0.03
				1717.10			

Footage From	Description	Sample No.	Footage		Length	Assays Au oz/ton	
			From	To			
1717.10-1720.10	40% PALE GREY SILICIFICATION, LESS THAN 10% QTZ, 50% CHLORITE SERICITE VEINLETS. 20% EXTREMELY FINE TO FINE GRAINED DISSEMINATED PYRITE. LESS THAN 1/2% Po.		1717.10-	1720.10	3.0		0.06
1720.10-1724	SERICITE-QTZ-CHLORITE SCHIST. LESS THAN 40% PALE GREY SILICIFICATION, LESS THAN 10% QTZ, 50% CHLORITE-SERICITE VEINLETS, 20% EXTREMELY FINE TO FINE GRAINED DISSEMINATED PYRITE, LESS THAN 1/2% Po.		1720.10-	1724	3.2		0.10
1724-1727	80% PALE GREY SILICIFICATION, LESS THAN 10-15% CHLORITE VEINLETS. 20% EXTREMELY FINE TO FINE GRAINED DISSEMINATED PYRITE.		1724	1725	1.0		2.20
			1725	1726	1.0		1.31
			1726	1727	1.0		0.343
1727-1730	TRANSITION BETWEEN THE MASSIVE SILICIFIED ZONE AND A CHLORITE-QTZ-SERICITE SCHIST (WHERE SERICITE VEINLETS PROGRESSIVELY INCREASE). FOLIATION 74 DEGREEES TO CORE AXIS. 20% EXTREMELY FINE TO FINE GRAINED DISSEMINATED PYRITE, LESS THAN 1/2% Cpy, LESS THAN 1/4% Po.		1727	1730	3.0		0.15
1730-1732.2	CHLORITE-QTZ-SERICITE SCHIST. LESS THAN 5% CHLORITE VEINLETS, LESS THAN 25% PALE GREY SILICIFICATION, 60-70% SERICITE, 20% EXTREMELY FINE TO FINE GRAINED DISSEMINATED PYRITE.		1730	1732.2	2.2		0.02
1732.2-1776	<u>POLYMICTIC METACONGLOMERATE</u> SHARP CONTACT 4-5" BLACK-WHITE FAULT. THIS CONGLOMERATE IS INTENSELY DEFORMED AND ALTERED WITH QTZ, JASPER, MAFIC AND FELDSPATHIC PEBBLES (WHICH ARE FRACTURED). MATRIX IS SHEARED AND ALTERED WITH SERICITE AND SILICIFICATION (LESS THAN 20%) AND TO A LESSER EXTENT CHLORITE AND FUCHSITE. FOLIATION 80 TO CORE AXIS. 1732.2-1734.2 LESS THAN 1% DISSEMINATED FINE GRAINED PYRITE.						
			1732.2-	1734.2	2.0		0.14

*0.22 oz/tm
over 34'8"*

The tapes enclosed belong to the 1984-85 program. Please submit them for your records. Also enclosed are the maps for the program. Note: These are on leased ground.

Barbara Kowalki

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Hole #	Footage	Assay (Au oz/ton)
B31	1168-1173	Nil (Ag 0.02 oz/ton)
	1163-1168	TR
	1173-1178	TR
	1178-1183	TR
	1183-1187	TR
	1187-1192	0.06
	1192-1197	TR
	1197-1202	0.56 (Ag 0.24 oz/ton)
	1202-1205.10"	0.29
	1205.10"-1207	0.364
	1207-1212	0.21 (Ag 0.09 oz/ton)
	1212-1215	0.48 (Ag 0.27 oz/ton)
	1215-1220	0.66 (Ag 0.33 oz/ton)
	1220-1225	0.15
	1225-1230	0.16
	1230-1235	0.11
	1235-1240	0.37
	1240-1245	0.54 (Ag 0.15 oz/ton)
	1245-1251	0.52 (Ag 0.17 oz/ton)
	1251-1256	0.01
	1256-1261	TR
	1261-1266	TR.

B31A	1165.8"-1170.8"	30ppb
	1170.8"-1174.8"	4ppb
	1174.8"-1178.8"	30ppb
	1178.8"-1183.8"	26ppb
	1183.8"-1188.8"	0.09
	1188.8"-1193.8"	0.01
	1193.8"-1197.8"	0.014
	1197.8"-1202.8"	0.978
	1202.8"-1207.8"	0.41
	1207.8"-1212.8"	0.41
	1212.8"-1217.8"	0.565
	1217.8"-1222.8"	0.549
	1222.8"-1227.8"	0.12

BK

2 of 9

Hole #	Footage	Assay (Au oz / tm)	cont'd
B31A	1232.8" - 1237.8"	0.43	
	1237.8" - 1242.8"	0.49	
	1242.8" - 1247.8"	0.10	
	1247.8" - 1251.1"	0.39	
B-40	1333.10" - 1335.10"	0.215	
	1335.10" - 1339	0.416	
B36	1240-1245	TR	
	1245-1250	TR	
	1250-1255	TR	
	1255-1260	TR	
	1260-1265	0.01	
	1265-1270	0.08	
	1270-1275	0.05	
	1275-1280	TR	
	1280-1285	TR	
	1285-1290	TR	
	1290-1295	TR	
	1295-1300	TR	
	1300-1305	TR	
	1305-1310	TR	
	1310-1315	TR	
	1315-1320	TR	
	1320-1325	TR	
	1325-1330	0.02	
	1330-1335	0.12	
	1335-1340	0.53	
1340-1345	0.40		
1345-1350	0.05		
1350-1353	0.02		
1353-1358	0.02		
1358-1363	TR		
1363-1368	TR		
1589-1594	TR		
1599-1604	TR		

OK.

S. of 9

Hole #	Footage	Assay (Au oz/ton)	cont'd
B36	1609-1614	TR	
	1624-1629	TR	
	1629-1634	TR	
B36A	1242-1247	0.01	
	1247-1252	0.002	
	1252-1258	0.002	
	1258-1264	0.005	
	1264-1269	0.12	
	1269-1274	0.09	
	1274-1279	0.005	
	1279-1284	Nil	
	1284-1290	0.002	
	1290-1292	0.002	
	1292-1297	Nil	
	1297-1300.6"	Nil	
	1300.6"-1302.6"	0.002	
	1302.6"-1308	Nil	
	1308-1313	0.005	
	1313-1318	0.002	
	1318-1323	0.15	
	1323-1325	0.801	
	1325-1330	0.261	
	1330-1332.3"	0.077	
1332.3"-1337	0.035		
1337-1342	0.068		
1342-1344.7"	0.01		
B38B	1164.10"-1167	0.002	
	1167-1169.6"	0.002	
	1169.6"-1172.11"	0.479	
	1172.11"-1175.3"	0.01	
	1175.3"-1178.7"	0.002	
	1178.7"-1181.5"	0.01	
	1181.5"-1184.5"	0.03	
	1184.5"-1187.5"	0.06	

CD

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Hole #	Footage	Assay (Au oz/ton)	cont'd
B38B	1187.5" - 1189.10"	0.008	
	1189.10" - 1192.3"	0.005	
	1192.3" - 1194.1"	0.022	
	1194.1" - 1197.1"	0.01	
	1197.1" - 1200.2"	0.13	
	1200.2" - 1203.2"	0.08	
	1203.2" - 1206	0.032	
	1206 - 1208.2"	0.16	
	1208.2" - 1210.10"	0.085	
	1210.10" - 1213	0.039	
	1213 - 1214.6"	0.08	
	1214.6" - 1216.5"	0.194	
	1216.5" - 1218.5"	0.18	
	1218.5" - 1220.10"	0.185	
	1220.10" - 1223.10"	0.05	
	1223.10" - 1226.10"	0.153	
	1226.10" - 1229.7"	0.18	
	1229.7" - 1232.1"	0.113	
	1232.1" - 1235.1"	0.04	
	1235.1" - 1236.11"	0.05	
1236.11" - 1239.6"	0.057		
1239.6" - 1241.6"	0.22		
1241.6" - 1244.6"	0.122		
1244.6" - 1247	0.01		

B38C	1164.2" - 1167	0.002	
	1167 - 1170	0.01	
	1170 - 1173	0.64	
	1173 - 1175.4"	0.843	
	1175.4" - 1177	0.01	
	1177 - 1180	0.006	
	1180 - 1183	0.005	
	1183 - 1186	0.022	
	1186 - 1189	0.01	
	1189 - 1192	0.042	
1192 - 1195	0.005		
1195 - 1198	0.002		

BL

5.99

Hole #	Footage	Assay (Au oz/ton)	cont'd
B38C	1198-1201	0.02	
	1201-1204	0.005	
	1204-1207	0.002	
	1207-1210	0.05	
	1210-1213	0.05	
	1213-1216	0.04	
	1216-1219	0.05	
	1219-1222	0.433	
	1222-1225	0.06	
	1225-1228	0.278	
	1228-1231	0.07	
	1231-1234	0.076	
	1234-1237	0.21	
	1237-1240	0.129	
	1240-1243	0.11	
	1243-1246	0.192	
	1246-1249	0.27	
	1249-1252	0.208	
	1252-1254	0.062	
B38D	1140-1142	Nil	
	1142-1145	0.013	
	1145-1148	0.01	
	1148-1151	0.007	
	1151-1154	0.005	
	1154-1157	0.004	
	1157-1159	0.002	
	1159-1161	0.004	
	1161-1163.4"	0.05	
	1163.4"-1167	0.724	
	1167-1169	0.57	
	1169-1172	0.017	
	1172-1175	0.009	
	1175-1178	0.015	
	1178-1181	0.58	
	1181-1183	0.011	

OK.

6.4.9

Hole #	Footage	Assay (Au oz/ton) cont'd
B38D	1186-1189	0.015
	1189-1192	0.011
	1192-1194	0.026
	1194-1197	0.01
	1197-1200	0.009
	1200-1203	0.005
	1203-1206	0.13
	1206-1208	0.25
	1208-1211	0.27
	1211-1214	0.695
	1214-1217	0.47
	1217-1220	0.166
	1220-1223	0.08
	1223-1224.5"	0.048
	1224.5"-1227	0.02
	1227-1230	0.371
1230-1232.5"	0.150	
B38E	1145.2"-1146.8"	0.006
	1146.8"-1149.8"	0.006
	1149.8"-1152.8"	0.041
	1152.8"-1155.8"	TR
	1155.8"-1158.8"	0.002
	1158.8"-1162.1"	TR
	1162.1"-1165.1"	0.006
	1165.1"-1168.10"	0.006
	1168.10"-1171.10"	0.014
	1171.10"-1173.2"	0.464
	1173.2"-1176	0.318
	1176-1179	0.02
	1179-1182	0.03
	1182-1185	0.02
	1185-1188	0.02
	1188-1191	0.005
1191-1194	0.036	
1194-1197	0.01	
1197-1200	0.046	

Bob

7.49

Hole #	Footage	Assay (Au oz/ton)	cont'd.
B38E	1200-1203	0.078	
	1203-1206	0.024	
	1206-1209	0.064	
	1209-1212	0.132	
	1212-1215	0.369	
	1215-1218	0.432	
	1218-1221	0.032	
	1221-1224	0.048	
	1224-1227	0.12	
	1227-1230.1"	0.58	
	1230.1"-1233.1"	0.22	
	1233.1"-1235.1"	0.13	
	1235.1"-1238.1"	0.02	
	1238.1"-1241.1"	0.07	
	1241.1"-1243.1"	0.38	
	1243.1"-1245.1"	0.13	
	1245.1"-1247.8"	0.11	
	1247.8"-1249.8"	0.005	
B38	1742-1747.1"	0.18	
	1747.1"-1751	0.136	
	1751-1755	0.112	
	1755-1760	0.03	
	1760-1764	0.02	
	1764-1768	0.232	
	1768-1771.6"	0.052	
	1771.6"-1777.6"	0.002	
	1786.10"-1789.10"	0.006	
	1789.10"-1792.10"	0.05	
	1821.4"-1824.4"	0.002	
	1824.4"-1829.4"	0.125	
	1829.4"-1834.4"	0.267	
	1834.4"-1836.7"	0.762	
	1836.7"-1841.8"	0.106	
1841.8"-1844.3"	0.38		
1844.3"-1848.9"	0.504		

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Hole #	Footage	Assay (Au oz/Hm) cont'd
B38A	1739.2" - 1741.10"	0.12
	1741.10" - 1744.8"	0.17
	1744.8" - 1747.2"	0.18
	1747.2" - 1749.8"	0.30
	1749.8" - 1751.6"	0.28 _{st.}
	1751.6" - 1754	0.04
	1754 - 1756.6"	0.04
	1756.6" - 1759	0.01
	1759 - 1761.6"	0.005
	1761.6" - 1764	0.005
	1764 - 1765.10"	0.04
	1811 - 1813.6"	0.06
	1813.6" - 1816	0.26
	1816 - 1818.6"	0.32
	1818.6" - 1821	0.92
	1821 - 1823.6"	0.11
	1823.6" - 1826	0.38
	1826 - 1829.4"	0.28
	1829.4" - 1832.6"	0.42
	1832.6" - 1835	0.74
1835 - 1837.6"	0.59	

B31	23' - 25'	0.002
	25' - 28.7"	0.002
	40.6" - 42.6"	0.002
	281 - 287	Nil
	287 - 289.9"	0.002
	289.9" - 293.10"	Nil
	458.7" - 463.7"	Nil
	463.7" - 466.4"	0.002
	466.4" - 468.3"	0.005
	602 - 603	0.005
	603.9" - 604.7"	0.002
	708.4" - 714.8"	Nil
	725.7" - 730.7"	0.002
	735.7" - 740.7"	0.01
	740.7" - 741.6"	Nil

BK

9.89

Hole #	Footage	Assay (Au oz / ton) cont'd
B31	787.11" - 794.6"	0.03
	858 - 863.3"	0.002 (Ag 0.01 oz / ton)
	944 - 949	0.002 " "
	964 - 966.1"	0.005 " 0.02 "
	1057.3" - 1059.1"	0.005
B36	349 - 351.4"	TR
	547 - 551.5"	TR
	551.5" - 554.3"	TR
	554.5" - 559.5"	TR
	559.5" - 564.3"	TR
	593.5" - 596.7"	TR
	644.2" - 646	TR
	667.4" - 672.4"	TR
	672.4" - 675.4"	TR
	713 - 714.4"	TR
	714.4" - 718.6"	TR
	718.6" - 721.9"	0.03
	825.2" - 830.2"	TR
	830.2" - 835.2"	TR

OK



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050

METALORE RESOURCES LIMITED

Summary Report of the
1984-1985
Diamond Drilling Program
on the
Foxear Gold Property

Irwin Township, Ontario

March 1985

Barbara Kowalski
Project Geologist

OM82-4-C-184

BK



42E12NW0080 63.4852 SANDRA

050C

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PLATE 1 FOXEAR EAST AND SOUTHEAST GRIDS
DIAMOND DRILL HOLE PLAN
LINES 0 to 56E

MAP AT SCALE OF ONE INCH EQUALS ONE HUNDRED FEET

SUMMARY

During the fall-winter of 1984-1985 a diamond drill program was conducted on a gold prospect in Irwin Township, Northwestern Ontario. The objective of this program was to continue evaluating a contact zone to the southeast of the Brookbank gold-bearing structure. The Foxear Contact Zone is located, geologically, on a dextral offset fault from the Brookbank Contact Zone. The Foxear Contact Zone lies between mafic volcanics to the south and polymictic metaconglomerates to the north. The results from the diamond drill program indicated intense deformation, alteration and mineralization occurring at the contact, however, steeper holes indicated silicification and mineralization concentrating within the polymictic metaconglomerates. This zone will be further evaluated with a scheduled diamond drill program in 1985-86.

Fourteen (14) diamond drill holes were completed on the Foxear Contact Zone for a total footage of 3,149 feet.

<u>Line</u>	<u>Hole No.</u>	<u>Dip</u>	<u>Total Depth of Hole</u>
6+80E	84-6SE-1-	-45	545'
6+80E	84-6SE-2 ✓	-40	257'
18+00E	84-18SE-1 ✓	-45	150'
18+00E	84-18SE-2 ✓	-40	166'
24+00E	84-24SE-1	-42	445'
26+00E	84-26SE-1 ✓	-43	391'
26+00E	84-26SE-2 ✓	-45	140'
26+00E	84-26SE-3 ✓	-45	106'
26+00E	84-26SE-4	-65	193'
27+00E	85-27SE-1 ✓	-67	494'
28+00E	84-28SE-1 ✓	-45	94'
28+00E	84-28SE-2 ✓	-70	194'
28+00E	84-28SE-3 ✓	-57 1/2	111'
30+00E	84-30SE-1 ✓	-42	207'
34+00E	84-34SE-1	-45	150'

INTRODUCTION

The purpose of this report is to briefly summarize the diamond drilling program during 1984-1985, undertaken on the Foxear property located in Irwin Township. The Metalore Resources property near Beardmore, Ontario is accessible by a good gravel road north from Provincial Highway 11. The Foxear Contact Zone is accessible by bush road traversing east to the easterly extent of the Foxear Grid.

PREVIOUS WORK

Geological mapping, geophysical surveys and diamond drilling were conducted in the 1982-1983 work program on the Foxear property. The results are summarized in the 1983 report by P. Lassila.

GENERAL GEOLOGY

The Foxear Contact Zone lies along the contact between a polymictic metaconglomerate unit to the north and a mafic volcanic unit to the south. The mafic volcanic consists of massive and pillowed flow units (including vesicular pillow selvages) with tops to the north. The volcanic is intruded by a coarse- to fine- grained diorite with disseminated and 1/8" veinlets of fine-grained pyrite and specularite. The volcanics were overlain by a polymictic metaconglomerate. The entire unit was subsequently displaced whereby, the polymictic metaconglomerate now lies subvertically to the north with the volcanics to the south. The metasediments are interpreted by the author as a debris flow (a disorganized bed, where there is no grading, no stratification and no imbrication of granitic, feldspathic, quartz, mafic, jas-

per pebbles and cobbles). These pebbles and cobbles range in size and are confined to a four to six foot basal section. The matrix is generally well foliated where mafic clasts are subangular to angular and have been subsequently flattened due to deformation. Volcanic material, fine- to coarse-grained is found throughout the matrix. The metaconglomerate unit is overlain by an altered (sericitic), pebbly sandstone with conglomerate debris throughout, which in turn, is overlain by a greywacke interbedded with shaly or mudstone units (and is interpreted as a turbidite).

Genetically, the diorite intruded the volcanics (and the contact between the volcanics and sediments in some places) and caused incipient faulting and/or shearing along the contact. Later hydrothermal activity altered the volcanic-sedimentary units and precipitated and/or remobilized gold from another source.

PRESENT WORK AND RESULTS

The drilling program conducted in the 1984-85 season on the Foxear Contact Zone consisted of 14 diamond drill holes for a total footage of 3,149 feet. The geological summary of the diamond drill holes are presented in Table 1. The diamond drill hole results are summarized in Table 2.

TABLE 1: Geological Summary of the Diamond Drill Holes on Foxear Contact Zone.

Line	Hole No.	Dip	Description Summary
Note:			-all altered sections below contain a variable % of f.g. to c.g. pyrite
18	84-18SE-1	-45	-mafic volcanic with brown alt sections -gradational contact with sediments (quartz-chlorite-sericite schist)
24	84-24SE-1	-42	-slivers of sediments through diorite and volcanic. Alt sections include Fe-carb., hematite, sericite and silicification -gradational contact with polymictic metaconglomerate
26	84-26SE-1	-43	-alternating diorite and volcanic with def and alt sections <u>-2" fault</u> -grey silicification at contact with polymictic metaconglomerate
		-2 -45	-def and alt sections in volcanic -silicification at contact with polymictic metaconglomerate
		-3 -45	-def and alt sections in volcanic -sharp contact with polymictic metaconglomerate
		-4 -65	-volcanic with def and alt sections (primarily carb and silicification) -sharp contact with pebbly sst (qtz-chl-ser schist) grading to a cong.
27	85-27SE-1	-67	-weakly def and alt diorite alternating with volcanics -sharp contact with greywacke -sharp contact with polymictic metaconglomerate; <u>4 faults</u> throughout with mineralized sections

TABLE 1: cont'd

Line	Hole No.	Dip	Description Summary
28	84-28SE-1	-45	-weakly def and alt volcanic -gradational contact with sediments (def and alt sections) -grey silicification at contact with <u>6" fault</u> -sharp contact with qtz-chl-ser schist grading to a pebbly sst
		-3 -57	-weakly silicified heavily carb section in volcanic -volcanic in sharp contact with poly- mictic metaconglomerate
		-2 -70	-very weakly def and alt volcanic -gradational contact with polymictic metaconglomerate. Silicified sections throughout <u>-1.5" fault breccia</u> -sharp contact with pebbly sst
30	84-30SE-1	-42	-diorite followed by volcanic -gradational contact with a sediment <u>-6" fault breccia</u> -pebbly sst grading to a conglomerate
34	84-34SE-1	-45	-very weakly def and alt alteranting diorite and volcanic -gradational contact with a sediment (qtz-chl-ser schist) -pebbly sst with conglomerate

ABBREVIATIONS: def- deformed
alt- altered
carb- carbonate
sst- sandstone

TABLE 2: Summary of the diamond drill hole results on the Foxear Contact Zone.

Line	Hole No.	Grade (oz./ton)	Width of Intersection	Total Depth of Hole
26E	84-26SE-2	0.05	93'-96.6" = 3.6"	140'
		0.22	115.7"-118.7" = 3'	
		0.08	125'-127' = 2'	
		0.05	127'-130' = 3'	
26E	84-26SE-4	0.042	158'-161' = 3'	193'
		0.048	161'-163.9" = 2.9"	
		0.06	163.9"-166.6" = 2.9"	
28E	84-28SE-1	0.078	44.9"-48.1" = 3.4"	94'
		0.127	70.5"-73.6" = 3.1"	
28E	84-28SE-2	0.106	59.7"-62.7" = 3'	194'
		0.082	62.7"-65' = 2.5"	
		0.046	111'-114' = 3'	
		0.157	117.1"-120.1" = 3'	
		0.297	120.1"-123.1" = 3'	
		0.094	155'-158' = 3'	
		0.046	158'-160' = 2'	
28E	84-28SE-3	0.365	59.7"-61.8" = 2.1" /	111'
		0.175	61.8"-64' = 2.4"	

CONCLUSIONS

The diamond drill program on the Foxear Contact Zone indicated a deformed, altered (silicified) zone located at the contact between the mafic volcanics and sediments. The deformation and alteration at L18E appears to be concentrated strictly in the mafic volcanics. However, at L26E a fault appears, with mineralization located at the contact. At L28E (84-28SE-1; -45°) the mineralization is also located at the contact.

The two steeper holes at L27E and L28E indicated faulting within the polymictic metaconglomerates, however, 84-28SE-2 indicated sections of silicification and mineralization within the unit.

Structural information such as dip and plunge cannot be assessed since the structural nature of the mineralization remains to be further evaluated with a 2,000-4,000 foot diamond drill program.

REFERENCES

Lassila, P. 1983: Geological, Geophysical and Diamond Drilling Program Irwin Township, Ontario, 46p.

#63. 4852

OM 82-4-C-184

THIS SUBMITTAL CONSISTED OF VARIOUS REPORTS, SOME OF WHICH HAVE BEEN CULLED FROM THIS FILE. THE CULLED MATERIAL HAD BEEN PREVIOUSLY SUBMITTED UNDER THE FOLLOWING RECORD SERIES (THE DOCUMENTS CAN BE VIEWED IN THESE SERIES):

① Metalore Resources Ltd., Diamond Drilling,

October - November /84, as follows:

Hole 84-6SE-1

Hole 84-26SE-2

Hole 84-28SE-3

Hole 84-27SE-1

Hole 84-6SE-2

Hole 84-18SE-1

Hole 84-18SE-2

Hole 84-28SE-1

Hole 84-28SE-2

Hole 84-30SE-1

Hole 84-26SE-1

} Toronto File: IRWIN TP. DDR #23,
Reports of Work #562 + #660 for 1984

} Toronto File: IRWIN TP. DDR #24, Report
of Work #77 for 1985

} Toronto File: IRWIN TP. DDR #28,
Report of Work #173 for 1986

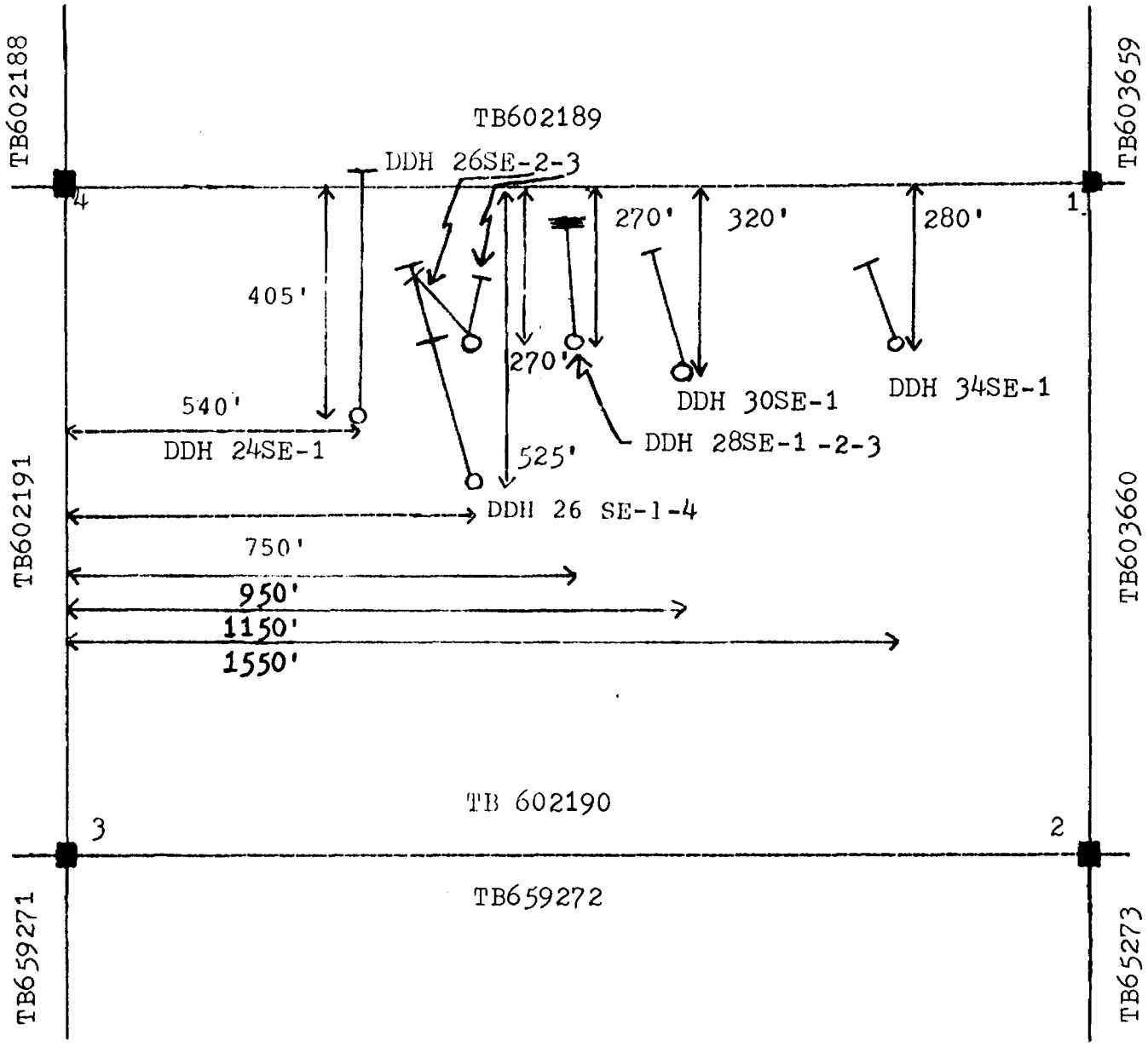
→ Toronto File: IRWIN TP. DDR #36,
Report of Work #642 for 1987

METALORE RESOURCES LIMITED

Location Map of DDH 84-24SE-1, 84-26SE-1-2-3-4,
84-28SE-1-2-3, 84-30SE-1, 84-34SE-1

IRWIN TOWNSHIP, ONTARIO

CLAIM NUMBER TB602190



SCALE: 1 INCH = 300 FEET

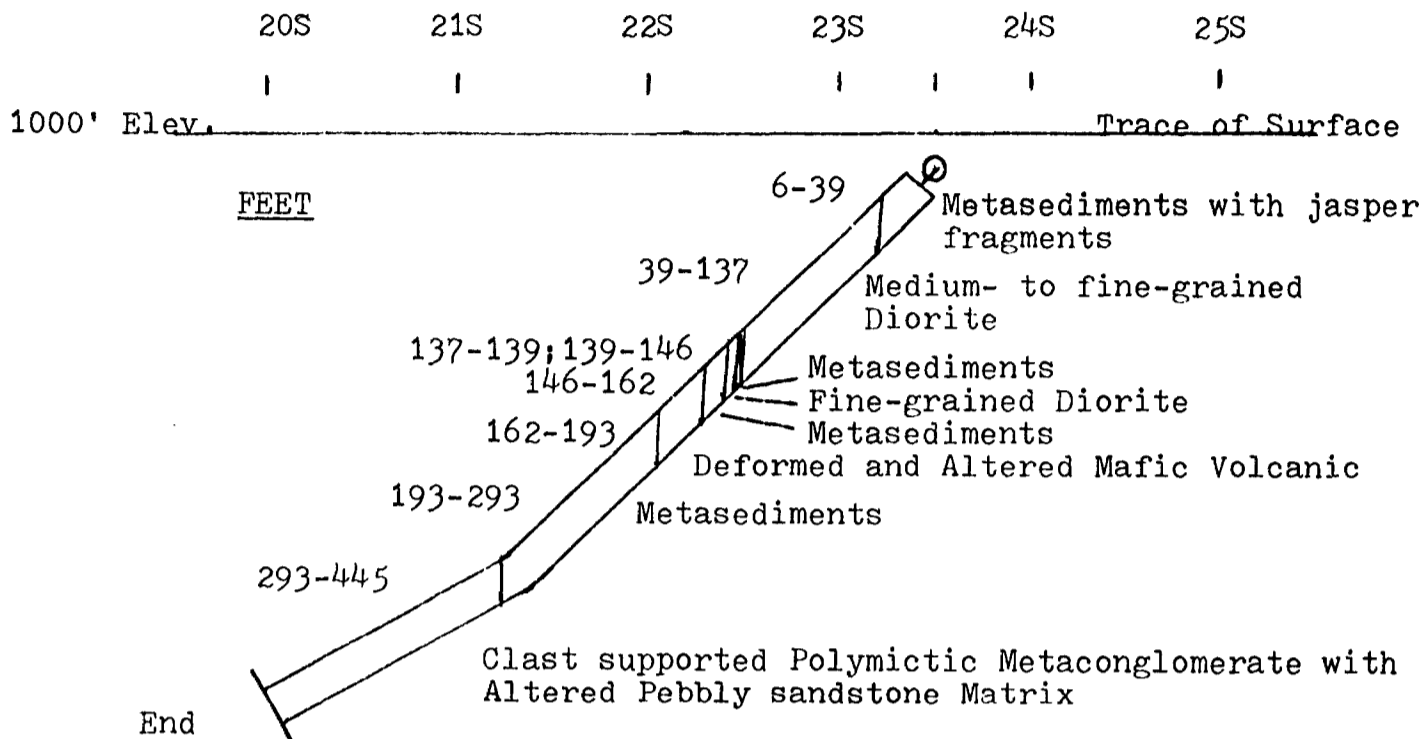
LEGEND

- CLAIM POST ■ Located
- Collar

Drawn by: Barbara Kowalski October 1984.

BK

IRWIN SOUTHEAST GRID
Metalore DDH Vertical Section Line 24E
B-Q Core, 24SE-1
Irwin Township, Ontario



LEGEND

- Geological Contact
- Collar

SCALE: 1 INCH = 100 FEET

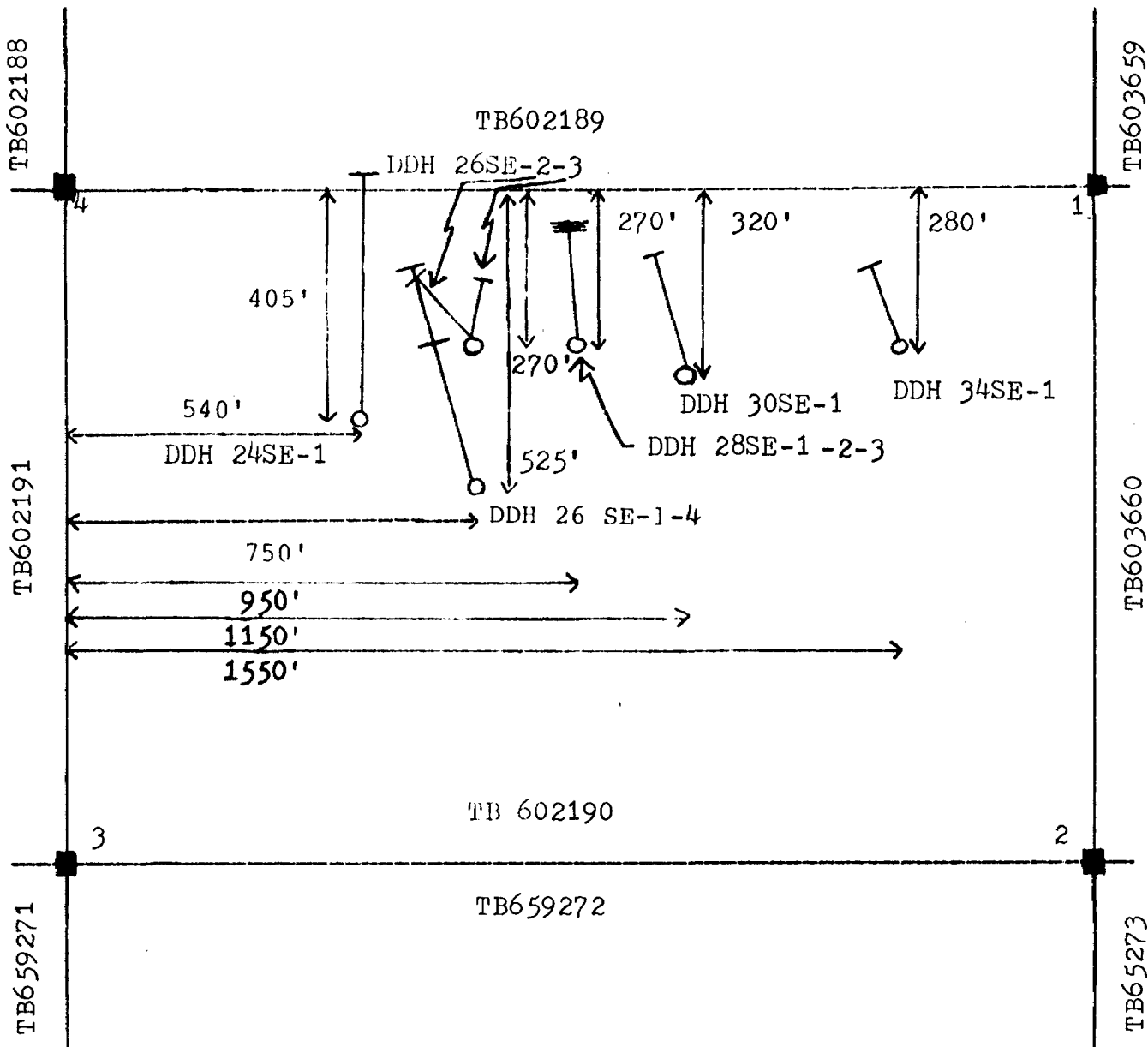
Drawn By: Barbara Kowalski October 1984.

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS	
From	To			From	To		g/t	g/t
139	146	FINE-GRAINED DIORITE AS 39'-137'						
146	162	METASEDIMENTARY UNIT AS 137'-139' WITH 1' HEMATIZED INTERLAMINATED CHERT AND WACKROCK. LESS THAN 1% COARSE-GRAINED PYRITE.						
162	1938"	DEFORMED METAVOLCANIC UNIT WITH MODERATELY WELL DEFINED FOLIATION (55° C/A) QTZ (Ca-AN) Fe-CARBONATE VEINLETS THROUGHOUT. ALTERATION ZONE. VERY DARK-GREEN TO BLACK IN COLOUR WITH ISOLATED 2" BRECCIA SECTIONS. FAINT PINK ALTERATION THROUGHOUT. PINKISH QTZ, Ca-AN AND Fe-CARBONATE AND SERICITE (< 1/2%) THROUGHOUT. BACKGROUND SPECTROMETER READINGS.						
	175'-177.7"	} < 1/4% DISSEMINATED PYRITE.	9473	175	177.7"	2.7"		Nil
	177.7"-180'		9474	177.7"	180.0	2.5"		Nil
	180"-182.6"	} 2% DISSEMINATED PYRITE. BRECCIATED BLACK SILICIFIED (2%) MATERIAL → INTERPRETED AS A FAULT BRECCIA. 1% DISSEMINATED PYRITE.	9475	180	182.6"	2.6"		0.002
	182.6"-184.6"		9476	182.6"	184.6"	2		0.002
	184.6"-186.3"	} WELL FOLIATED, ORANGE-RED-BROWN ALTERATION. BRECCIATED RED HEMATITIC FRAGMENTS (2%) Fe- AND Ca-CARBONATE (ORANGE IN COLOUR). SPECTROMETER READINGS 80 C.p.p.m. ONE PERCENT DISSEMINATED PYRITE.	9477	184.6"	186.3"	1.9"		Nil
	186.3"-189.5"		9478	186.3"	189.5"	3.3'		TR
		WELL FOLIATED (55° C/A), 30% SERICITE-, 55% K-FELDSPARS, ISOLATED SILICIFICATION.						

METALORE RESOURCES LIMITED

Location Map of DDH 84-24SE-1, 84-26SE-1-2-3-4,
84-28SE-1-2-3, 84-30SE-1, 84-34SE-1

IRWIN TOWNSHIP, ONTARIO
CLAIM NUMBER TB602190



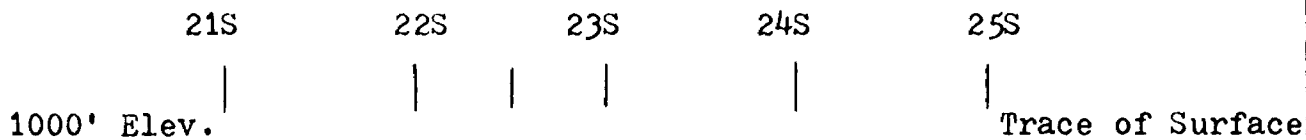
SCALE: 1 INCH = 300 FEET

LEGEND

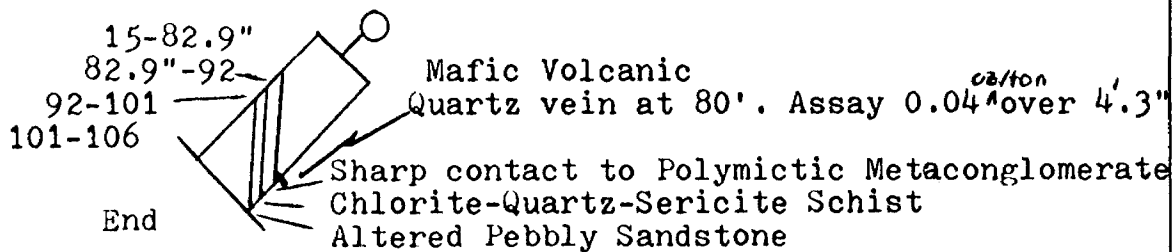
- CLAIM POST ■ Located
- Collar

Drawn by: Barbara Kowalski October 1984.

IRWIN SOUTHEAST GRID
Metalore DDH Vertical Section Line 26E
DDH Number 84-26SE-3



FEET



LEGEND

— Geological Contact

○ Collar

Core Size: N-Q 1 7/8"

SCALE: 1 INCH = 100 FEET

Drawn by: Barbara Kowalski December 1984.

