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MANITOU LAKES PROJECT
SUMMER AND FALL 1983 EXPLORATION
PROGRAM REPORT

with

ADDENDUM ON 1984 WINTER EXPLORATION

FOR

COCHRANE OIL & GAS LTD.

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NTS 52F-7

NOLIN GEO ENTERPRISES LTD.
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CHAPTER 1

INTRODUCTION

Cochrane Oil and Gas Limited has acquired 239 mineral claims approximately 30 miles south of Dryden, Ontario. These claims make four contiguous blocks.

These claims were originally acquired to cover favourable metasedimentary and metavolcanic trends capable of hosting traditional vein type deposits typical to the area as well as geological targets capable of hosting larger stratabound types of deposits. This area along the Manitou Straits Fault covers several former gold prospects south of the old Gold Rock mining centre and numerous conductors defined by the recently flown TRIDEM survey (1980).

These claims are surrounded by a several hundred claims which were predominately staked after the Cochrane ground acquisition program of March 1983. There is little additional open ground in the vicinity of the Cochrane claims. At the request of Cochrane Oil and Gas Ltd, Nolin Geo Enterprises Ltd. conducted a summer and fall exploration program consisting of Magnetics, VLF-EM, geochemical sampling and geological mapping with field work taking place from June 1983 to August 1983 and from September 1983 to October 1983.

In order to present the results of the exploration program in a more concise form the property was divided into four report areas, covering four contiguous blocks of claims. This report is divided into four sections and covers the following areas:

Giant Mine Grid - a contiguous block of 14 claims

Gold Rock Extension Grids consisting of two blocks of contiguous claims with the Leuilier block containing 12 claims and the eastern section of the Gold Rock extension covering 44 claims.

The Queen Alexander block to the South consists of 92 contiguous claims and for assessment purposes is considered to be contiguous with the Gold Rock Extension grid.

Glass Bay Mine Grid consisting of 77 claims

The claims are outlined on the enclosed composite maps for each report area.

Significant geochemical and geophysical anomalies as well as gold sample assay values were obtained from several areas of this large property.

The most exciting results were obtained near the old Giant Mine Property.

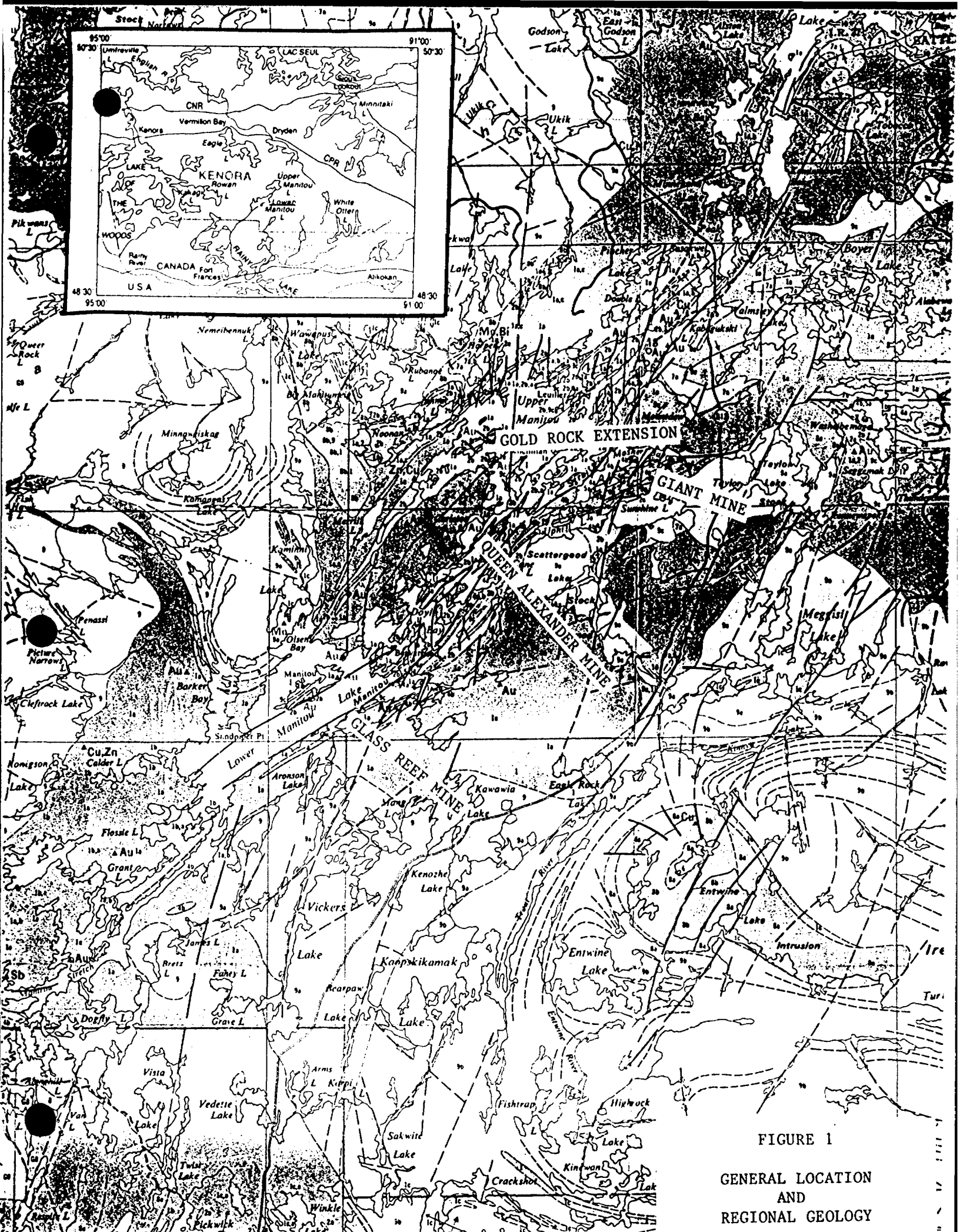


FIGURE 1

GENERAL LOCATION
AND
REGIONAL GEOLOGY

CHAPTER 2

PROPERTY DESCRIPTION AND ACCESS

This property is in the Upper Manitou Lake map sheet (NTS 52F-7), in the Kenora Mining Map Division and is located in the Boyer Lake, Harper Lake and Messissi Lake and Lower Manitou claim sheets. The general location is shown in Figure 1 and the claims are detailed and outlined on the enclosed Composite Maps one of which is enclosed for each of the survey areas.

The area is generally of rugged terrain, timbered with spruce, balsam, poplar and birch with the topography characterized by east-west fault controlled ridges occasionally separated by swampy gullies. In general, outcrop is plentiful and soil development is poor in horizons other than the "A" horizon.

There are at present no roads that provide easy access into the area.

The Giant section of the Property consists of 14 contiguous claims and is on the south shore of Mosher Bay, 26 miles south of Dryden, Ontario (Figure 2). Highway 812 from Dryden to Fort Francis crosses Rattlesnake Creek, approximately a mile and a half east of Mosher Bay. Canoe access is possible with three portages along Rattlesnake Creek or by foot along a rough trail following the creek. Access is also possible by float or ski plane or by a rough 4x4 Wheel Drive or skidoo road to the former town of Gold Rock approximately four miles north of the property then down North Manitou Lake to Mosher Bay.

The Gold Rock Extention section of the Property consist of two blocks of claims, the NW portion is a group of 12 contiguous claims covering Leuiller Island in Upper Manitou Lake and the eastern portion consists of a group of 44 contiguous claims covering Manitou Straits, the eastern shore of Manitou Straits and the SE shore of Trafalgar Bay (Figure 3). All have the same access as the Giant area.

The Queen Alexandra sections of the property consists of 92 contiguous claims and covers the area east and west over the Manitou Straits between Upper and Lower Manitou Lakes. Access was from either Cedar Narrows as was the Glass Bay area or from Gold Rock and Mosher Bay, the same as for the Giant area.

The Glass Reef section of the Property on the shore of Lower Manitou Lake covers the general area from Beaverhead Island in the north to Holcraft Lake in the south east (Figure 5). It consists of 77 contiguous claims and is approximately 35 miles south of Dryden Access to the property is by motor vehicle to

The property is east of the Manitou Straits fault and south of the Mosher Bay-Washeibemasa Lake fault and is predominately underlain by metasedimentary rocks. A major shear zone runs east-west through the old Giant Mine workings. Channel samples on quartz veins in old trenches reconfirmed former reports of 0.6 oz/ton over significant widths from the old Giant Mine. These veins as well as several extensive geochemical anomalies with co-incident conductors warrant further evaluation. The results and recommendations for each area are included in the subsections of this report.

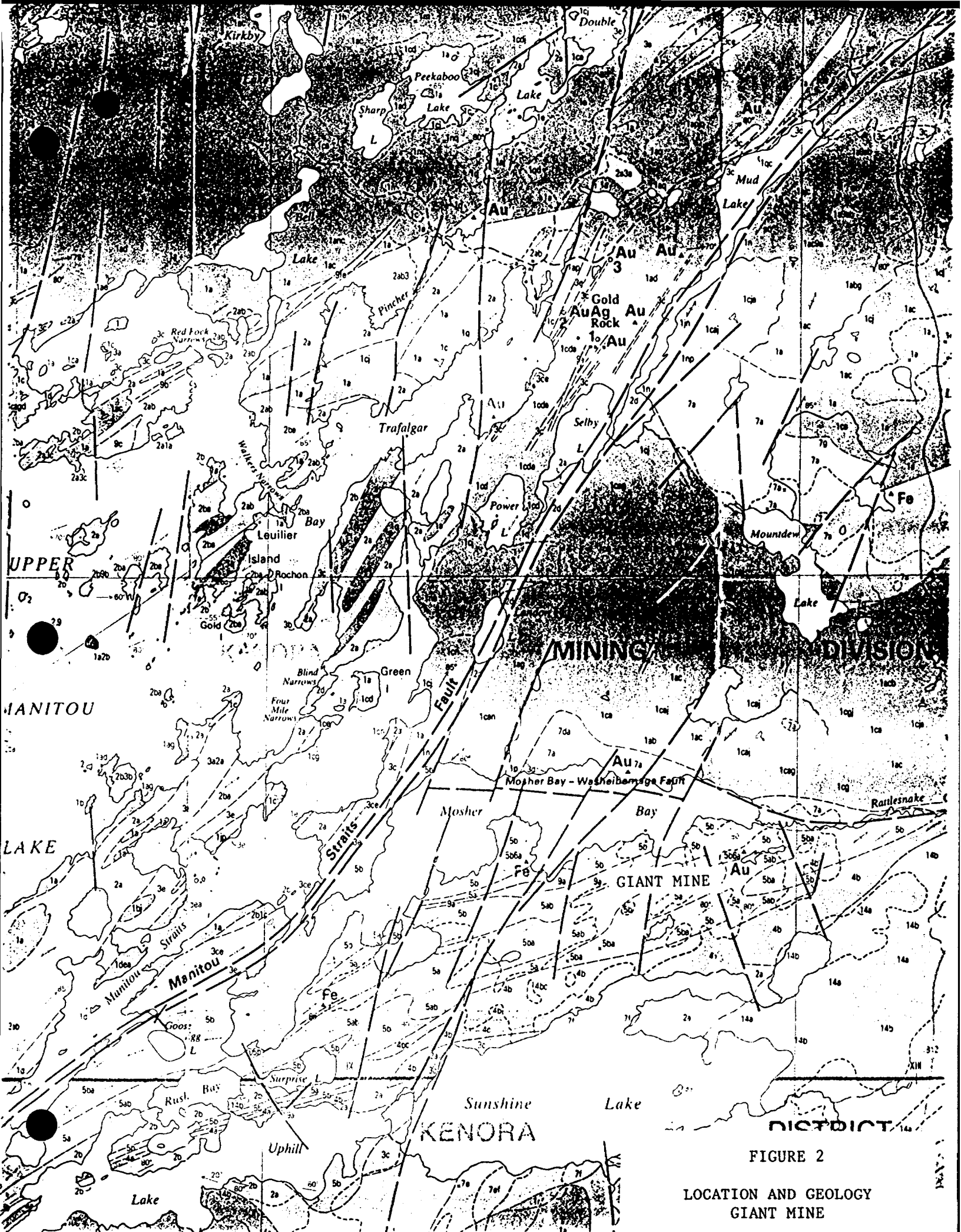


FIGURE 2

LOCATION AND GEOLOGY
GIANT MINE

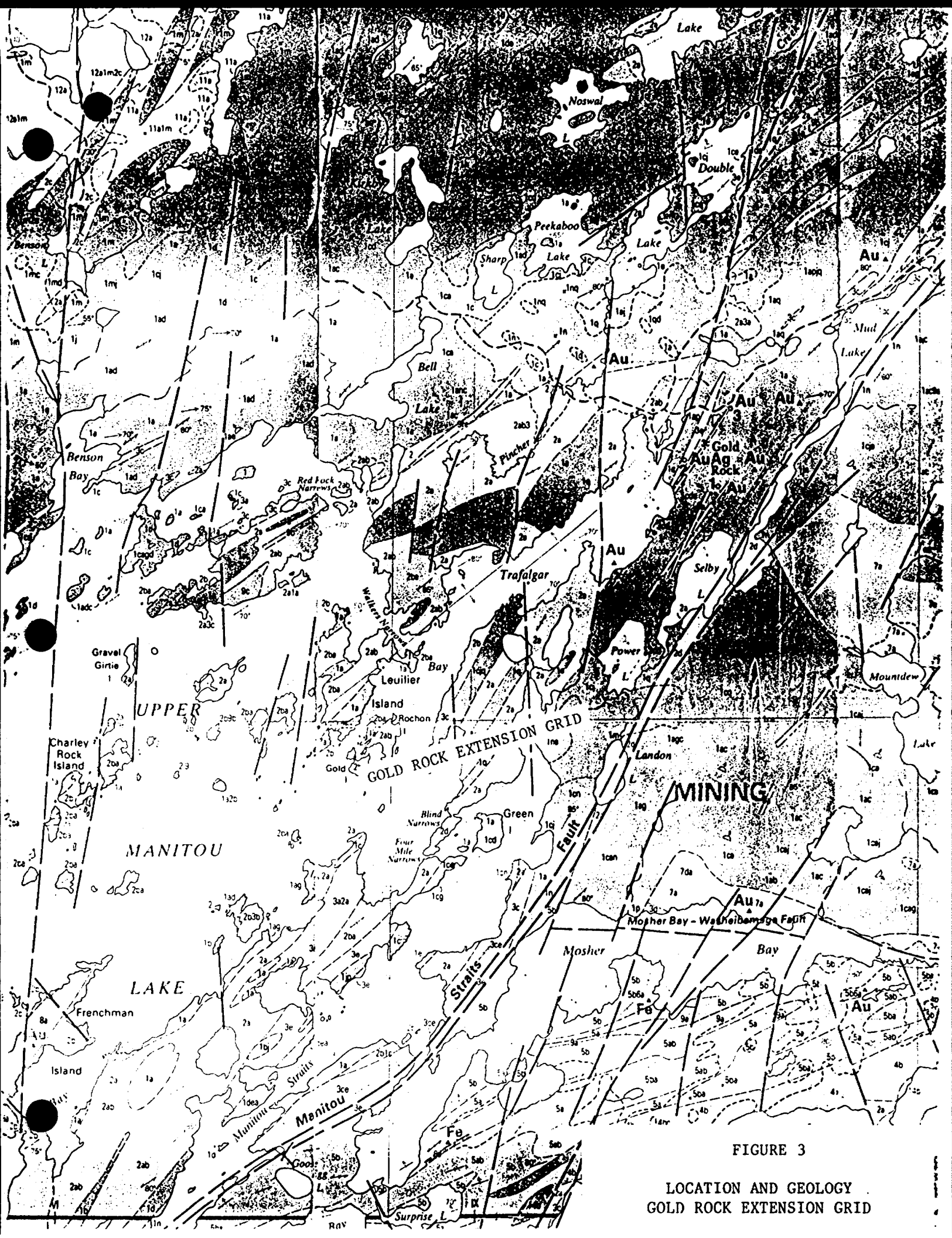


FIGURE 3

LOCATION AND GEOLOGY
GOLD ROCK EXTENSION GRID

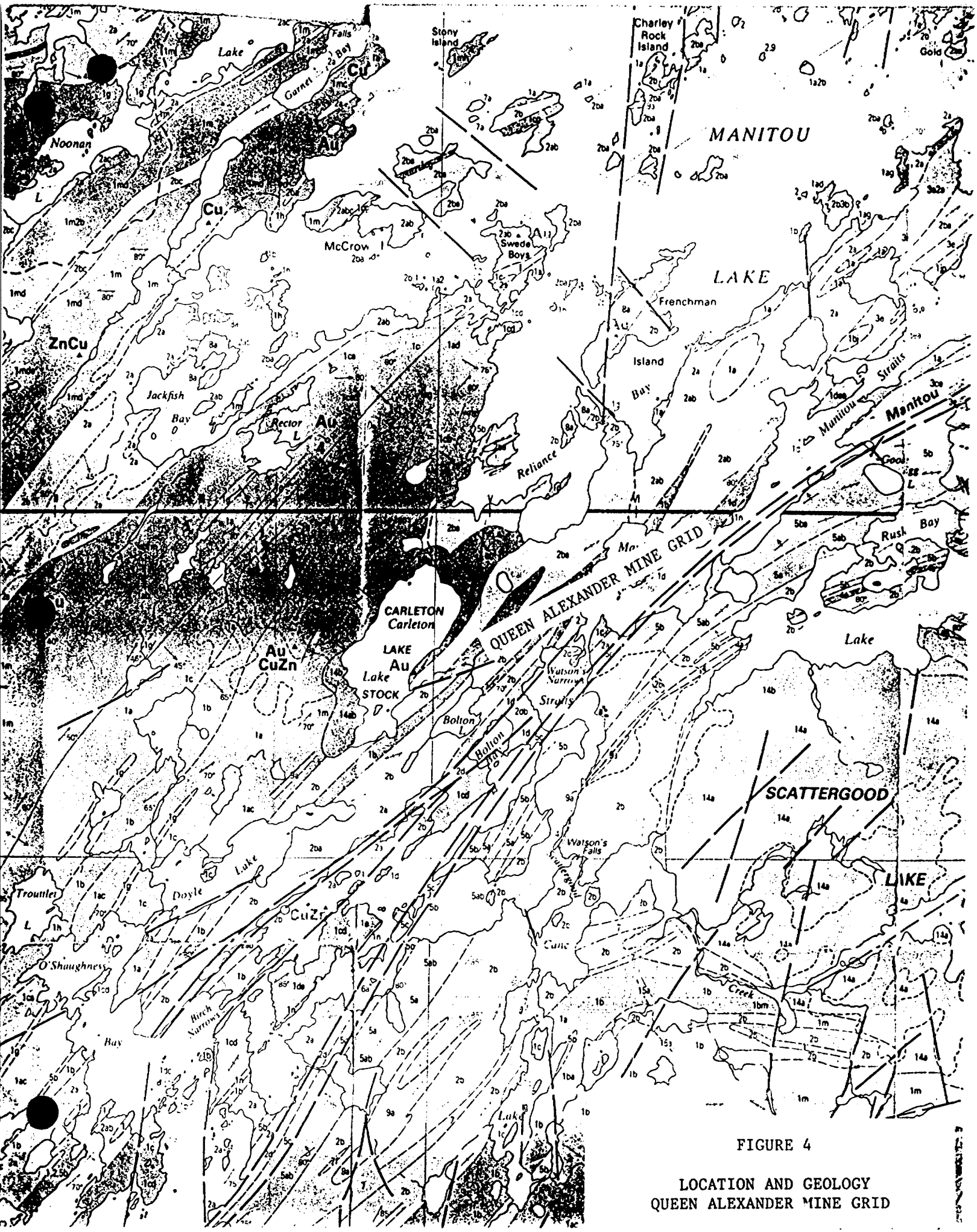


FIGURE 4

LOCATION AND GEOLOGY
QUEEN ALEXANDER MINE GRID

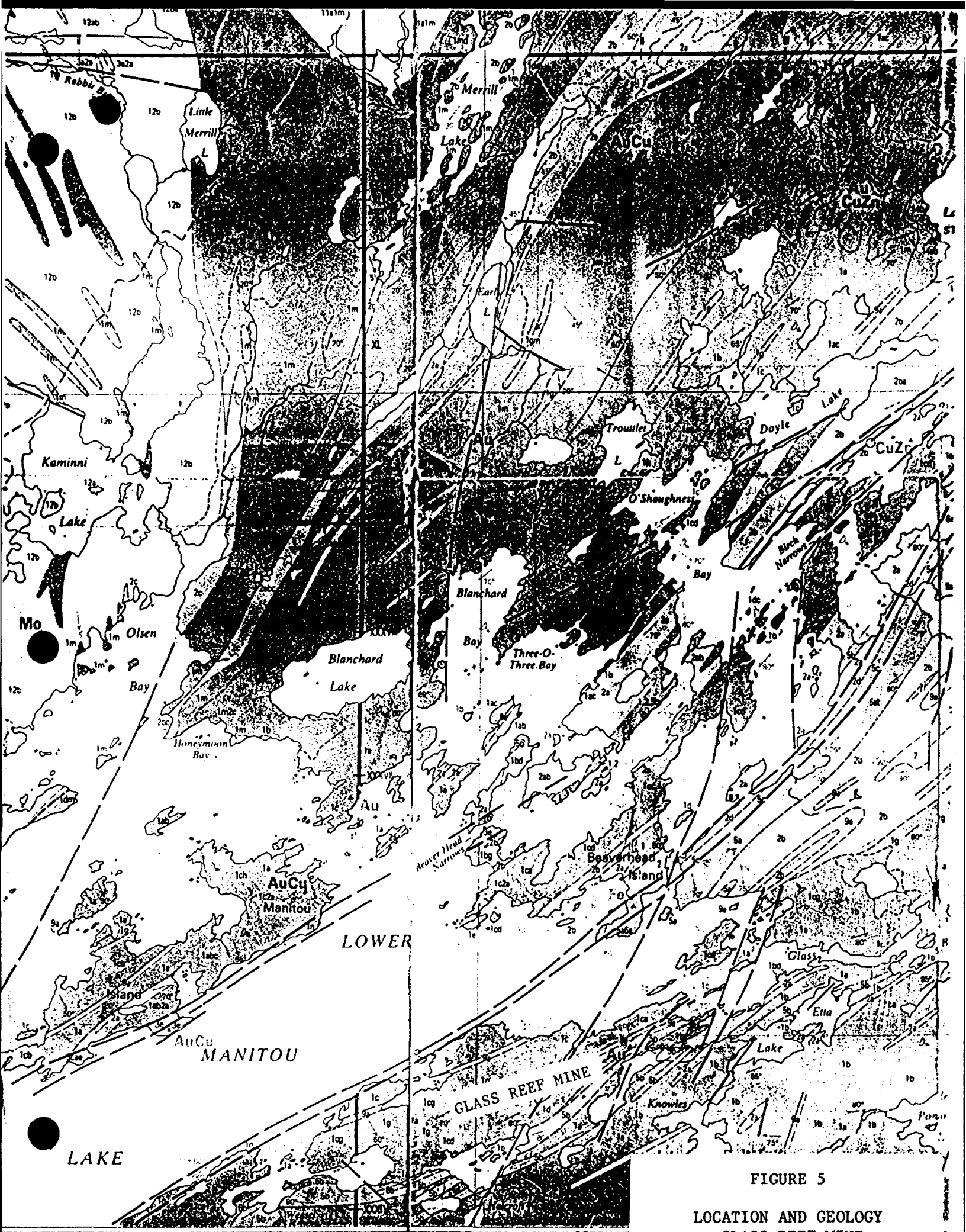


FIGURE 5

LOCATION AND GEOLOGY
GLASS REEF MINE

Cedar Narrows, which is about 55 miles south and 20 miles west of Dryden and then by boat north 20 miles on the Manitou stretch and Lower Manitou lake to Glass or Meridian Bay. Access is also possible by float plane or in the winter by snowmobile or ski plane.

Field work was carried out with the aid of two boats and a canoe. Access to the area was also by float plane out of Dryden or boat trips north from Cedar Narrows, as well as portages on Rattlesnake Creek.

CHAPTER 3

HISTORY

3.1 PREVIOUS GEOLOGICAL WORK

The first geological survey of the Manitou Lakes was undertaken by William McInnes (1895,1896,1897) of the Geological Survey of Canada. McInnes maps (1902) show considerable detail within the west and central parts of the present map area.