DIAMOND DRILL RECORD & LOG

LOCATION: IRWIN SHOWING - SOUTHEAST GRIDPROPERTY: METALORE RESOURCES LTD.HOLE NO: 84-26SE-3LATITUDE: 26400E DEPARTURE: 22450S LENGTH: 106'ELEVATION: 1021'CLAIM NO. 70602190INCLIN: -45° CORE SIZE: NO 1 7/8"SECTION: VERTICALAZIMUTH: 19° DIP TESTS: NONELOGGED BY: BARB KOWALSKISTARTED: 12/17/84DATE LOGGED: NOV. 17, 1984COMPLETED: 12/17/84DRILLED BY: Bradley Buss LtdDRILLED FOR: Metalore Resources LtdPURPOSE: TO TEST QTB VEIN AND MAFIC-SEID CONTACT

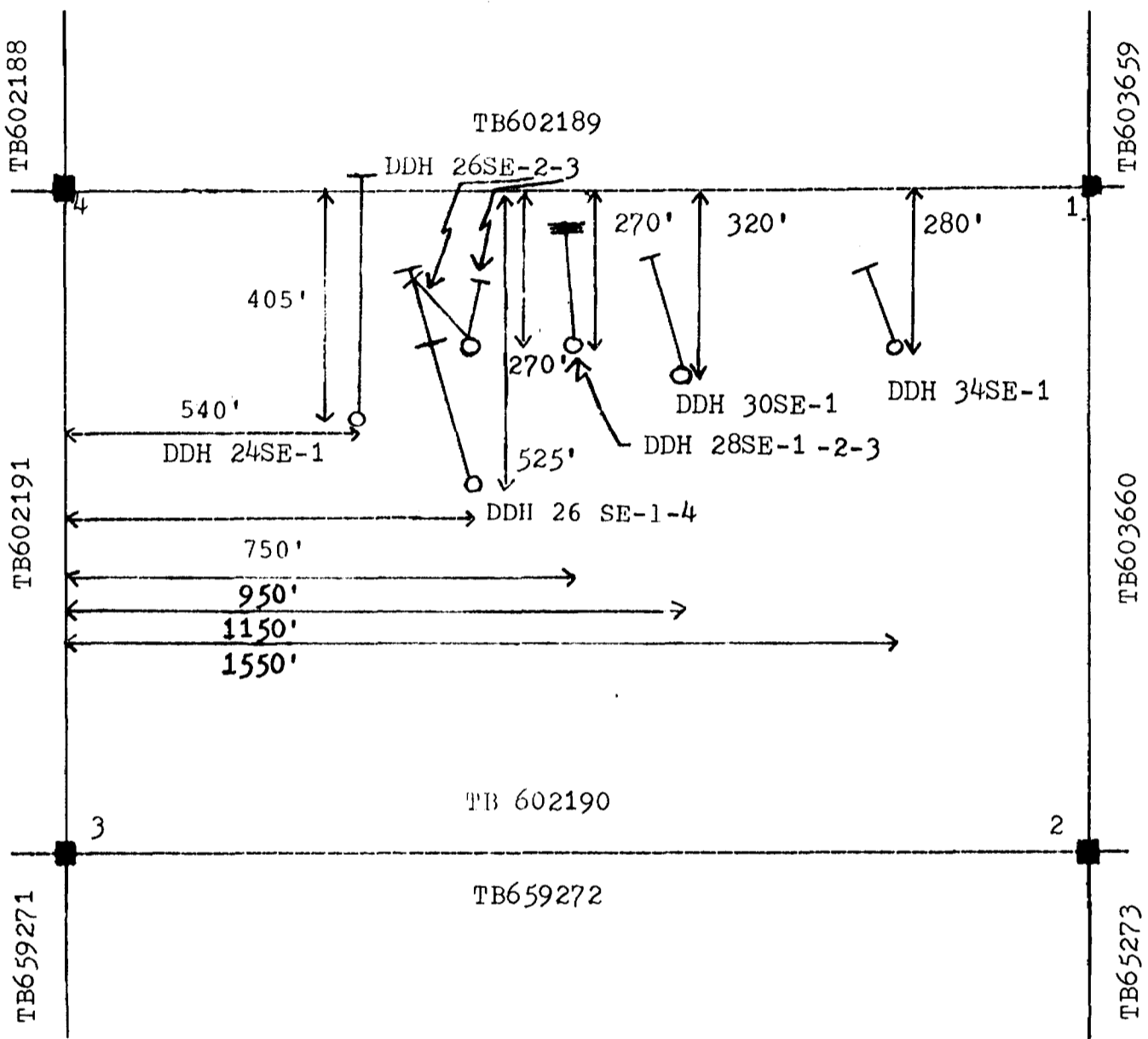
Barbara Kowalski

FEET		DESCRIPTION	SAMPLE NO.	FEET		LENGTH	ASSAYS						
From	To			From	To								
0.0	15.0	CASING											
15.0	82.9"	MEDIUM-GREEN, FINE-GRAINED MAFIC VOLCANIC (NO EPIDOTE), FOLIATION BECOMES PROGRESSIVELY PRONOUNCED DOWNHOLE (50-55° CIA). THREE PERCENT QTZ-CARB VEINLETS. ISOLATED 2-4" SECTIONS ARE WEAKLY SILICIFIED WITH UP TO 2% MEDIUM-GRAINED PYRITE, BUT ARE HEAVILY CARBONATIZED.											
		47-49.6" WELL FOLIATED (50° CIA) WEAKLY- TO HEAVILY MINERALIZED WITH UP TO 15% FINE- TO MEDIUM-GRAINED PYRITE. IT IS WEAKLY SILICIFIED MODERATELY CHLORITIZED, AND STRONGLY CARBONATIZED. 20% BROKEN CORE.	10263	47	49.6	2.6"				0.02			
		AT 61' - 62.3" SAME AS 47-49.6"											
		76.5" - 78.6" SAME AS 47-49.6"	10264	76.5"	78.6"	2.1"				0.018			
		78.6" - 80.6" 1" QTZ-CARB VEIN WITH WALKROCK INCLUDED IN SAMPLE. WALKROCK IS 50% SILICIFIED, 510% CARB, 30% CHLORITIC VEINLETS. UP TO 20%	10265	78.6"	80.6"	2				0.036			

METALORE RESOURCES LIMITED

Location Map of DDH 84-24SE-1, 84-26SE-1-2-3-4,
84-28SE-1-2-3, 84-30SE-1, 84-34SE-1

IRWIN TOWNSHIP, ONTARIO
CLAIM NUMBER TB602190



SCALE: 1 INCH = 300 FEET

LEGEND

- CLAIM POST ■ Located
- Collar

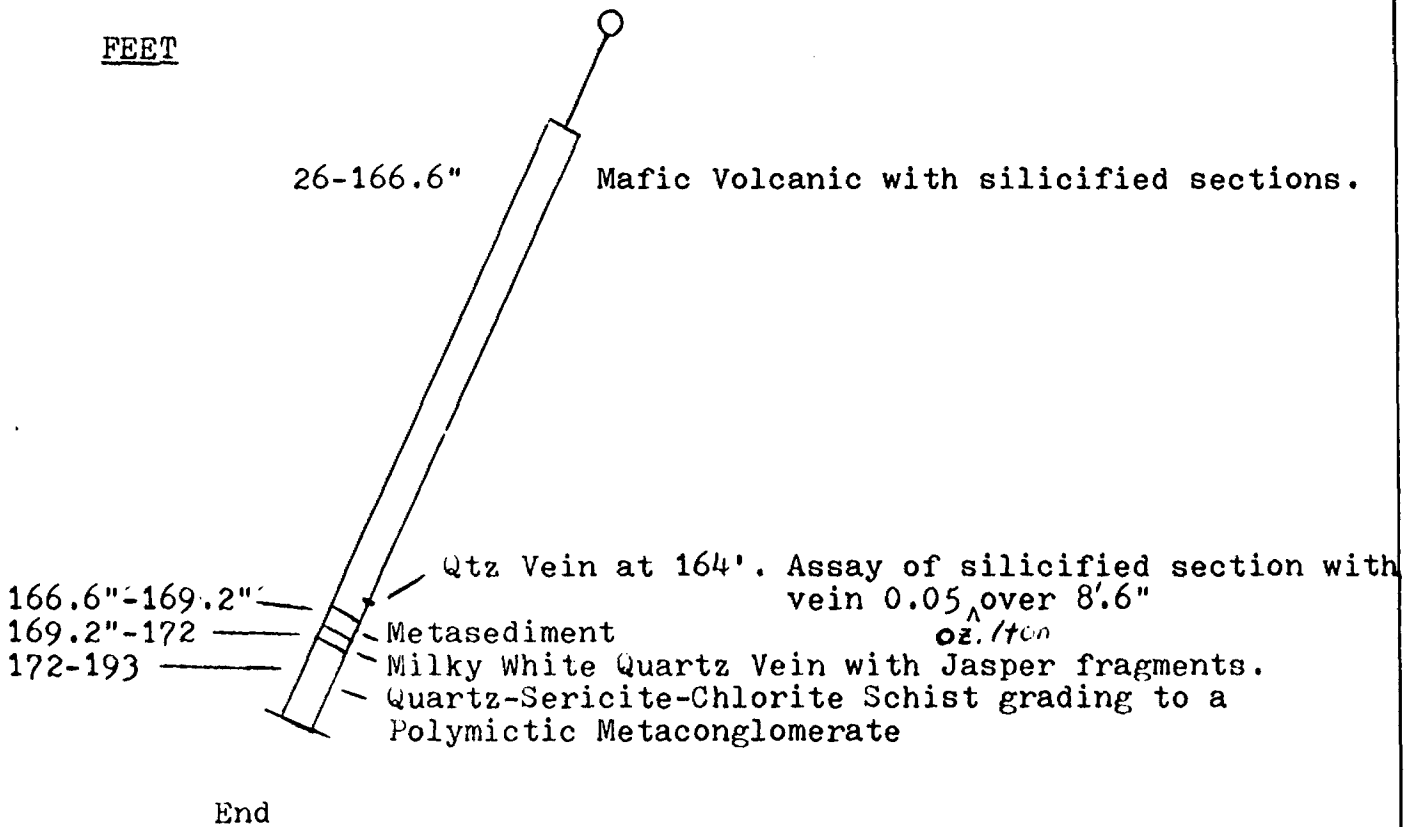
Drawn by: Barbara Kowalski October 1984.

IRWIN SOUTHEAST GRID

Metalore DDH Vertical Section Line 26E

DDH Number 84-26SE-4

1000' Elev. 22S | | | 23S Trace of Surface



LEGEND

— Geological Contact

○ Collar Core Size: N-Q 1 7/8"

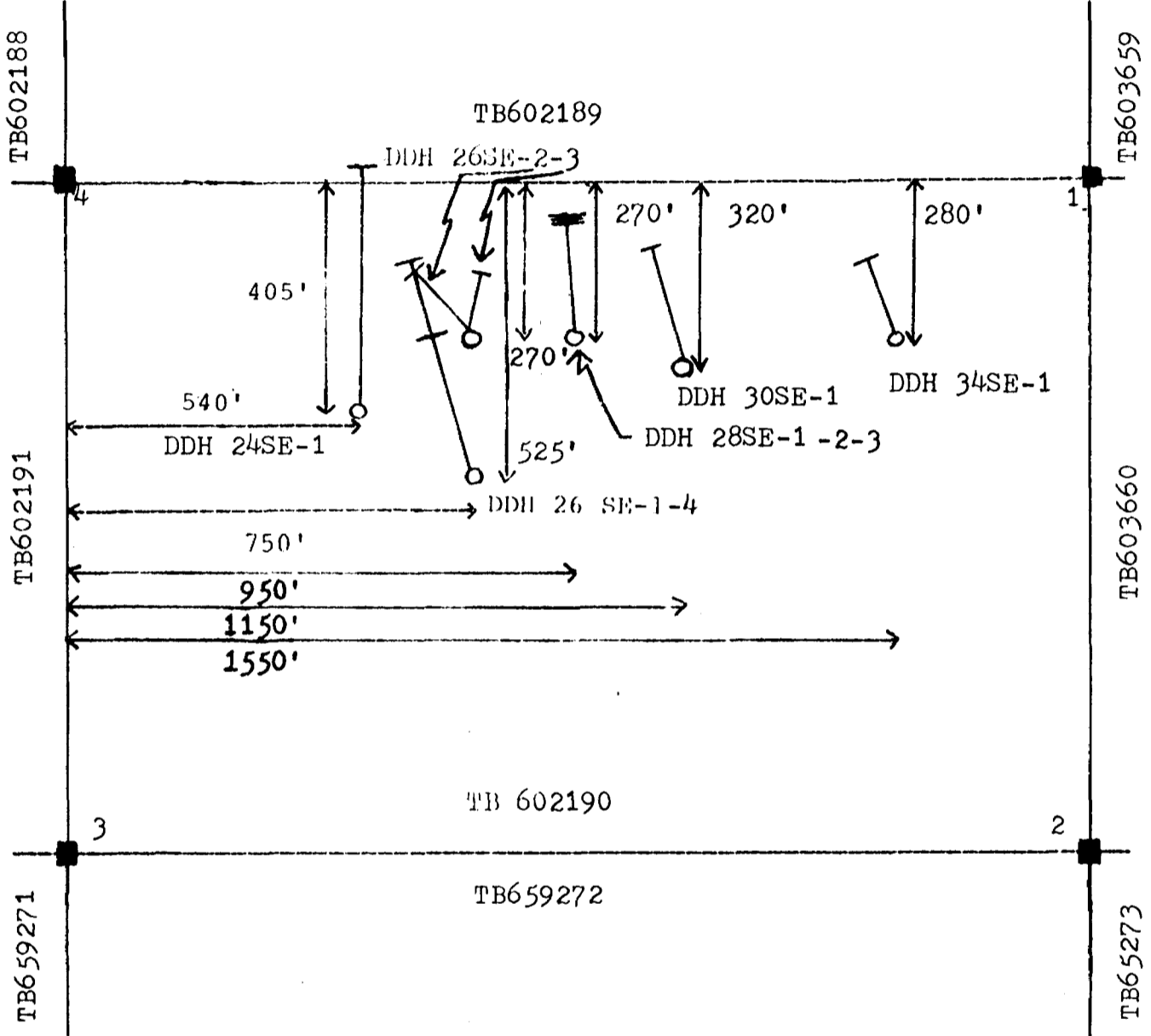
SCALE: 1 INCH = 50 FEET

Drawn by: Barbara Kowalski December 1984.

METALORE RESOURCES LIMITED

Location Map of DDH 84-24SE-1, 84-26SE-1-2-3-4,
84-28SE-1-2-3, 84-30SE-1, 84-34SE-1

IRWIN TOWNSHIP, ONTARIO
CLAIM NUMBER TB602190



SCALE: 1 INCH = 300 FEET

LEGEND

- CLAIM POST ■ Located
- Collar

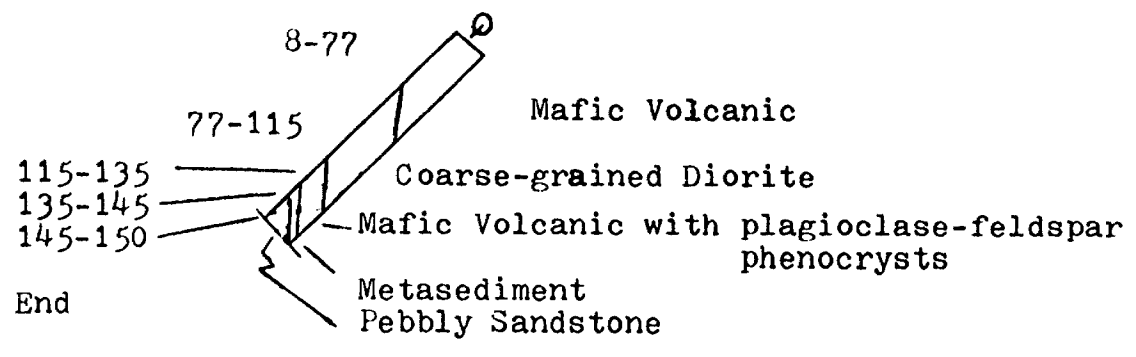
Drawn by: Barbara Kowalski October 1984.

IRWIN SOUTHEAST GRID
Metalore DDH Vertical Section Line 34E
DDH Number 84-34SE-1

22S 23S 24S 25S 26S
| | || | |

1000' Elev. Trace of Surface

FEET



LEGEND

- Geological Contact
- Collar Core Size: N-Q 1 7/8"

SCALE: 1 INCH = 100 FEET

Drawn by: Barbara Kowalski November 1984.



42E12NW0080 63.4852 SANDRA

060

METALORE RESOURCES LTD.
REPORT ON A GEOLOGICAL MAPPING
AND
MAGNETOMETER, VLF SURVEYS
CORRIGAN LAKE GRID
IRWIN AND SANDRA TOWNSHIPS, ONTARIO

AUGUST 1985

Barbara Kowalski
Project Geologist

OM 82-4-C-184

OK



42E12NW0080 63.4852 SANDRA

060C

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- PLATE 3 Contoured Fraser Filtration
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Horizontal Field Strength

SUMMARY

Ground magnetic and VLF-EM surveys and a geological mapping program were conducted on the Corrigan Lake Grid in Irwin and Sandra Townships, northeast of Beardmore Ont.. It was the purpose of this program to complete the most westerly extension of the contact between the polymictic metaconglomerate to the north and a mafic volcanic to the south. The contact is marked by a topographical low which may or may not necessarily indicate the presence of a fault.

The magnetics in this area are generally low with small pockets of magnetic highs sparsely distributed throughout. One area of interest lies between L74W to L86W just north of the lakeshore with associated high dip angle readings.

The VLF-EM survey results indicate the presence of four conductors PLATE 2.

In conclusion, two areas warrant further investigation with a short diamond drill program. They are: 1. The contact between the polymictic metaconglomerates to the north and mafic volcanics to the south (L24W to L31W) and 2. The magnetic high with associated high dip angles between L74W and L86W.

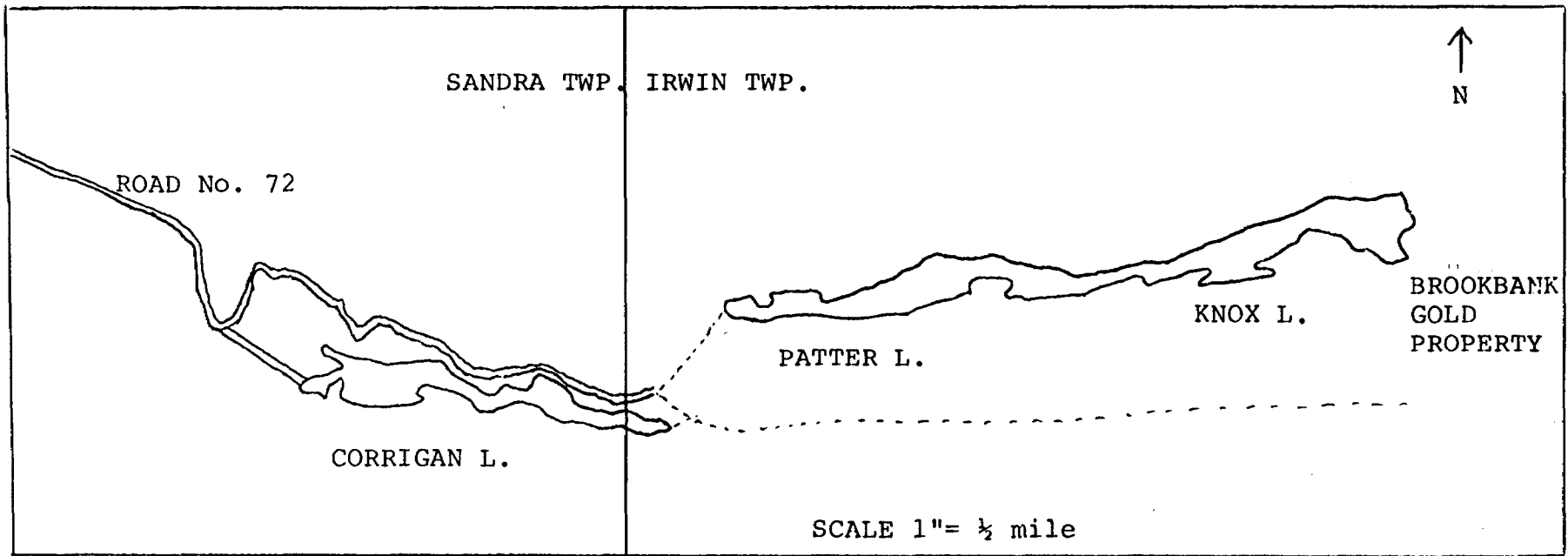


Figure 1 : Location map of Corrigan Lake.

INTRODUCTION

The purpose of this report is to briefly summarize the geology and the geophysical surveys conducted over the Corrigan Lake grid during the winter and summer of 1985. The Corrigan Lake grid is an extension westward of the Knox-Patter Lakes grid in Irwin and Sandra Townships. A location map of the area is shown in Figure 1.

ACCESS

The Metalore Resources property at Corrigan Lake is accessible north from Provincial Highway 11 by Provincial Highway 580 to a good gravel road, Domtar Road No. 72.

PREVIOUS WORK

In 1964, Pressman, conducted some prospecting and trenching and drilled two holes on a quartz vein located in polymictic metaconglomerates approximately 600-700 feet north of the northshore of Corrigan Lake. An intersection of 0.04Au oz/ton over 4 feet was encountered in the first drillhole and in the second drillhole 0.05 Au oz/ton over 4-6 inches. A location map of the trenches and drillholes is shown in Fig.2.

GEOLOGY

The Corrigan Lake area is the most westerly extension on strike (2.2 miles) from the Brookbank Contact Zone. The most easterly section of the grid, in particular, L24W to L31W consists of a pronounced ridge of polymictic metaconglomerates with pebbles and cobbles of variable composition, (quartz, granitic, feldspathic, jasper and mafic). The peb-

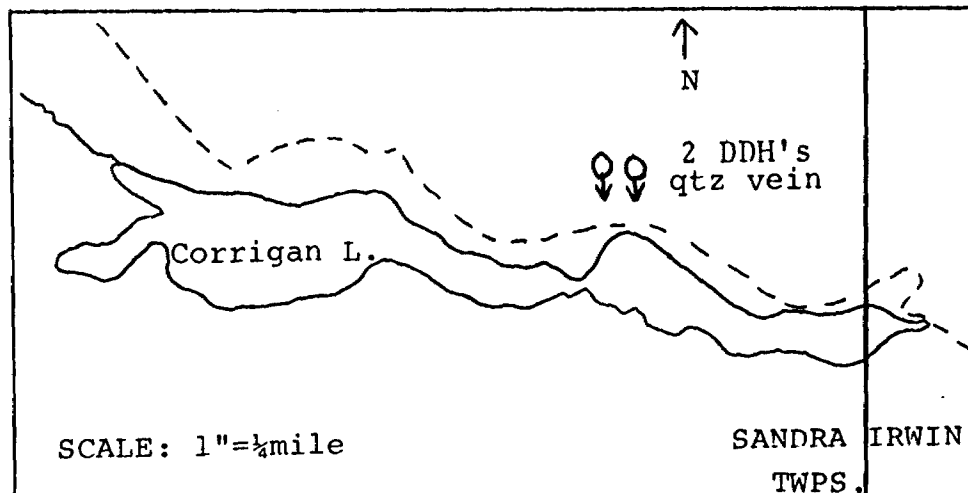


Figure 2 : Location map of two drillholes drilled in 1964.

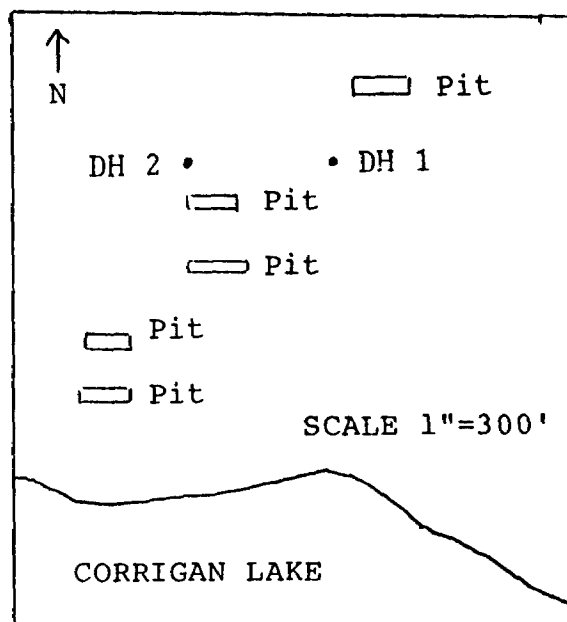


Figure 3 : Location map of pits and drillhole(1964).
Claim No. TB730972

bles and cobbles are weakly deformed (flattened) and the matrix is homogeneous green in colour and is weakly to moderately foliated in areas. The pebbles and cobbles are numerous but become sparsely distributed to the south. This unit grades southward to an altered (sericite) pebbly sandstone where no clasts are seen. Marking this gradational* contact is a topographic low followed by a ridge of mafic volcanics to the south. The volcanic unit is fine- to coarse-grained (where it may appear to be dioritic?) and may be generally described as a massive flow. Deformation and alterations are very weakly developed with faint Fe-carbonate being the sole alteration. Occasionally, medium-grained disseminated pyrite occurs.

The contact continues westward but disappears under Corrigan Lake. The central part of the grid (L31W to L70W) is marked by a conglomerate ridge with overburden on the talus slopes. The westerly part of the grid is predominately thick overburden with few mafic volcanic outcrops. The topography here is low with a gentle but prominent rise of thick overburden to the north.

*Note: The Brookbank Contact Zone is a sharp contact marked by a fault, however, the Corrigan contact is gradational between the polymictic metaconglomerates to the north and the mafic volcanics to the south, possibly inferring no fault present at the contact.

GEOPHYSICS

Magnetometer Survey

A magnetic survey was conducted using a Scintrex Proton MP 2Magnetometer where readings were recorded at 25 and 50

foot intervals. A progressing base station was used along Baseline 3 at 200 and 400 foot intervals. No untoward magnetic disturbance was experienced during the survey dates and the readings were corrected for diurnal drift by comparison of the secondary base station readings at the beginning and end of each line-loop.

RESULTS

The magnetic signature is useful in defining volcanic trends and boundaries. At locations where sediments lie in contact with volcanics, an abrupt change commonly occurs from flat low magnetic relief over the sediments, to variable generally high magnetic relief over the mafic volcanics. An example where the magnetics are elevated at Corrigan Lake lies between Lines 74W to 86W in approximate vicinity of the Baseline (see Plate 1). The magnetic response represents mafic volcanics with sediments outcropping immediately to the east. Other magnetically elevated areas, in particular a large magnetic trend occurs between Lines 50W, 13+50S and 90, 0+25S, southward may represent a contact between two lithologies. A magnetically elevated area occurs on L26W. This magnetic relief represents a diabase dyke. There are other very minor magnetic responses occurring through the area that warrant further investigating, with respect to magnetic associations to gold bearing zones. The results are plotted and contoured on the magnetometer survey map.

Radem VLF-EM Survey

A CroneRadem VLF receiver unit was used for the EM survey and Cuttler Maine (17.8 Hz frequency) was utilized for the transmitter station. Normal accepted operational proc-

edures were used at all times. Both the dip angle and the horizontal field strength (HFS) were measured at 25 and 50 foot intervals along 200 and 400 foot picket lines. A progressing base station was used along the Baseline 3 at 200 and 400 foot intervals. The dip angles are plotted as profiles and contoured Fraser filtration was utilized. The Horizontal Field Strength values are plotted and contoured.

RESULTS

Conductor A Knox grid L68W-L74W, Corrigan grid begins at L24W, conductor continues to L30W.

This is a weakly conductive zone with low dip angles and a maximum of a 100% increase in HFS. The contoured dip angles determined by the Fraser Filtration method, depicts high dip angles between Conductors A and C. Conductor A is coincident with the swamp covered, sheared contact between the polymictic metaconglomerate to the north and the meta-volcanic to the south. (Winter, 1983).

Conductor B Knox grid L22W-L74W, Corrigan grid begins at L24W, conductor probably continues beyond L90W.

This conductive zone generally has low dip angles, except for two moderately high values between L47W-L52W with an increase of 60% in HFS, and L74W-L86W with a maximum increase of 120% in HFS. This conductor is a long linear feature that coincides with a scarp controlled, swamp covered area and continues westward across Corrigan Lake. It has been interpreted that this linear feature is a fault. (Winter, 1983).

Conductor C Knox grid L74W, Corrigan grid begins at L24W, conductor continues to L28W.

This conductive zone has low dip angles and a maximum increase of 90% in HFS. The contoured dip angles depicts high dip angles between Conductors A and C. Conductor C is a linear feature that coincides with a scarp controlled interpreted fault.

Conductor D Corrigan grid L50W-L62W, it appears this conductor may continue westward.

This is a weakly conductive zone with low dip angles and a maximum of 20% increase in HFS. This conductor is a linear feature that coincides with a scarp controlled interpreted fault.

The last area of interest is where there appears to be no conductor on the dip angle profile, although the contoured dip angle shows moderately high values between L78W-82W, and a maximum increase of 50% in HFS between L78W-86W, along the baseline. There is a magnetic correlation at L74W-L86W which warrants further investigation related to possible gold bearing zones.

CONCLUSIONS

Two areas warrant further investigation with a short diamond drill program. They are: 1. The contact between the polymictic metaconglomerate to the north and the mafic volcanic to the south (L24W to L31W) and 2. The magnetic high with associated high dip angles between L74W and L86W.

REFERENCES

Winter, L.D.S. 1983: Geological and Geophysical Program
Metalore Resources Limited, Irwin
Township, Ontario, 11p.

APPENDIX

PROGRAM STATISTICS

Magnetometer Survey

6.72 Line miles
988 Station readings

VLF-EM Survey

6.72 Line miles
793 Station readings

GEOLOGY

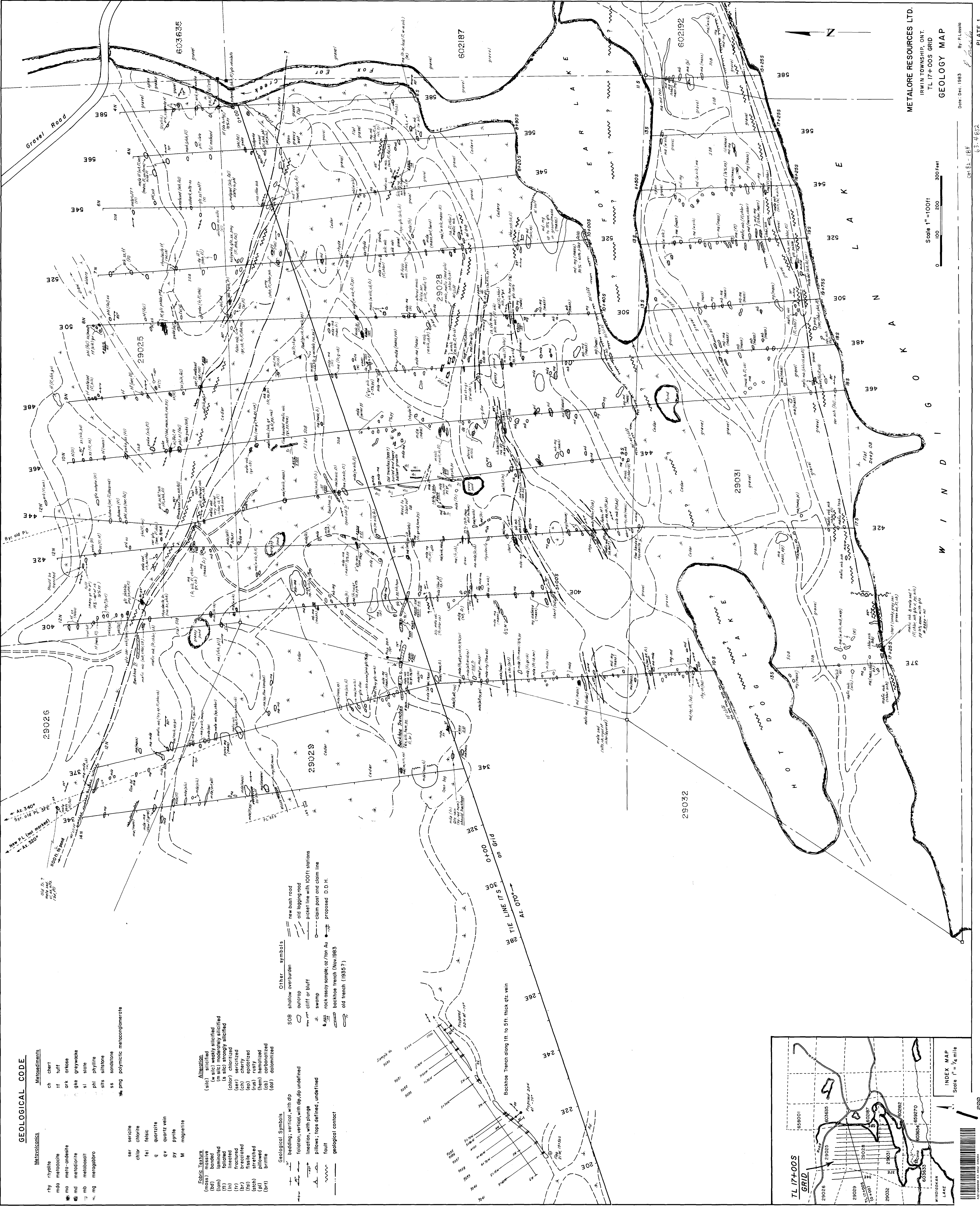
6.58 Line miles

#63. 4852

OM 82-4-C-184

THIS SUBMITTAL CONSISTED OF VARIOUS REPORTS, SOME OF WHICH HAVE BEEN CULLED FROM THIS FILE. THE CULLED MATERIAL HAD BEEN PREVIOUSLY SUBMITTED UNDER THE FOLLOWING RECORD SERIES (THE DOCUMENTS CAN BE VIEWED IN THESE SERIES):

- ① Report of the Combined Helicopter Borne → See file # 2.8352, Reports of Gamma Ray Spectrometer Survey, Metalore Resources Ltd., G.W. Sander, Sept. 28/84. Work # 312 to 317 for 1985
- ② Report on the Helicopter - Borne VLF-EM → See file # 2.7430, Reports of Survey, Metalore Resources Ltd., G.W. Sander, Oct. 12/84. Work # 611 to 614 for 1984 and # 86 and # 253 for 1985
- ③ Report on a Geological Mapping + Magnetometer → See file # 2.8541, Report of Work Survey, Metalore Resources Ltd., B.S. Kowalski, June/85. # 438 for 1985.



Scale 1"=100ft
 0 100 200 300 Feet

GEOLOGICAL CODE

- Metasediments**
- ch chert
 - huff huff
 - ark arkose
 - gls greywacke
 - sl siltstone
 - ph phyllite
 - sls siltstone
 - ss sandstone
 - pmg polymictic metaconglomerate

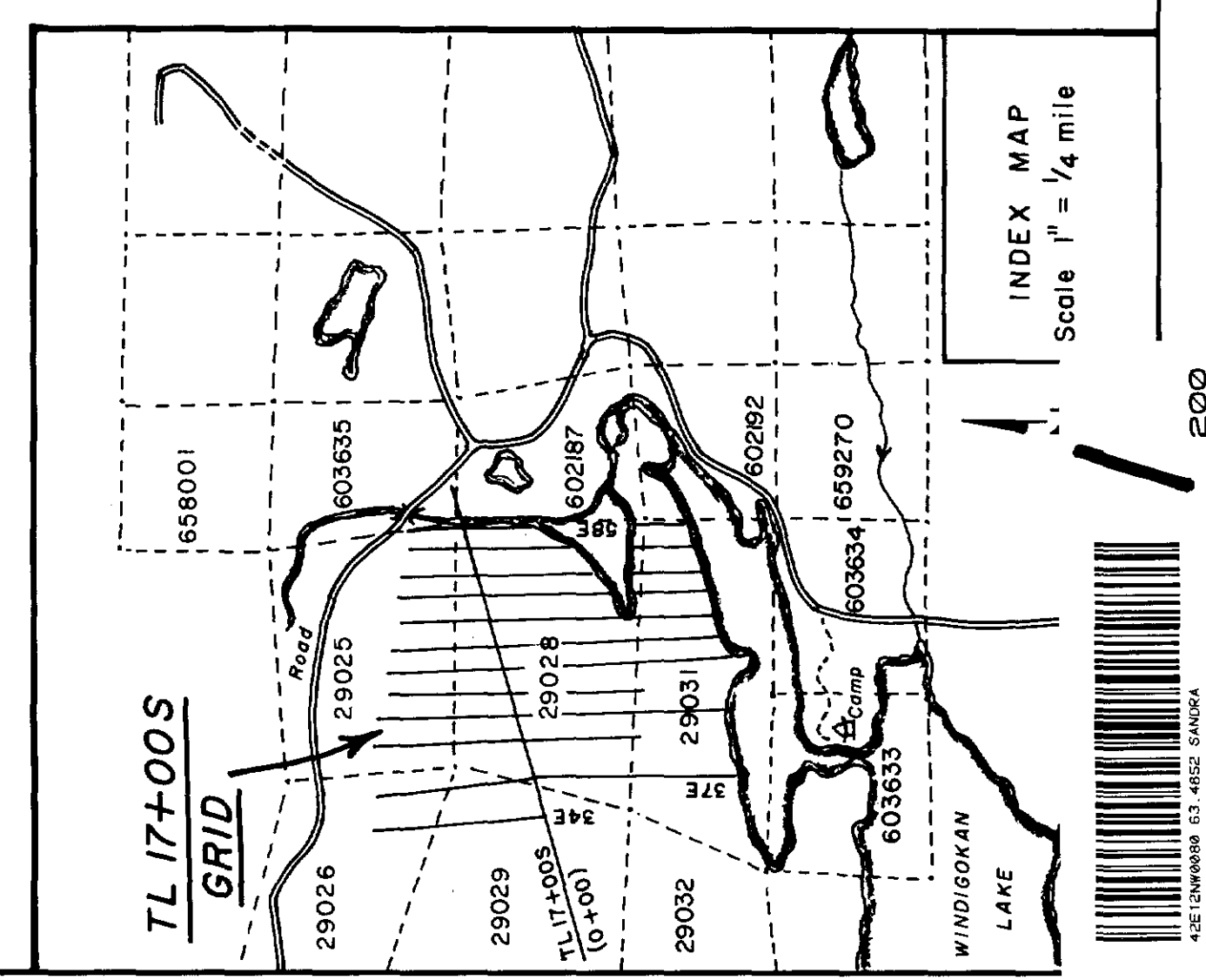
- Fabric Texture**
- (mass) massive
 - (bl) blocky
 - (lm) laminated
 - (fl) foliated
 - (fr) fractured
 - (br) brecciated
 - (lch) lenticular
 - (st) stretched
 - (pl) pillowed
 - (brt) brittle

- Minerals**
- ser sericite
 - chl chlorite
 - fel feldspar
 - q quartz
 - qv quartz vein
 - py pyrite
 - M magnetite

- Geological Symbols**
- bedding, vertical, with dip
 - foliation, vertical, with dip, dip undefined
 - lineation, with plunge
 - pillows; top defined, undefined
 - fault
 - geological contact

- Other Symbols**
- SOB shallow overburden
 - outcrop
 - new cliff or bluff
 - swamp
 - rock assay sample or ton Au
 - backhoe trench (Nov. 1983)
 - old trench (1935?)

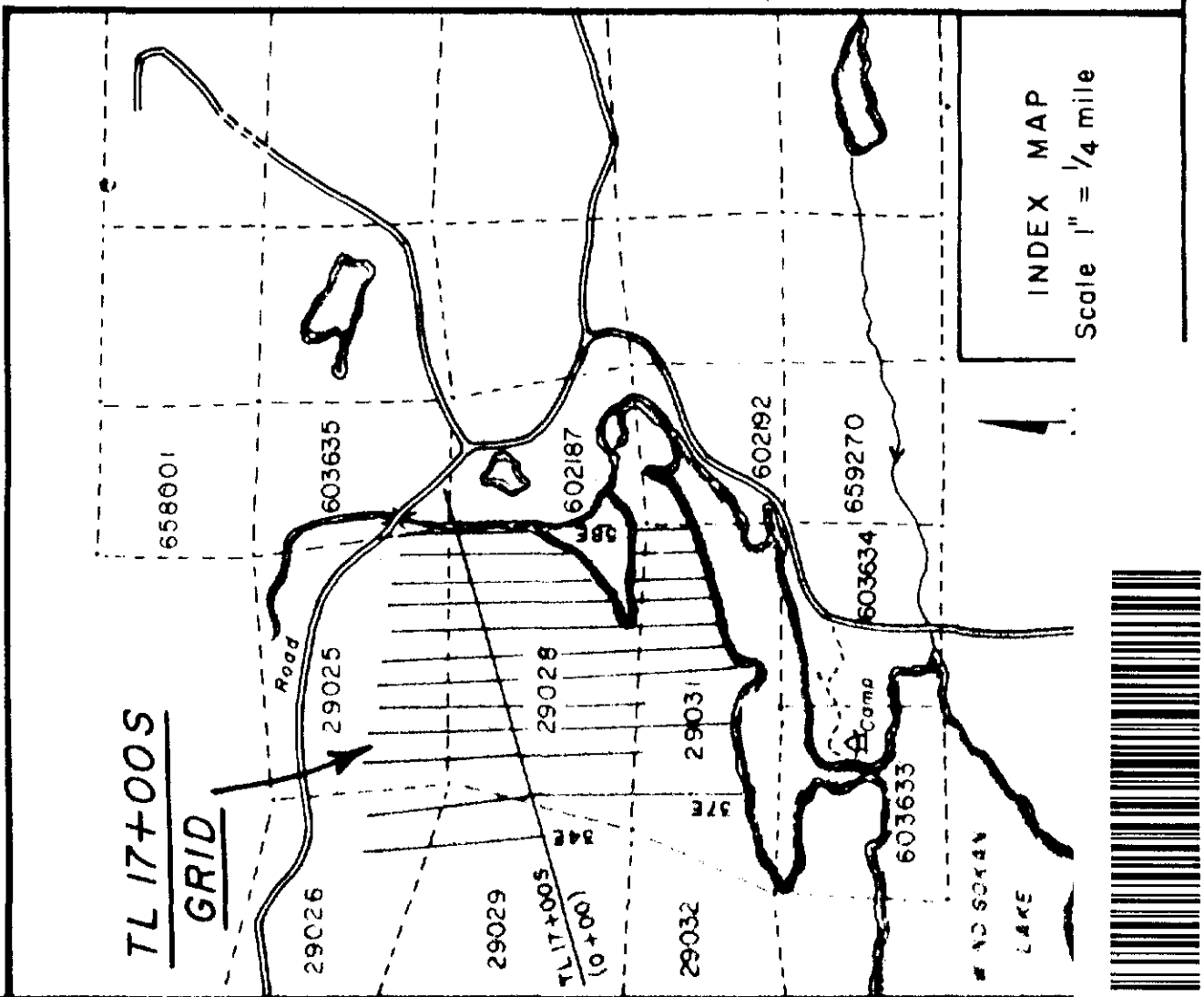
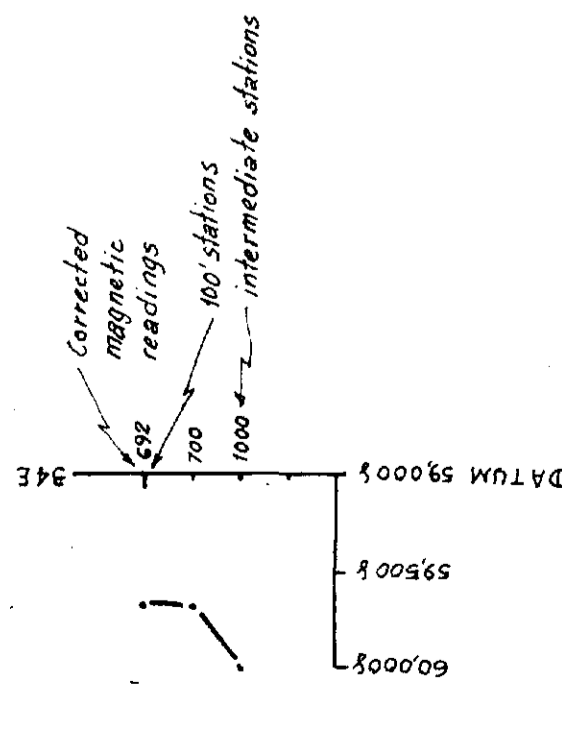
- Other Symbols**
- new bush road
 - old logging road
 - bucket line with OOFt stations
 - claim post and claim line
 - proposed D.D.H.
 - old trench (1935?)