Geologists and inspectors of the Ontario Bureau of Mines made short visits to the mines and prospects of the Manitou Lakes Area during the period from about 1895 to 1913 when an active 'gold rush' was in progress. A.P.Coleman (1894,1896) and A.L.Parsons (1911,1912) in the course of inspections for the bureau, made pertinent geological observations during this period. E.L.Bruce (1925) reported on mining developments in 1925 and on his own geological observations in the Manitou Lakes area.

The second geological survey covering the Manitou Lakes area was made in 1932 by Thomson (1933). Thomson returned to the Upper Manitou Lake in 1937 and reported on developments at Gold Rock (Thomson 1938). In 1936 F.J.PettiJohn (1937) while studying Archean sedimentation carried out geological mapping within the present map-area at Mosher Bay and Uphill Lake. During the 1963 and 1968 field seasons, A.M.Goodwin (1965,1970) carried out stratigraphic studies for the then Ontario Department of Mines, allied with systematic sampling of metavolcanic units over the Kenora -Fort Frances area and included the Manitou Lakes in this work. Over the period of 1972-1982 C.E.Blackburn conducted geological surveys over the followings areas: 1972, Lower Manitou-Uphill Lakes (Blackburn 1976); 1973, Upper Manitou Lake (Blackburn 1979A); 1974, 1975, Boyer Lake-Messisi Lake (Blackburn 1979B), Manitou Lakes Area (Blackburn 1982).

3.2 PROSPECTS

The first recorded work in the area began around 1896. In that year a small mill was constructed near the present town of Gold Rock and between 1895 and 1912 reports by the Ontario Bureau of Mines show that at least 20 mines were

According to Carter (1905, p.51) the property was owned by the 'English syndicate' in 1904. There is no record of further work done on the property following that described by Carter.

The author visited the property in 1972, and could find only a small, barren pit. The pit is located within granitic rocks of the Carleton Lake Stock, close to the contact with mafic metavolcanics.

3.2.3 THE GLASS REEF MINE

The following description is taken from Blackburn 1976. 'According to Carter (1901,p 99) Location HW391 and 594 are situated on the east shore of Lower Manitou Lake, south of Beaverhead Island.... The mine had been worked for over a year.... but on December 22,1900, after about two months mill testing of the rock from the mine workings, everything was closed down and no work has since been done. During the period of operation, a shaft was sunk 200 feet (60m) and a considerable amount of drifting and crosscutting was completed (Thomson 1933, p.25); 22 ounces of gold were produced (Statistical Files, Ontario Division of Mines).

Carter (1901) described the deposit and underground developments: The nature of the deposit was described in a former report, it being a faulted and schistose area in a massive dark green trap dike, the schist carrying lenses of quartz. The shaft was started down on one of these and though it pinched out at about 20 feet (6m) depth, sinking continued in the schist, and... the dike of trap explored thoroughly both by drifts and crosscuts, but with unsatisfactory results, for throughout all the drifts nothing but scattered lenses, and stringers of quartz were found, seldom over a foot and a half (0.5m) wide, short and with no apparent continuity, and in the crosscuts nothing but trap.

Thomson (1933) quoted the above description. During his own visit to the property he found: '...no surface exposure of the above-mentioned zone, and the timbers cover the rock in the shaft. However, from the nature of the broken rock on the dump it appears that the 'dike of trap' is a sheared quartz porphyry containing a considerable amount of quartz in the form of a stockwork of small veinlets. The quartz contains a little tourmaline and carbonate with a trace of pyrite. Near the shaft the country rock is massive greenstone, but a large quartz porphyry dike is exposed to the northeast and the strike would carry it very close to the shaft. A grab sample of quartz and schist selected from the material on the dump was assayed but contained no gold values. The author visited the mine in 1972, and substantiated most of Thomson's observations. However, the large porphyry dike was not found. A quartz porphyry dike occuring to the northeast on the shore of Glass Bay had been offset by a north-northeast trending fault, and passes to the north of the shaft. Following closure of the mine in 1900, no further work appears to have been done at this property.'

In the vicinity of the mine The Canadian Nickel Company Limited (1971), Daering Explorers Corporation Limited and Kerr Addison Mines Limited held ground

opened up around the Manitou Lakes area. By 1912 minings in the area had practically ceased with the only three mines, the Laurentian, Big Master and Sakoose ever milling any appreciable amount of ore. Accurate production records were not kept for their operations.

3.2.1 THE GIANT PROSPECT

The old Giant Prospect is located on the southeast shore of Mosher Bay and comprised of mining locations H.W.74 and H.W.75, to which was added in 1904, mining location H.W.185 adjoining to the east. Coleman described the showing in 1897 as follows: 'On Mosher Bay.....a bedded vein with no regular walls runs near a hilltop with a strike of about 65 degrees. The quartz with some rusty schist, all containing more or less gold, is seven or eight feet wide and retains the same character to the bottom of the pit 24 feet deep sunk upon it. The ore pans well and affords some rich specimens of free gold. Some ore taken by myself assays $6 per ton'. Development work was done from 1897 to 1905 on the edge of the hill on an intermittant quartz vein that could be traced, according to Carter (1902) several hundred feet along regional strike on locations H.W.74 and H.W.75. Visible gold was reported by Carter who also reported ' ... a fair percentage of pyrite and chalcopyrite '. A number of pits and trenches were opened up along the strike of the vein, and a shaft sunk on H.W.75 to a depth of 60 meters, with a level at 61.0 m. A second shaft on H.W.185 was early abandoned. An adit was also run into the side of the hill toward the shaft on H.W.75, it was 30 m in length, but no mention is made of it reaching the shaft. Development appears to have been along a line oriented about 60 to 70 degrees east of north, over a distance of 180 m. The country rock is a sericitic schist developed in argillitic metasediments. Minor 1 cm. thick magnetite ironstone bands in sandstone and siltstone over a 1 m wide outcrop are exposed at two localities along the strike from each other about 30 m south of the main prospect. Resampling the old workings verified the existance of gold values to 0.599oz/ton. Regan held the ground in 1974 and drilled two shallow holes by the bay and north of the old Giant workings. Neither holes encountered significant mineralisation.

3.2.2 THE QUEEN ALEXANDER MINE

The following description is taken from Blackburn 1976. 'The following account is taken from Thomson (1933,p.27): In 1904 a shaft was sunk 85 feet (25m) on a quartz vein located on claim H.W. 270 on the eastern shore of Carleton lake...18 tons of ore were treated in a small stamp mill erected on the property, and this produced $16.00 per ton in gold.

Very little can be seen now at the shaft. There is no vein exposed. The rock dump consist of chlorite schist with small lenses of quartz, both of which carry a little pyrite. A grab sample of this material assayed $1.80 per ton in gold. The country rock is an andesite schist cut by granitic dikes.

in the area. They carried out ground geophysical surveys which indicated the presence of both ground conductors and magnetic anomalies. A Canadian Nickel diamond drill hole indicated the presence of massive sulphides but no record of any gold analysis is available. The nearby Gaffney and Bee Hive prospects have gold associated with massive sulphides.

CHAPTER 5

GENERAL GEOLOGY

The general geology is mainly taken from reports by Blackburn who conducted several very thorough studies in the area. These studies are covered in several Ontario Department of Mines publications referenced by this report. The main structural feature is the Manitou Straits Fault which trends diagonally northeast-southwest through the report area.

The report area includes the west and central part of the Manitou Strait Lakes metavolcanic-metasedimentary belt. The Early Precambrian rock succession consists of a number of thick volcanic sequences, consisting of mafic to felsic flow and pyroclastic rocks and minor clastic and chemical sedimentary rock. Mafic to felsic rocks of batholitic stock and sill-like form intrudes these supracrustal sequences at various levels.

The Early Precambrian metavolcanics, metasediments and subvolcanic intrusive rocks Blackburn assigned to seven groups. Four of these groups are southeast of the Manitou Strait Fault, and three are northwest of it. In ascending structural order, the former are as follows. The Wapageisi Lake group comprises a thick, lower subgroup of tholeiitic basalt with komatitic trend and upward passage from magnesium to Fe-rich, an overlying mixed pyroclastic-epiclastic-mafic volcanic formation, and an upper mafic volcanic formation. The Manitou group comprises a lower calc-alkaline, dacite to andesitic pyroclastic formation intruded by a subvolcanic calc-alkaline dacite porphyry body, an overlying marginally alkalic trachybasaltic volcanic formation and associated sills, the two upper epiclastic formations. The Stormy Lake group, a lateral equivalent of the Manitou group, is a heterogeneous assemblage of calc-alkaline andesitic to dacite pyroclastic and epiclastic rocks, and has been intruded by a subvolcanic calc-alkaline dacite to rhyolitic porphyry body. The Boyer Lake group comprises predominantly tholeiitic Fe-rich basalt flows, with minor calc-alkaline dacite, intruded by mafic and ultramafic sills and sill-like bodies. The Wapageisi Lake group is overlain conformably by the Manitou and Stormy Lake groups; the Boyer Lake group structurally overlies the Manitou and Stormy Lake groups along the Mosher Bay-Washeibemaga Lake Fault.

The three groups northwest of the major fault are as follows, in ascending structural and conformable stratigraphic order. The Blanchard Lake group comprises predominantly tholeiitic Fe-rich basalt flows. The Upper Manitou Lake group is a heterogeneous assemblage of calc-alkaline granodiorite to quartz dioritic porphyry body. The Pincher Lake group comprises seven formations which

CHAPTER 4

LAND STATUS

A total of 239 claims were staked by Geotest Corporation in March 1983 on behalf of Sennol Resources Limited. Sennol Resources Limited optioned a majority interest in the property to Cochrane Oil and Gas Ltd. who now hold title to the claims. The location of this property is shown on the enclosed composite maps and a list of the claims and anniversary dates covered in this report are included as APPENDIX 'B'. A seperate breakdown of assessment days and expenses for each of its four contiguous blocks is included as APPENDIX 'A'.

are composed alternately of mafic flows and intermediate pyroclastics. The group also includes a tholeiitic to calc-alkaline, Fe-rich basaltic to rhyolitic sub-group that is laterally equivalent to these seven formations, and a gabbro body that is probably subvolcanic.

Correlation is made across the Manitou Straits Fault between the Wapageisi Lake and Blanchard Lake groups, and between the Manitou and Upper Manitou Lake groups, but not between the Boyer Lake and Pincher Lake group. The Mosher Bay-Waheibemaga is a thrust fault along which the Boyer Lake group has been emplaced above the Manitou group.

Stratigraphic units northwest of the Manitou Straits Faults are tightly folded about the Manitou Anticline. Southeast of the Manitou Strait Fault, stratigraphic units south of the Mosher Bay-Washeibemaga Lake Fault face homoclinally north, whereas the Boyer Lake group is folded about the Kamanatogama Lake Syncline.

Gold mineralization has been interpreted for the most part to be epigenetic and to have been generated by metamorphic secretion from mafic volcanic rocks and felsic subvolcanic bodies during epizonal intrusion and tectonism. The possibility exists that syngenetic or remobilised syngenetic mineral deposition or strata-controlled and localised mineralisation may co-exist with the tradational vein type mineralisation in this area.

TABLE 1

Lithologic Units For The Manitou Lakes Area
C.E.BLACKBURN(1980)

CENOZOIC
  Quaternary
    Pleistocene and Recent
      Clay, sand, gravel, boulders, muck.
      Unconformity

MIDDLE TO LATE PRECAMBRIAN (PROTEROZOIC)
  Mafic intrusice rocks
      Diabase.
      Intrusive contact

EARLY PRECAMBRIAN (Archean)
  Post tectonic intrusive rocks
    Felsic plutonic rocks
      Porphyritic, seriate and equigranular hornblende-biotite granodiorite and quartz monzonite; pegmatite, aplite.
      Intrusive and Gradational Contact
    Intermediate Plutonic Rocks

Hornblende monzonite; hornblende diorite and syenodiorite.

Intrusive contact

Late Tectonic Intrusive Rocks

Felsic Plutonic Rocks

Equigranular, seriate and porphyritic biotite quartz monzonite and granodiorite; quartz monzonite and granodiorite gneiss; pegmatite, aplite.

Intrusive and Gradational contact

Intermediate Plutonic Rocks

Hornblende and biotite-hornblende diorite and quartz diorite.

Intrusive contact

Early Tectonic Intusive Rocks

Felsic Plutonic Rocks

Hornblende-biotite quartz monzonite and granodiorite; quartz monzonite and granodiorite gneiss; fine grained granitic rock; pegmatite, aplite.

Intrusive contact

Early to Late Tectonic Intrusive Rocks

Felsic Hypabyssal Rocks

Quartz-feldspar and feldspar-quartz porphyry; felsite; granophyre and granitic rocks sericitized and sheared felsic hypabyssal rocks; carbonatized felsic hypabyssal rocks, aplite.

Intrusive contact

Intermediate Hypabyssal Rocks

Microgranodiorite and micro quartz diorite porphyry.

Intrusive contact

Metamorphosed Mafic and Ultramafic Intrusive Rocks

Gabbro, troctolitic gabbro; diabase; pyroxenite and pyroxenite gabbro; peridotite, lamprophyre; granophyre.

Intrusive contact

METASEDIMENTS

Chemical Metasediments

Magnetite ironstone; chert.

Clastic Sediments

Conglomerate; sandstone, mudstone; sericite schist.

METAVOLCANICS

Alkaline Mafic Volcanics

Hornblende-feldspar phyric flows; amygdaloidal flows; volcanic breccia.

Subalkalic Felsic Metavolcanics

Tuff, lapilli-tuff, tuff-breccia; flows; quartz-feldspar porphyry; sericite-chlorite schist.

Subakaline Intermediate Metavolcanics

Tuff, lapilli-tuff; tuff-breccia; quartz-feldspar-biotite schist and gneiss; chlorite-sericite schist.

Subalkaline Mafic Metavolcanics

Medium to fine grained flows; coarse grained flows(gabbroic); pillowed flows; plagioclase-phyric flows; plagioclase-phyric pillowed flows; autoclastic breccia; plagioclase-phyric coarse grained flows; amygdaloidal flows; variolitic flows; amphibolite, amphibolitic migmatite; chloritic schist; carbonatized flows; tuff, lapilli-tuff; tuff-breccia.

CHAPTER 6

AIRBORNE GEOPHYSICS

A regional airborne geophysical survey was carried out over the Manitou - Stormy Lakes area by Ontario Department of Mines in 1980.

The system used was the TRIDEM system operated by Kenting Earth Sciences, Ottawa in a Canso aircraft. The survey is normally carried out with a mean ground clearance of 150 feet and the results as shown on the published maps show a large amount of detail.

There are known massive sulphides in the area and these should be located by this type of survey. The TRIDEM system has shown the ability to map structures in this type of geological environment, and is therefore considered to be an excellent mapping tool.

The magnetic results obtained during the airborne survey are excellent as the flying elevation is sufficient to considerably reduce the near surface effects but be close enough to provide high resolution.

The published airborne survey data was used to carry out a basic interpretation of the TRIDEM and magnetic data prior to the survey and ground survey grids were planned over the better rated anomalies.

CHAPTER 7

EXPLORATION PROGRAM

These surveys were designed to obtain as much geological information as possible over four large survey areas extending for twenty five miles in rugged terrain along the Manitou Straits fault. Areas with known Gold mineralisation received more detailed exploration. On all grids new trends, structures and anomalies were found which warrant further exploration. The general programs are described below and 4 specific detailed subreports are included as part of this report.

7.1 MAGNETIC SURVEY PROGRAM AND SPECIFICATIONS

A Geometrics G-816 proton precession magnetometer was used for the survey and a technical specification sheet is included in APPENDIX J.

Readings were normally taken along the survey lines in a series of loops closed to established base stations and corrected for drift and base level in the normal manner. Normally all survey work was carried out with the sensor on the staff producing a repeatability of 1 to 2 gammas. Station spacings were normally at 25 meter intervals along the survey lines.

Field values were plotted as final corrected total field readings. The readings in general show considerable variation due to the local geology and are not contoured in the normal manner but are colour coded based on amplitude. Some of the more regional survey data has also been profiled.

7.2 ELECTROMAGNETIC SURVEY (VLF) - PROGRAM AND SPECIFICATIONS

A Geonics EM-16 unit was used for the survey and a technical specification sheet is included in APPENDIX J.

The VLF station at Cutler Maine was used although as it was approximately on strike with the general Northwest trending structures in this area. Many more southerly trending structures require further detailing with a mobile transmitter type EM system such as the Crone Shootback system (CEM). Geonics EM-16 units were used with dip angle and gradrature reading being taken at every

station. All readings were presented as stacked profiles perpendicular to the survey line direction. The VLF conductors are marked on the interpretation maps.

7.3 GEOCHEMICAL SURVEY PROGRAM AND SPECIFICATIONS

'A' horizon humic geochemical samples were generally taken on the above described grids. A total of 687 samples were collected. Samples were taken with geology hammers and portable shovels and standard kraft sample bags were filled as full as possible.

The purpose of the regional reconnaissance geochemical sampling survey over the grids was to locate and define specific gold anomalies or targets and to locate pathfinder elements either on or related to favorable geological structures and rock types.

Samples were sent to Barringer Magenta Limited Labs in Calgary for their 'GOLD PRINT' analysis by atomic absorption spectrophotometry with element detection levels of:

Au - 5 ppb
As - .2 ppm
Ag - .2 ppm
Hg - 5 ppb
Sb. - .2 ppb

A total of 109 rock samples were taken on rock outcrop which had potential for gold mineralisation. These samples were assayed for gold or were subjected to gold geochemical atomic absorption analysis by Barringer.

All geochemical results are included as APPENDIX D.

7.4 GEOLOGY SURVEY PROGRAM

Detailed geological mapping at a scale of 1:2000 was done on the Giant grid on lines normally 100 meters apart.

Reconnaissance geology was done on the other three areas at 1:5000

CHAPTER 8

THE GIANT MINE GRID (MOSHER BAY)

8.1 EXPLORATION PROGRAM

The location of the survey area relative to the airborne TRIDEM survey is shown in Figure 6.

A few weak TRIDEM conductors are located over the property and were planned to be covered by the ground survey. Interpretation of the airborne magnetic data suggests that there a number of north-south or northwest-southeast trending faults as indicated on Figure 6. Some of these may not be detected by the ground VLF survey due to the transmitter orientation.

A strong east-west trending magnetic anomaly may be due to iron formation which has been mapped locally.

The property was gridded with north-south lines spaced 100 meters apart with stations spaced at 25 meter intervals. At each station an 'A' horizon geochemical sample was collected and magnetic and VLF-EM readings were taken and recorded. These lines were run using hip chain and compass. The lines were flagged and blazed and a base line was cut and picketed. All stations were flagged and labelled and cover the entire claim block. A total of 725 samples were collected of which 366 were analysed and approximately 20 kms. of line was run.

Concurrent with the geophysics and geochemistry a coincident detailed geological mapping program was carried out at the 1:2000 scale. These surveys provided the basis for further exploration and development on the property and outlined several significant geological trends, structures and anomalies with high grade gold values.

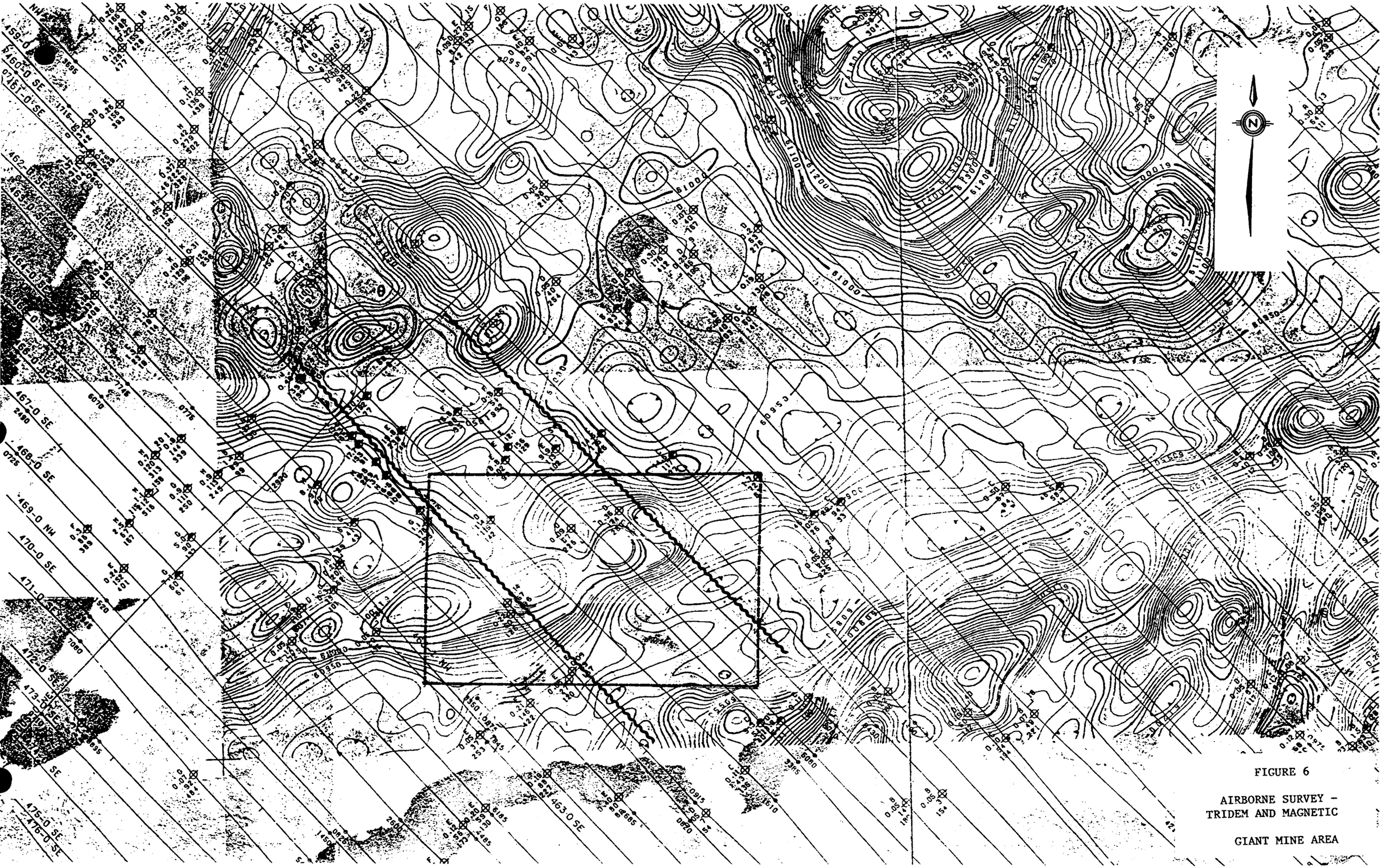


FIGURE 6

AIRBORNE SURVEY -
TRIDEM AND MAGNETIC

GIANT MINE AREA

8.2 GIANT DETAILED PROPERTY GEOLOGY (Map 1)

The property is underlain by a thick Archean sequence of clastic sediments deposited upon a volcanic basin floor. Porphyritic andesitic flows with associated volcanic breccia are exposed in the southeastern portion of the grid. These are presumed to be the oldest lithologies present. Clastic marine sediments consisting of greywache, siltstones, conglomerates, sandstones and argillites with minor interlayered oxide facies banded iron formation conformably overlie the volcanics.

Post depositional tectonism has tilted the generally northeast trending rock units so that they are now nearly vertical or dipping steeply to the north. Metamorphism and deformation implanted a penetrative foliation to all lithologies within the volcanic-sedimentary complex. Shearing, mostly confined to the finely grained clastic sediments, resulted in highly schistose metaequivalents to the orisinal lithologies.

Porphyritic granitoid stocks and dikes crosscut both volcanics and sediments and parallel foliation. Late stage quartz veins occupy various dilation zones within the highly sheared portions of the sediments and as well as various small fractures within the less deformed sedimentary lithologies.

The foregoing description is summarized in the Table of Formations as follows:

TABLE 2

TABLE OF FORMATIONS

EON		LITHOLOGIES	
P		Quartz and Quartz-feldspar porphyry	
R	A	Quartz and calcite veins	
E	R		
C	C	INTRUSIVE CONTACT	
A	H		
M	E	Greywacke-siltstone	Quartz-biotite schist-
B	A	Polymitic conglomerate	schist, Quartz-sericite-
R	N	Sandstone, Argillite	chlorite schist
I		banded iron fm.	
A			
N		CONFORMABLE CONTACT	
		Andesite, volcanic breccia	

Volcanics of andesitic to basaltic composition (based upon color index) outcrop in the southeastern portion of the grid. Characteristic fine grained massive dark green to black andesite with 15% amphibolite phenocrysts to 5m.m. in size typify the flows. Blocky fracture is common. Volcanic breccia composed of subangular to subrounded andesite fragments randomly scattered throughout massive fine grained non-porphyritic dark green andesite grades into the overlying porphyritic flows. The volcanics are apparently conformably overlain by a thick sedimentary package which predominates the geology of the claimed area.