LEGEND

INSTRUMENT: Scintrex, MP2
 Datum: Precise Magnetometer
 DATUM SUBTRACTED: 59,000.5
 LINE SPACING: 200 FT.
 PROFILE VERTICAL SCALE: 1" = 1,000
 Profile Base: 59,000.5
 OPERATOR: P. Lasala
 Date of Survey: Nov. 8 - 11, 1983

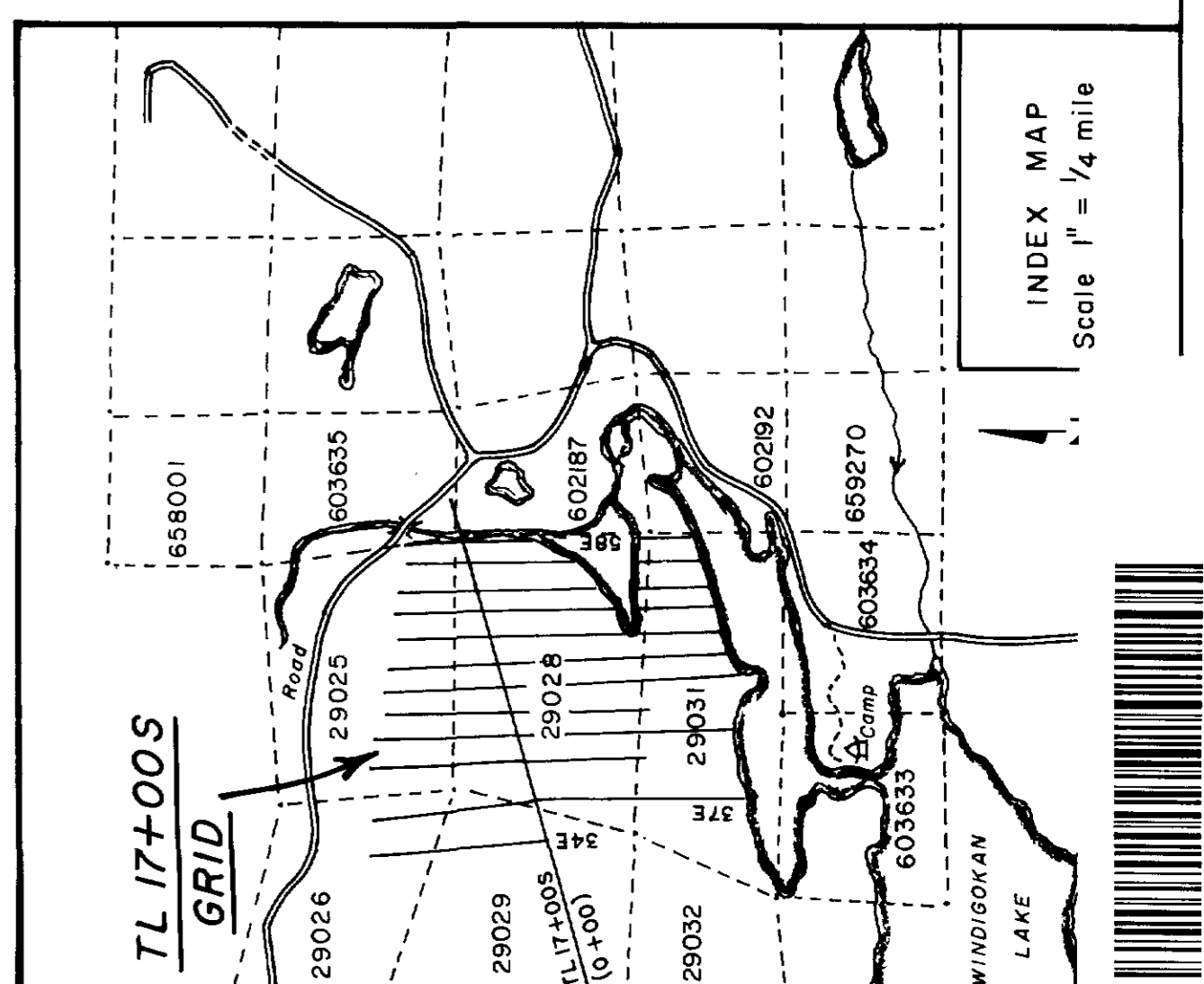
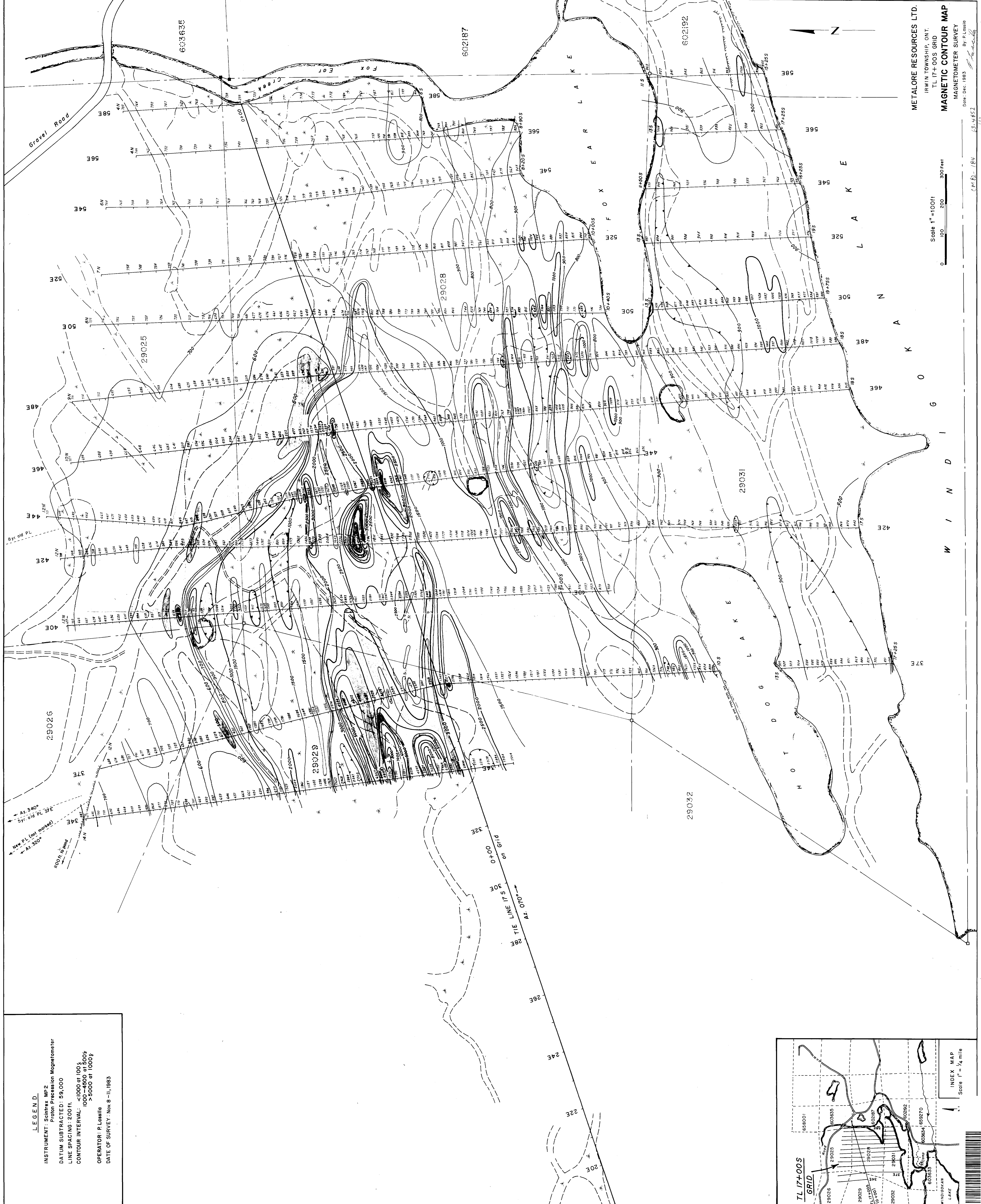


METALORE RESOURCES LTD.
 IRWIN TOWNSHIP, ONT.
 TL 17+00S GRID
MAGNETIC PROFILE PLAN MAP
 MAGNETOMETER SURVEY
 Date: Dec. 1983
 P. Lasala

Scale 1" = 100 ft
 0 100 200 300 Feet

LEGEND

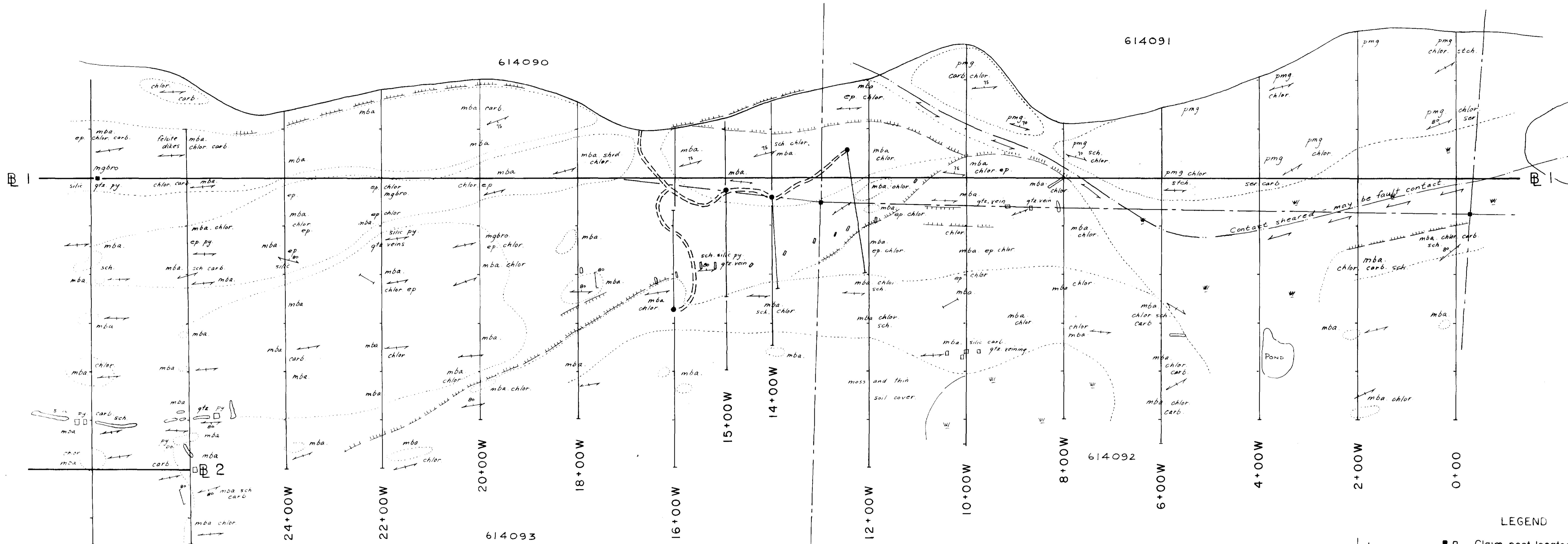
INSTRUMENT: Scintrex MP2
Proton Precision Magnetometer
DATUM SUBTRACTED: 59,000
LINE SPACING: 200 ft.
CONTOUR INTERVAL: <1000 at 100 ft.
1000-4500 at 500 ft.
>5000 at 1000 ft.
OPERATOR: P. Lesalla
DATE OF SURVEY: Nov 8 - 11, 1983



METALORE RESOURCES LTD.
IRWIN TOWNSHIP, ONT.
TL 17+00S GRID
MAGNETIC CONTOUR MAP
MAGNETOMETER SURVEY
Date: Dec. 1983
By: P. Lesalla

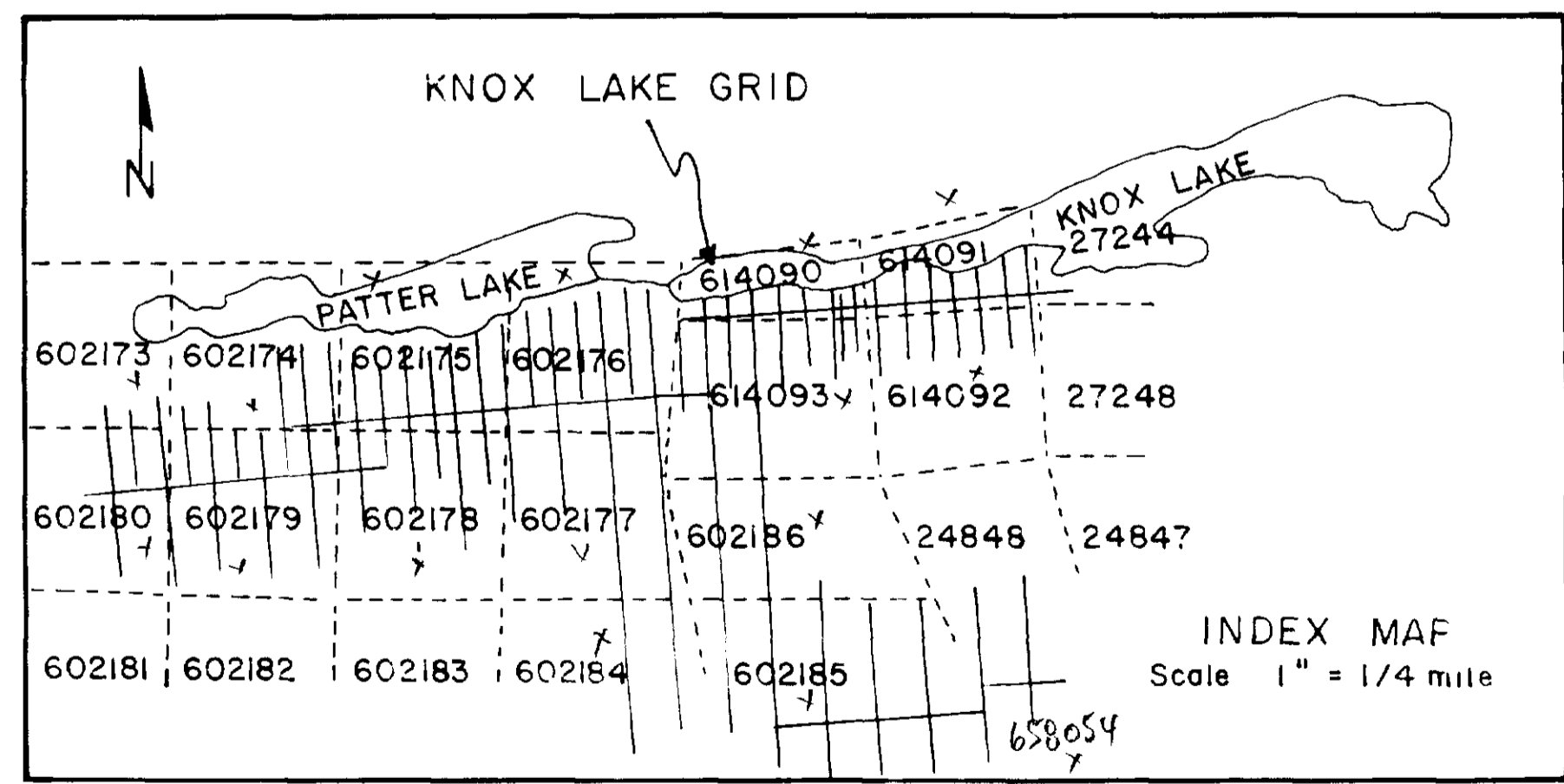
Scale 1" = 100ft
0 100 200 300 Feet

KNOX LAKE

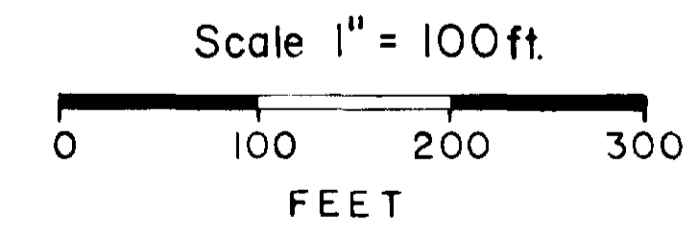


LEGEND

- □ Claim post, located, unlocated
- Claim line
- == 1983 winter drill road
- ⊕ Diamond Drill Hole
- ≡ Swampy overburden
- ⊥ Cliff or rocky bluff
- Tr. Old trench site
- Outcrop outline



Note: For geological symbols see Center Sheet
 In general, this area is all outcrop covered with a thin layer of moss or soil. The outcrop descends in a series of cliff-bounded steps to Knox Lake.



METALORE RESOURCES LTD.
 IRWIN TOWNSHIP, ONT.
 KNOX LAKE GRID
 EAST SHEET
 GEOLOGY

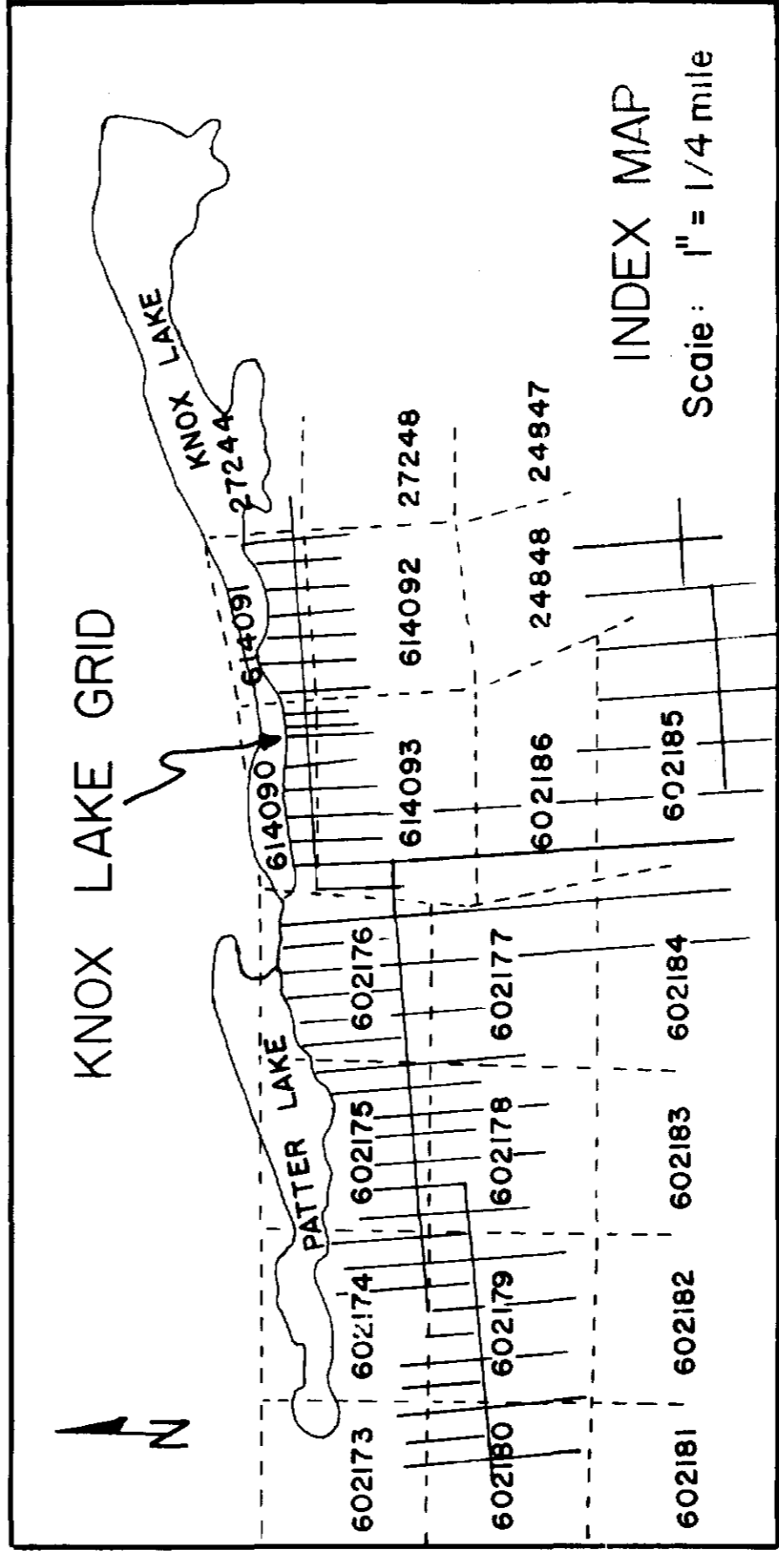
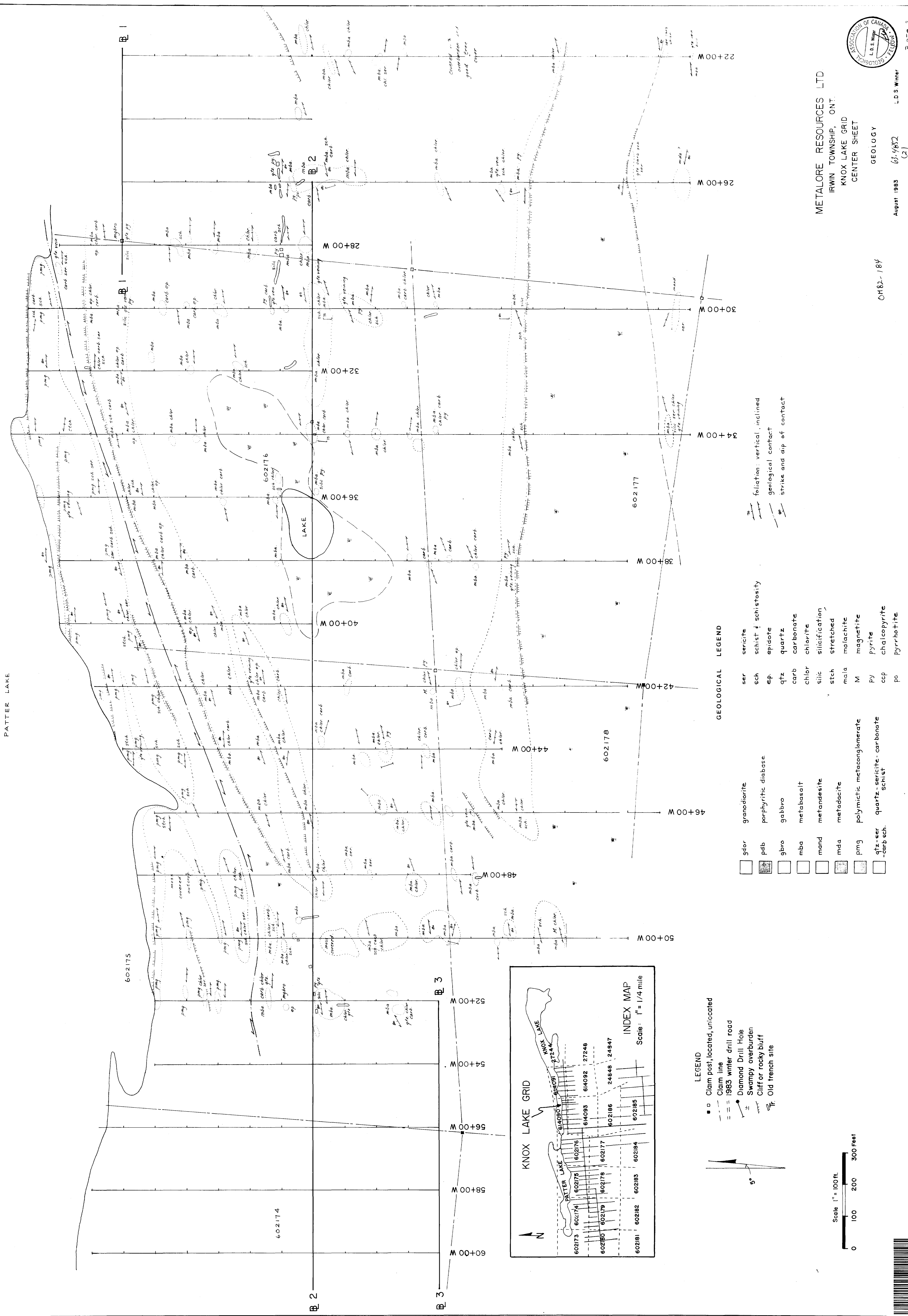
August 1983

OM 82-184
 63.4852
 12

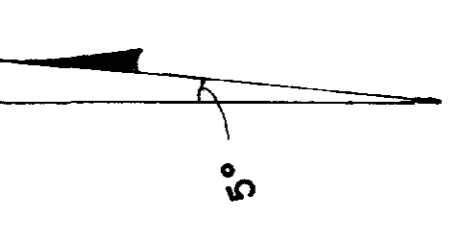
Plate 1



PATTER LAKE

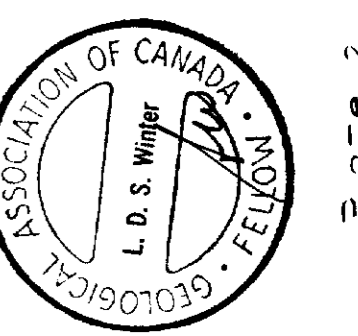


- LEGEND**
- Claim post, located, unlocated
 - Claim line
 - == 1983 winter drill road
 - ◆ Diamond Drill Hole
 - ~ Swampy overburden
 - ▬ Cliff or rocky bluff
 - ⊥ Old trench site



- GEOLOGICAL LEGEND**
- | | | | |
|-----------|-----------------------------|-------|----------------------|
| gbr | granodiorite | ser | sericite |
| pdb | porphyritic diabase | sch | schist & schistosity |
| gbr | gabbro | ep | epidote |
| mba | metabasalt | qtz | quartz |
| mand | metandesite | carb | carbonate |
| mda | metadacite | chlr | chlorite |
| pmg | polymictic metaconglomerate | silic | silicification |
| qtz-ser | quartz-sericite-schist | stch | stretched |
| -carb sch | -carb schist | mla | malachite |
| | | M | magnetite |
| | | py | pyrite |
| | | ccp | chalcopyrite |
| | | po | pyrrhotite |
- foliation: vertical, inclined
 — geological contact
 — strike and dip of contact

METALORE RESOURCES LTD
 IRWIN TOWNSHIP, ONT.
 KNOX LAKE GRID
 CENTER SHEET



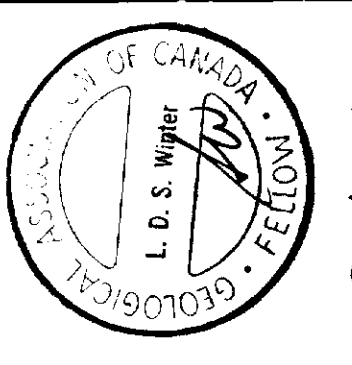
0H82-184

August 1983 01.4682 (2)

L.S. Winter

2-40



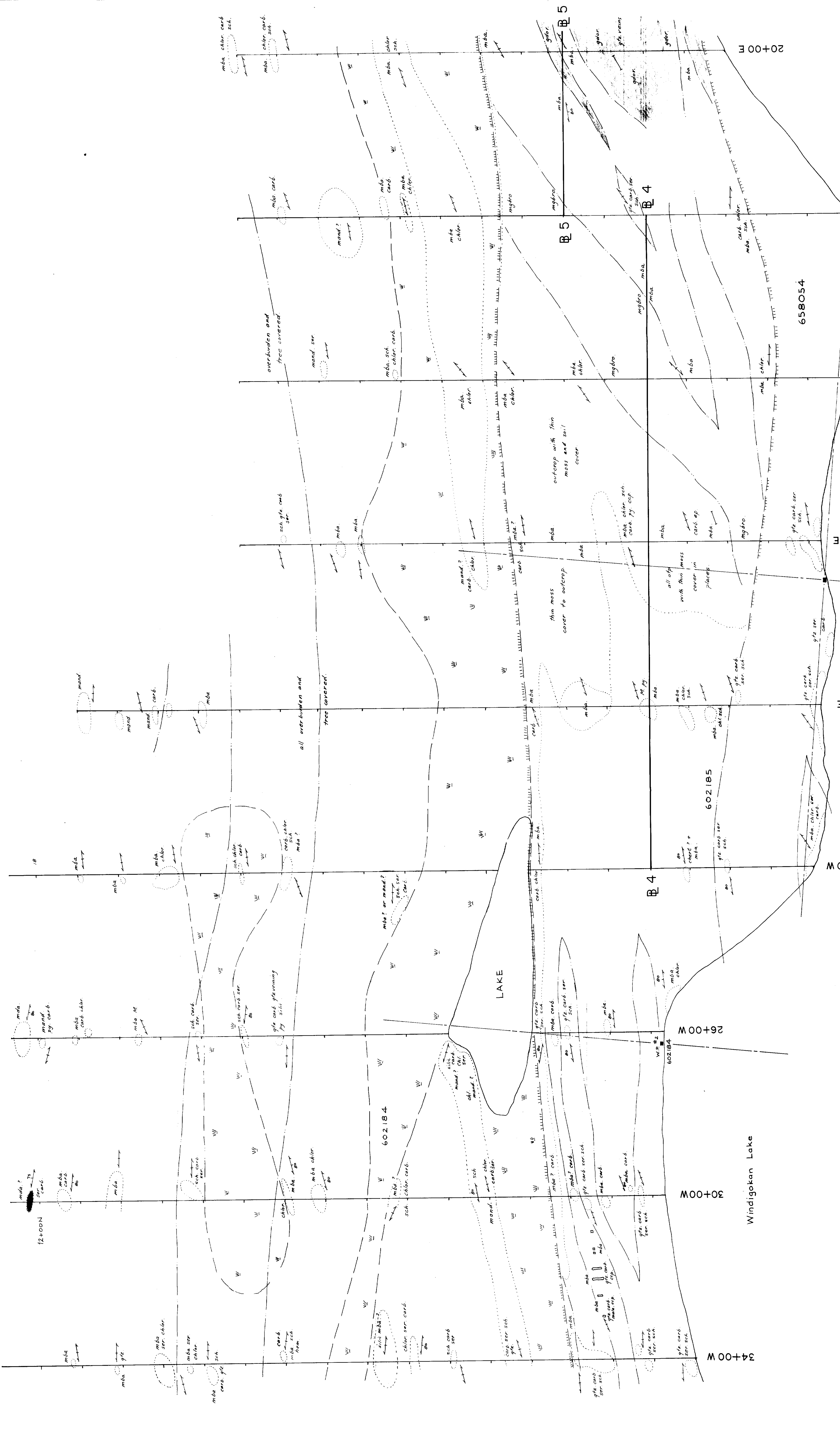


METALORE RESOURCES LTD.
 IRWIN TOWNSHIP, ONT.
 KNOX LAKE GRID
 SOUTH SHEET

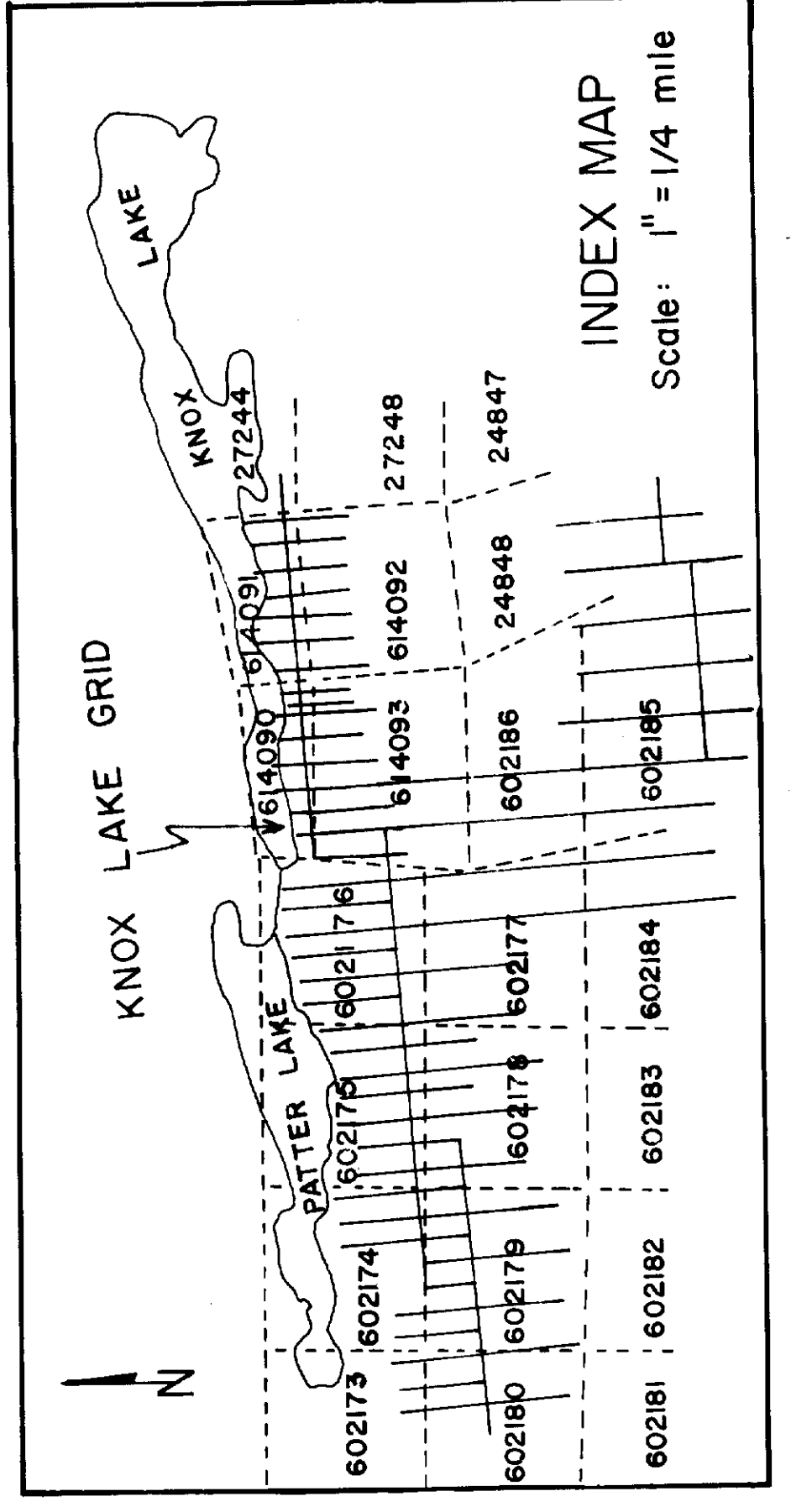
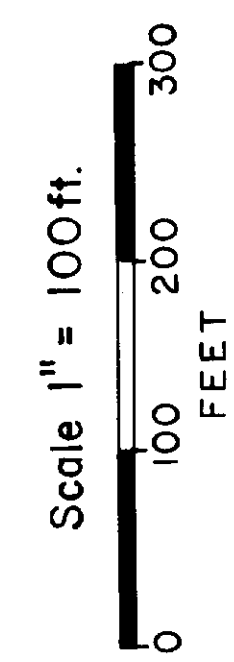
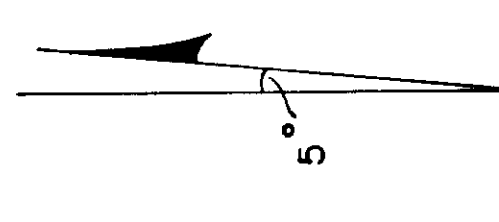
August 1983 63-4852
 (2)

August 1983 63-4852
 (2)

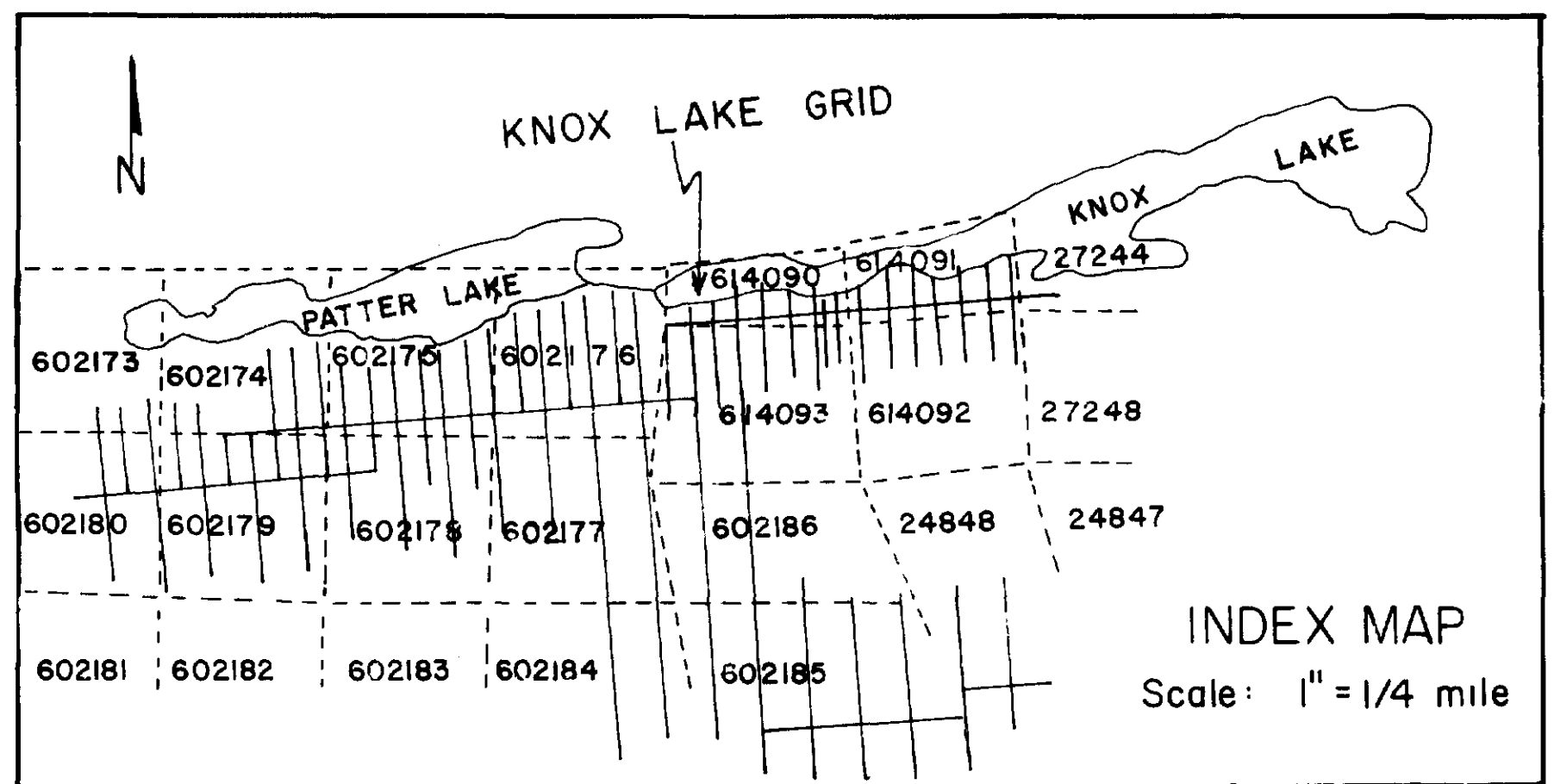
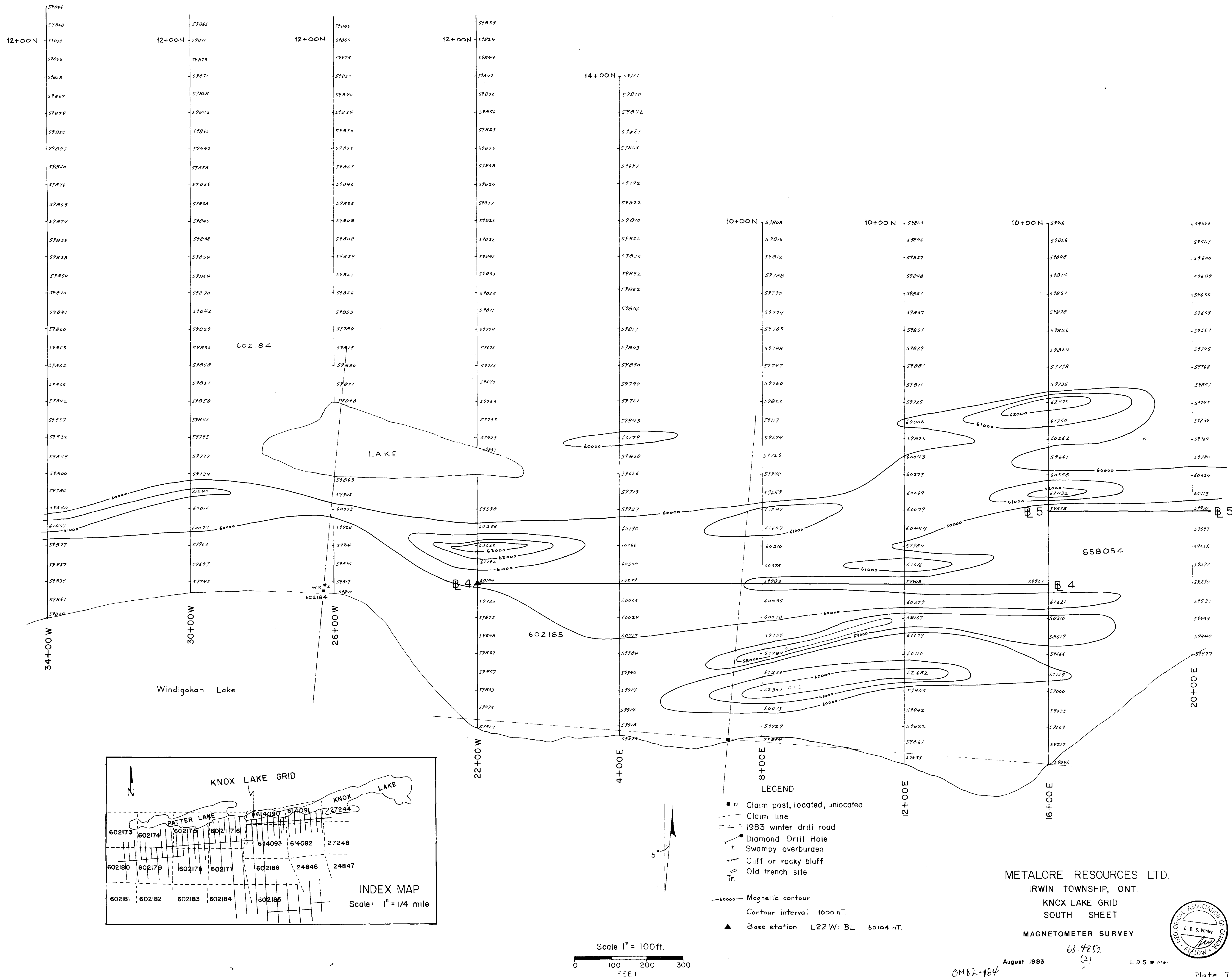
Plate 4



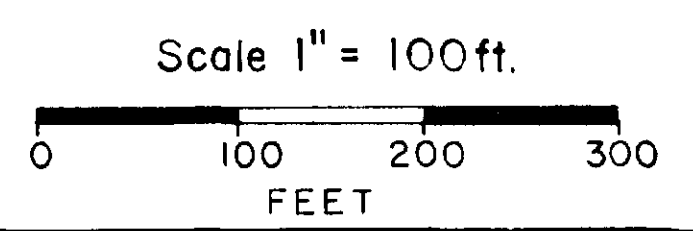
- LEGEND
- Claim post, located, unlocated
 - Claim line
 - == 1983 winter drill road
 - Diamond Drill Hole
 - ⊕ Swampy overburden
 - ⊖ Cliff or rocky bluff
 - Tr Old trench site
 - Outcrop outline



Note: For geological symbols see Center Sheet



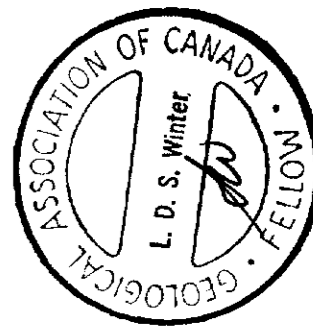
- LEGEND**
- Claim post, located, unlocated
 - - - Claim line
 - 1983 winter drill road
 - Diamond Drill Hole
 - z Swampy overburden
 - ⊥ Cliff or rocky bluff
 - Tr. Old trench site
 - - - - - Magnetic contour
 - Contour interval 1000 nT.
 - ▲ Base station L22 W: BL 60104 nT.



METALORE RESOURCES LTD.
 IRWIN TOWNSHIP, ONT.
 KNOX LAKE GRID
 SOUTH SHEET
 MAGNETOMETER SURVEY



63-4852
 (2)
 August 1983
 L.D.S.W.



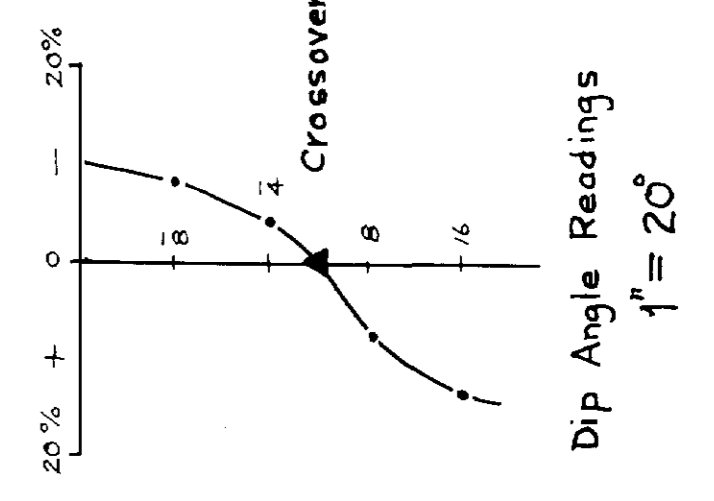
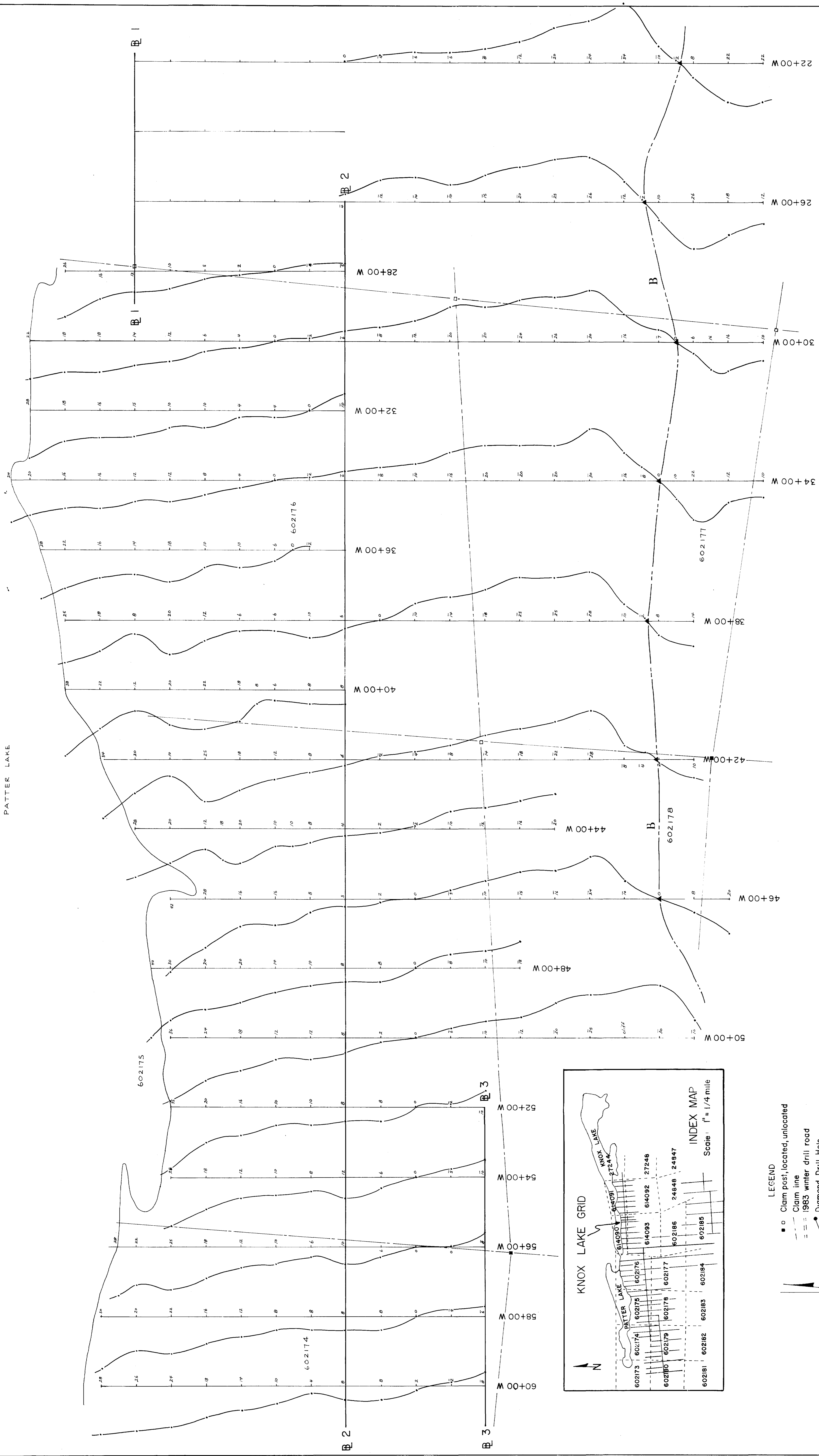
METALORE RESOURCES LTD.
IRWIN TOWNSHIP, ONT.

KNOX LAKE GRID
CENTER SHEET

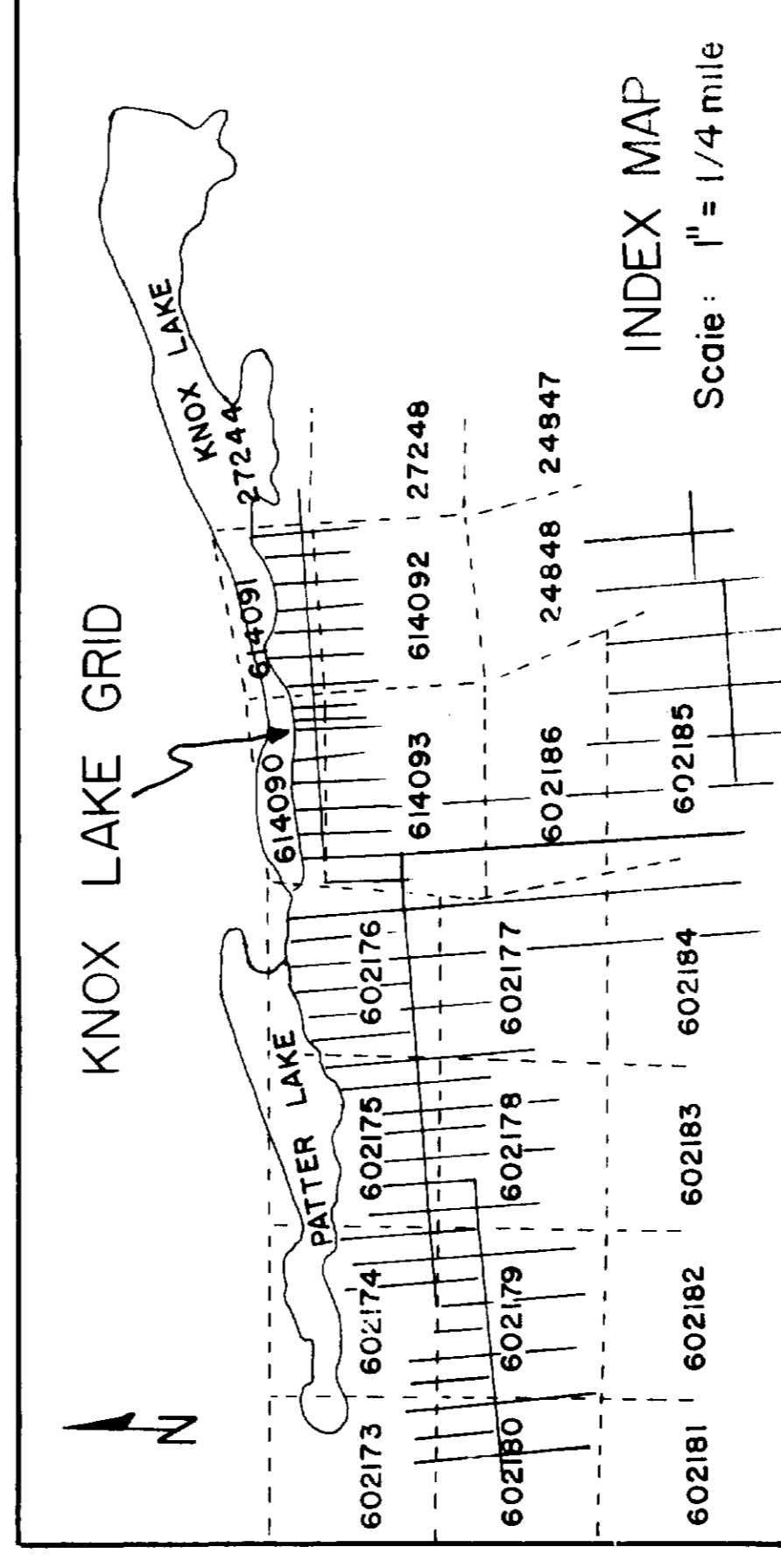
RADEM VLF-EM
DIP ANGLE

August 1983 67-4842
(2)

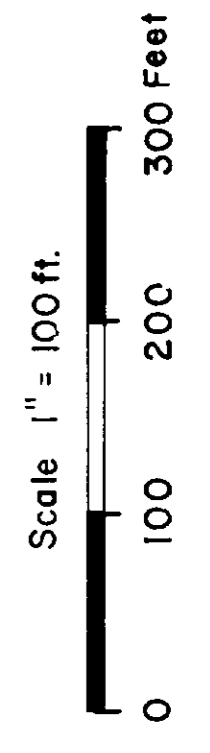
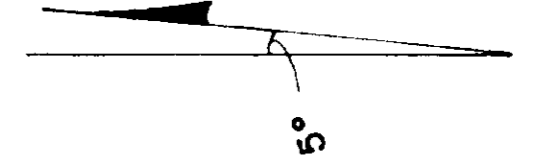
DM82-184



Transmitter
Seattle, Wash
18.6 KHz.

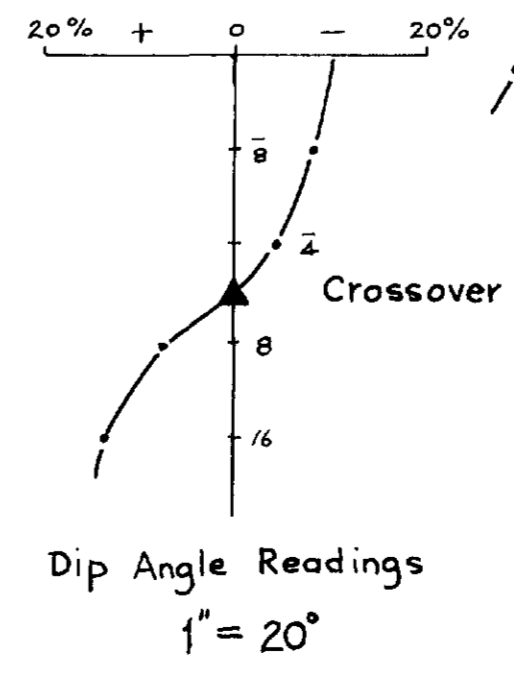
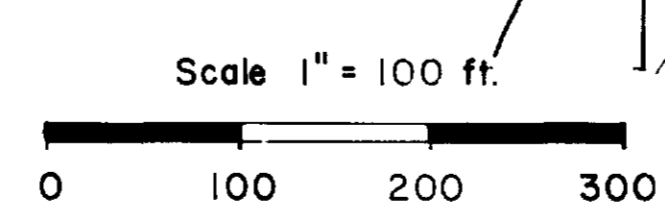
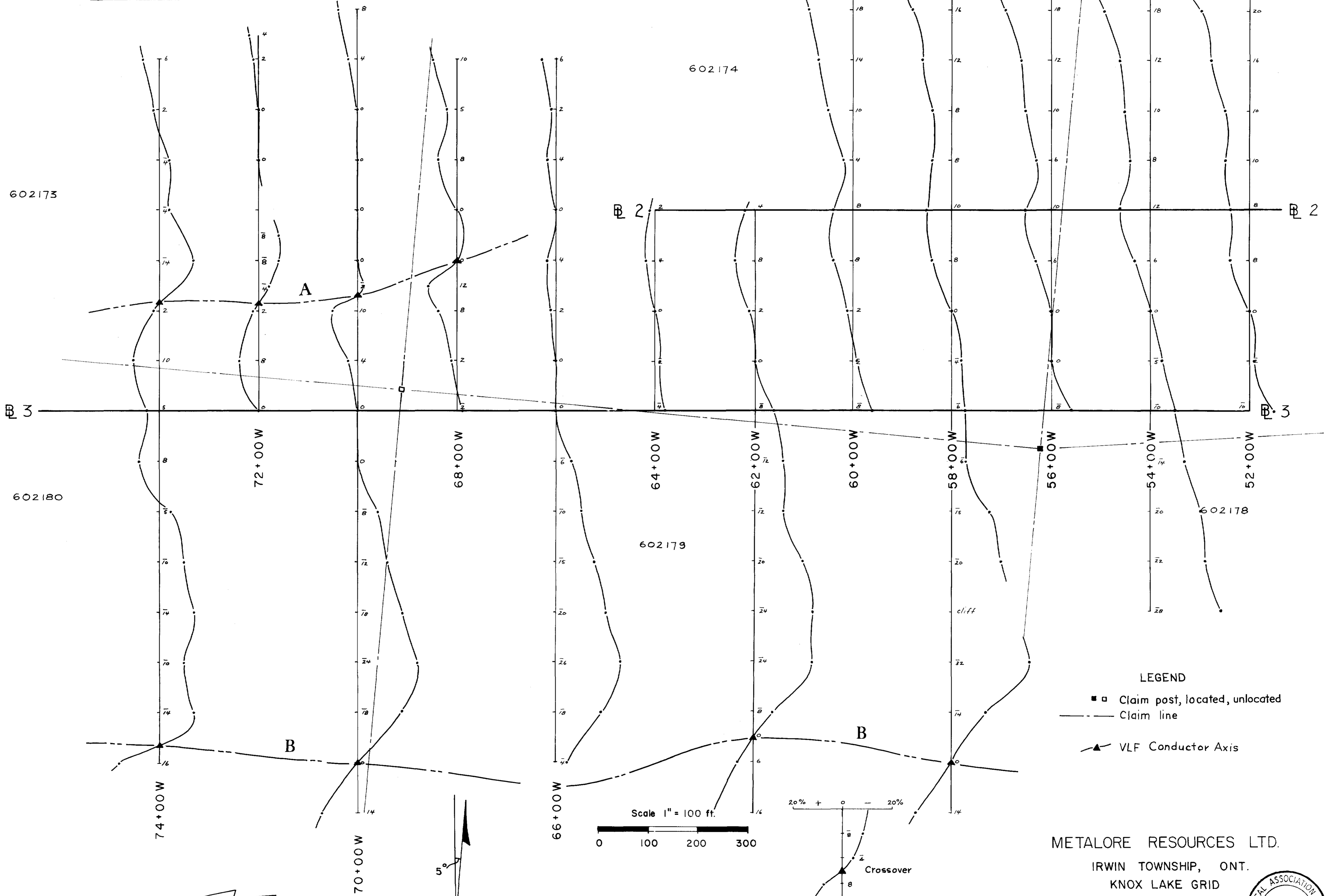
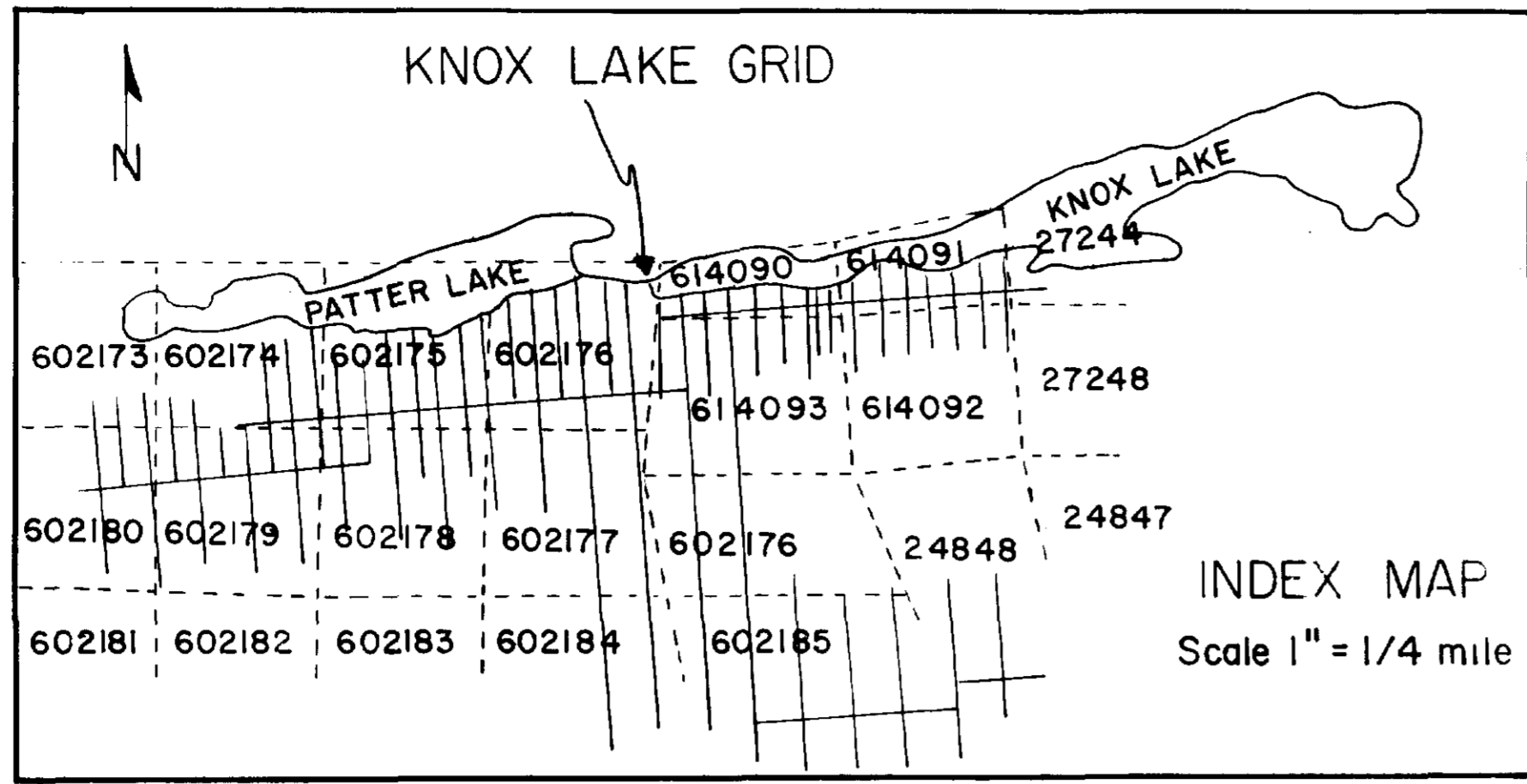


- LEGEND
- Claim post, located, unlocated
 - Claim line
 - 1983 winter drill road
 - Diamond Drill Hole
 - Swampy overburden
 - Cliff or rocky bluff
 - Old trench site
 - Conductor Axis



Scale 1" = 100 ft.





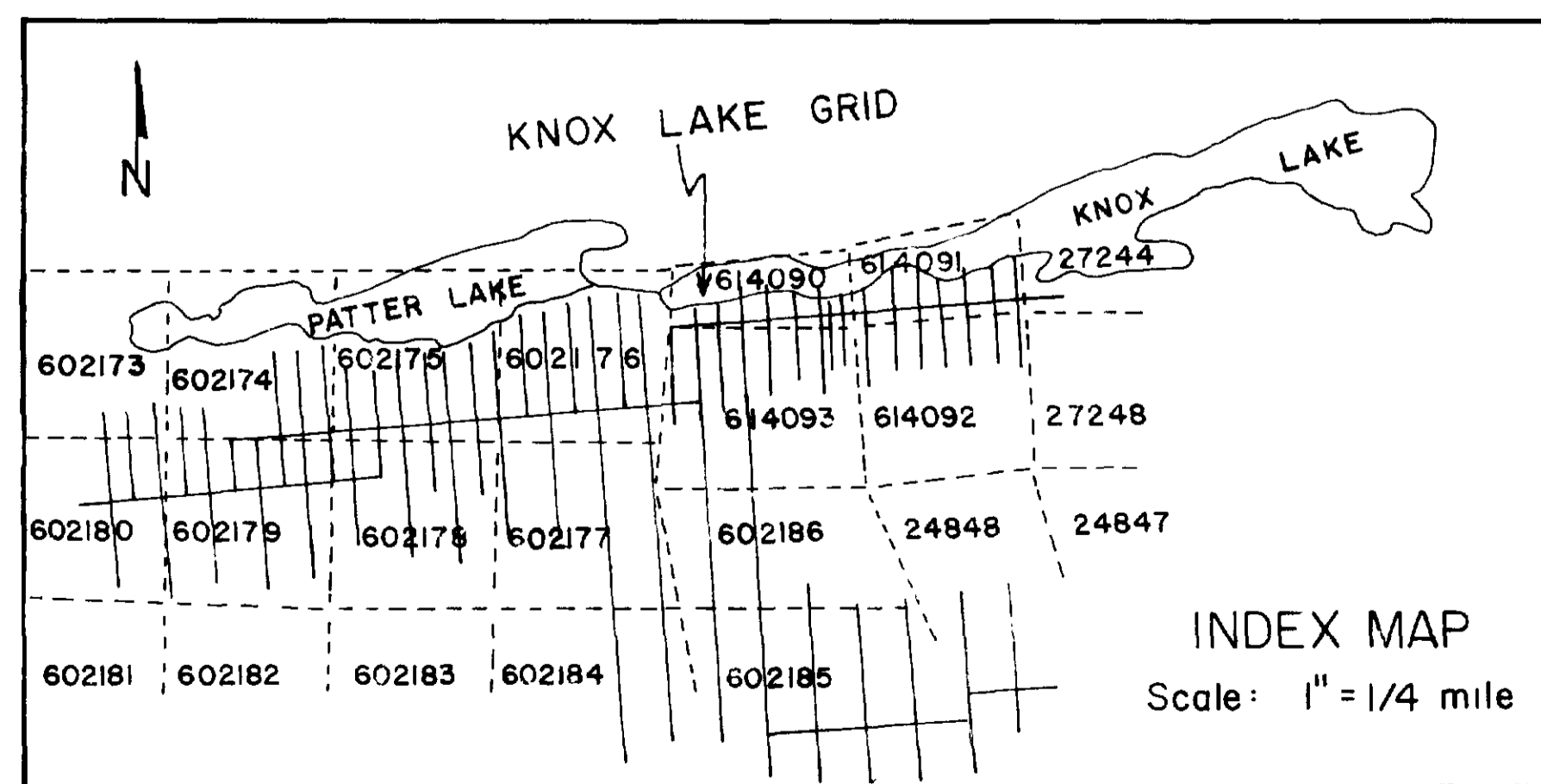
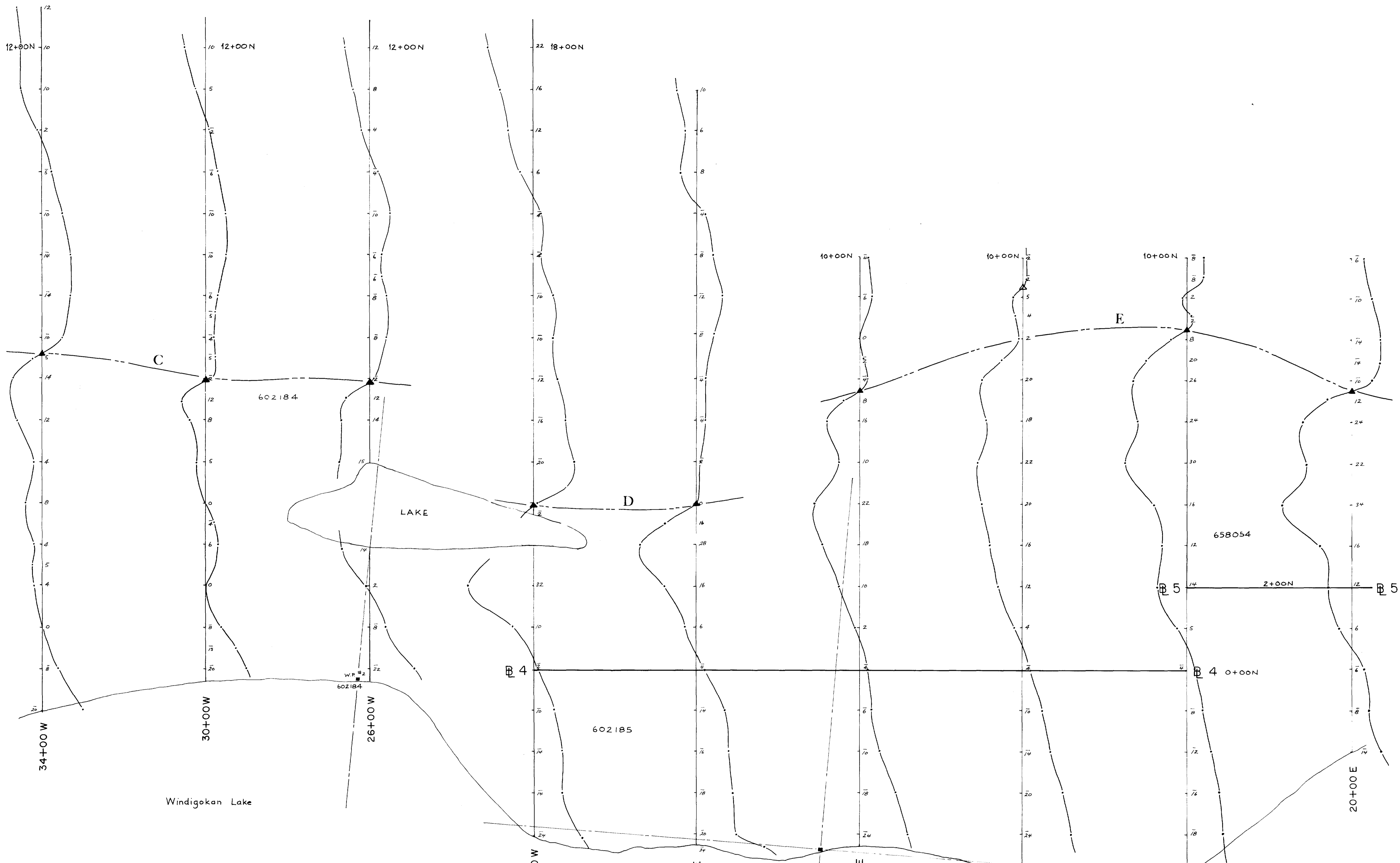
- LEGEND
- □ Claim post, located, unlocated
 - Claim line
 - ▲ VLF Conductor Axis

METALORE RESOURCES LTD.
IRWIN TOWNSHIP, ONT.
KNOX LAKE GRID
WEST SHEET
RADEM VLF-EM
DIP ANGLE

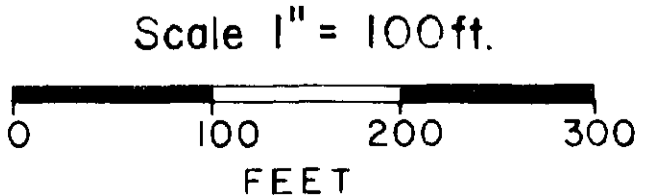
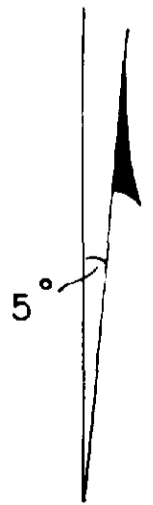


August 1983 63.4852
0M82-184 (2)
L.D.S Winter
Plate 9



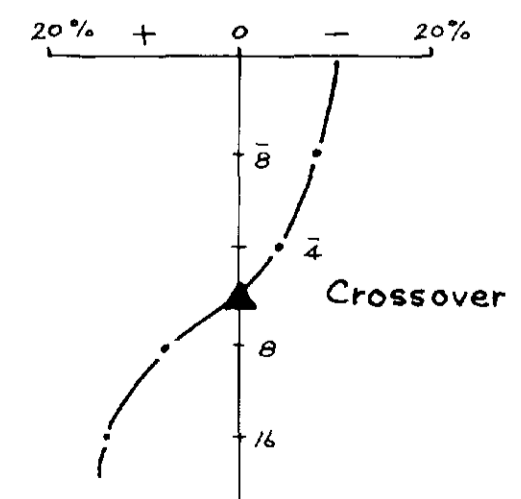


Transmitter
Seattle, Wash.
18.6 KHz



LEGEND

- Claim post, located, unlocated
- - - Claim line
- - - 1983 winter drill road
- ◆ Diamond Drill Hole
- ⊗ Swampy overburden
- ▬ Cliff or rocky bluff
- Tr. Old trench site
- ▲ VLF Conductor Axis



METALORE RESOURCES LTD.
IRWIN TOWNSHIP, ONT.
KNOX LAKE GRID
SOUTH SHEET
RADEM VLF-EM
DIP ANGLE



August 1983
63.4852
(2)
L.D.S. Winter
0M82-184
Plate 10

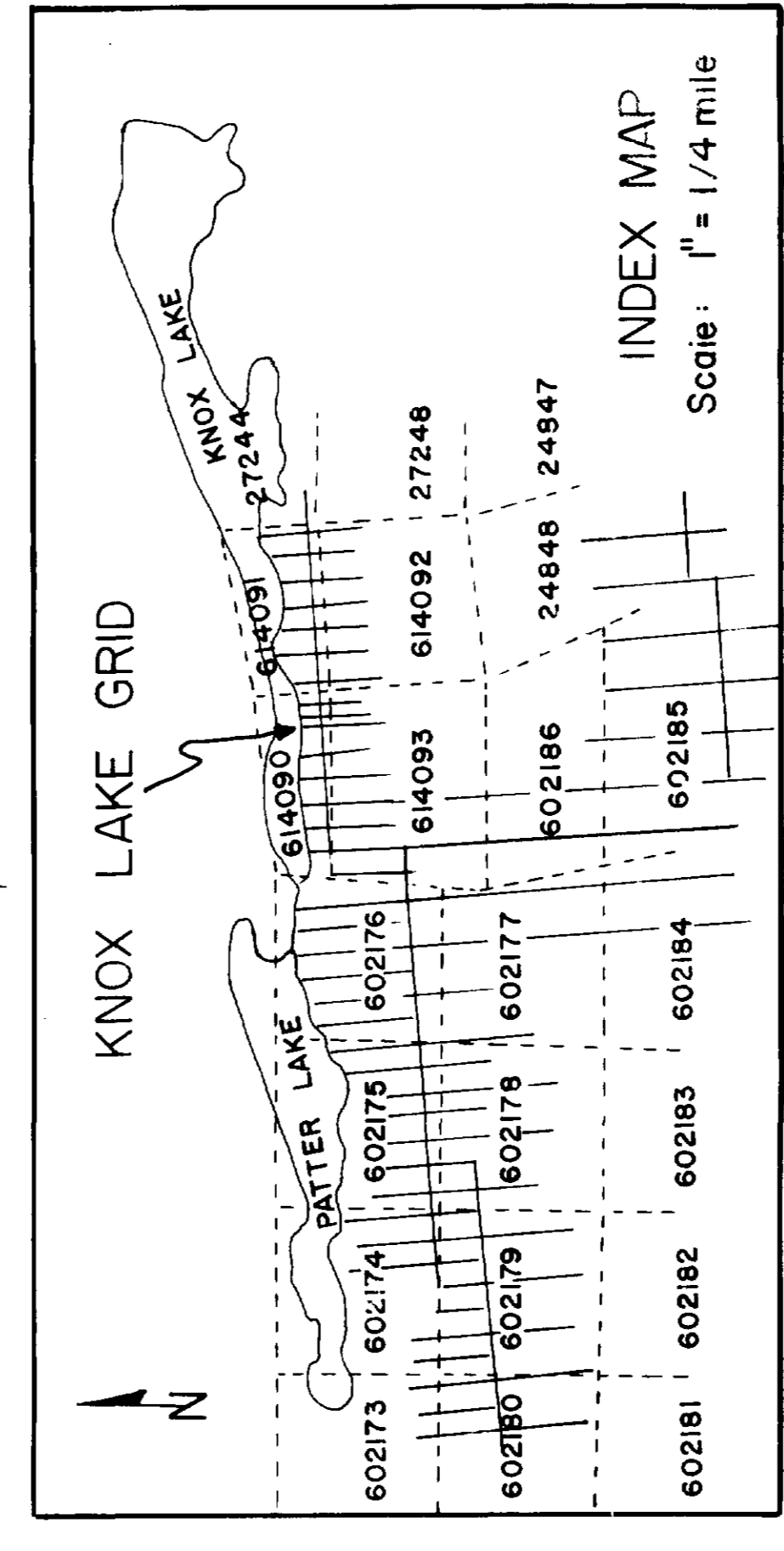
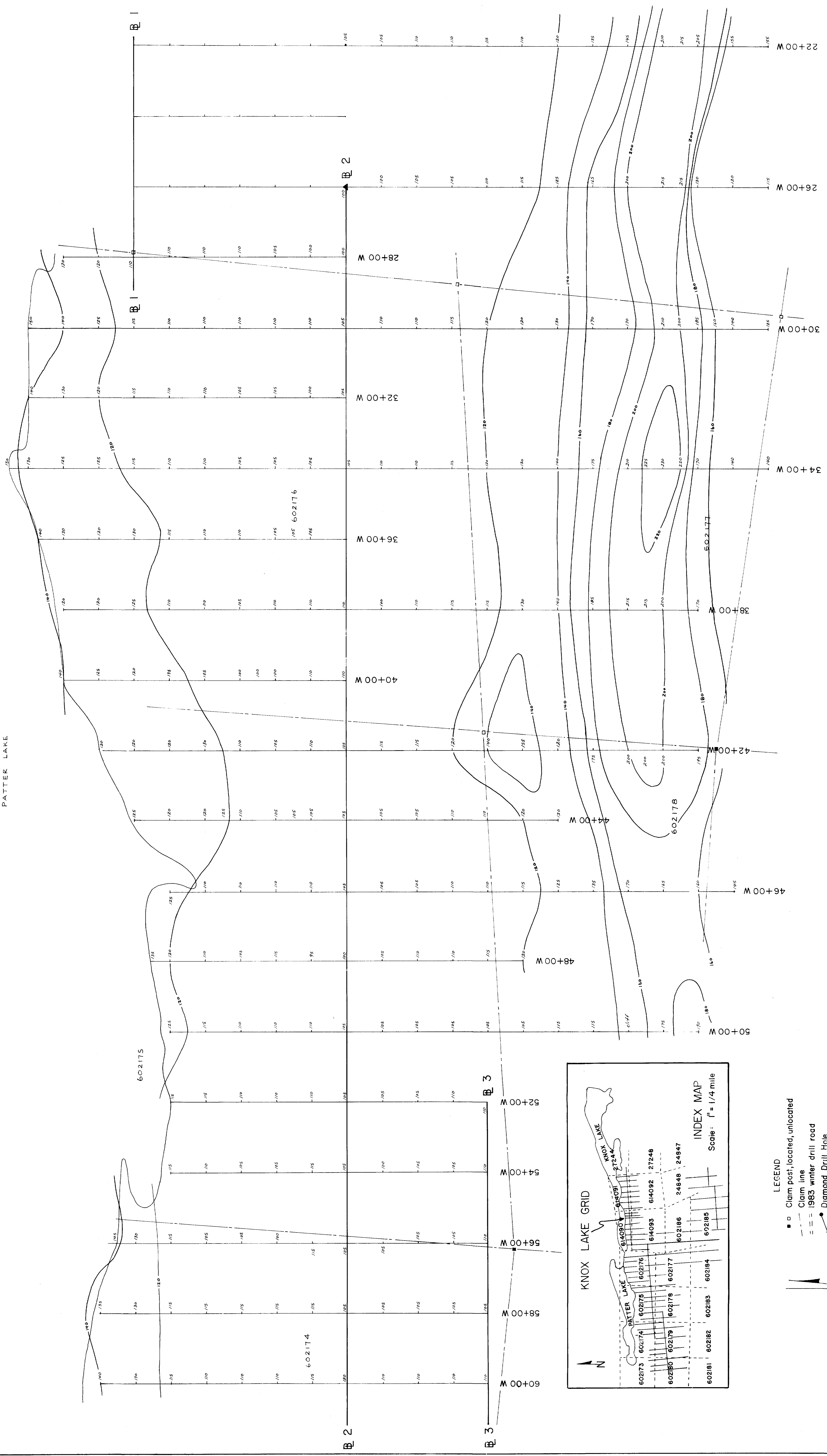


METALORE RESOURCES LTD.
 IRWIN TOWNSHIP, ONT.
 KNOX LAKE GRID
 CENTER SHEET
 HORIZONTAL FIELD STRENGTH
 RADEM
 VLF-EM
 August 1983 63,4852
 L.D.S. Winter
 (2)

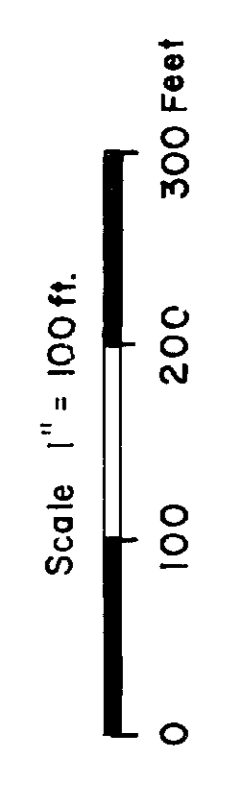
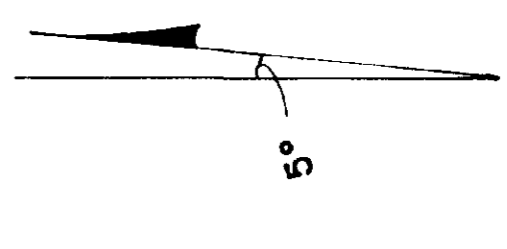
Plate 11

0MB2-184

PATTER LAKE



- LEGEND
- Claim pos., located, unlocated
 - Claim line
 - == 1983 winter drill road
 - Diamond Drill Hole
 - ⊕ Swampy overburden
 - ⚡ Cliff or rocky bluff
 - ⊠ Old trench site
 - HFS Contour line
 - Contour interval 20%
 - ▲ Base station L26W: BL 100%