Greywache-siltstone composed of very fine grained sediment directly overlies the volcanics. This material, likely representative of the initial volcanically derived basin infill, grades upward (to the northwest) through somewhat increased quartz and feldspar content (lighter color index) and occasional inclusions of quartz and chert pebbles into arkosic silt and sandstone and pebble conglomerate.

Polymictic pebble to boulder conglomerate forming a thick coarsely clastic wedge underlies the west-central portion of the grid. Weakly layered, moderately well sorted, variable matrix and clast supported, sub to well rounded pebbles through boulders of granitoid, chert, jasper and occasionally andesitic lithologies are set in a sandstone with minor siltstone matrix. The matrix grades compositionally from wacke to arkose. Massive, fine to medium grained, quartzofeldspathic sandstones and siltstones are interlayered with and surround the conglomerate wedge in three directions. The finer clastics are coeval with the arkosic conglomerate matrix. Silts predominate in the north and east with some minor inclusion of mafic sediment noted variably throughout.

Continued clastic fining takes place toward the northeast part of the grid with arkosic siltstone and very fine grained, well laminated, grey and black argillites exposed along the shore of Mosher Bay. Quiescent, relatively shallow sedimentation is represented by thin bands of magnetite iron formation (oxide facies) mapped in the central portion of the grid and reported to occur within the eastern sector of the area.

A minimum thickness of two meters is observed on Line 110E. Regional metamorphism has elevated the entire volcanic sedimentary package to at least the lower greenschist facies and imparted a penetrative foliation to the finer grained lithologies in the form of platey mineral alignment.

Intense shearing along a broad east-northeast trending zone located in the central portion of the grid resulted in the formation of the meta-equivalents of the deformed fine grained sediments. Very fine to fine grained quartz-biotite-chlorite schist, quartz-sericite schist and quartz-sericite-chlorite schist typify the shear zone.

Felsic intrusives and their meta-equivalents, coarse to medium grained quartz and K-feldspars, cut the stratiform units. The porphyry is typically composed of

70-80% K-spar and Albite
10-15% Quartz

10% Biotite
5% Amphibolite
There are occasional scattered fine euhedral pyrite crystals along contacts with intrusive dikes parallel to foliation.

Massive white quartz veins of variable thickness from one meter to 5m.m. occur with the dilatant zones parallel to schistocity in the main shear zone and in fracture cleavages generally throughout the volcanic sedimentary complex.

8.2.1 MINERALIZATION

Gold bearing quartz and calcite veins parallel schistocity for over 1000 meters within the major shear zone. Exploration and significant development dating from the 1890's was targeted on the mineralized veins. Two shafts, approximatelly 1000 feet apart, an adit and numerous trenches are shown on the accompanying map. Reported gold values from these workings assayed over 0.6 oz/ton.

The quartz/calcite veins vary in thickness from approximately 2.4 meters to a few millimeters. Lateral and vertical continuity is unproven but is implied by the 60 meter depth attained by the easternmost shaft and the occurance of quartz vein Fly Rock in many of the trenches. Crude zoning with calcite margins in quartz veins and localized veins were also noted.

Definitive channel sampling was completed on trench 102+88N; 117+22E. Gold assays ran 0.599 oz/ton and 0.508 oz/ton over two parallel quartz veins each 0.8 meters wide. These veins were separated by 1.0 meters of quartz-sericite schist which assayed 0.017 oz/ton. A one meter sample of footwall rock was assayed and ran 0.019 oz/ton - Figure 10. A grab sample in the vicinity of 117E assayed 0.155 oz/ton - Figure 11. Due to the deteriated condition of most of the old workings generally precluded proper sampling at this time, however, numerous random grab samples of loose quartz vein material around many of the trenches and in situ highly sheared pyrite bearing quartz were taken. Sericite schist was also assayed for gold content.

Map units varied considerably as mentioned above, the highly sheared quartz sericite schist within the main shear zone had a pyrite content normally in the range of 1-2%, occasionally running as high as 15%.

Regan (1974) drilled two holes on the property near the edge of the lake but these could not be located. The approximate locations are shown on the Composite Map and it is obvious that the holes were not near any of the mine workings.

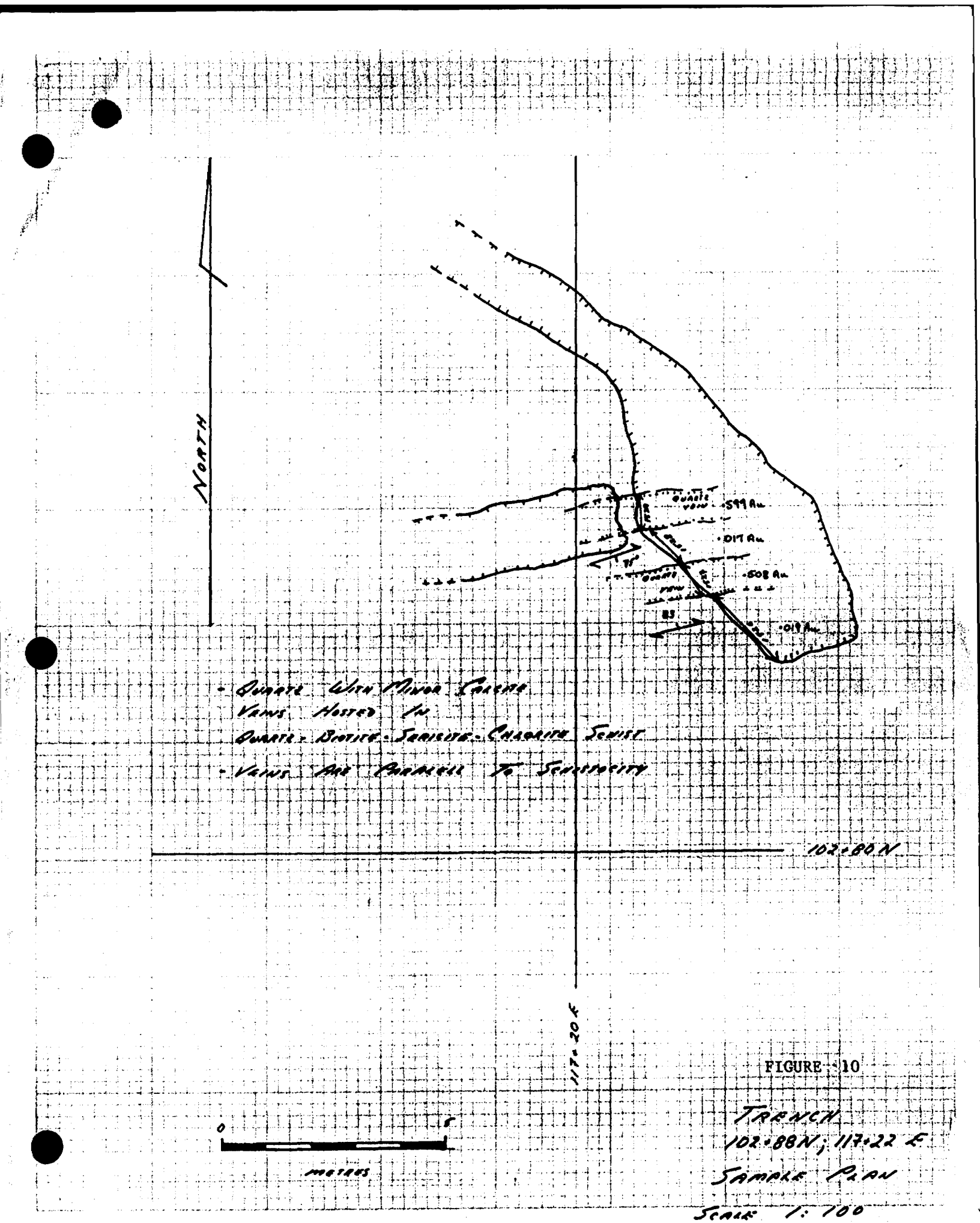


FIGURE 10

TRENCH
102+80N; 117+22 E
SAMPLE PLAN
SCALE 1:100

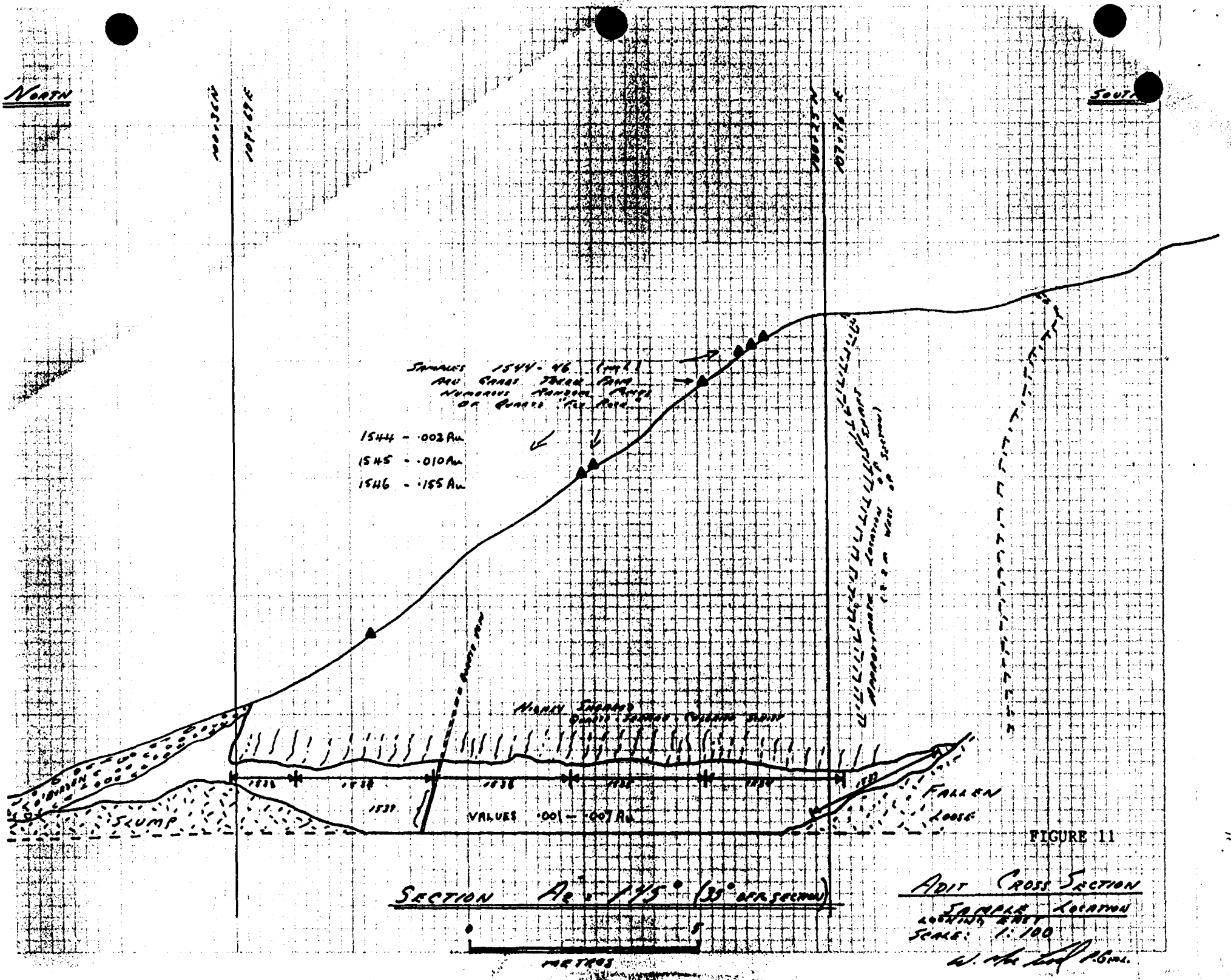


FIGURE 11

ADIT CROSS SECTION
SAMPLE LOCATION
LOOKING EAST
SCALE: 1:100

8.3 GEOCHEMISTRY

A total of 725 'A' horizon soil samples were taken. Of these 366 were initially analysed as described above. Geochemical statistical analysis were run for arsenic and mercury. The mean and standard deviation were calculated.

The grid over the Giant claims defined a number of very significant anomalies some of which are related to (1) Gold mineralisation (2) geology (3) geophysical anomalies.

Antimony (Sb) results showed very little variation with only 5 samples above the minimum detection level. These values have not been plotted but are included with the listings in APPENDIX F.

Silver (Ag) results showed some variation above the minimum detection level and do show some correlation with arsenic and VLF anomalies. The values have been posted on Map 5 with only values greater than 0.2ppm presented.

Gold (Au) results showed 67 values above the minimum detection level of 5ppb. Values of 10ppb or greater were obtained at 7 locations with a maximum value of 140ppb. The gold values have been plotted on the VLF map (Map 6).

Arsenic (As) results have been posted and contoured (Map 3). Statistical analysis showed a mean of 1.97ppm and a standard deviation of 2..08ppm. These values were used to colour code the postins and contourins with values below 2ppb in black, mean plus one standard devation (2- 4ppb) in green and blue with all values greater than 4ppb in red.

Mercury (Hg) results have been posted and contoured (Map 4). Statistical analysis showed a mean of 135.4ppb and a standard deviation of 56.6ppb. These values have also been posted and contoured on the following basis - less than 135ppb in black, 135-195 in green and blue with values greater than 195 in red.

In general arsenic appears to be the best pathfinder element in this area. Anomalies are closely reated to the major shear zone or to VLF conductors. Mercury is widespread and apparently often associated with swamps.

8.4 GEOPHYSICS

The TRIDEM survey over the property is shown in Figure 6. The results showed a linear east-west magnetic anomaly which may be related to iron formation. The electromagnetic data shows a conductor which was interpreted to be a bedrock source and not an overburden effect. A number of faults have been interpreted as indicated on the basis of the aeromagnetic results. The survey grid was orientated with an east-west baseline in order to locate the TRIDEM conductor as well as cover the area of the old mine workings.

The results of the ground geophysical surveys are described as follows:

8.4.1 VLF SURVEY

The VLF response is typical of the surveys throughout the Manitou Lakes area. The dip angles are very large and can show considerable variation over short distances which can make the data look very noisy and of poor quality but field checking at intermediate stations confirms that the data is in fact correct. The response is characteristic of multiple fractures with little masking effect from overburden.

The results show a large number of interpreted conductors which have been indicated on the Composite Interpretation map (Map 2). The source of the anomalies is probably from a number of shear zones parallel to the main shear mapped through the old mine workings. There is no definitive anomaly associated with the mine locations although a very strong anomaly is directly related to the mapped shear zone to the west - Lines 100 to 104. It would appear that east of Line 104 the main shear zone has been displaced to the north by a cross fault interpreted from the airborne survey and any original conductivity has been lost by some form of fracture infilling. This may have had some relationship to the gold emplacement locally.

A number of north-south faults have been mapped on the regional geology as well as interpreted from the airborne survey. The limited choice of VLF transmitter stations combined with the property location make it impossible to locate these faults with the VLF method unless a portable ground station were used.

8.4.2 MAGNETIC SURVEY

The magnetic results (Map 7) show a general high and considerable variation over the mapped shear zone. A mapped narrow band of iron may be the source of the anomaly if it continues across the grid area. The area at the north-east part of the grid is considerably lower than the rest of the property and may indicate a change in geology although nothing is obvious on the geological mapping.

8.5 CONCLUSIONS

Geological mapping has shown the property to be underlain by a thick Archean sequence of clastic sediments deposited conformably upon an intermediate to felsic volcanic basin floor. A major continuous shear zone related to post-depositional deformation within the finer grained sedimentary facies strikes east-northeastwards through the central portion of the grid. Gold mineralization appears to be related to quartz/calcite veins and possible vein stockworks parallel to foliation within the major shear zone. Previous exploration and development of the mineralized veins dates back to the 1890's with the opening of the two shafts, an adit and numerous trenches.

The present deteriorated condition of the workings preclude definitive sampling without significant rehabilitation of the opening.

Channel samples across two quartz veins exposed in a trench immediately east of Line 117E ran up to 0.599 oz/ton.

Significant geochemical and geophysical anomalies cover a large area through the shear zone and into adjacent metasedimentary rock.

The subject claims, acquired in 1983, do not properly tie onto the one valid competitor claim integral to the block thereby creating a fraction of open ground.

8.6 RECOMMENTATIONS

Continued exploration is warranted on property as justified by the presence of significant gold mineralization. The recommendations are as follows:

i) analysis, plotting and evaluation of the remaining 359 unanalysed samples

ii) a program of Max-Min or CEM used to verify VLF conductors with associated Geochemical anomalies. Areas are shown on the Composite Interpretation map on a priority basis.

iii) a comprehensive diamond drill program to test lateral, vertical and grade continuity of known surface and underground gold bearing quartz/calcite veins as well as detailed priority targets outlined in paragraph ii)

iv) Contingent on results of this work consideration should be given to reblasting, mucking and sampling the existing trenches and workings Consideration should be given to using a back-hoe for this operation. Additional trenching and stripping should be done over additional prospective areas.

v) A detailed induced polarization survey should be considered for next summer over the major shear zone and adjacent metasediments in order to possible define sulphide occurences and prospective geology.

vi) The claim disposition of both the subject claims and competitor property should be ascertained by survey and every effort made to acquire the undivided ridges to the existing fractions. In addition, consideration should also be given to entering into an option agreement in the competitor ground to enhance the present property position.

CHAPTER 9

GOLD ROCK EXTENSION

9.1 GENERAL EXPLORATION PROGRAM

The location of the property relative to the airborne TRIDEM survey is shown in Figure 7. A number of strong conductors were located by the survey and considered worth locating on the ground.

Linear magnetic trends are probably due to different rock types along the Manitou Fault with the strong high over Leuiller Island possibly due to an intrusive.

The three main land sections of the property were gridded with 22 reconnaissance lines generally run perpendicular to structure at 312 degrees with a geophysical station spacing at 25 meter intervals. VLF readings were taken at all stations, (Map 10), with magnetic survey restricted to Leuiller Island, (Map 11). Line locations were selected to define the airborne anomalies. A total of 87 'A' horizon geochemical samples were taken of which 61 were assayed, (Map 9). These lines were run using hip chain and compass, the lines were flagged and stations were flagged and labelled. Reconnaissance geology was done along gridded lines, (Map 8). Over 5 kilometers of line was run and 210 stations were covered by geophysics and geochemical sampling.

9.2 GEOLOGY (UPPER MANITOU LAKES)

This property is on the NW side of a major fault zone, the Manitou Straits Fault which strikes NE. The Archean Stratigraphic sequence is from predominately older mafic metavolcanics to younger predominately pyroclastic rocks intermediate to felsic with some intermediate subalkalic felsic flows. Mafic and felsic volcanics were often interbedded. Ultra mafic gabbroic type rocks outcrop on the southern tip of Leuiller Island and later intrusive quartz feldspar porphyry dikes are present throughout the area.

The rocks are generally metamorphosed to the Greenschist facies with local more chlorite rich assemblages probably caused by retrograde metamorphism due to

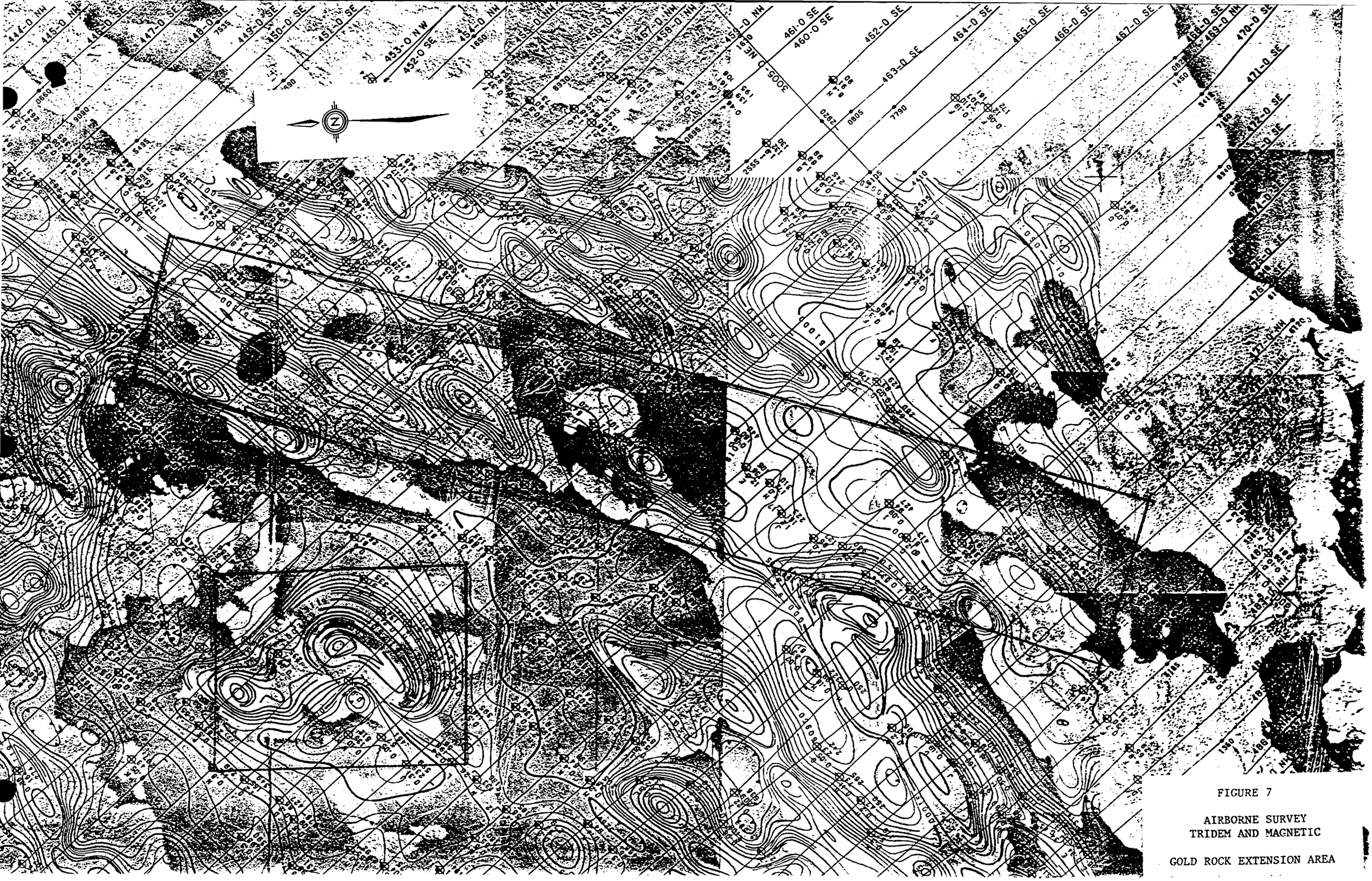


FIGURE 7

AIRBORNE SURVEY
TRIDEM AND MAGNETIC

GOLD ROCK EXTENSION AREA

shearing and faulting. Chlorite-sercite types of schist is abundant in the center portion of the grid close to the Manitou Straits fault or crossing faults striking in a generraly northerly direction. The regional strike of both bedding and foliation is generaly to the NE and dipping steeply to the east. The area is cut by numerous cross cutting faults striking from NW to N.

This geology is very similar to the geology to the immediate south which hosts the Swedeboys Prospect as well as that to the north where numerous Gold Rock mineral prospects are located. Sulphides have been noted on several portions of the property and quartz veins sampled near favourable geological gold depositional environments have yeilded values to 0.05i, (Map 8) on the southern tip of Leuiller Island near mafic intrusive rocks and structure as well as 0.044oz/ton gold near the southern shore of Trafalgar Bay, (Figure 12), in felsic to intermediate facies rock near the contact with more mafic flow type volcanics.

9.3 GEOCHEMISTRY

The geochemical results are presented as a posted map of Antimony, Arsenic, Mercury and Silver in a clockwise direction around the sample point, (Map 9). The values are colour coded to enhance the higher values. Arsenic and mercury are colour coded on the same basis as the plots for the Giant property. Antimony and silver are plotted on the basis of 0-0.2 in black, 0.2-0.4 in green, 0.4-0.6 in blue with greater than 0.6 in red. The limited number and distribution of samples eliminated any possibility of meaningful statistics or contouring of the data.