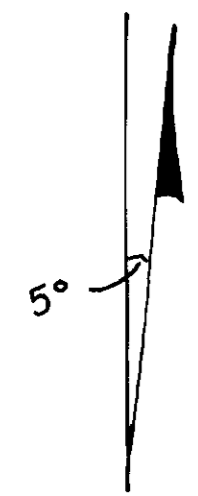
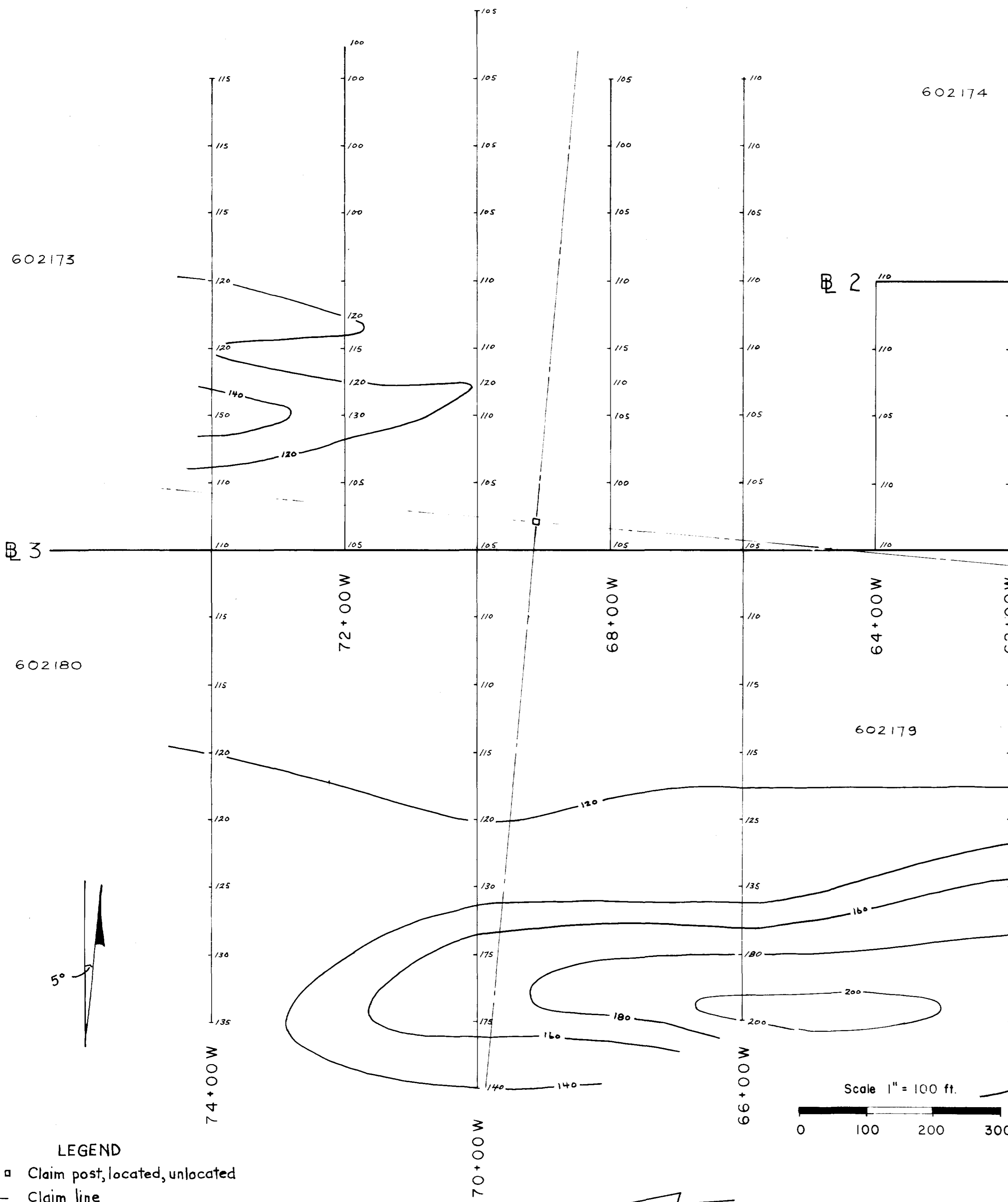
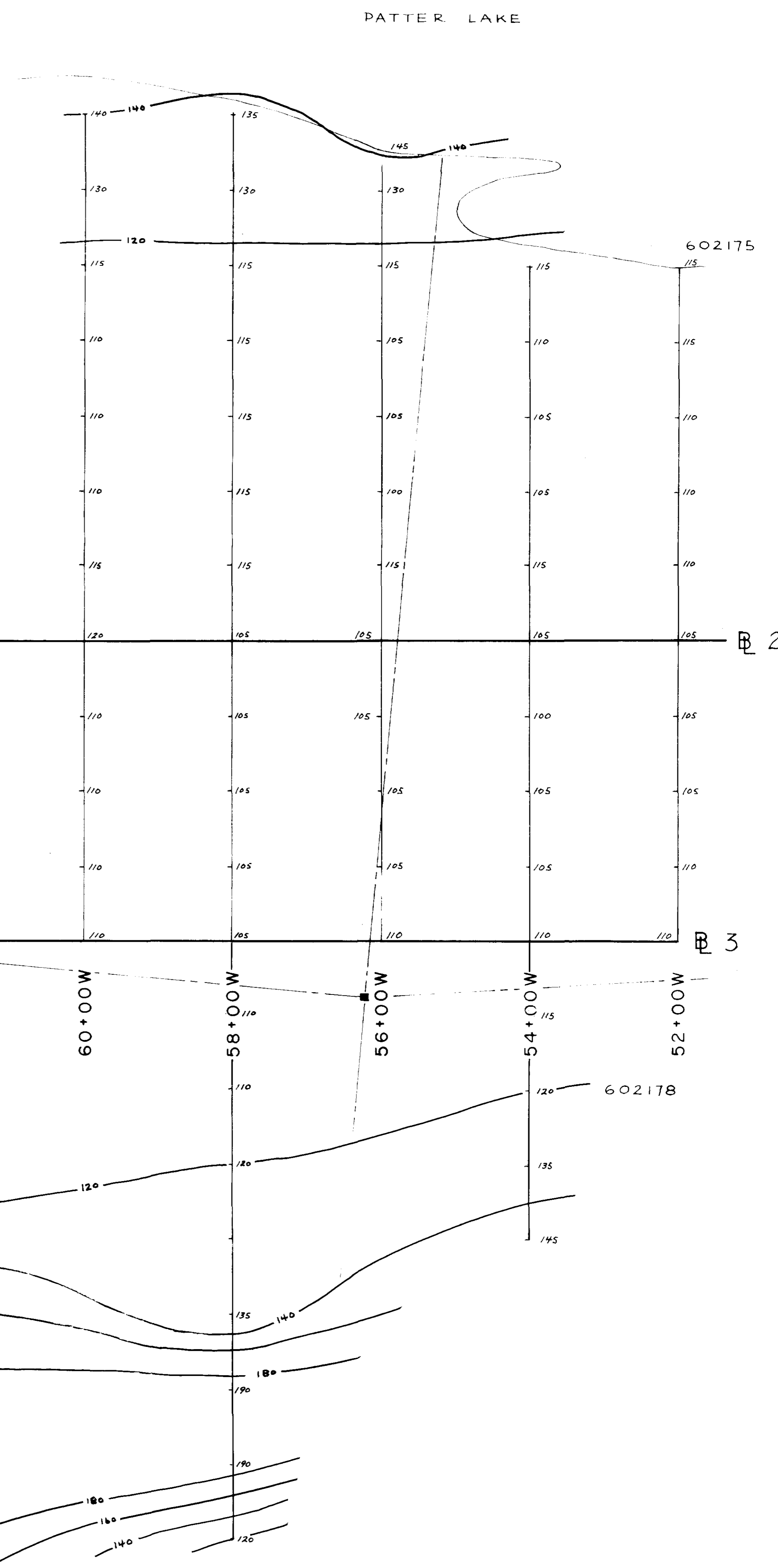
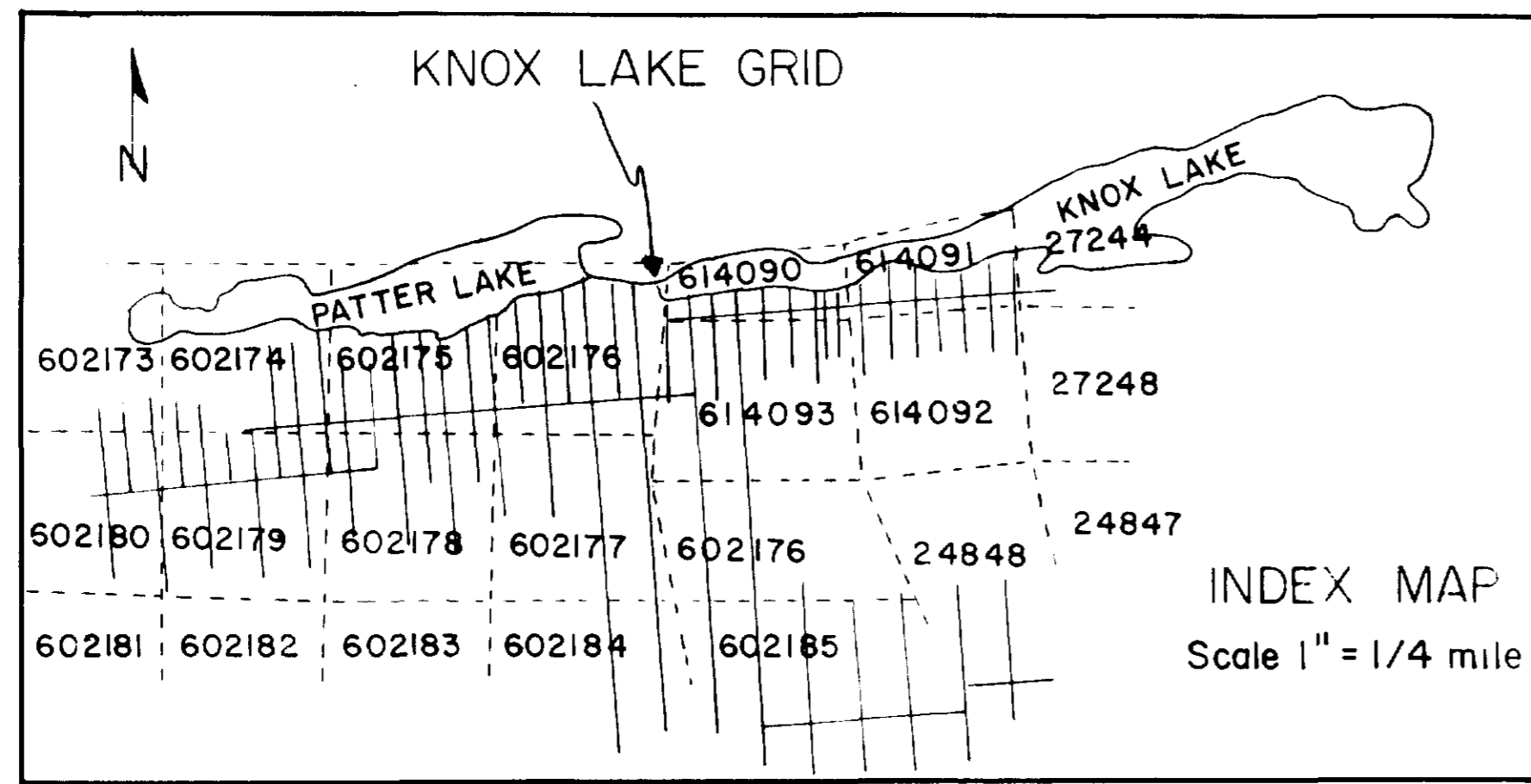


Scale 1" = 100 ft.

Transmitter
 Seattle, Wash.
 18.6 KHz.



5390

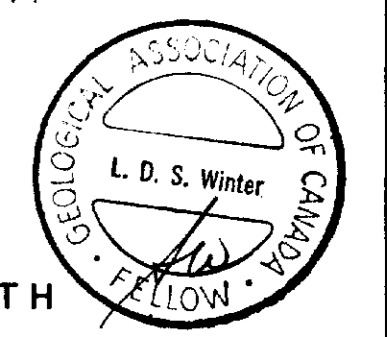


LEGEND

- □ Claim post, located, unlocated
- Claim line
- 120 — HFS contour line
Contour interval 20%
- ▲ Base station L26W:BL 100%

Transmitter
Seattle, Wash.
18.6 KHz.

METALORE RESOURCES LTD.
IRWIN TOWNSHIP, ONT.
KNOX LAKE GRID
WEST SHEET
RADEM VLF-EM
HORIZONTAL FIELD STRENGTH
August 1983
L.D.S. Winter

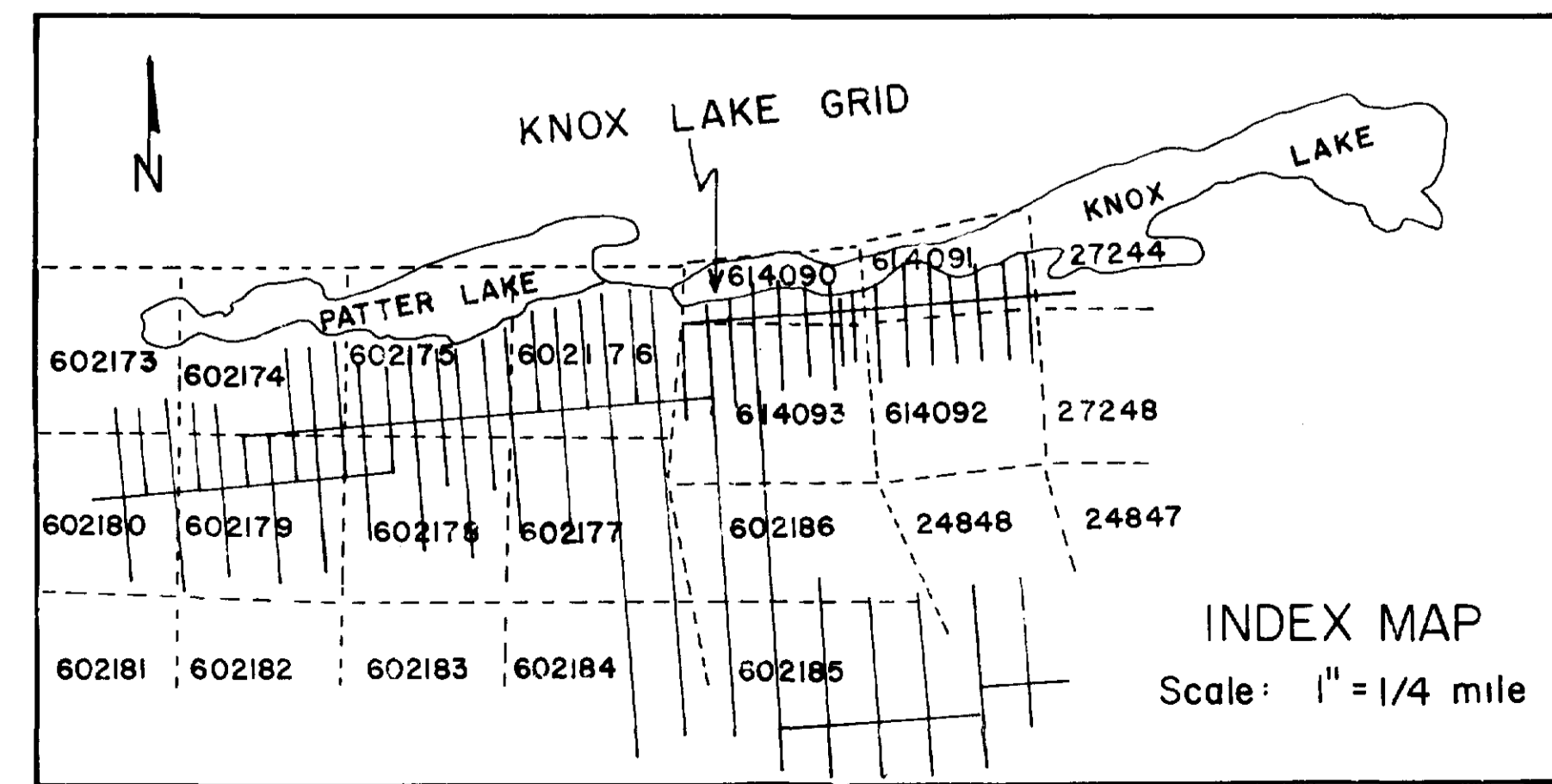
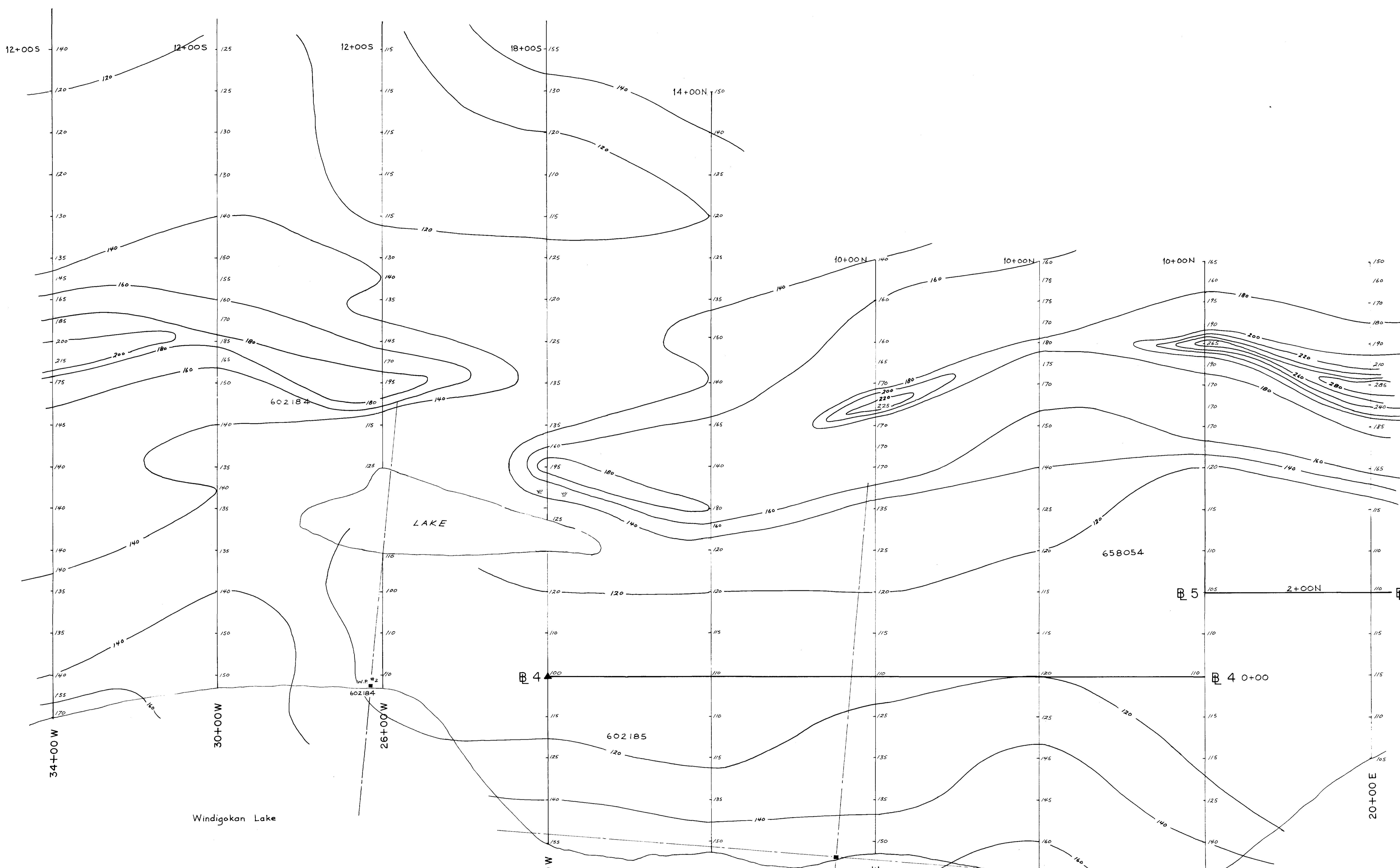


OM82-184

Plate 12

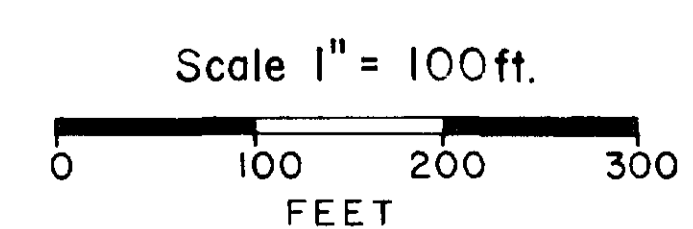
63.4852
(2)





- LEGEND**
- Claim post, located, unlocated
 - - - Claim line
 - - - 1983 winter drill road
 - Diamond Drill Hole
 - z Swampy overburden
 - ⌘ Cliff or rocky bluff
 - Old trench site
 - - - Contour line of HFS
 - Contour interval 20%
 - ▲ Base station L22W:BL4 - 100%

Transmitter
Seattle, Wash.
18.6 KHz.



METALORE RESOURCES LTD.
IRWIN TOWNSHIP, ONT.
KNOX LAKE GRID
SOUTH SHEET
RADEM - VLF EM
HORIZONTAL FIELD STRENGTH



August 1983

L.D.S. Winter

OM82-184

Plate 13

63.4852
(2)



LEGEND

- DDH Vertical Projection
- ⊠ Claim post surveyed
- Claim line

DDH No. FOOTAGE Au(oz/ton)

M-2-83	4.0	0.12
M-15	6.0	0.14
A	12.0	0.10
B	4.7	0.13
C	2.2	0.30
D	1.6	0.29
E	3.2	0.30
A	3.1	0.12
B	1.8	0.20
A	1.8	0.14
B	4.3	0.11
B	4.8	0.15
A	7.5	0.12
M-21	5.5	0.30
M-22	4.4	0.22
B	4.7	0.10
D	9.8	0.12
A	13.11	0.11
M-27	15.0	0.13
M-28	9.0	0.11
M-29	9.9	0.11
M-30	5.0	0.25
X-7	1.3	0.14
X-8	2.0	0.79
B-5	1.9	0.12
A	7.0	0.11
B-7	4.0	0.13
B-8	2.0	0.14
B-9	4.1	0.20
B-10	1.0	0.10
B	5.0	0.24
A	1.3	0.11
B	5.0	0.11
C	2.5	0.10
A	10.6	0.11
B	2.0	0.14
G	1.3	0.20
F	5.0	0.19
h	9.0	0.70
A	0.9	0.12
B	3.5	0.29
B	4.9	0.14
B	4.1	0.14
C	4.0	0.37
D	5.8	0.12
F	3.1	0.15
G	4.4	0.18
A	2.5	0.13
B	5.0	0.10
C	1.3	0.12
D	9.1	0.12
A	3.3	0.10
A	4.0	0.14
B	22.5	0.17
B-27	9.0	0.29
D	4.4	0.11
E	4.7	0.14
A	5.6	0.13
A	5.6	0.30

Note: All of the above 'A', 'B', 'C's do not denote any one horizon for any specific rock type.
 ○ - Quartz-Carbonate Vens

SCALE: 1 inch = 100 feet

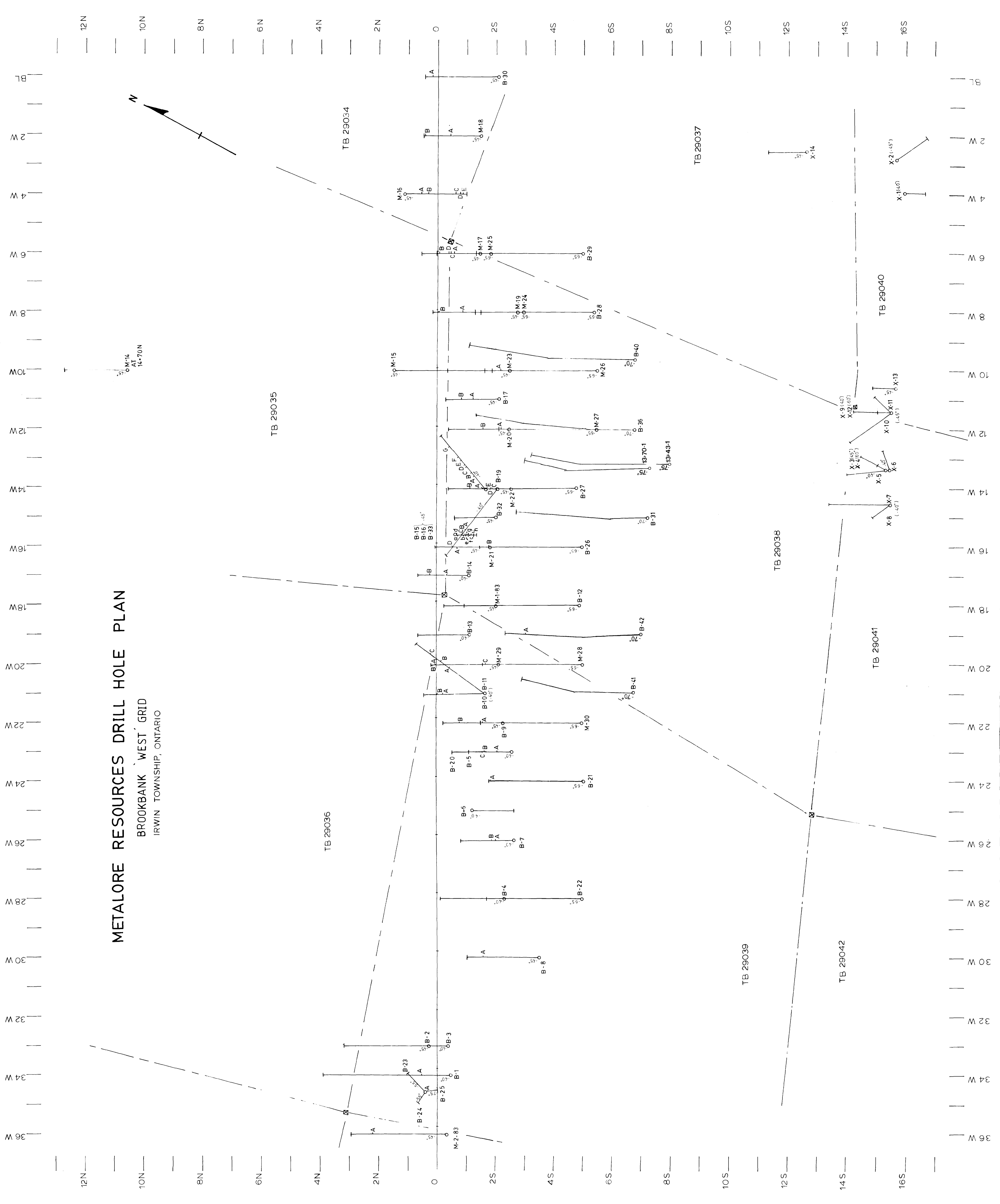
B. KOWALSKI

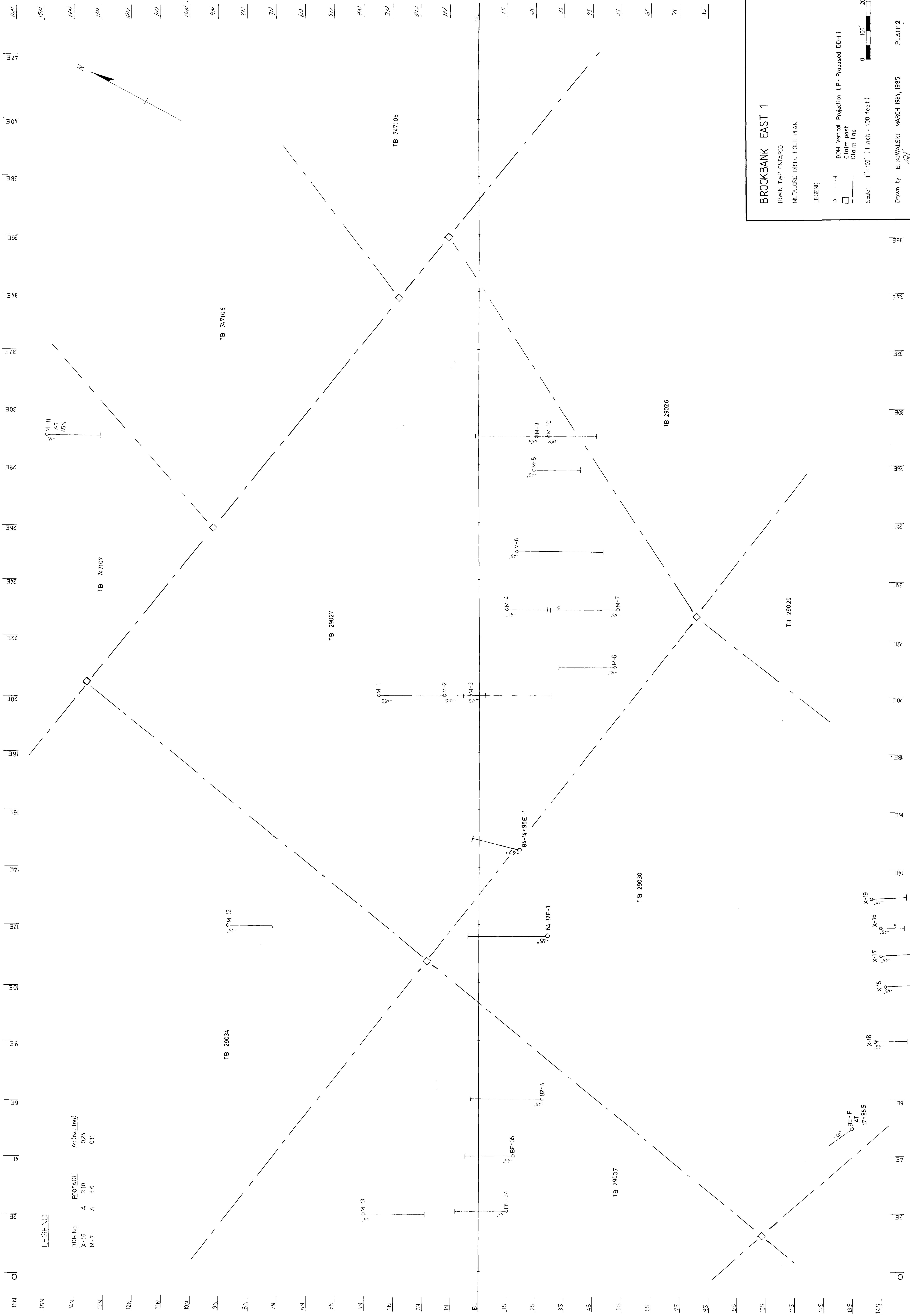
63-4652

PLATE I

METALORE RESOURCES DRILL HOLE PLAN

BROOKBANK WEST GRID
 IRWIN TOWNSHIP, ONTARIO



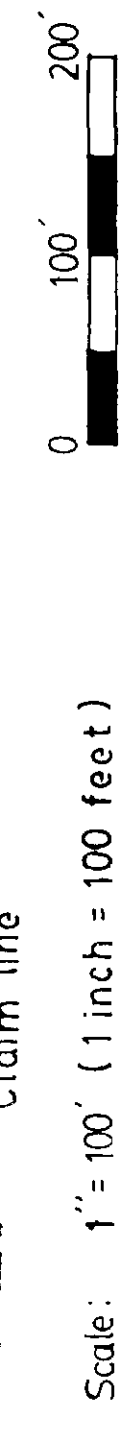


LEGEND

DDH No.	FOOTAGE	Au (oz./ton)
X-16	A 3.10	0.24
M-7	A 5.6	0.11

BROOKBANK EAST 1
 IRWIN TWP ONTARIO
 METALORE ORELL HOLE PLAN

LEGEND
 DDH Vertical Projection (P - Proposed DDH)
 Claim post
 Claim line
 Scale: 1" = 100' (1 inch = 100 feet)



Drawn by: B. KOWALSKI MARCH 1981, 1985. **PLATE 2**

METALORE RESOURCES LTD.

63-4852
(3)

VERTICAL SECTION BASE LINE

2N

1N

BL

1S

2S

|

|

|

|

|

B-30

Dior

BQ

1000' ELEV.

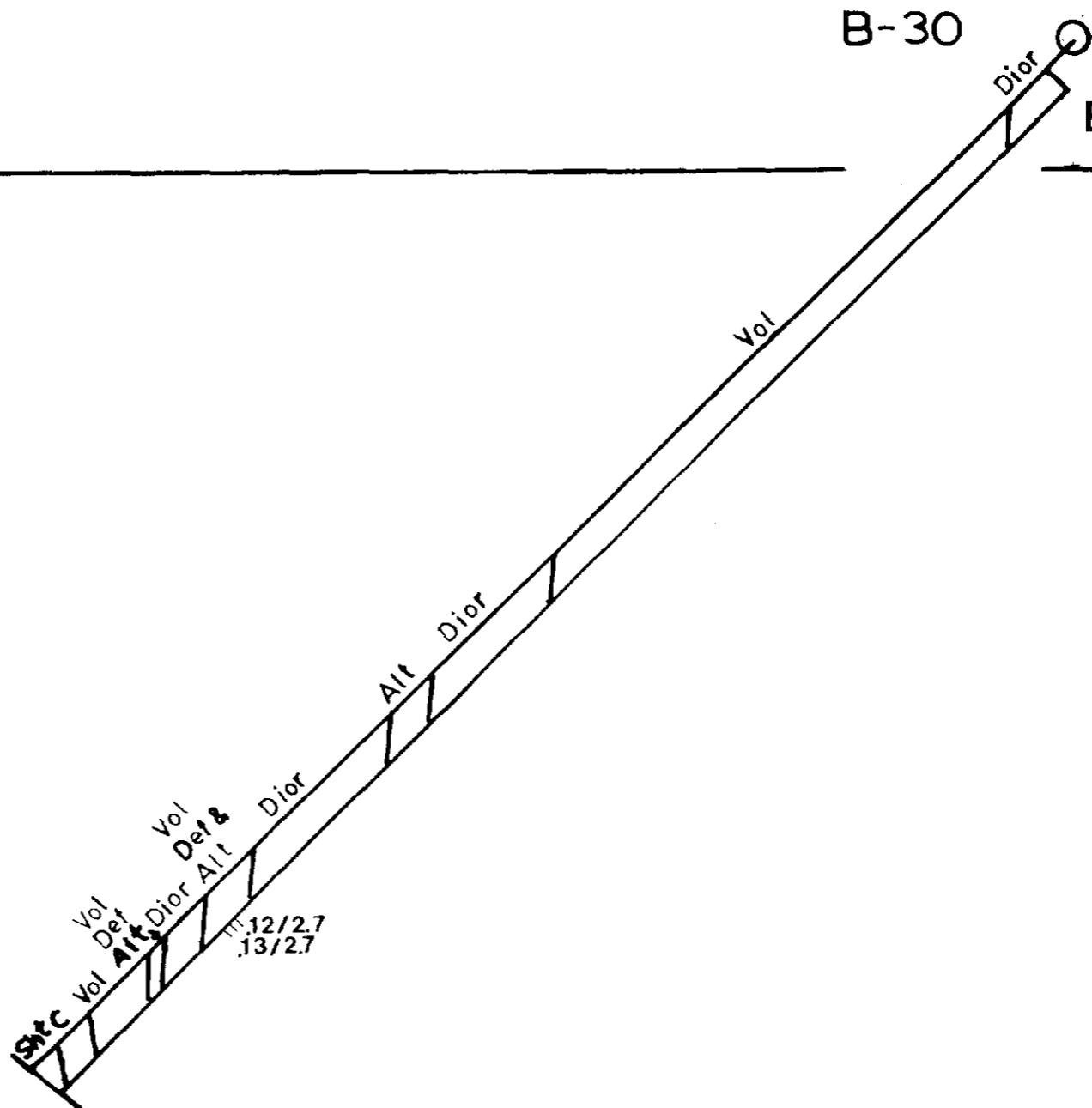
ABBREVIATIONS

Sht	Schist
C	Conglomerate
Vol	Pillowed Mafic Volcanic
Dior	Diorite
Def	Deformed
Alt	Altered

LEGEND

.05/34 Au oz/ton//feet.inches

SCALE: 1" = 40'



42E12NW0080 63.4852 SANDRA

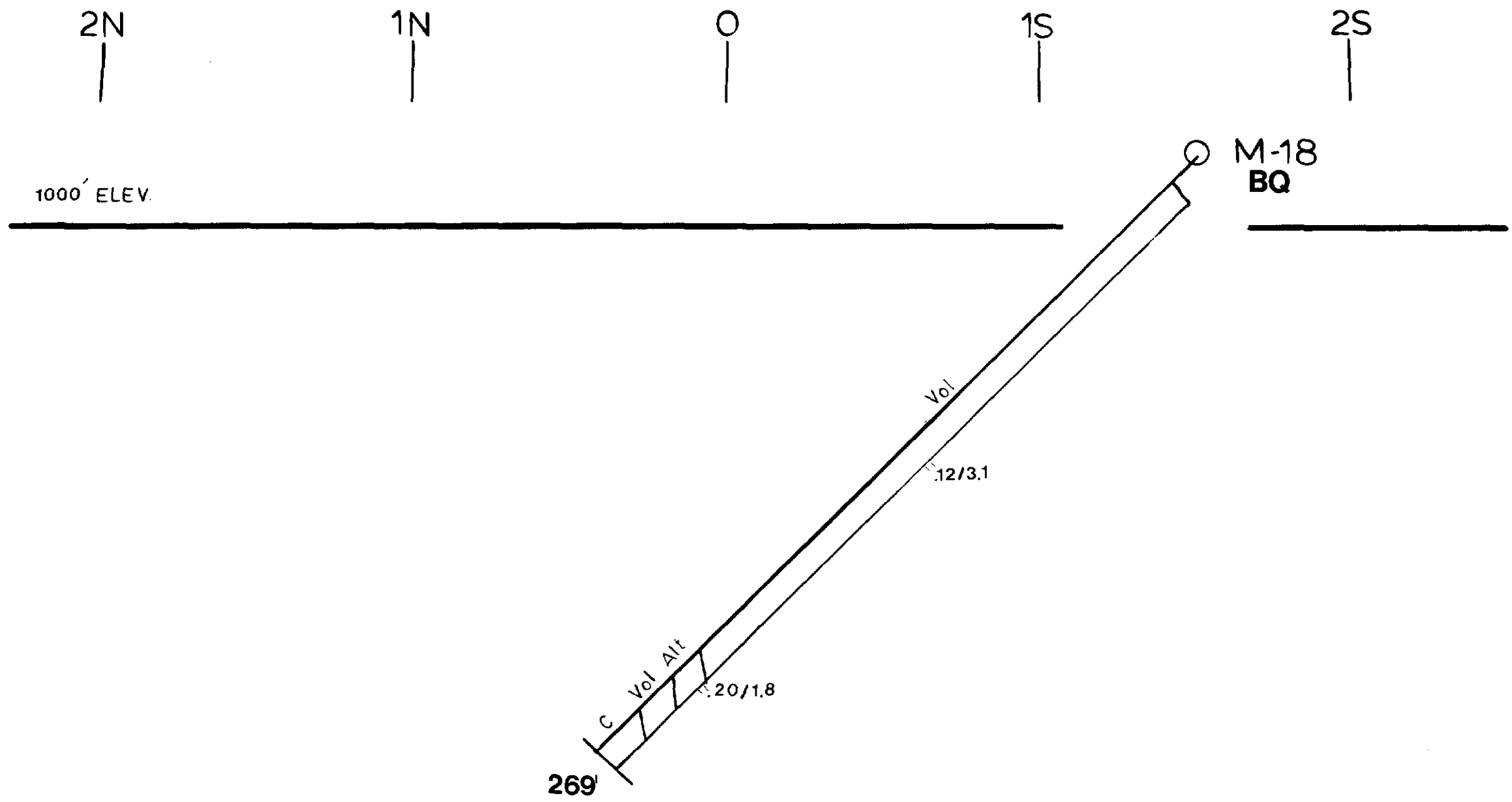
380

B. KOWALSKI

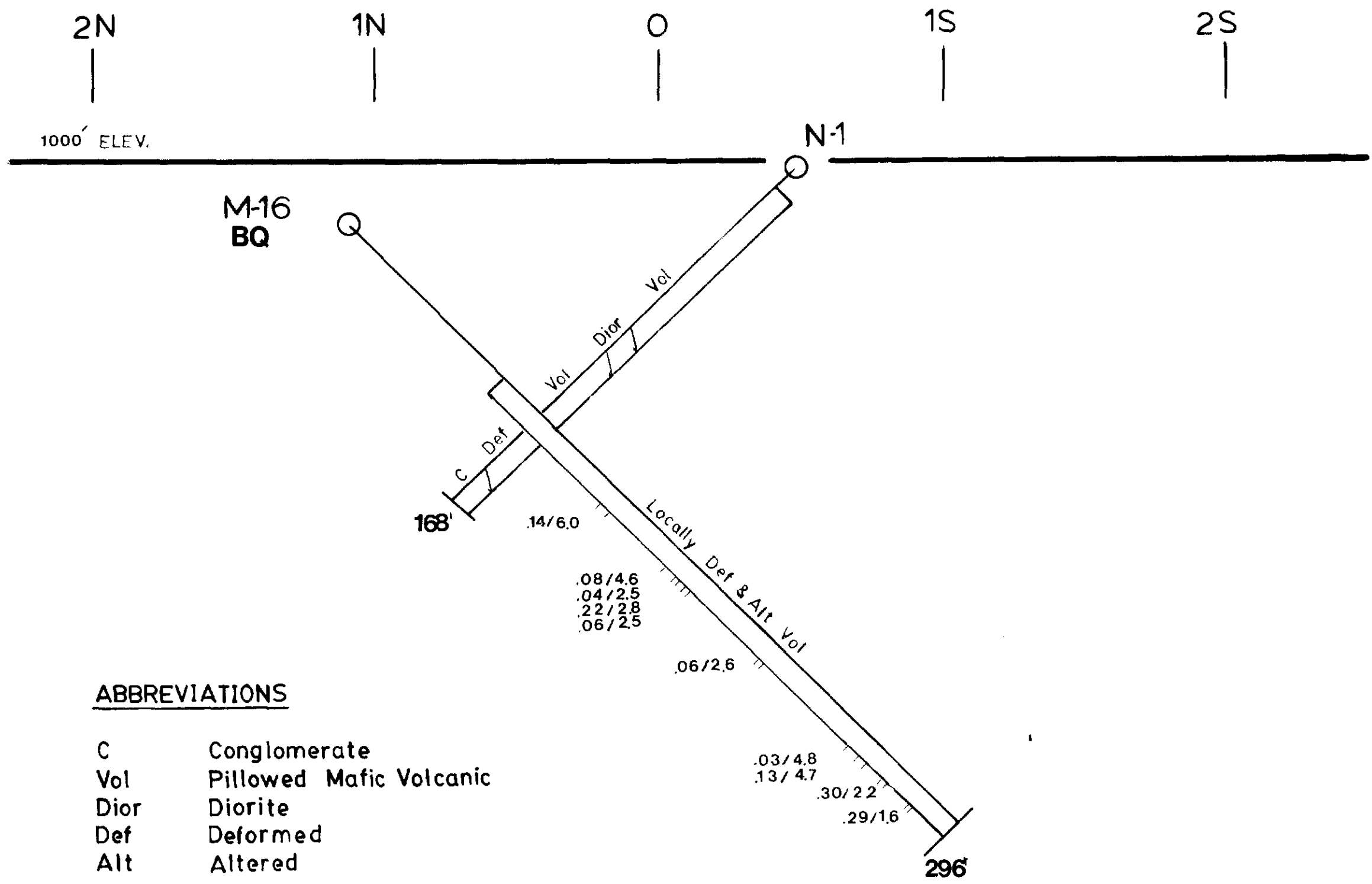
BK

PLATE 1

VERTICAL SECTION LINE 2W



VERTICAL SECTION LINE 4W



ABBREVIATIONS

- C Conglomerate
- Vol Pillowed Mafic Volcanic
- Dior Diorite
- Def Deformed
- Alt Altered

LEGEND: .05/34 Au oz/ton// feet inches

SCALE: 1" = 40'