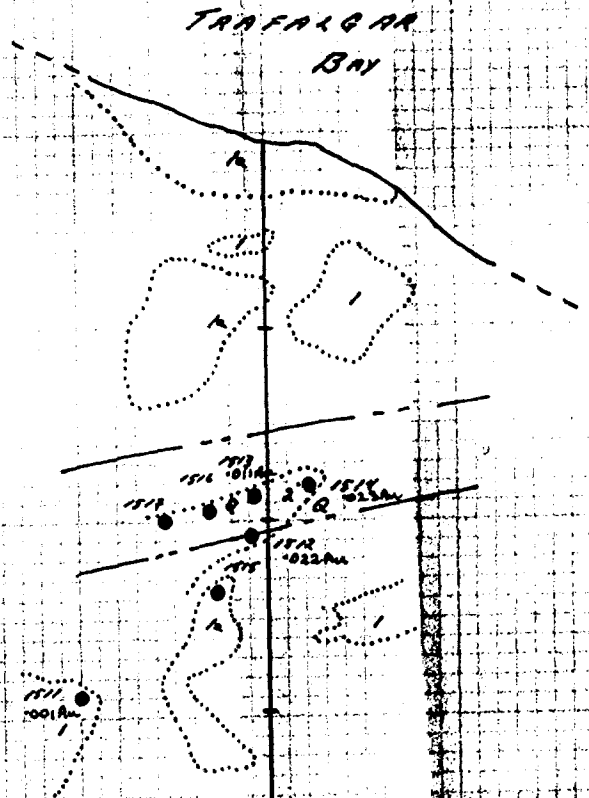
Gold values have not been presented as no values were obtained above the minimum measurement of 5ppb.

No regional trends are obvious from the data but local anomalies are in proximity to geophysical anomalies and do warrant further work.

Antimony and silver results do not show any anomalous values. Arsenic and mercury do show considerable variation and in many locations a similar corresponding increase.

9.4 GEOPHYSICS

Grids were located over Leuiller Island, NE land area and southern peninsula. A number of TRIDEM conductors are located throughout the area but only one considered to be a major bedrock conductor.



LEGEND

2 — FELSIC TO INTERMEDIATE CRYSTAL TUFF

1 — INTERMEDIATE TO MAFIC LAPILLI TUFF
a) LITHIC CRYSTAL TUFF.

Q — QUARTZ ± CALCITE VEIN

FIGURE 12

MANITOU LAKES PROJECT

TRAFALGAR BAY AREA

SCALE 1:1000

E. Mac Leod P.Geol.

9.4.1 VLF SURVEY

The interpreted conductors are located on the composite interpretation map. The data again shows a characteristic highly variable character. The survey was restricted due to the amount of water and there are obvious indications of anomalies covered by water.

North-south faulting has been mapped throughout the area which again cannot be detected by the VLF station orientation.

A major VLF response in the south-east part of the area confirms a TRIDEM anomaly and is apparently directly related to the Manitou Fault.

9.4.2 MAGNETIC SURVEY

A Magnetic survey was carried out on Leuiller Island and the results are presented as Map 11.

9.5 CONCLUSIONS

Due to the similarity in the geology between this area and the Gold Rock Camp as well as significant gold mineralisation found with the limited amount of summer reconnaissance work and the presence of several key geophysical target areas with coincident geochemical anomalies the area warrents further exploration.

9.6 RECOMMENDATIONS

In order to hold ground and further explore these 56 claims the following exploration programme is recommended.

Analysis of all remaining soil samples.

A winter program of Line cutting and follow-up EM on priority rated target areas.

A program of reconnaissance VLF and magnetics over the large areas of this property covered with water to help understand the structure.

A follow-up program of shallow drilling on selected anomalies.

Staking of 2 additional claims to make one contiguous block of all claims in this report area.

Detail geological mapping and sampling in the vicinity of the two described gold occurences.

CHAPTER 10

QUEEN ALEXANDRA MINE GRID

10.1 EXPLORATION PROGRAM

Because a very large portion of this property was covered by numerous bodies of water, this summer exploration took the form of 6 seperate grids with reconnaissaince lines run generally at 315 degrees and spaced between 100 meters and 250 meters apart across regional structure. These grids were placed over priority areas based on regional geology, aeromagnetic and TRIDEM survey, (Figure 8). Station spacing was at 25 meter intervals. At alternate stations an 'A' horizon geochemical sample was collected.These lines were run using hip chain and compass, the lines were flagged and stations were flagged and labelled. Reconnaissance geology was done only on the gridded lines. Over 7 km of line was run, and 239 stations were covered by geophysics and sampling with 160 geochemical samples analyzed as described in Geochemical survey specifications.

10.2 PROPERTY GEOLOGY (CARLETON LAKE AREA)

This property straddles a major fault zone, the Manitou Straits Fault which crosses the property from SW to NE. Stratigraphic sequences on each side of the fault differ markedly. The Archean rocks on both sides of the fault show a general evolutionary trend from older, predominately mafic metavolcanics to younger, predominately pytoclastic rocks of intermediate to felsic composition which although often interbanded with mafic flows were generally dominate on the western side of the fault metasediments appear in the intermediate volcanics in the earlier section. The clastic metasediments were often hard to distinguish from pyroclastic rock types. The metasediments exhibited both massive and graded beddins and grade from fine to coarse grained sediments, as well as conglomerates. A few felsic dikes are located in the southwest portion of the property near the Carleton Lake Stock. The Carleton Lake quartz monzonite and felsic metavolcanic rocks in the southwest portion of the property may host additional mineralised quartz veins similar to those at the old Queen Alexandra mine. In the north-east portion of the grid the metasediments and metavolcanics appear to be on strike and similar to those that host the old Giant mine. The regional strike of both beddins and foliation is generaly to the NE and dippins steeply

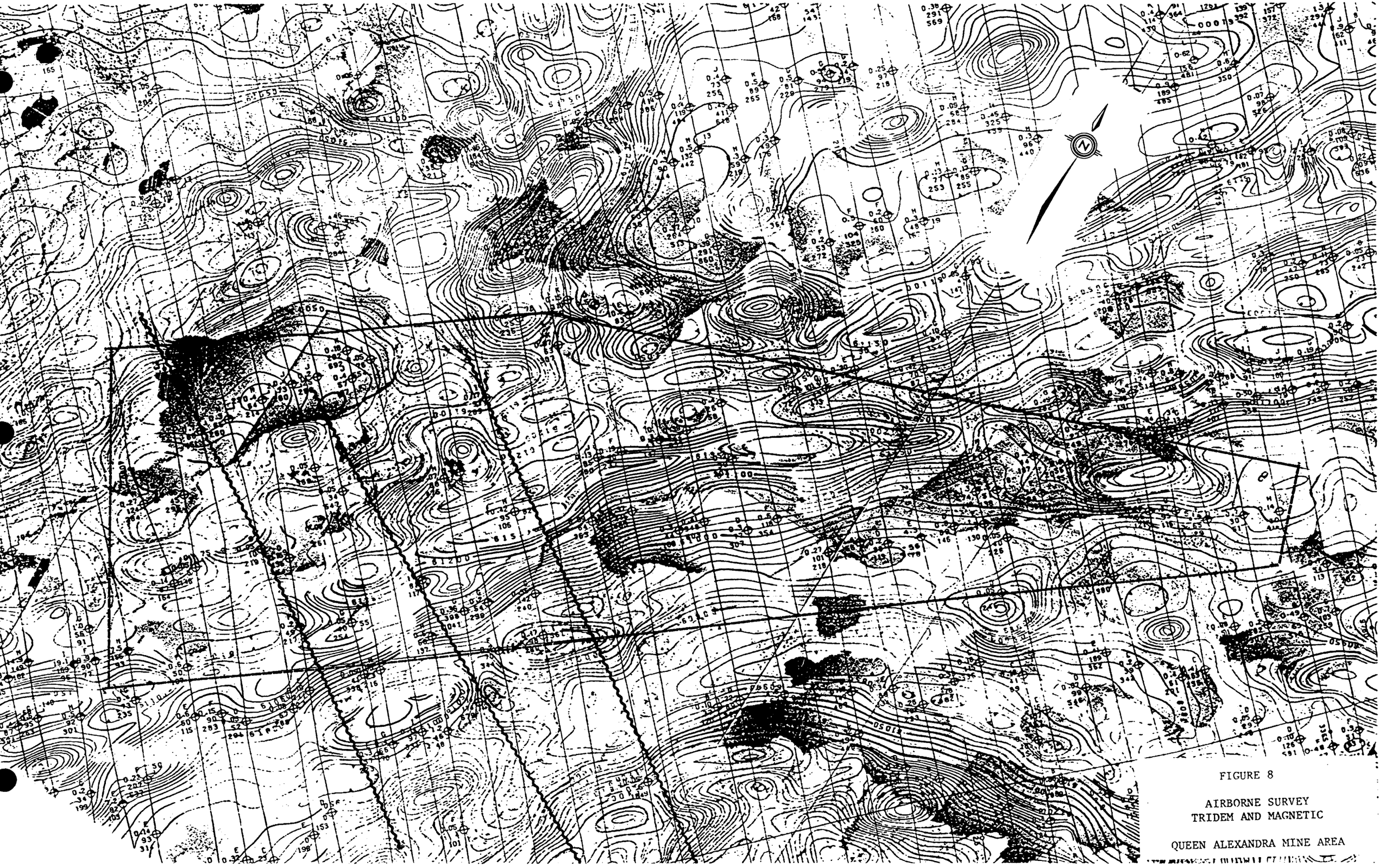


FIGURE 8

AIRBORNE SURVEY
TRIDEM AND MAGNETIC

QUEEN ALEXANDRA MINE AREA

to the east. The rocks are generaly metamorphosed to the greenschist facies.

10.3 GEOCHEMISTRY

The geochemical results are plotted as a single map in the manner described for th Gold Rock area. No gold values were obtained in the soil survey as at Gold Rock, (Map 13).

Arsenic appears to be the best trace element and only occasionally shows a direct correlation with mercury. The highest arsenic results obtained during the project were located on the northern grid, (280 ppm), with confirmation at nearby stations. This area has to be considered as a prime target for additional work.

Several other areas are considered anomalous and priority areas have been marked on the Composite Map, (Map 12), based on the correlation with the geophysical results.

10.4 GEOPHYSICS

The survey lines were again set out to locate TRIDEM conductors but the large amount of water on this property restricted the line locations.

A number of VLF conductors confirmed the airborne anomalies and in many cases are near mapped faults or contacts. A strong conductor is located near the peak arsenic anomaly, possibly close to an intersecting fault which would continue through Mosher Bay. The interpreted conductors have been marked on the Composite Map, (Map 12).

The magnetic results, (Map 15), show considerable variation which is characteristic of the rock types in the area. Very high values are probably due to iron formation but no definate trends are obvious. The data has been colour coded for posting and also provided as stacked profiles.

Conductors located near the mapped contact at the south end of the Carlton Lake stock have also been given a high priority rating.

10.5 CONCLUSIONS

Coincident geochemical and geophysical anomalies in several different types of geological environments which host various genetically different deposits warrent further evaluation.

10.6 RECOMMENDATIONS

The remaining soil samples should be analysed to verify and further define anomalies.

Detailing of the VLF anomalies over the priority areas as indicated on the Composite Map and, if possible, to continue the extension of the conductors across water covered areas by an on ice survey.

Shallow drilling of detailed anomalies to establish the sources and in order to hold the large block of claims.

CHAPTER 11

THE GLASS REEF MINE

11.1 EXPLORATION PROGRAM

The Glass Reef area has been surveyed by a number of companies at different times with limited success, massive sulphides being discovered in a drill hole west of the mine.

A large number of major conductors are obvious on the TRIDEM survey, (Figure 9), generally parallel to the Manitou Straits fault. The large amount of water cover on this property again restricted the survey line locations.

The property was gridded with lines run at 337 degrees and spaced generaly 100 meters apart with stations on lines spaced at 25 meter intervals. At each alternate station an 'A' horizon geochemical sample was collected and magnetic and VLF-EM readings were taken and recorded at all stations. These lines were run using hip chain and compass, the lines were flagged and because of water bodies in the center of the property three sub-base lines were also run with hip chain, compass and flagging. All stations were flagged and labelled throughout the grid. Concurrent with the geochemistry and geophysical programs, reconnaissance geology was done along gridded lines. Fifteen kilometers (15) of line was run and 422 stations were covered by geophysics and sampling. Approximately half of the geochemical samples were analyzed as described in geochemical survey specifications.