42E12NW0000 63.4852 SANDRA

390

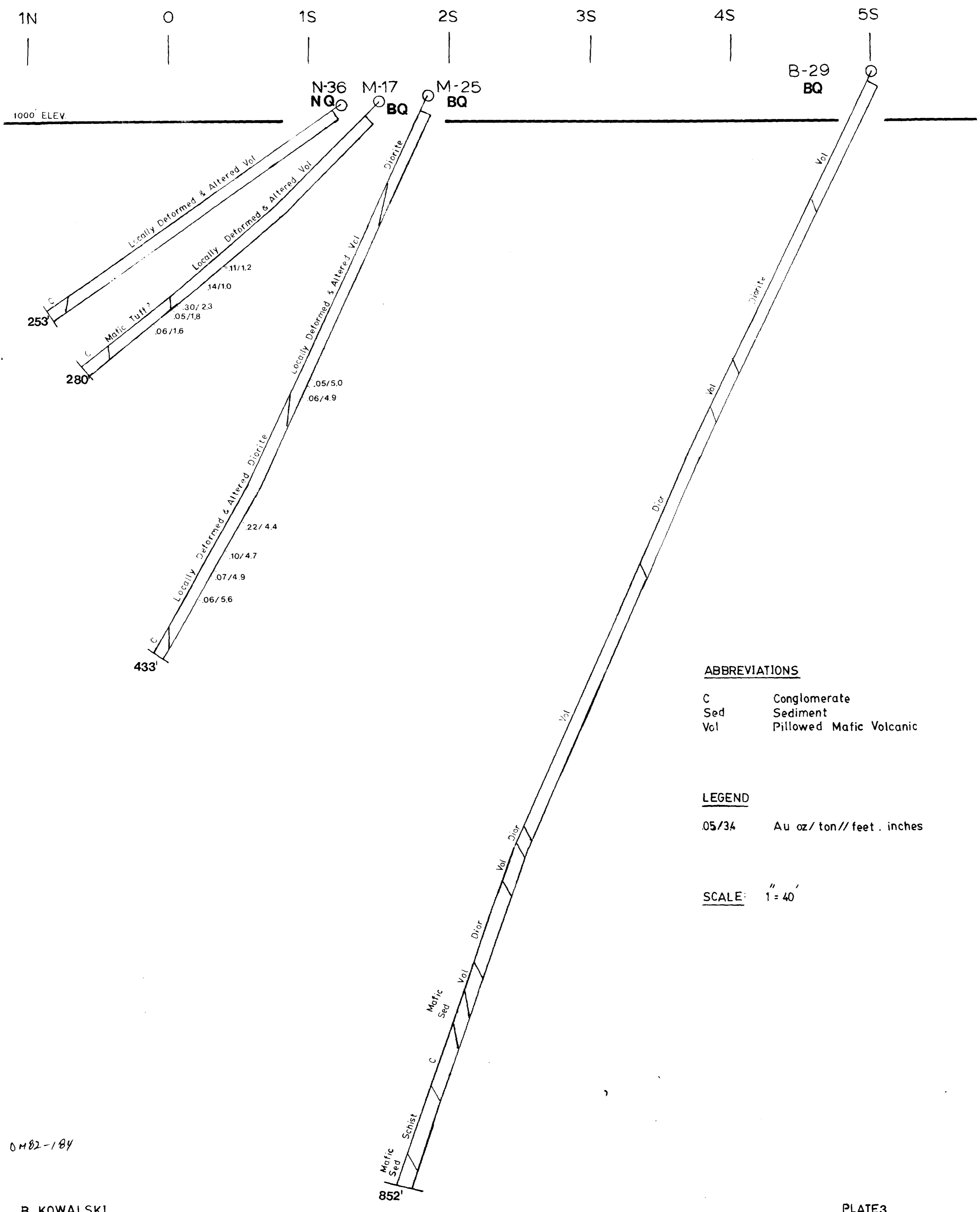
B. KOWALSKI *BK*

OM 82-184

PLATE 2

63.4852
(3)

VERTICAL SECTION LINE 6W



OM82-184

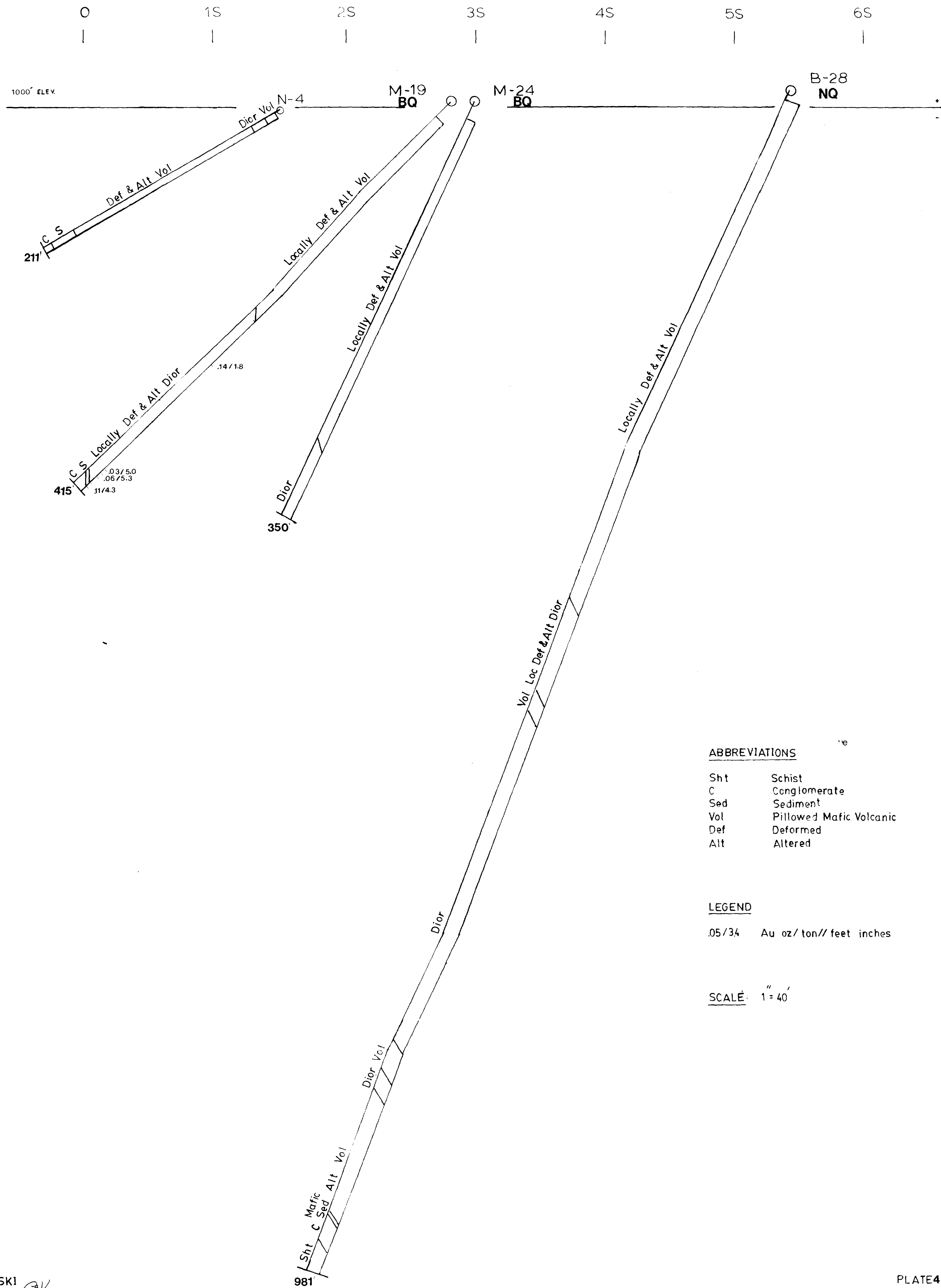
B. KOWALSKI

PLATE3



VERTICAL SECTION LINE 8W

63-4852
(3)



ABBREVIATIONS

Sht	Schist
C	Conglomerate
Sed	Sediment
Vol	Pillowed Mafic Volcanic
Def	Deformed
Alt	Altered

LEGEND

.05/34 Au oz/ ton// feet inches

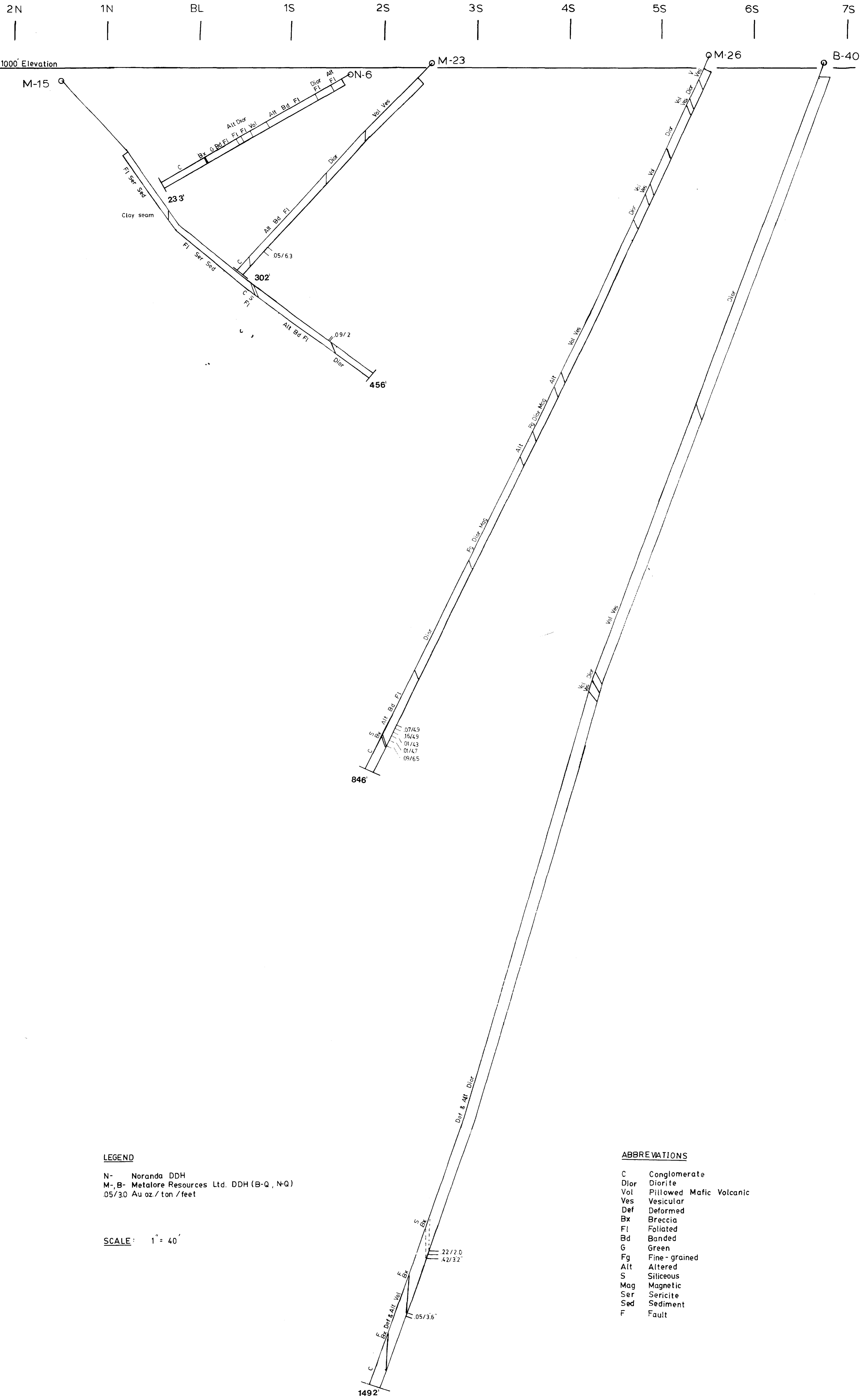
SCALE: 1" = 40'

B. KOWALSKI

PLATE 4



VERTICAL SECTION LINE 10 W



LEGEND

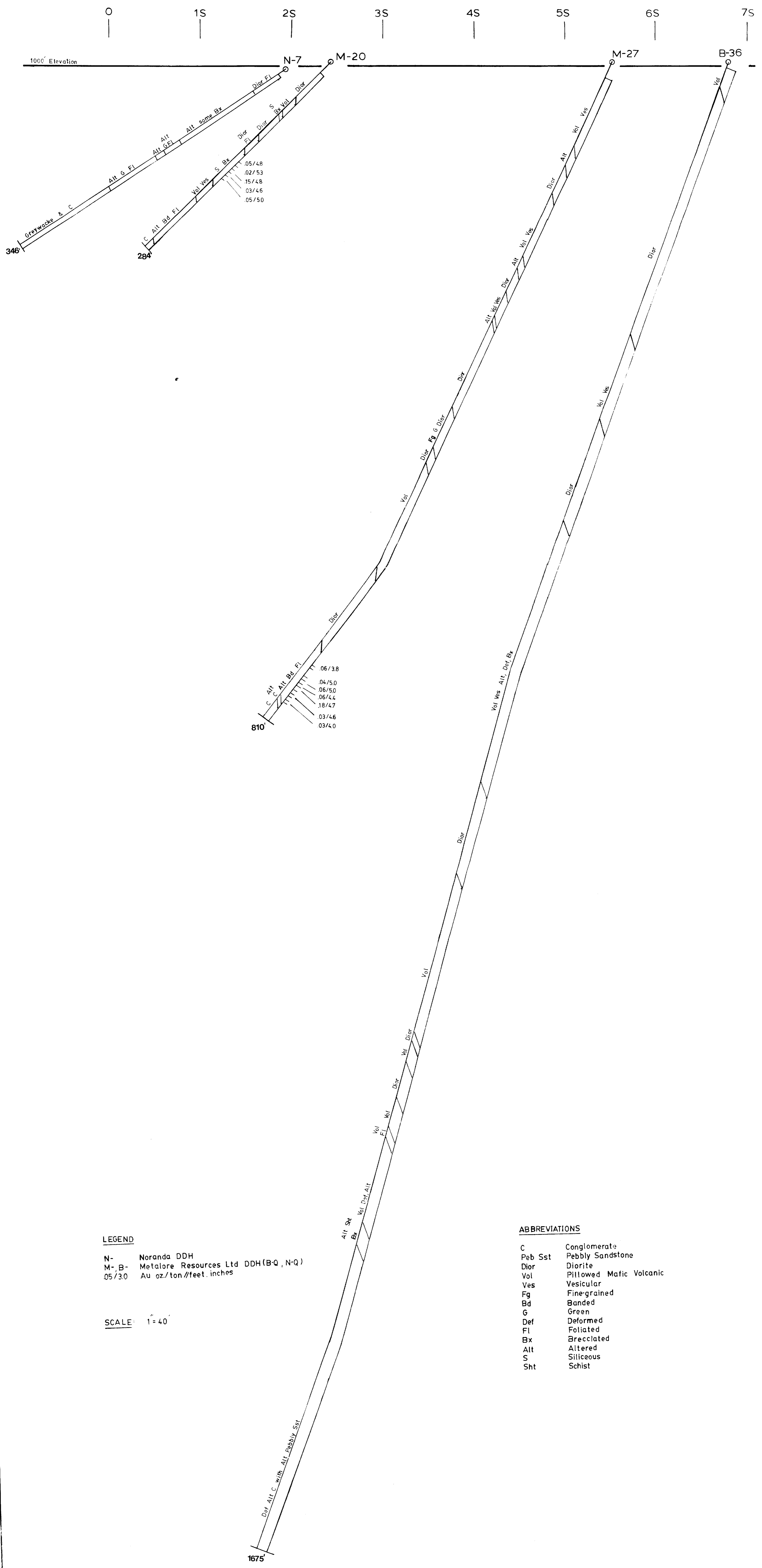
N- Noranda DDH
M-, B- Metalore Resources Ltd. DDH (B-Q, N-Q)
05/30 Au oz./ ton / feet

SCALE: 1" = 40'

ABBREVIATIONS

- C Conglomerate
- Dior Diorite
- Vol Pillowed Mafic Volcanic
- Ves Vesicular
- Def Deformed
- Bx Breccia
- Fl Foliated
- Bd Banded
- G Green
- Fg Fine-grained
- Alt Altered
- S Siliceous
- Mag Magnetic
- Ser Sericite
- Sed Sediment
- F Fault





LEGEND

N- Noranda DDH
M-, B- Metalore Resources Ltd DDH (B-Q, N-Q)
05/30 Au oz./ton//feet. inches

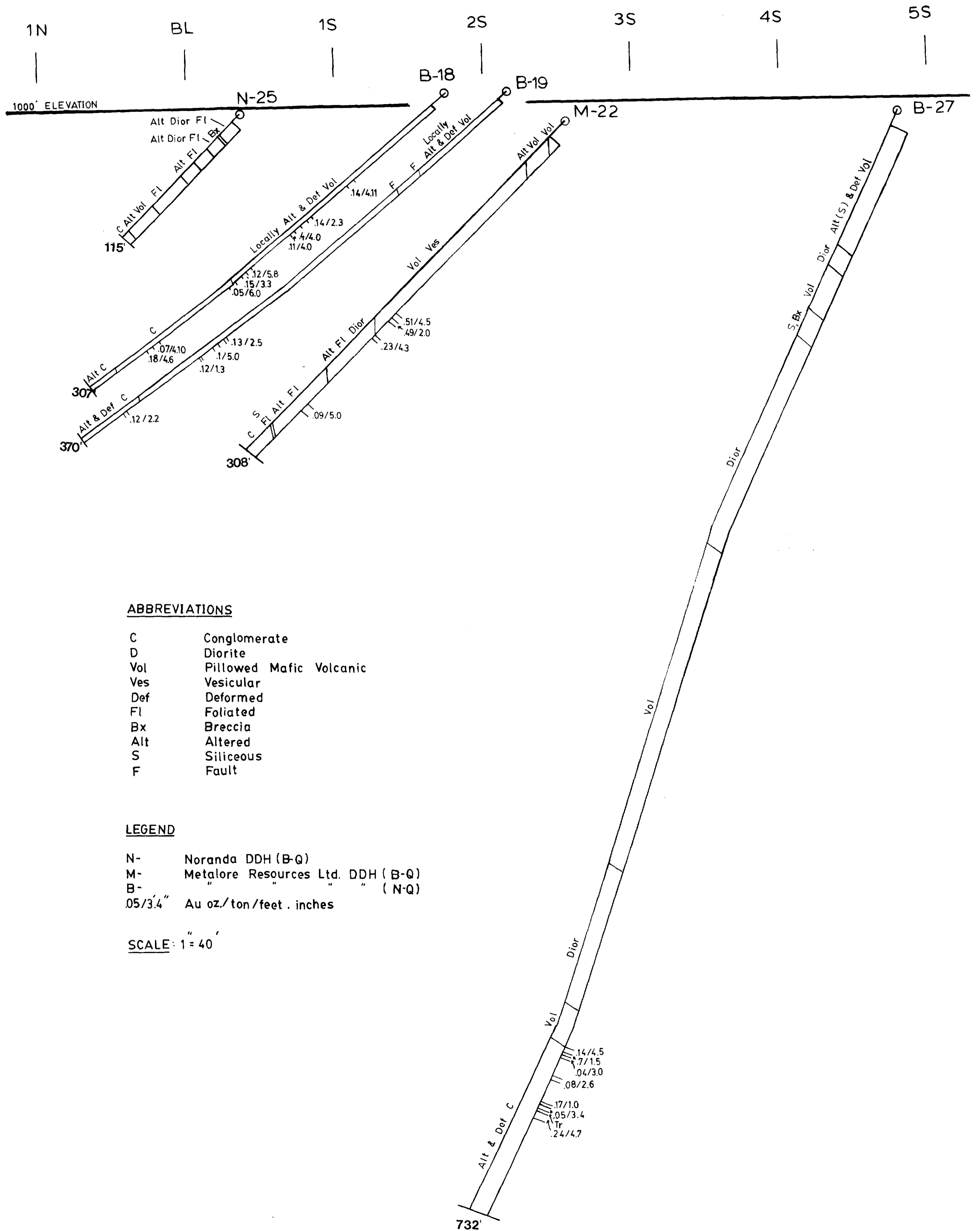
SCALE: 1" = 40'

ABBREVIATIONS

C Conglomerate
Peb Sst Pebbly Sandstone
Dior Diorite
Vol Pillowed Mafic Volcanic
Ves Vesicular
Fg Fine-grained
Bd Banded
G Green
Def Deformed
Fl Foliated
Bx Brecciated
Alt Altered
S Siliceous
Sht Schist



VERTICAL SECTION LINE 14W



ABBREVIATIONS

C	Conglomerate
D	Diorite
Vol	Pillowed Mafic Volcanic
Ves	Vesicular
Def	Deformed
Fl	Foliated
Bx	Breccia
Alt	Altered
S	Siliceous
F	Fault

LEGEND

N- Noranda DDH (B-Q)
M- Metalore Resources Ltd. DDH (B-Q)
B- " " " " (N-Q)
.05/.3.4" Au oz./ton/feet . inches

SCALE: 1" = 40'

B. KOWALSKI *BK*

OM 82-184

PLATE 7

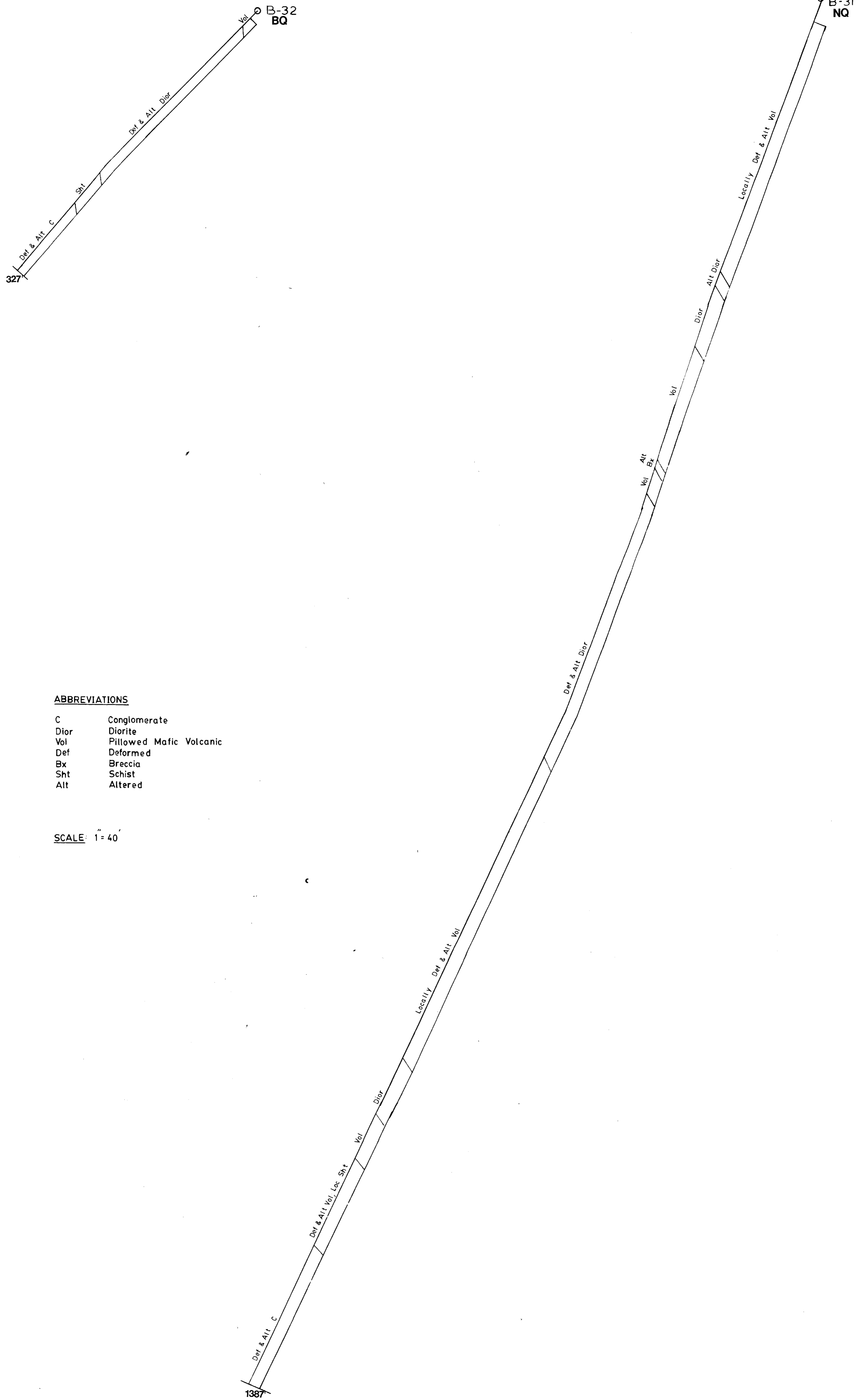
63-4852
(3)



VERTICAL SECTION LINE 15W

0 1S 2S 3S 4S 5S 6S 7S

1000' Elevation



ABBREVIATIONS

- C Conglomerate
- Dior Diorite
- Vol Pillowed Mafic Volcanic
- Def Deformed
- Bx Breccia
- Sht Schist
- Alt Altered

SCALE: 1" = 40'

B. KOWALSKI *[Signature]*

PLATE 8



BROOKBANK WEST GRID

VERTICAL SECTION

METALORE RESOURCES LTD.

LINE 15+54.4W

LINE 15+55W

LINE 15+56W

0

1S

2S

1000 Elev.

0

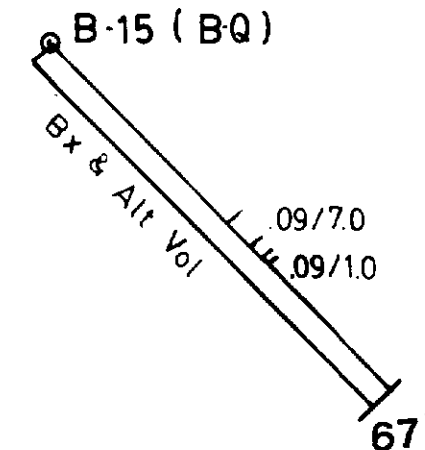
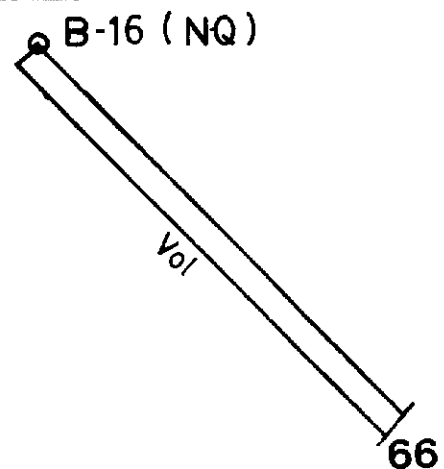
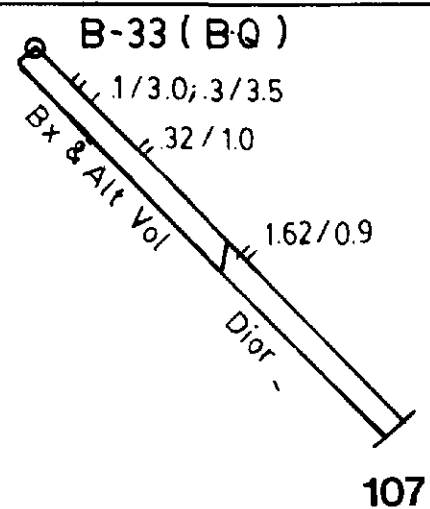
1S

2S

0

1S

2S



ABBREVIATIONS: Dior Diorite
 Vol Pillowed Mafic Volcanic
 Alt Altered
 Bx Breccia

SCALE: 1" = 40'

LEGEND: Au oz/ton/feet. inches
.05/3.4

OMB2-184

R KOWALSKI

PLATE 8A



42E12NW0080 63.4852 SANDRA

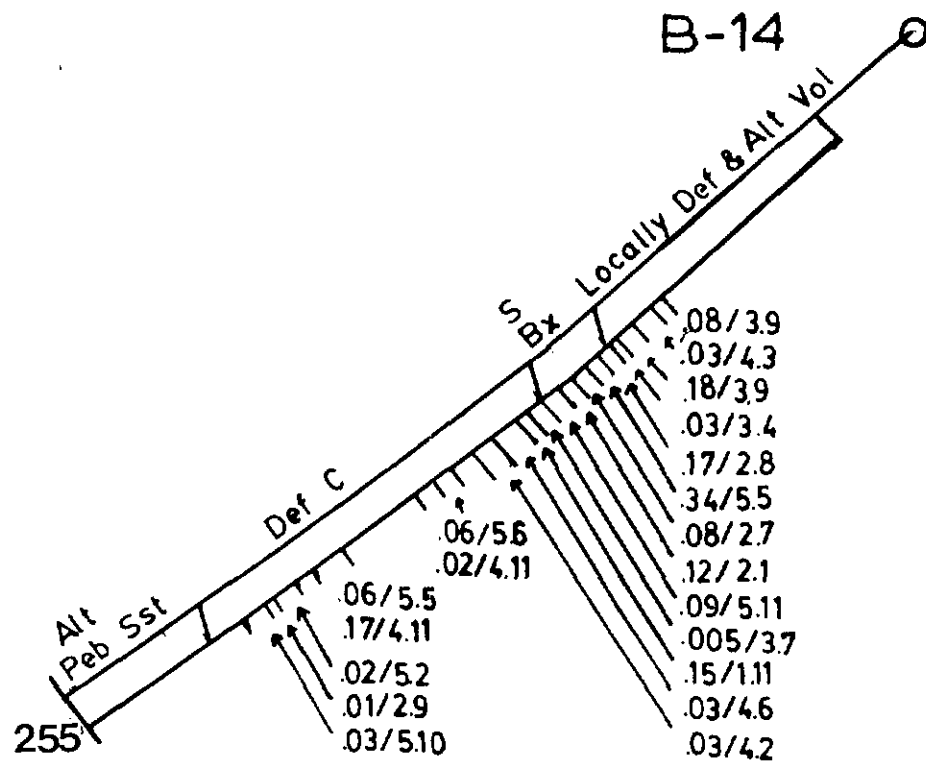
VERTICAL SECTION LINE 17W

1N

O

1S

1000' Elev.



ABBREVIATIONS

Peb Sst	Pebbly Sandstone
C	Conglomerate
Vol	Pillowed Mafic Volcanic
Def	Deformed
Bx	Breccia
Alt	Altered
S	Siliceous

LEGEND

.05/3.4 Au oz/ton//feet.inches

SCALE: 1" = 40'

OM82-184

B. KOWALSKI

BK

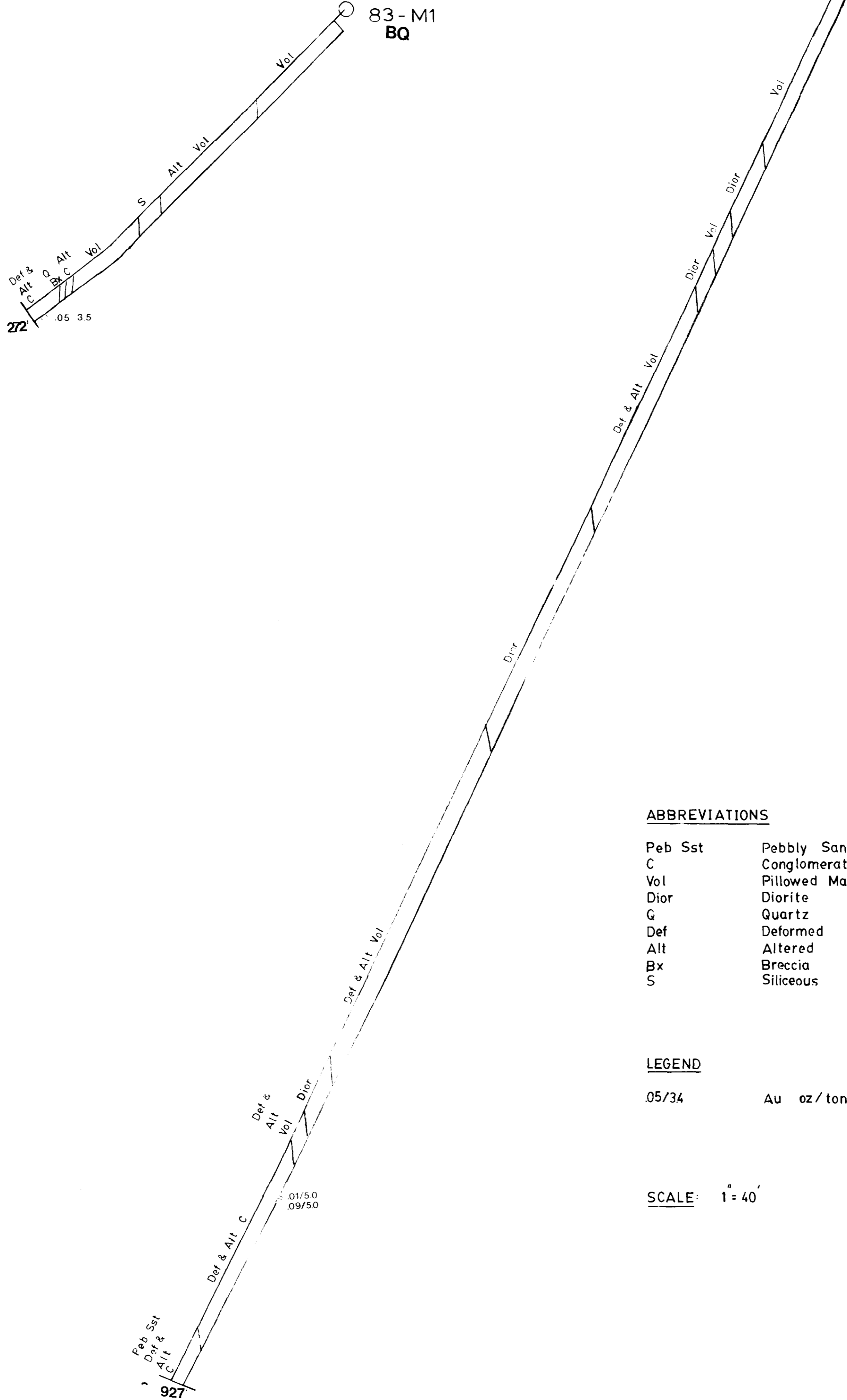
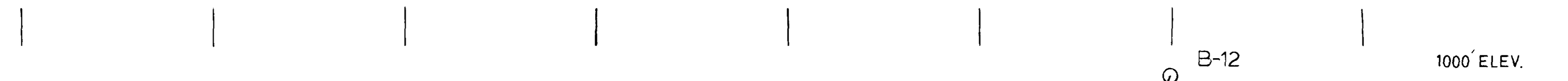
63.4852
(31)

PLATE10



VERTICAL SECTION LINE 18W

1N 0 1S 2S 3S 4S 5S 6S



ABBREVIATIONS

Peb Sst	Pebbly Sandstone
C	Conglomerate
Vol	Pillowed Mafic Volcanic
Dior	Diorite
Q	Quartz
Def	Deformed
Alt	Altered
Bx	Breccia
S	Siliceous

LEGEND

.05/34 Au oz/ton//feet

SCALE: 1" = 40'



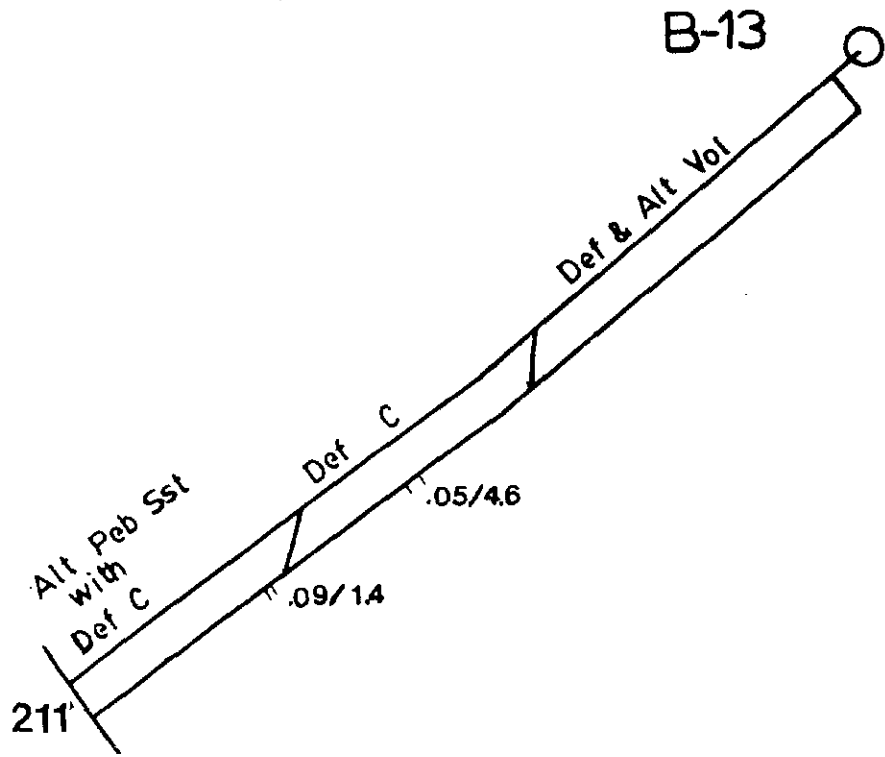
VERTICAL SECTION LINE 19W

1N

O

1S

1000' ELEV.



ABBREVIATIONS

Peb Sst	Pebbly Sandstone
C	Conglomerate
Vol	Pillowed Mafic Volcanic
Def	Deformed
Alt	Altered

LEGEND

.05/3.4 Au oz/ton// feet . inches

SCALE: 1" = 40'

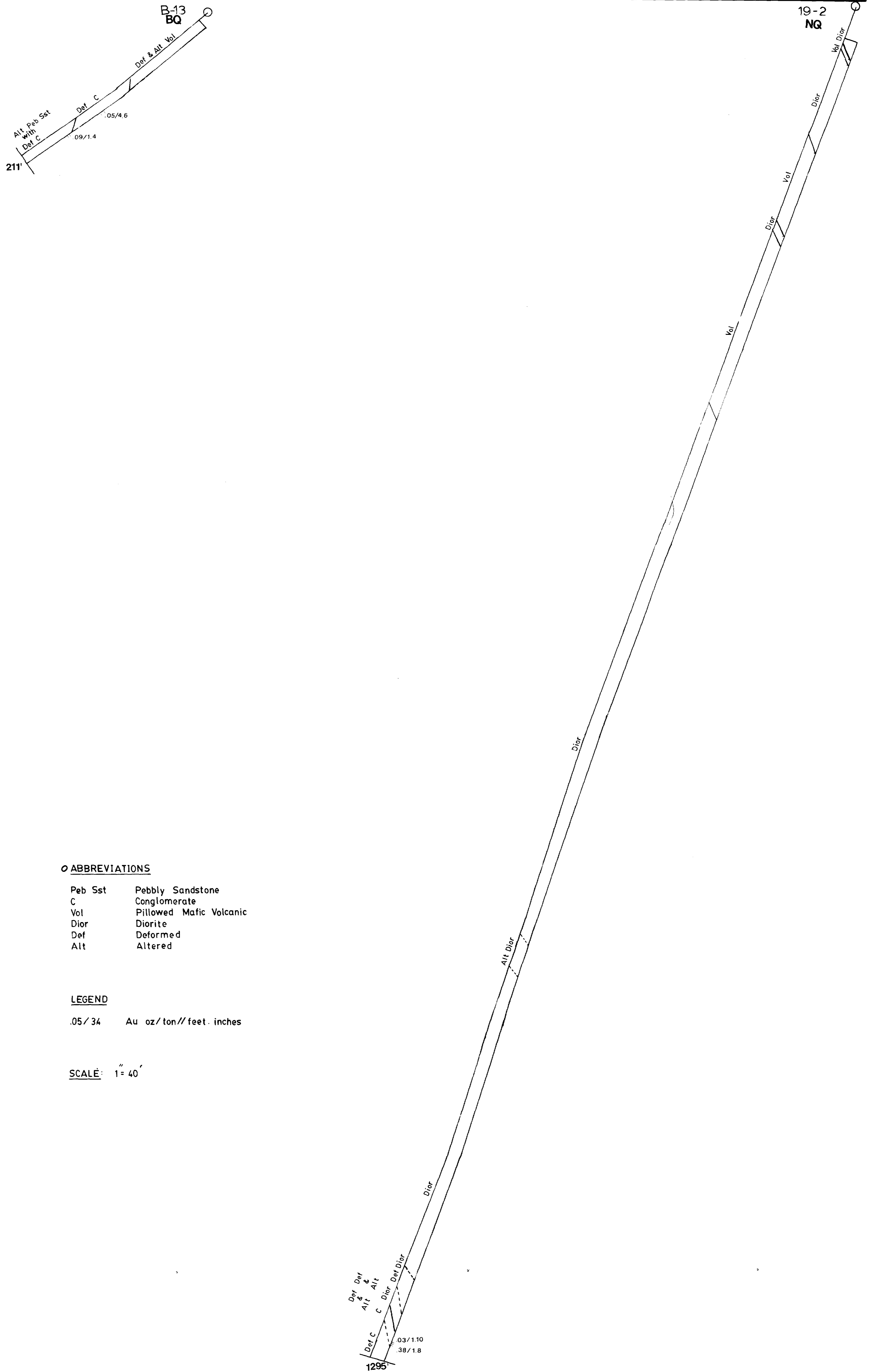
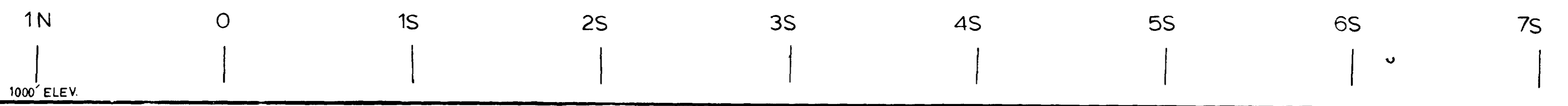
OM82-184

63.4852
(3)

PLATE 12



VERTICAL SECTION LINE 19W



ABBREVIATIONS

Peb Sst	Pebbly Sandstone
C	Conglomerate
Vol	Pillowed Mafic Volcanic
Dior	Diorite
Def	Deformed
Alt	Altered

LEGEND
.05/34 Au oz/ton//feet. inches

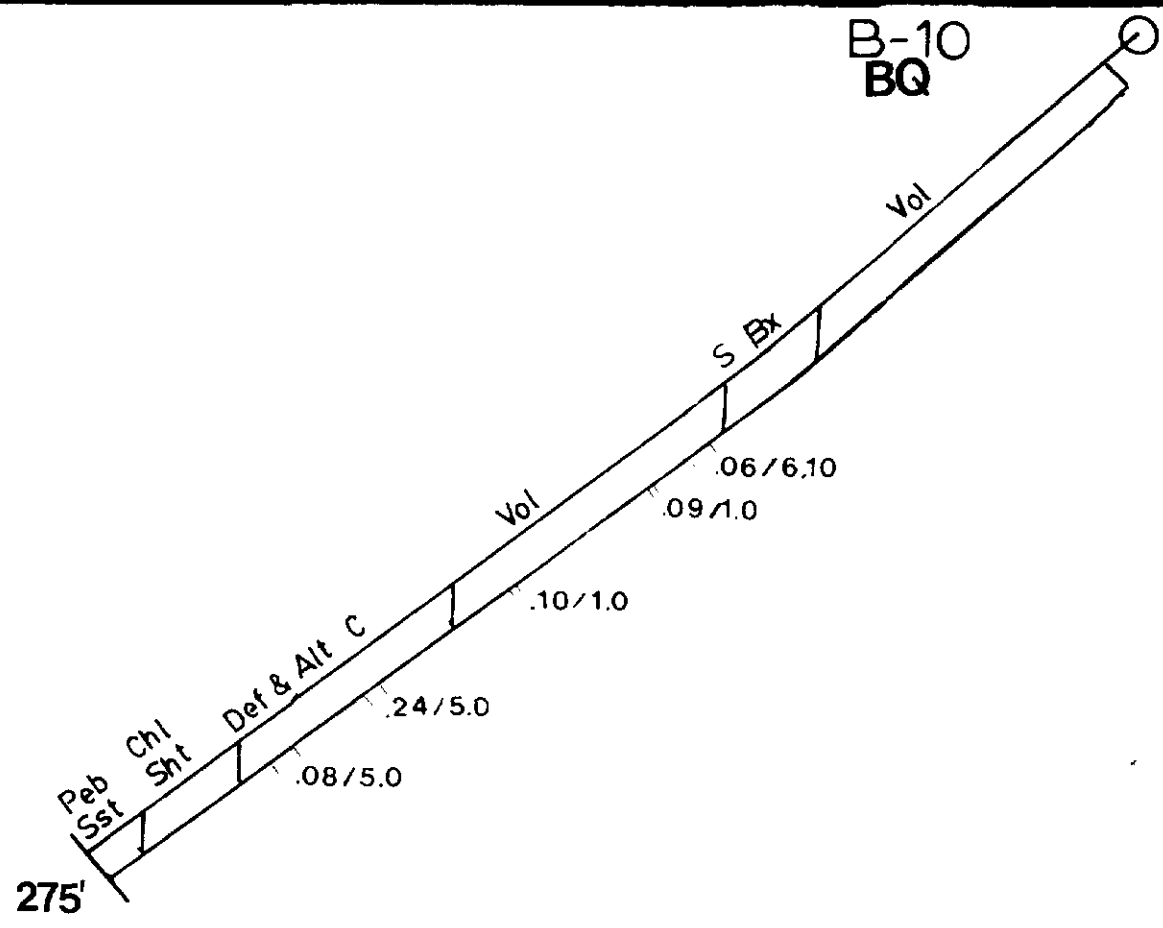
SCALE: 1" = 40'

B. KOWALSKI
BK

PLATE 12A



VERTICAL SECTION LINE 21W



ABBREVIATIONS

Peb Sst	Pebbly Sandstone
C	Conglomerate
Chl Sht	Chlorite Schist
Vol	Pillowed Mafic Volcanic
Def	Deformed
Bx	Breccia
Alt	Altered
S	Siliceous

LEGEND

.05/34 Au oz/ton//feet.inches

SCALE: 1" = 40'

OM82-184

63.4852
(3)

PLATE 14



VERTICAL SECTION LINE 21W

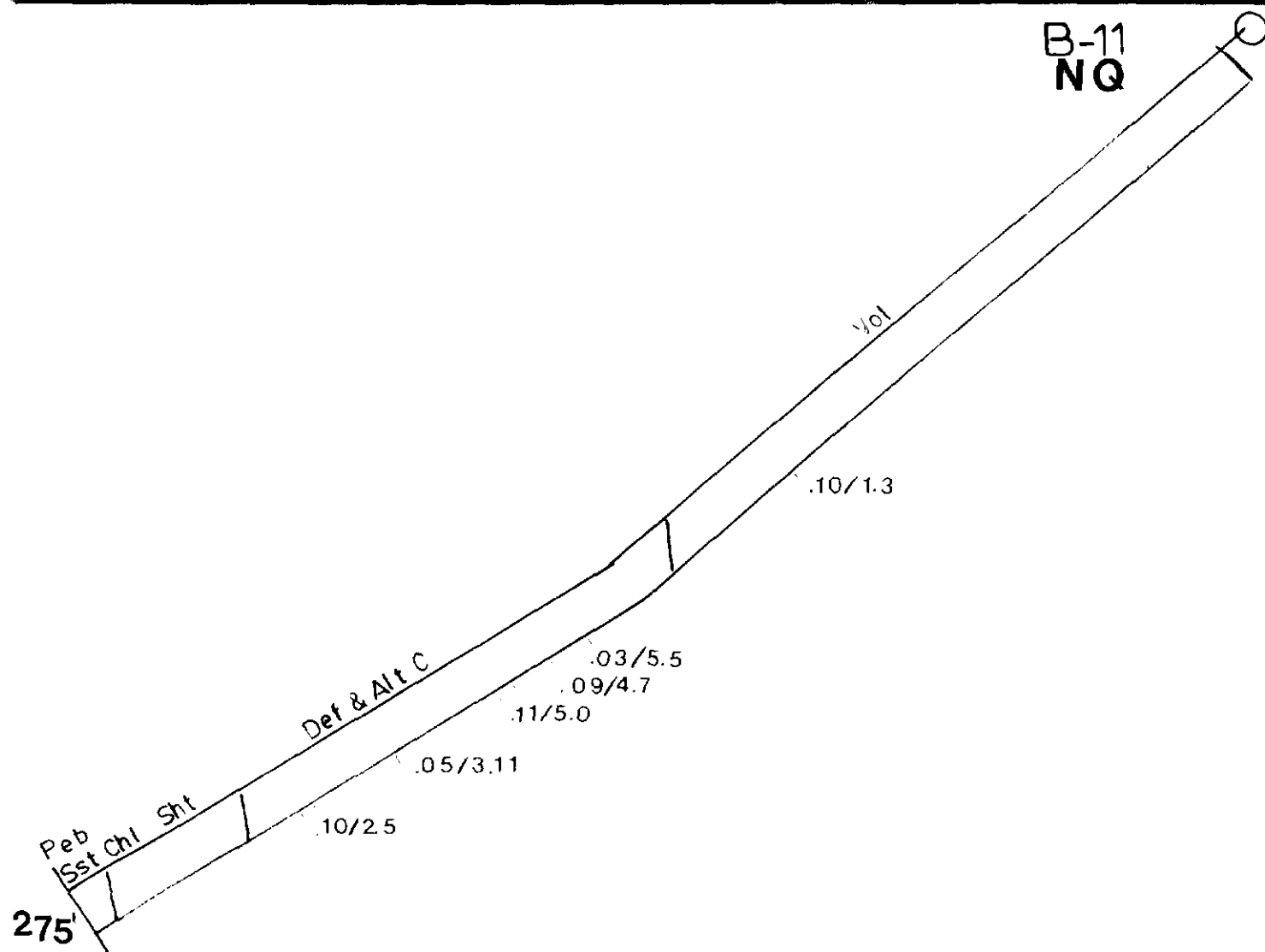
1N

0

1S

2S

1000' ELEV.



ABBREVIATIONS

Peb Sst	Pebbly Sandstone
C	Conglomerate
Chl Sht	Chl Schist
Vol	Pillowed Mafic Volcanic
Def	Deformed
Alt	Altered

LEGEND

.05/34 Au oz/ton// feet inches

SCALE: 1" = 40'

OM82-184

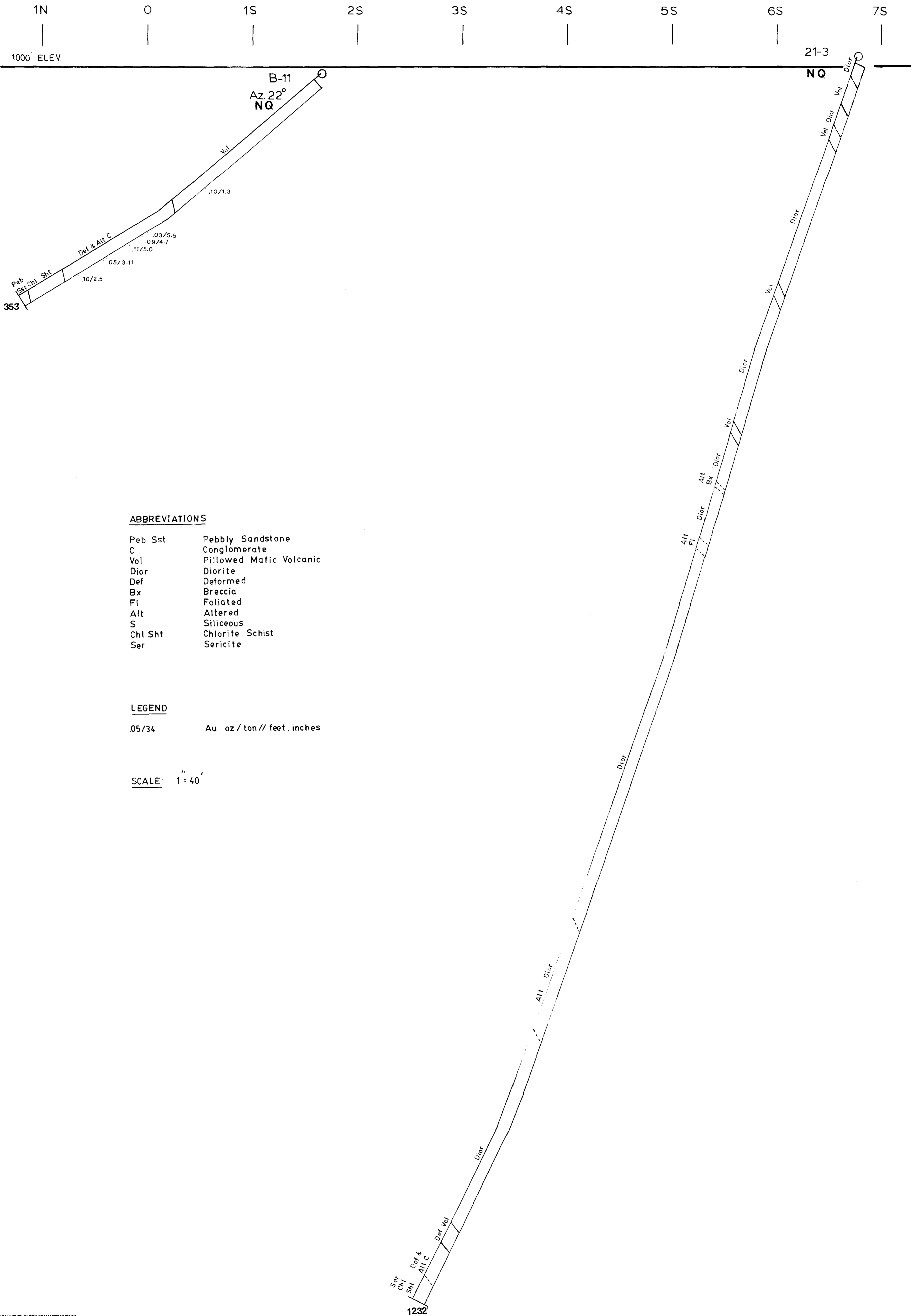
B. KOWALSKI

63.4852
(3)

PLATE14A



VERTICAL SECTION LINE 21W



ABBREVIATIONS

Peb Sst	Pebbly Sandstone
C	Conglomerate
Vol	Pillowed Mafic Volcanic
Dior	Diorite
Def	Deformed
Bx	Breccia
Fl	Foliated
Alt	Altered
S	Siliceous
Chl Sht	Chlorite Schist
Ser	Sericite

LEGEND

.05/34 Au oz / ton // feet. inches

SCALE: 1" = 40'

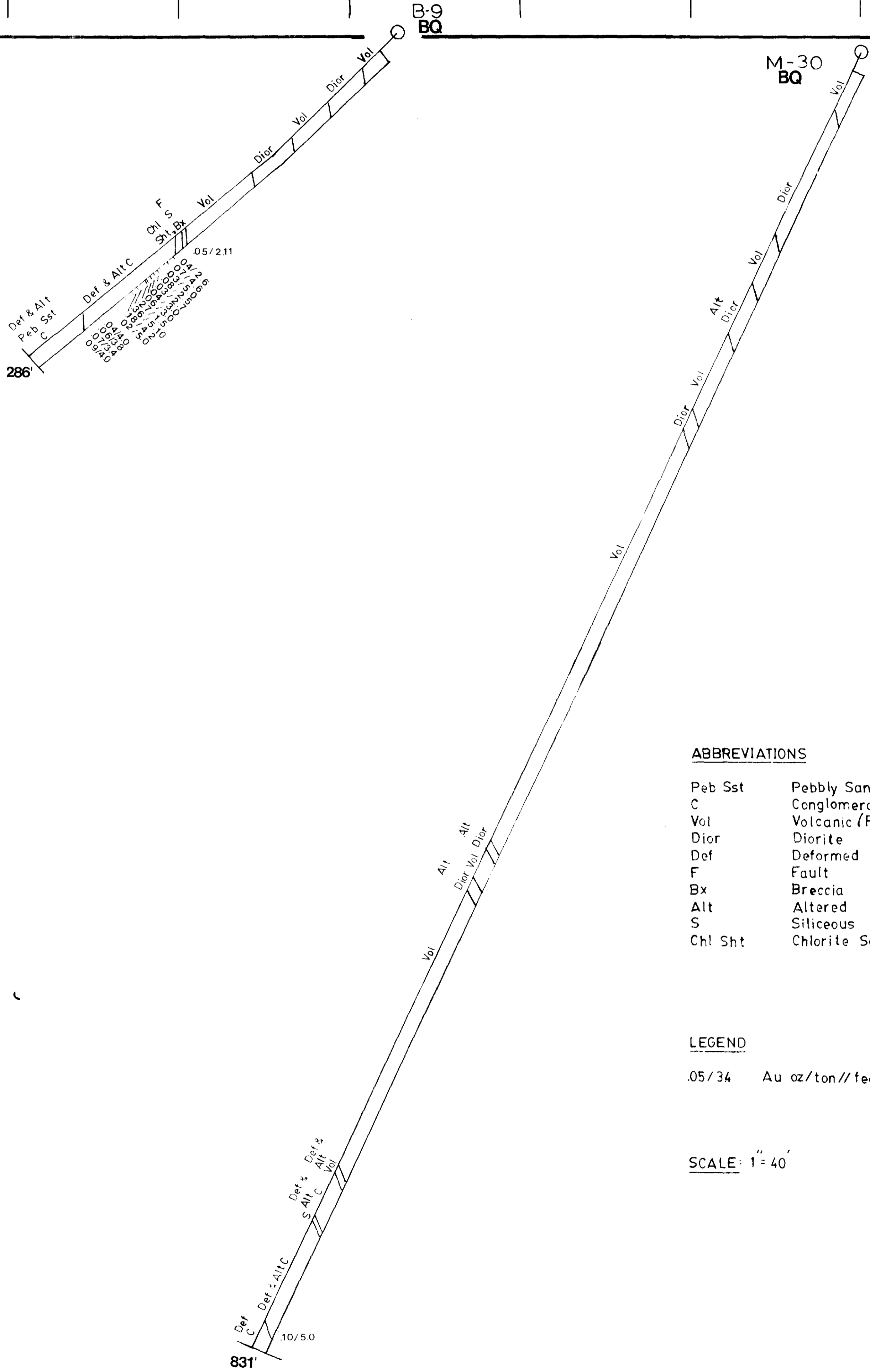


BK

VERTICAL SECTION LINE 22W

1N 0 1S 2S 3S 4S 5S

1000' ELEV.



ABBREVIATIONS

Peb Sst	Pebbly Sandstone
C	Conglomerate
Vol	Volcanic (Pillowed)
Dior	Diorite
Def	Deformed
F	Fault
Bx	Breccia
Alt	Altered
S	Siliceous
Chl Sht	Chlorite Schist

LEGEND
 .05/34 Au oz/ton//feet

SCALE: 1" = 40'



0

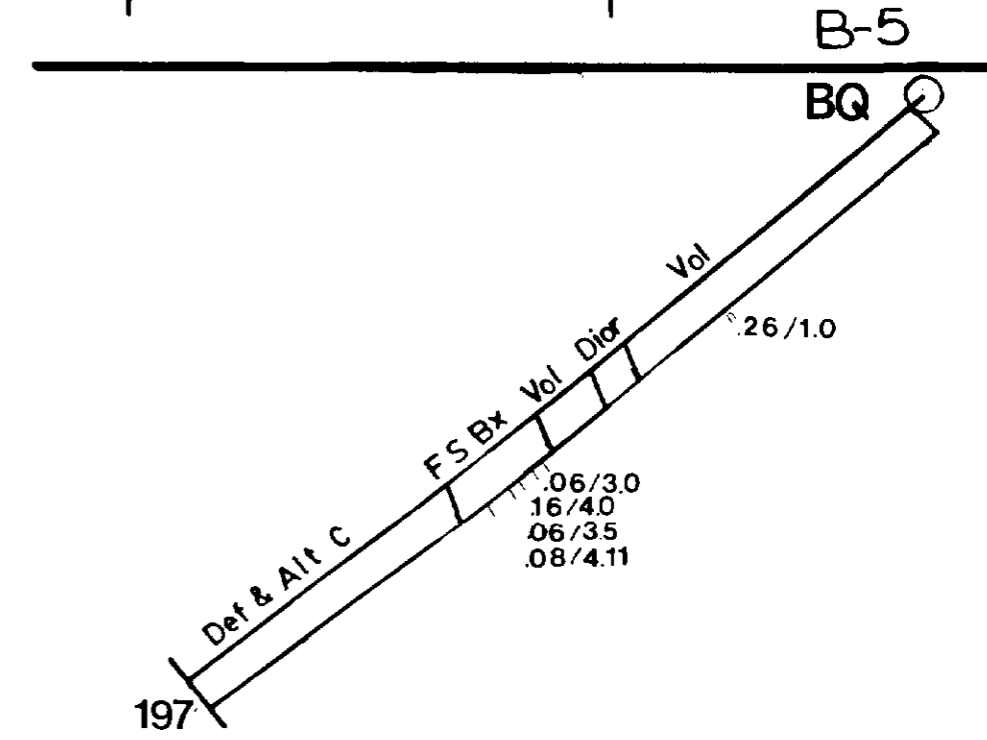
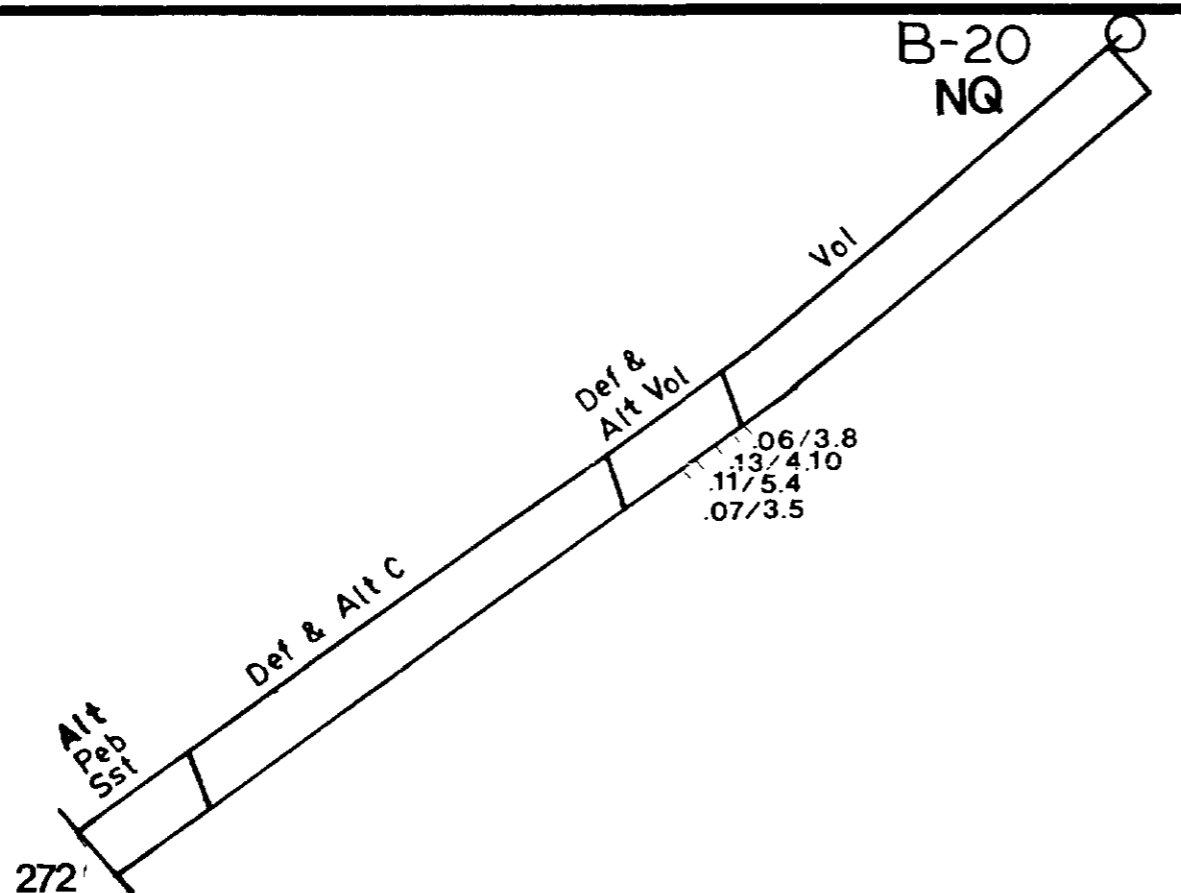
1S

2S

1S

2S

1000' ELEV.



ABBREVIATIONS

Peb Sst	Pebbly Sandstone
C	Conglomerate
Vol	Pillowed Mafic Volcanic
Dior	Diorite
Def	Deformed
F	Fault
Bx	Breccia
Alt	Altered
S	Siliceous

LEGEND:

.05/34 Au oz/ton//feet .inches

SCALE: 1" = 40'

NOTES: The above holes are collared 4feet apart and drilled at the same azimuth.

Composite sample taken from B-5 at 42.0-42.3; 47.0-47.4; 50.0-51.6 = 2.1" with a grade of 0.11 Au oz/ton.



42E12N0000 63.4852 SANDRA

560

B. KOWALSKI

OM82-184

63.4852
(3)

PLATE 16

VERTICAL SECTION LINE 24W

2S

3S

4S

5S

1000' ELEV.

B-21
NQ

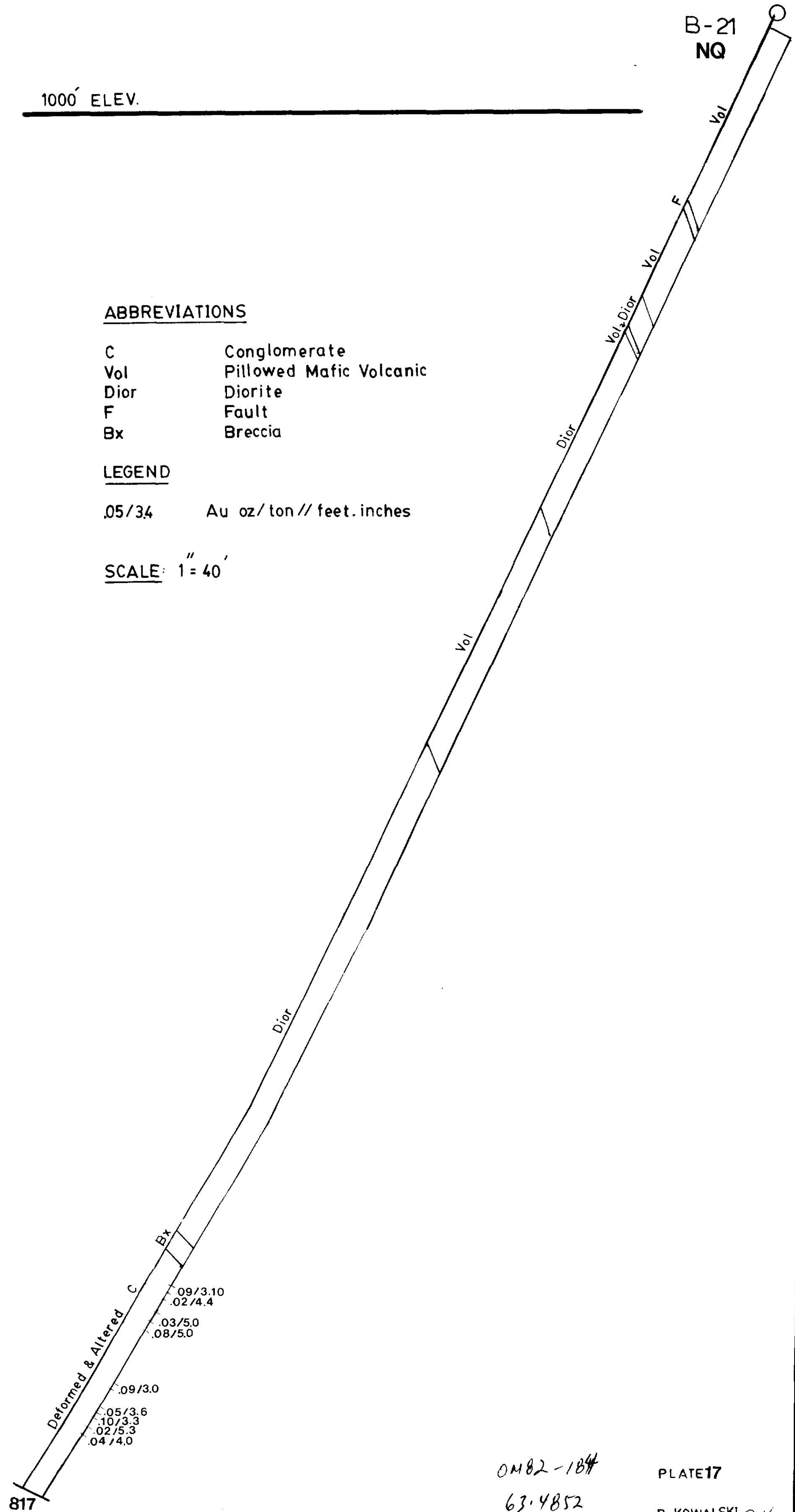
ABBREVIATIONS

- C Conglomerate
- Vol Pillowed Mafic Volcanic
- Dior Diorite
- F Fault
- Bx Breccia

LEGEND

.05/34 Au oz/ton // feet.inches

SCALE: 1" = 40'



0M82-184

63.4852
(3)

PLATE 17

B. KOWALSKI



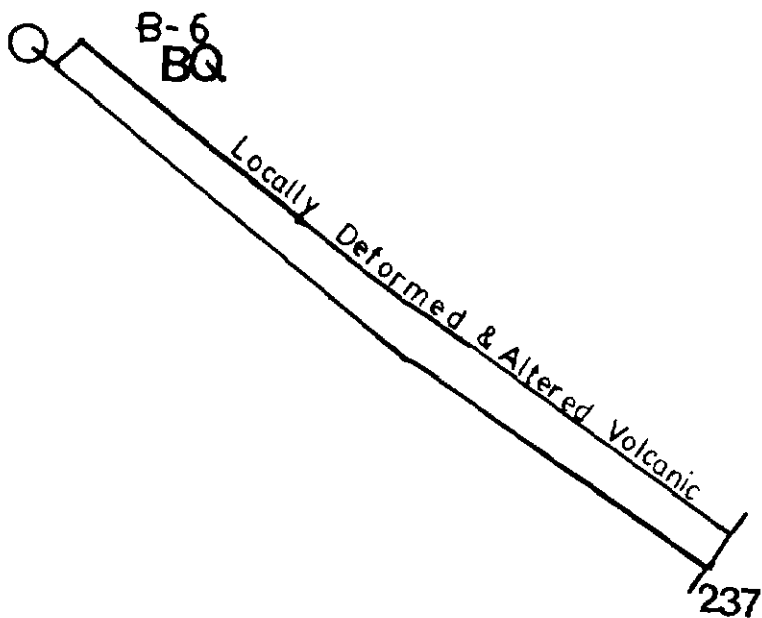
BROOKBANK WEST GRID

VERTICAL SECTION LINE 25W

1S

2S

1000' ELEV.



SCALE: 1" = 40'



42E12NW0060 63.4852 SANDRA

OM82-184

580

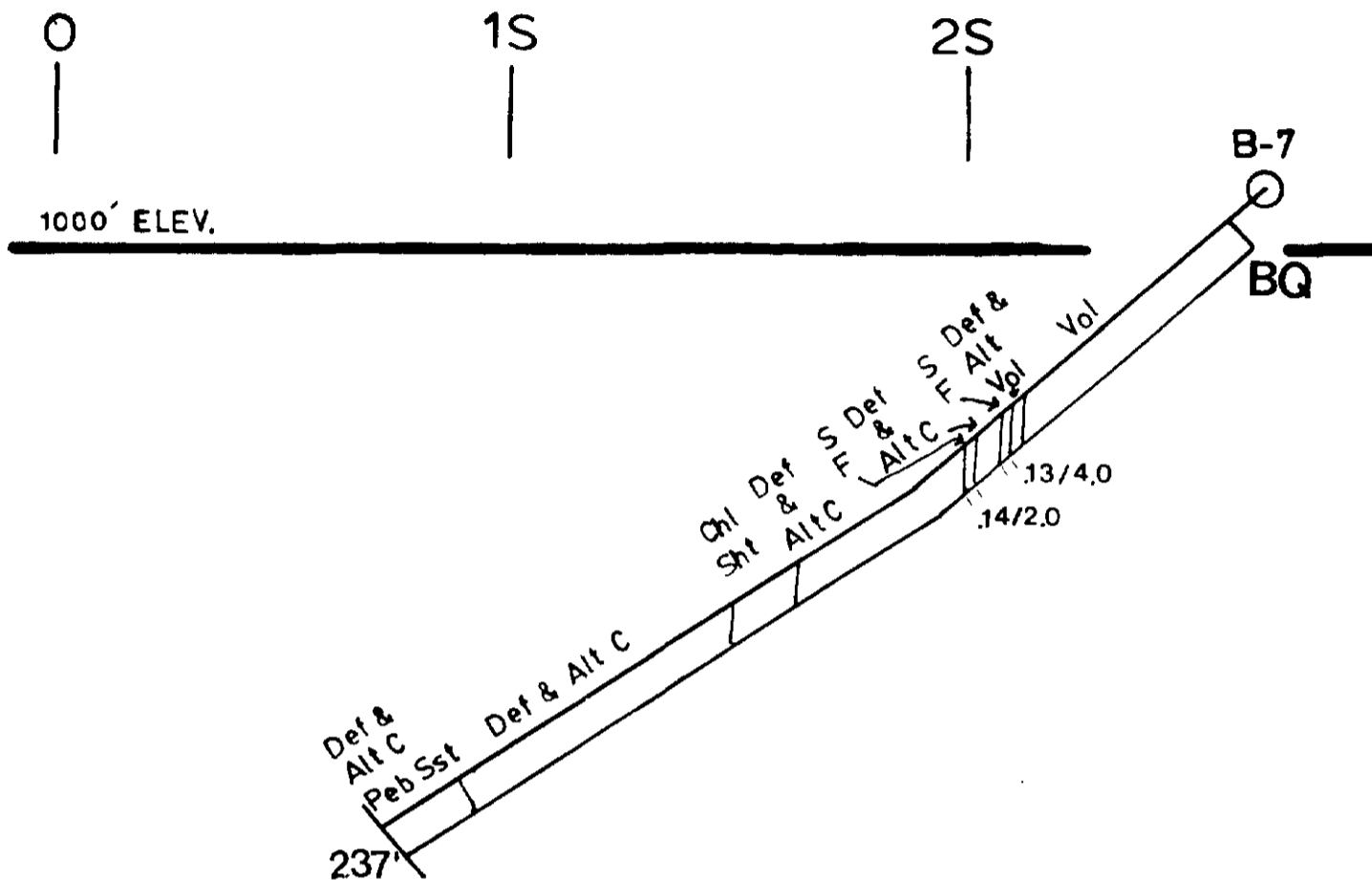
63.4852
(3)

B. KOWALSKI

PLATE 18

BROOKBANK 'WEST' GRID

VERTICAL SECTION LINE 26W



ABBREVIATIONS

Peb Sst	Pebbly Sandstone
C	Conglomerate
Vol	Pillowed Mafic Volcanic
Chl Sht	Chlorite Schist
Def	Deformed
F	Fault
Alt	Altered
S	Siliceous

LEGEND:

.05/34 Au oz/ton// feet. inches

SCALE:

1" = 40'

OM82-184

63.4852

(3)



42E12NW0080 63.4852 SANDRA

590

PLATE 19

VERTICAL SECTION LINE 28W

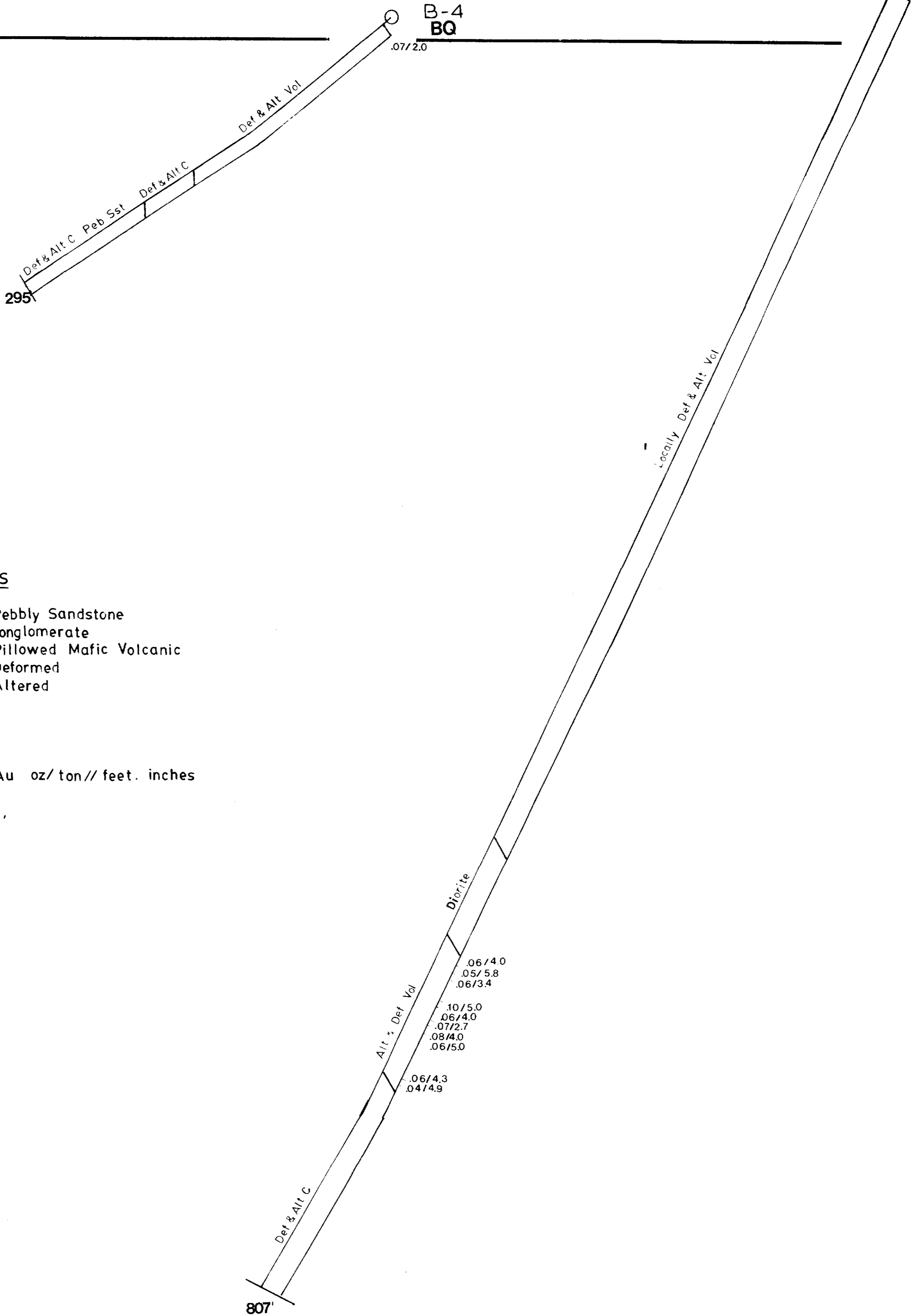
1N O 1S 2S 3S 4S 5S

B-22
NQ

1000' ELEV.

B-4
BQ

.07/2.0



ABBREVIATIONS

- Peb Sst Pebbly Sandstone
- C Conglomerate
- Vol Pillowed Mafic Volcanic
- Def Deformed
- Alt Altered

LEGEND

.05/34 Au oz/ton// feet. inches

SCALE: 1" = 40'



42E12N0000 63.4852 SANDRA

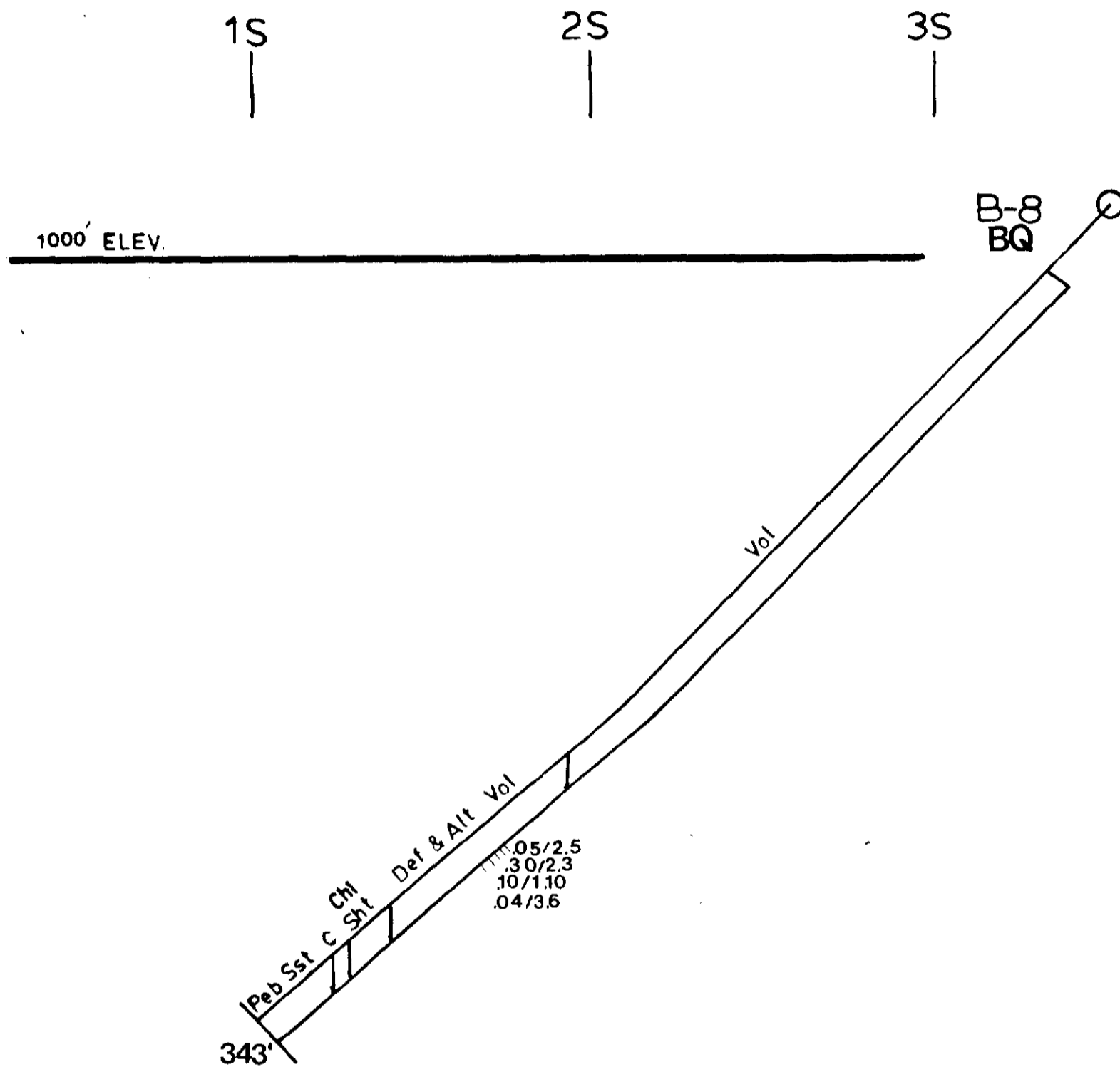
600

B. KOWALSKI

0482-184
63.4852
(3)

PLATE20

VERTICAL SECTION LINE 30W



ABBREVIATIONS

Peb Sst	Pebbly Sandstone
C	Conglomerate
Chl Sht	Chlorite Schist
Vol	Pillowed Mafic Volcanic
Def	Deformed
Alt	Altered

LEGEND: .05/34 Au oz/ton// feet . inches

SCALE: 1" = 40'



42E12N00000 63.4852 SANDRA

610

B. KOWALSKI

OM 82-184

63.4852

(3)

PLATE 21

BROOKBANK 'WEST' GRID

METALORE RESOURCES LTD.

VERTICAL SECTION LINE 33W

3N

2N

1N

0

1000' ELEV.

B-2
BQ

B-3
BQ

Locally Def & Alt Vol

Volcanic

118'

Deformed & Altered Conglomerate

SCALE: 1" = 40'

409'



42E12NW0000 63.4852 SANDRA

620

B. KOWALSKI

OM82-184

63.4852

(3)

PLATE 22

VERTICAL SECTION LINE 34W

4N

3N

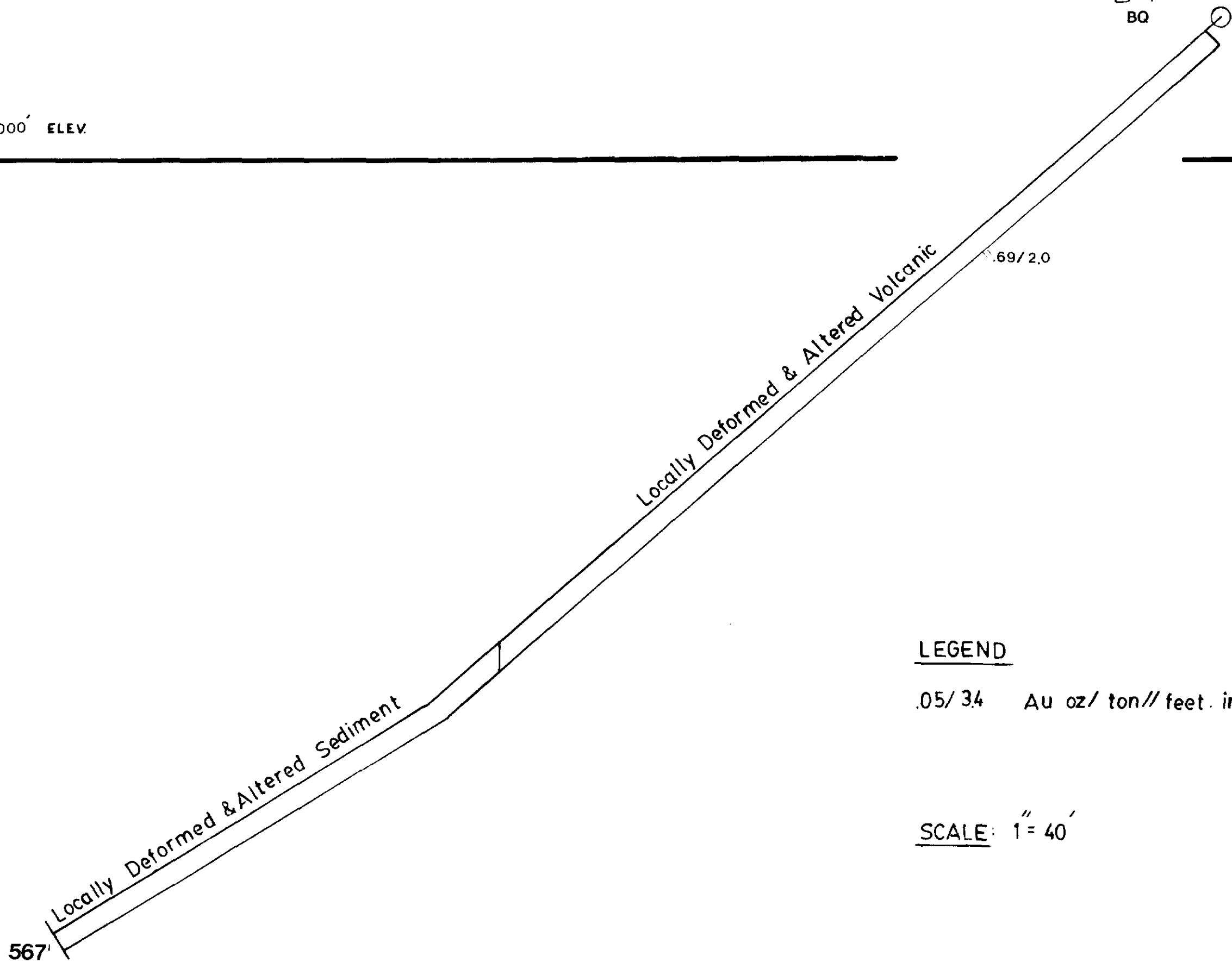
2N

1N

0

B-1
BQ

1000' ELEV.



LEGEND

.05/34 Au oz/ ton// feet. inches

SCALE: 1" = 40'



42E12NW0080 63.4852 SANDRA

630

B. KOWALSKI

0M82-184

63.4852

(3)

PLATE23

VERTICAL SECTION LINE 36W

3N

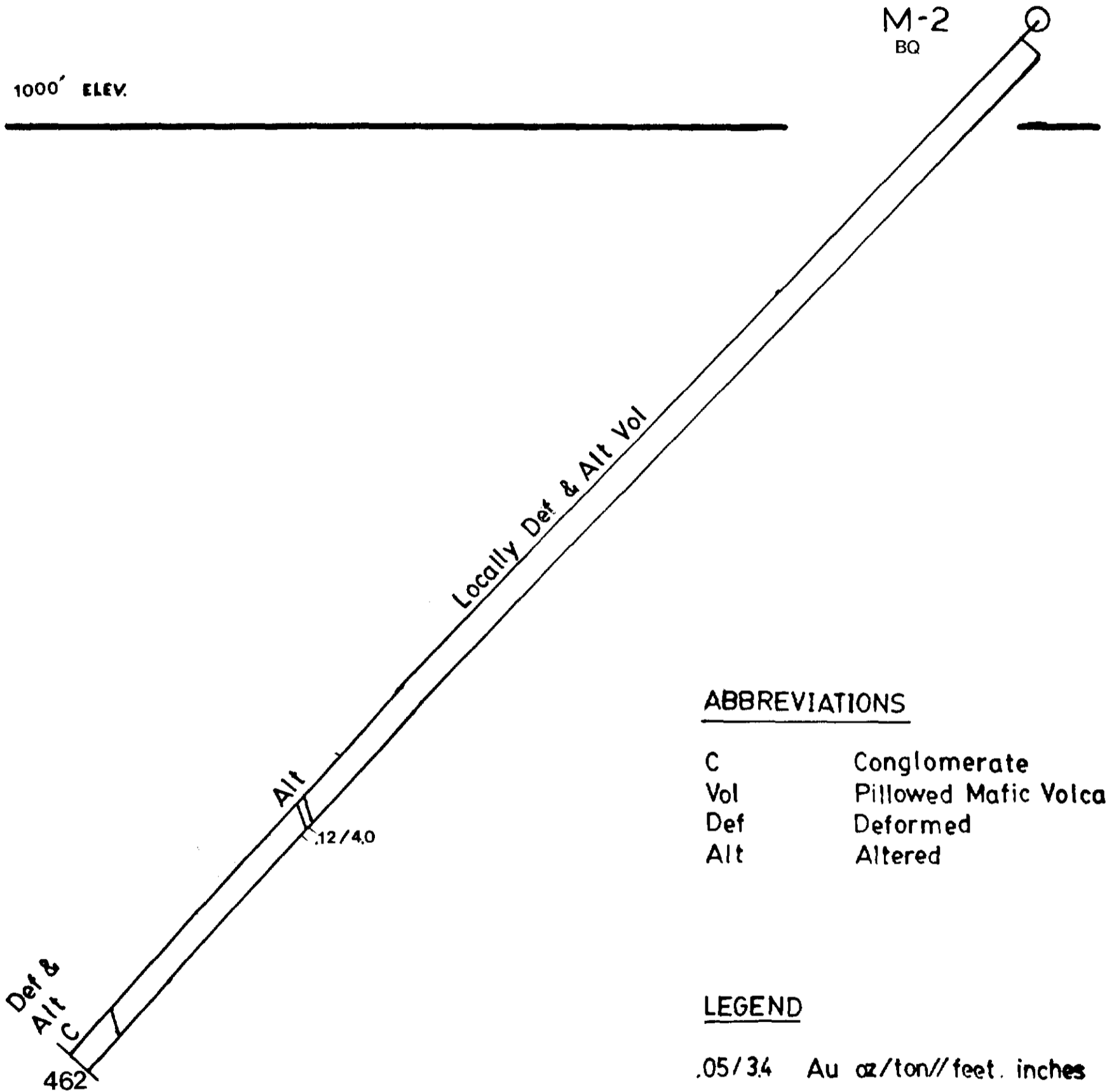
2N

1N

0

M-2
BQ

1000' ELEV.



ABBREVIATIONS

C	Conglomerate
Vol	Pillowed Mafic Volcanic
Def	Deformed
Alt	Altered

LEGEND

.05/34 Au oz/ton//feet. inches

SCALE: 1" = 40'



42E12NW0080 63.4852 SANDRA

640

B. KOWALSKI

OM82-184

63.4852

(3)

PLATE 24

1S

2S

3S

4S

5S

6S

7S

8S

1000' Elevation

13+43-1

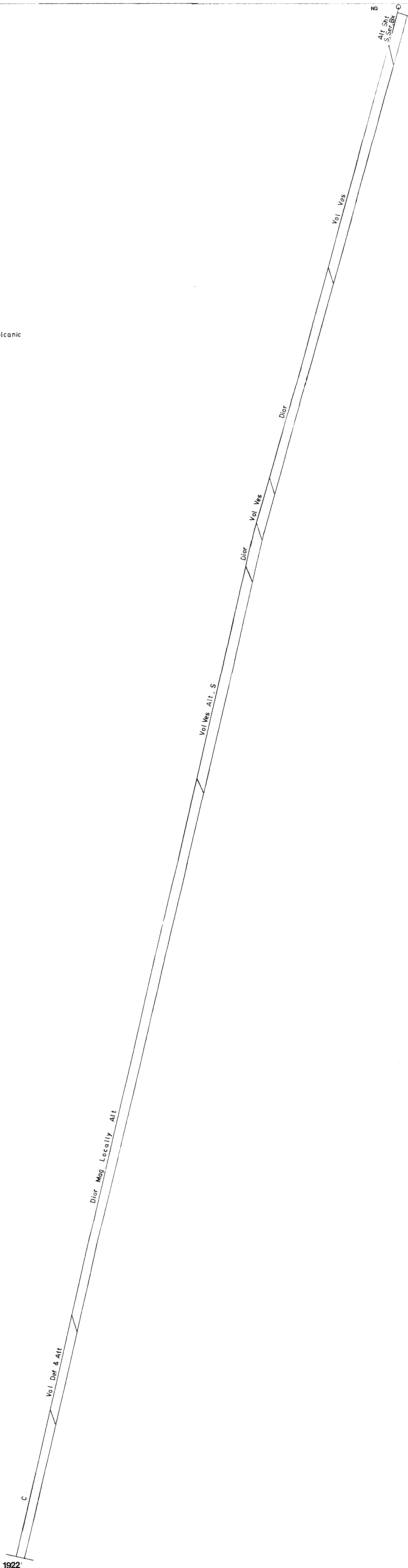
No

Alt Sht
S Ser Bx

ABBREVIATIONS

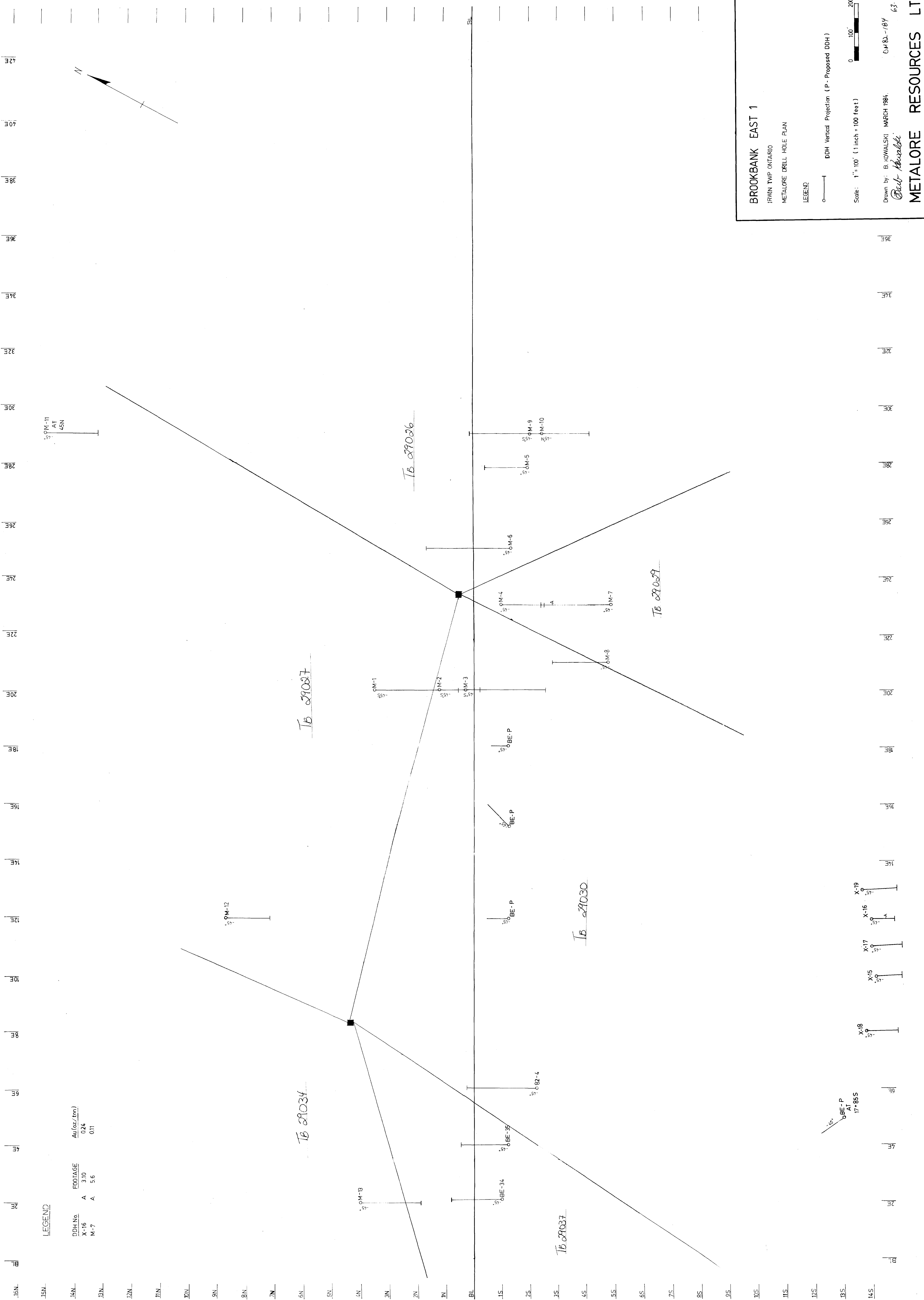
C	Conglomerate
Dior	Diorite
Vol	Pillowed Mafic Volcanic
Ves	Vesicular
Def	Deformed
Sht	Schist
Alt	Altered
Bx	Breccia
S	Siliceous
Ser	Sericite
Mag	Magnetite

SCALE: 1" = 40'



OM82-184
67.4852
(3)

B. KOWALSKI



LEGEND

DDH No	FOOTAGE	Au (oz./ton)
X-16	A 3.10	0.24
M-7	A 5.6	0.11

LEGEND

DDH Vertical Projection (P - Proposed DDH)

Scale: 1" = 100' (1 inch = 100 feet)



BROOKBANK EAST 1

IRWIN TWP ONTARIO

METALORE DRILL HOLE PLAN

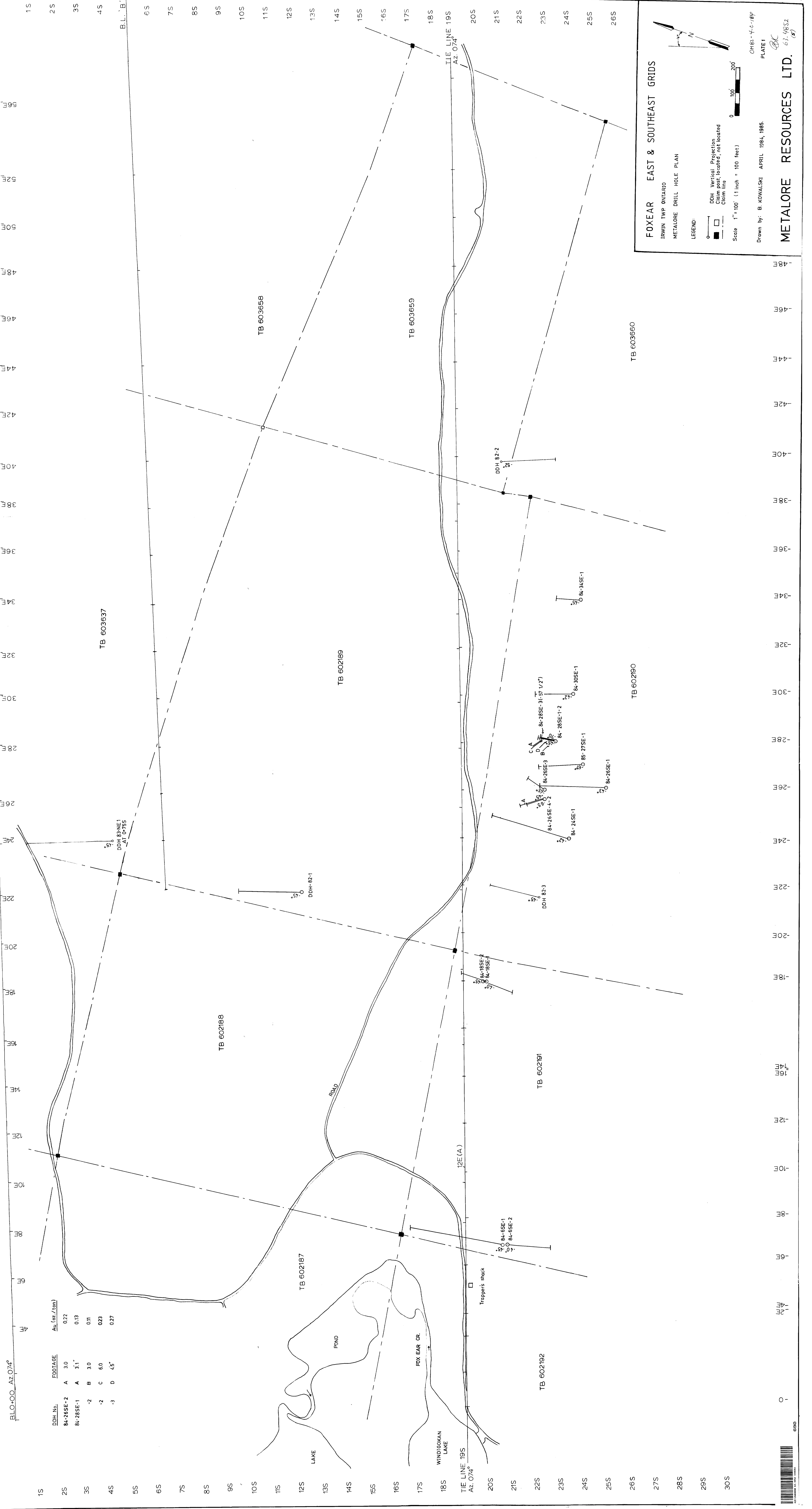
Drawn By: B. KOVALSKI MARCH 1984.

B. Kowalski

63-1842 (P)

METALORE RESOURCES LTD.





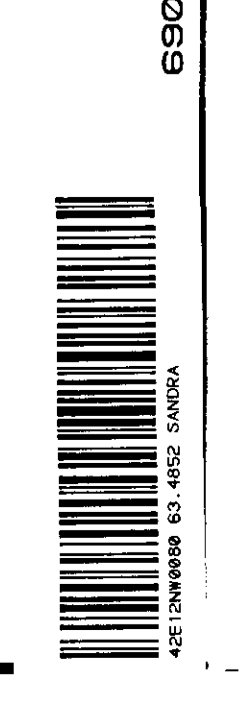
DDH No.	FOOTAGE	Az. (oz./10m)
84-26SE-2	A 3.0	0.22
84-26SE-1	A 3.1	0.13
-2	B 3.0	0.11
-2	C 6.0	0.23
-3	D 4.5	0.27

FOXEAR EAST & SOUTHEAST GRIDS
 IRWIN TWP ONTARIO
 METALORE DRILL HOLE PLAN

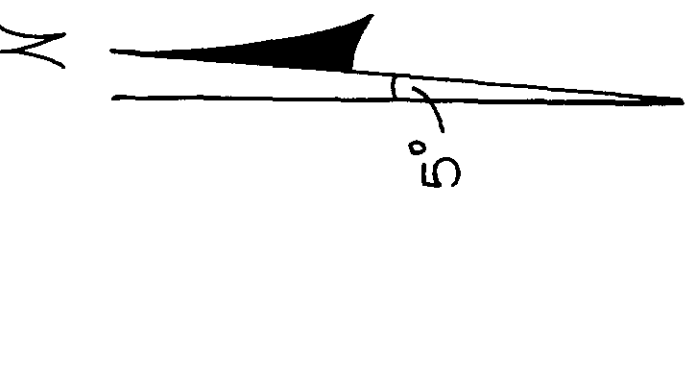
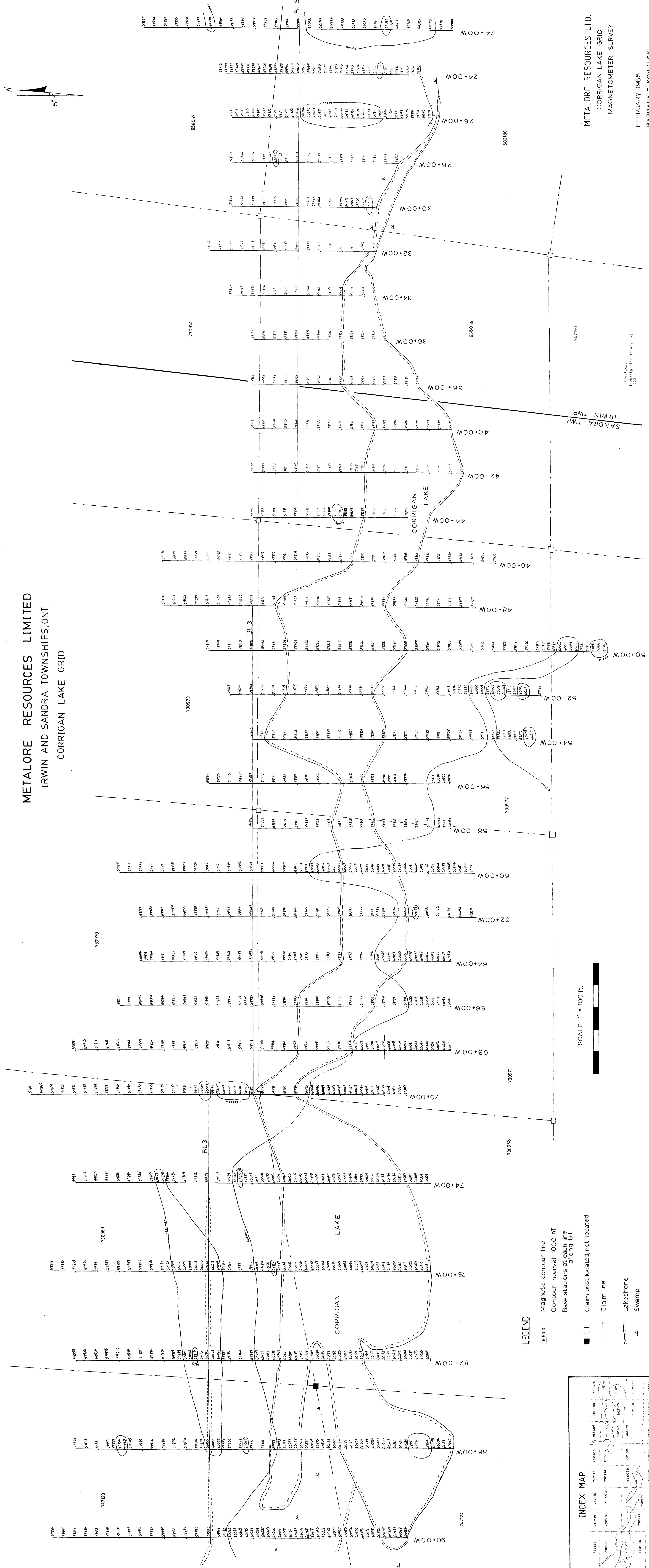
LEGEND:
 DDH Vertical Projection
 Claim post, located, not located
 Claim line

Scale 1" = 100' (1 inch = 100 feet)

Drawn by: B. KOVALSKI APRIL 1984, 1985.
 OH83-42-189
 PLANE 1
METALORE RESOURCES LTD.
 63, 4852
 (5)

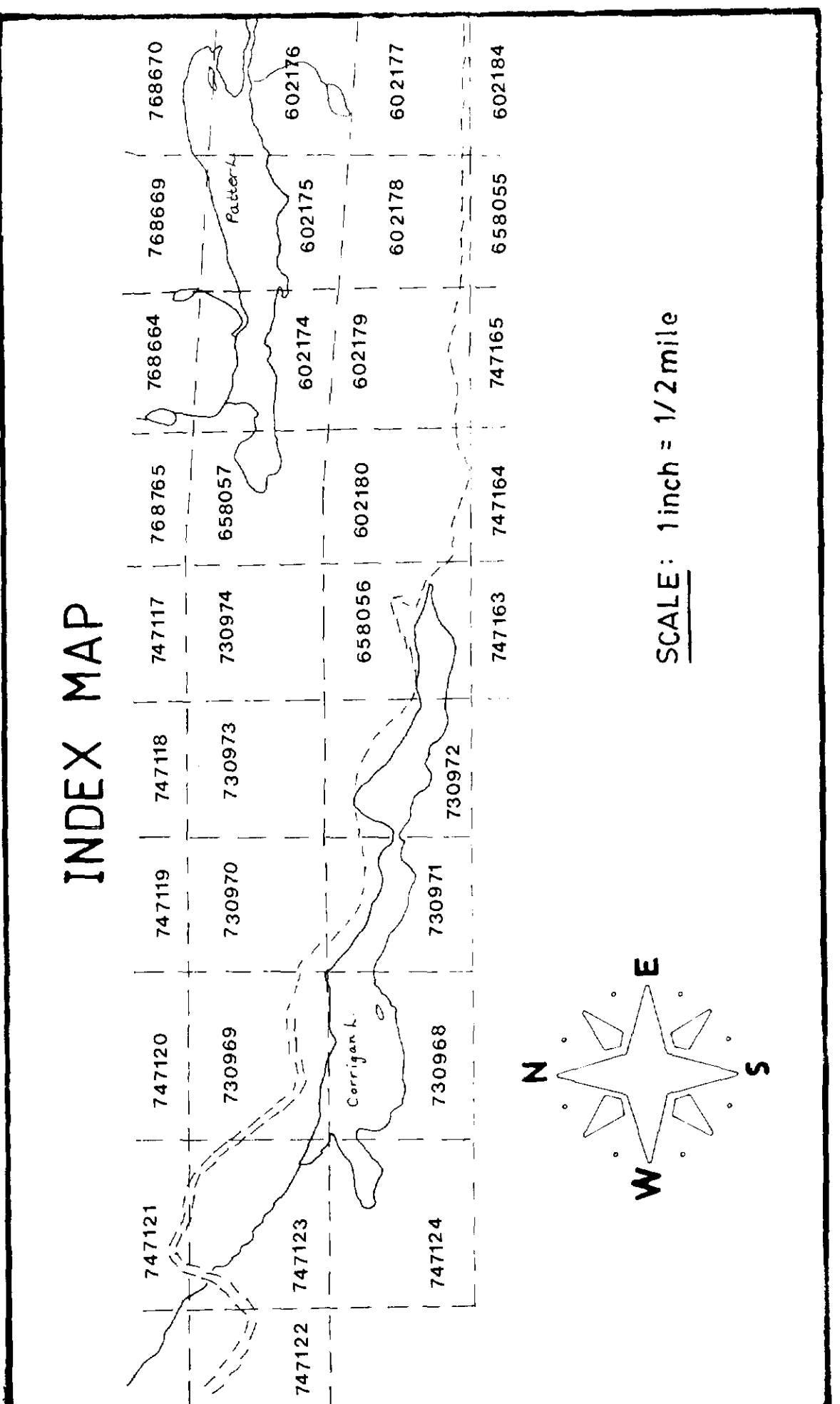


METALORE RESOURCES LIMITED
IRWIN AND SANDRA TOWNSHIPS, ONT.
CORRIGAN LAKE GRID



- LEGEND**
- 5000- Magnetic contour line
 - Contour interval 1000 ft.
 - Base stations at each line along BL
 - Claim post located, not located
 - Claim line
 - Lakeshore
 - Swamp
 - Gravel road (approx. location)

SCALE 1" = 100 ft.

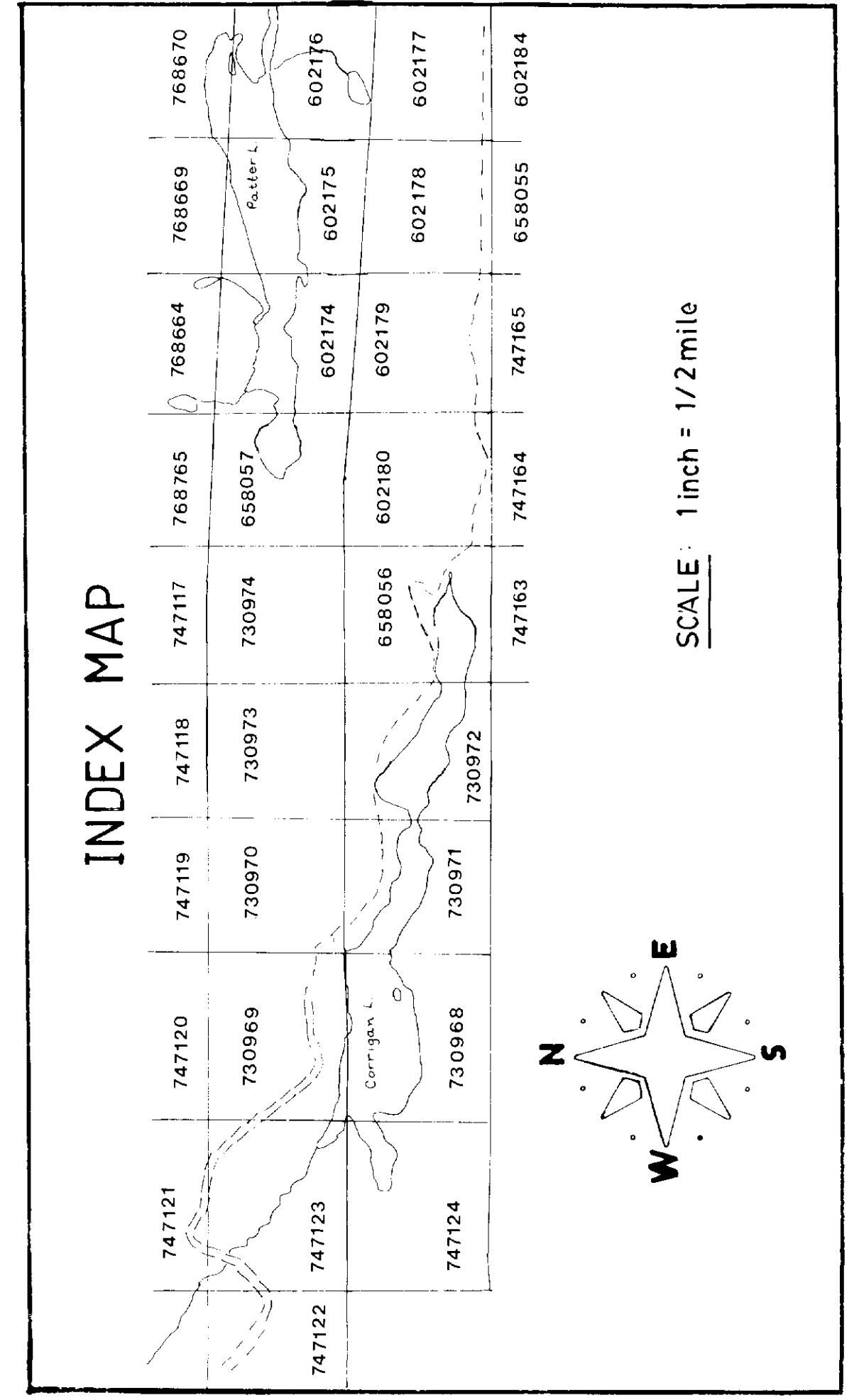
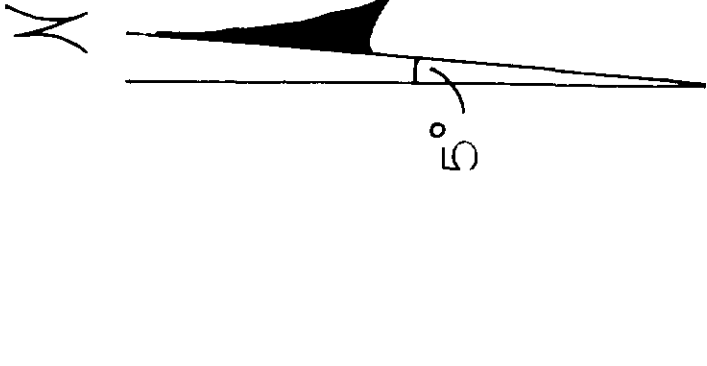
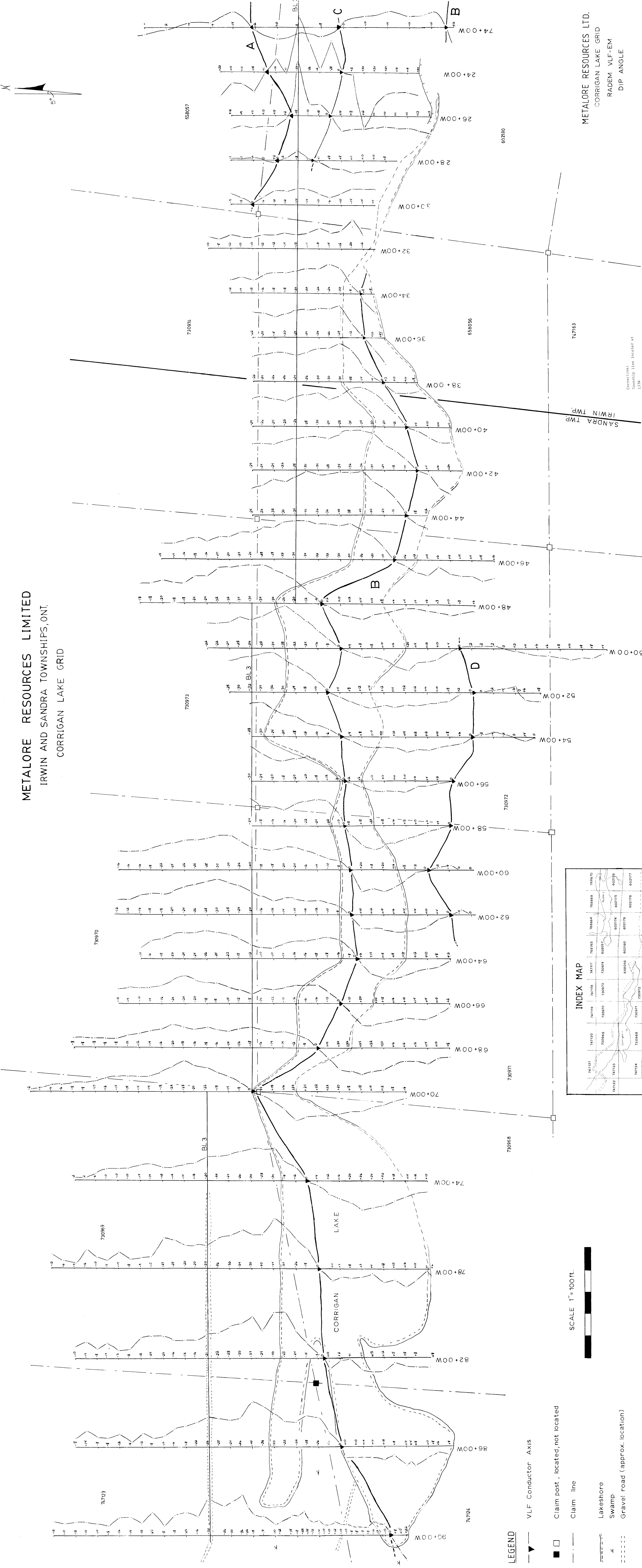


METALORE RESOURCES LTD.
CORRIGAN LAKE GRID
MAGNETOMETER SURVEY

FEBRUARY 1985
BARBARA S. KOWALSKI



METALORE RESOURCES LIMITED
 IRWIN AND SANDRA TOWNSHIPS, ONT.
 CORRIGAN LAKE GRID



SCALE 1" = 100ft.

- LEGEND**
- ▲ VLF Conductor Axis
 - Claim post, located, not located
 - Claim line
 - Lakeshore
 - Swamp
 - Gravel road (approx. location)

METALORE RESOURCES LTD.
 CORRIGAN LAKE GRID
 RADEM VLF-EM
 DIP ANGLE

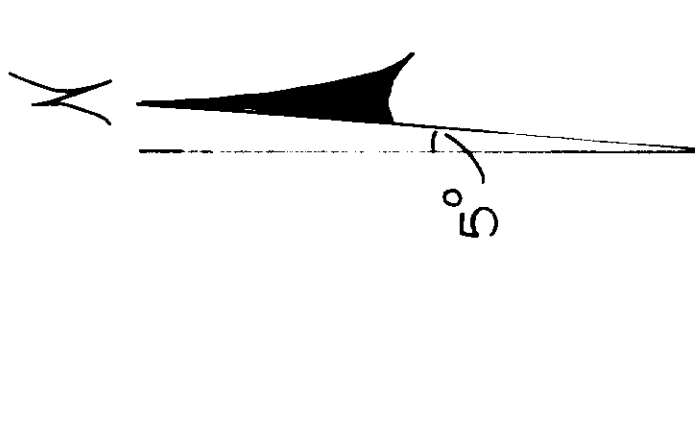
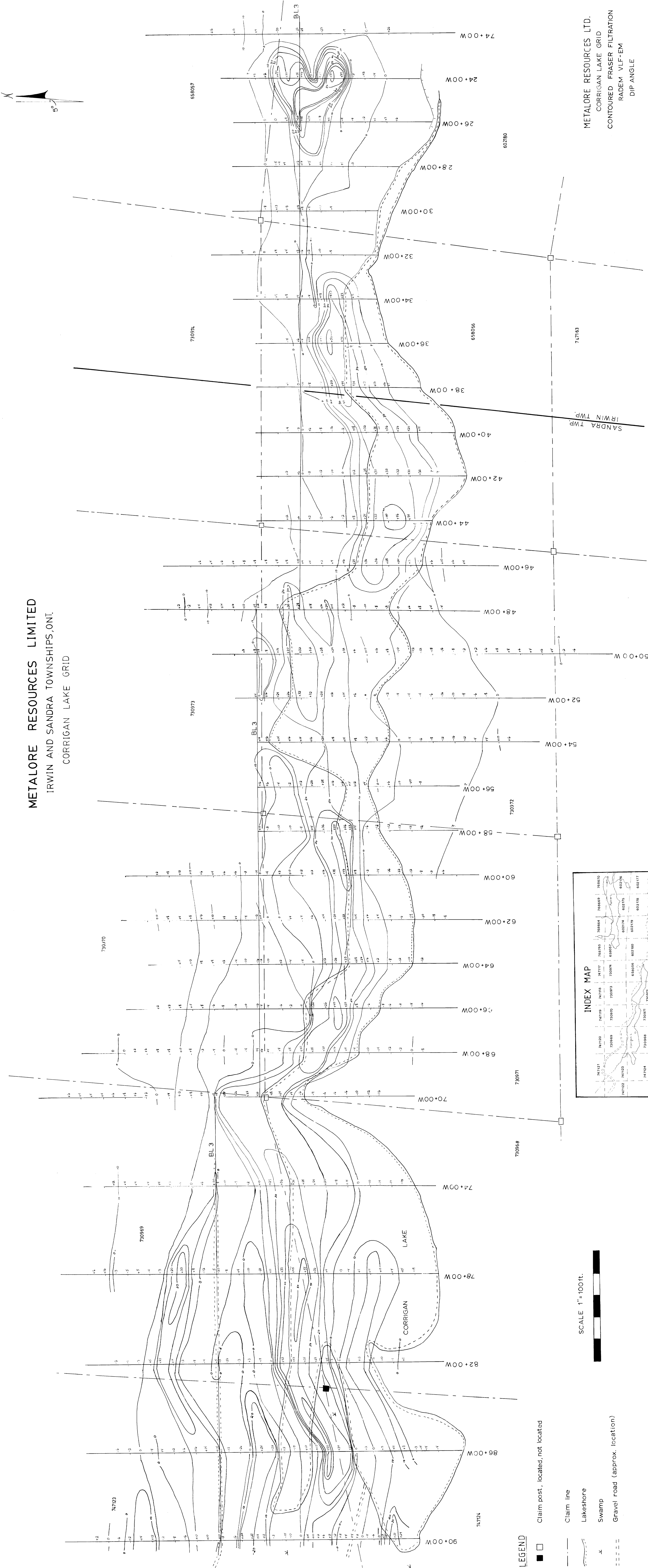
FEBRUARY 1985
 BARBARA S. KOWALSKI

PLATE 2

Correction:
 Property lines located at
 1:33N

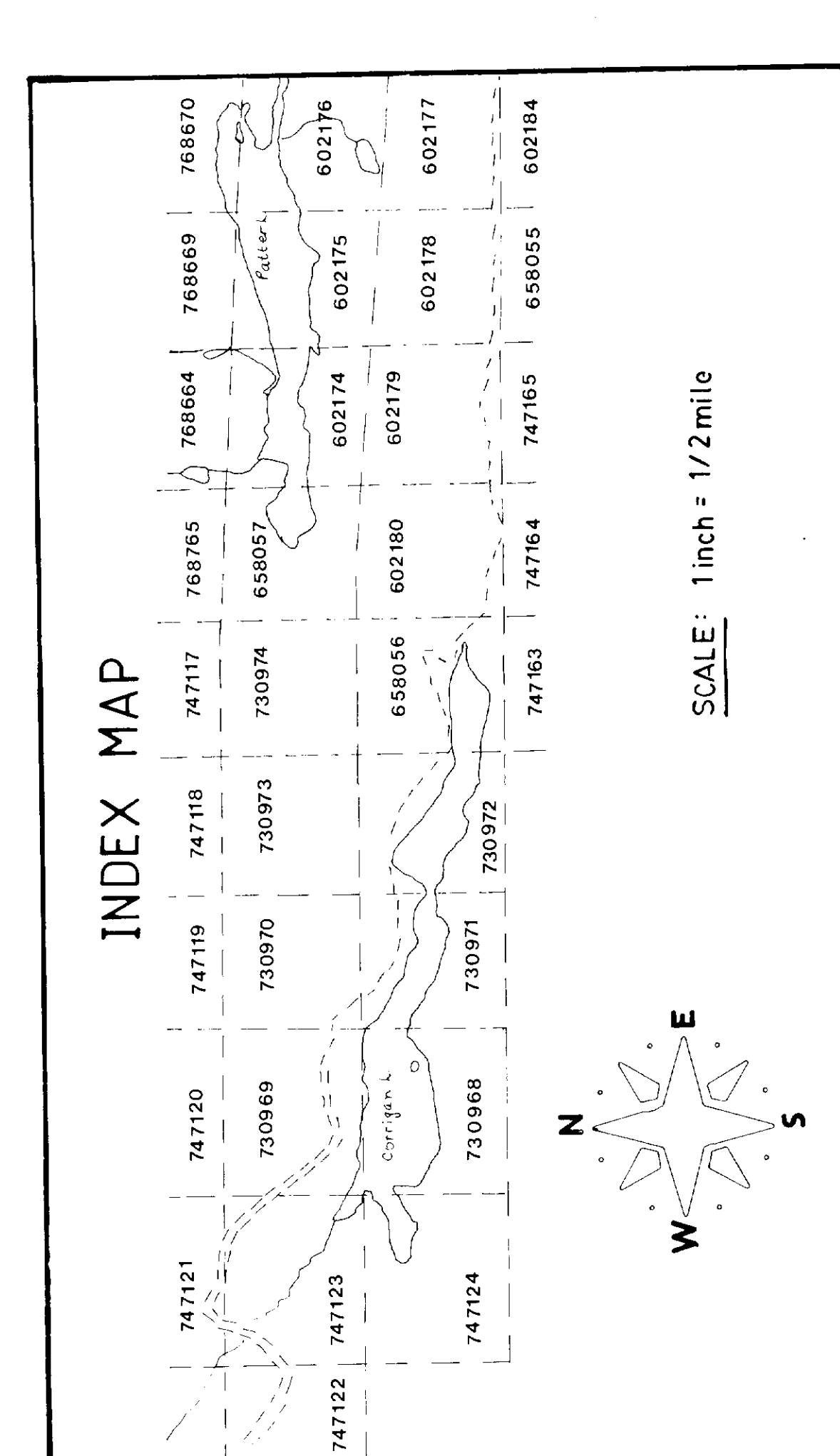


METALORE RESOURCES LIMITED
IRWIN AND SANDRA TOWNSHIPS, ONT.
CORRIGAN LAKE GRID



- LEGEND**
- Claim post, located, not located
 - Claim line
 - Lakeshore
 - Swamp
 - Gravel road (approx. location)

SCALE 1" = 100ft.



METALORE RESOURCES LTD.
CORRIGAN LAKE GRID
CONTOURED FRASER FILTRATION
RADEM VLF-EM
DIP ANGLE

FEBRUARY 1985
BARBARA S. KOWALSKI

Correction:
Township line located at
13W