11.2 GLASS BAY RECONNAISSANCE PROPERTY GEOLOGY

The Glass Bay property is on the east side and adjacent to the major NE trending Manitou Straits Fault. The major rock type in the area consists predominantly of mafic basaltic type flows of Archean age. Overlying these volcanic are clastic sediments ranging from siltstone to conglomerate with some chert units at the top of the clastic sequence, outcropping on Meridian Bay and near the Glass Reef Mine. All are generaly in the greenschist metamorphic facies with local more chlorite rich assemblages probably caused by retrograde metamorphism due to shearing and faulting. SE and overlying the metasediments are more mafic vol-

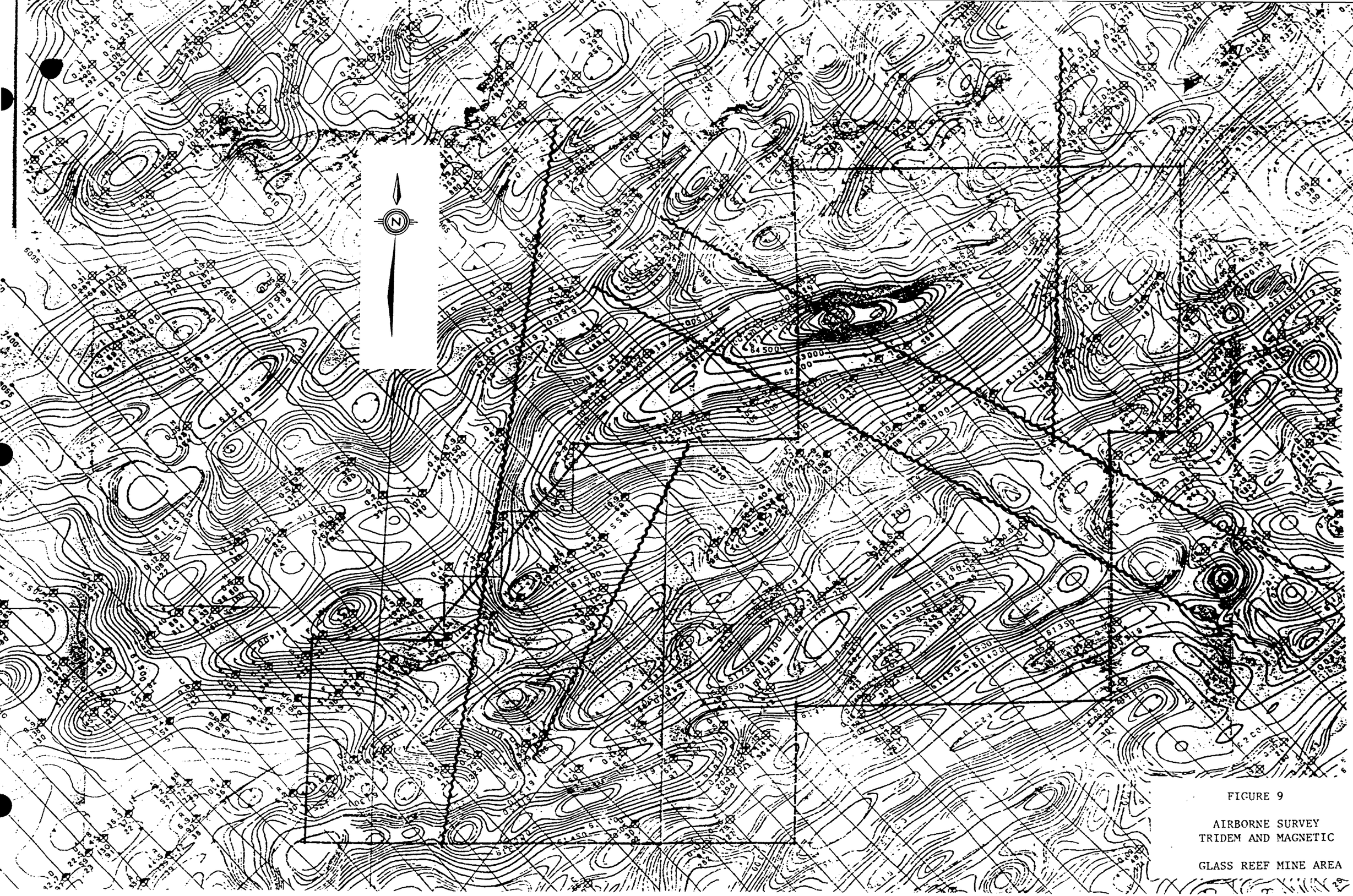
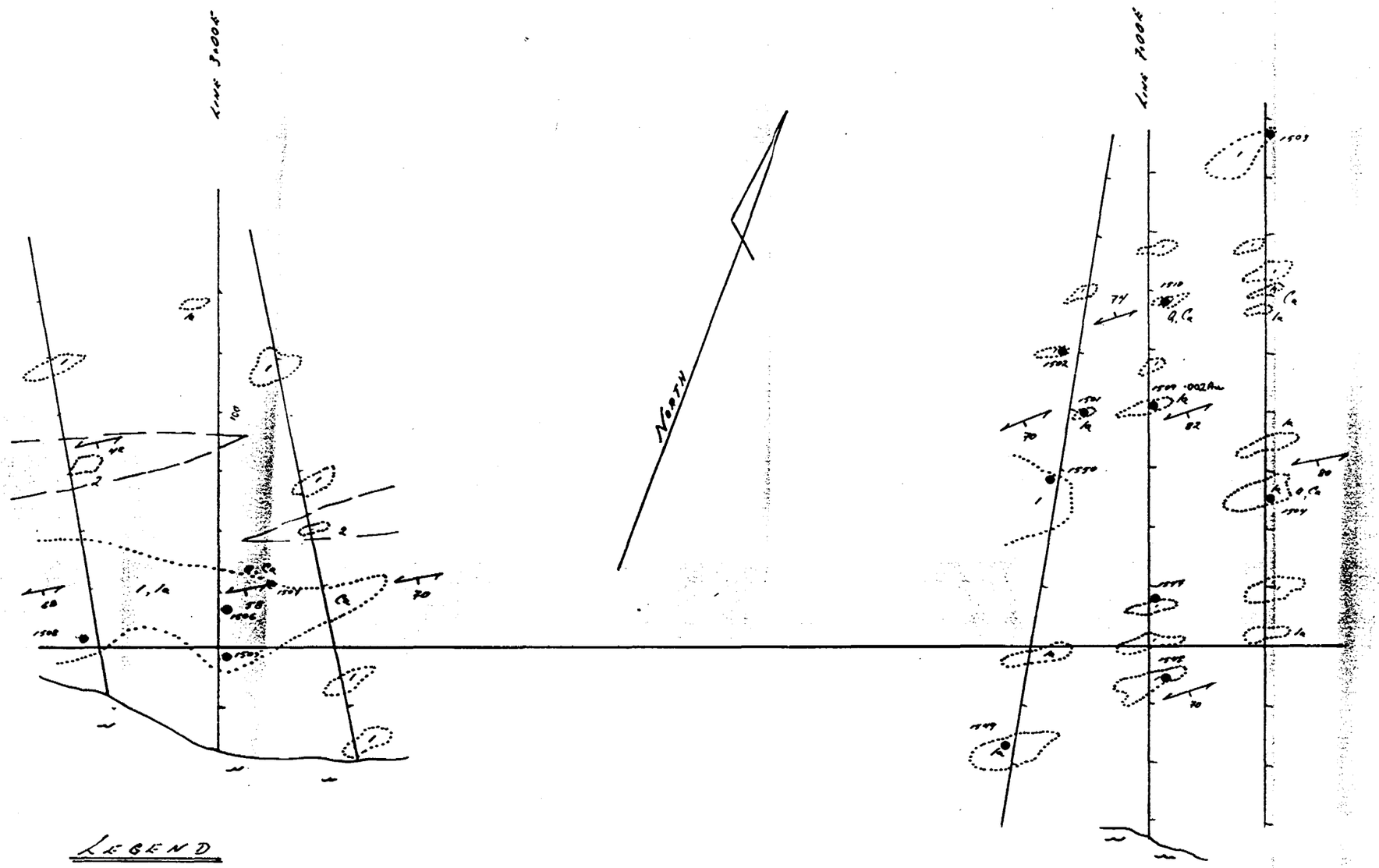


FIGURE 9

AIRBORNE SURVEY
TRIDEM AND MAGNETIC

GLASS REEF MINE AREA



LEGEND

2	QUARTZ PEBBLE CONGLOMERATE (GREYWACKE SILTSTONE AMPH.)
1 / 1a	ANDESITIC TO BASALTIC FLOWS AND/OR TUFF; 1a QUARTZ-CHLORITE SCHIST
1510 •	ASSAY SAMPLE LOCATION (WITH SAMPLE TAG NUMBER)

FIGURE 13

MANITOU LAKES PROJECT

MERIDIAN BAY AREA

SCALE 1:2000

W. Mustard, P.Geol.

canics. These rock units as well as regional foliation generally strike NE and dip steeply to the SE. Later quartz feldspar porphyry dikes intrude both the metasediments and metavolcanics and local faulting, trending from NW to NE cuts all of the above units.

11.3 GEOCHEMISTRY

The geochemical results, (Maps 17,18,19) all show considerable variation but no major increase in any of the elements near the Glass Reef mine. The arsenic results were generally the highest background of any of the four survey areas with a mean of 4.68ppm and a standard deviation of 5.86ppm. The main anomalous area is south-west of the mine and close to Meridiam Bay.

Mercury showed a mean of 153.4ppb and a standard deviation of 67.9ppb.

Gold soil geochemistry results produced only 2 values - 155ppb at Line 300E on the 0 baseline and 45ppb at Line 700E,75N. Detail mapping and rock assays did not show anything significant and the results are presented in Figure 13.

11.4 GEOPHYSICS

The VLF results defined a large number of very strong conductors showing that this area is very complex structurally. Many of the anomalies are probably directly related to faulting and there are strong indications of extensive cross faulting. The interpreted conductors are marked on the Composite Map.

The magnetic results show very erratic response and should only be considered in conjunction with other types of anomalies. The results have been posted but not contoured as the aeromagnetic survey is much better to use for mapping purposes as near surface variations are effectively reduced.

11.5 CONCLUSIONS

The Old Glass Reef Mine Property produced 22 oz. of Au prior to 1900. The property is east of the Manitou Straits Fault and covers several generally northeast trending structures. The property is underlain by metasedimentary and metavolcanic rocks, and contains several large Au geochemical anomalies with associated conductors, these as well as the area around the old mine workings warrant further detailed follow up work.

11.6 RECOMMENDATIONS

Massive sulphides are known to occur in the area but there is no evidence that any extensive assaying for gold was carried out.

The area around the old mine workings should be evaluated to determine if there are any possible extensions that may have been missed during previous work or if the stockwork of quartz veins associated with intrusive porphories has any new potential for production at a lower grade than was possible in 1900.

VLF and magnetic surveys in detail areas with shallow drilling to locate anomalous sources.

Winter surveying with VLF and magnetics on ice in order to map the structure.

CHAPTER 12

CERTIFICATES OF QUALIFICATIONS

CERTIFICATE OF QUALIFICATION

I, Jan Albert VonHof, Geological Engineer in the City of Calgary, in the Province of Alberta, hereby certify:

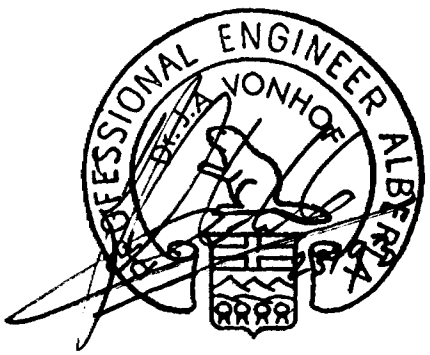
1. THAT I am a practising Geological Engineer with a residence at 5228 Veronica Road N.W. Calgary, Alberta

2. THAT I am a post-graduate of the University of Saskatchewan, Saskatoon, Saskatchewan, and have been granted the degrees of Master of Science and Doctor of Philosophy in the Geological Sciences.

3. THAT I have been practising my profession as a geological engineer for fifteen (15) years.

4. I am a member of the Association of Professional Engineers, Geologists, and Geophysicists of Alberta.

5. That I have no interest directly or indirectly in this property.



J.A. VONHOF, PD.D., P.ENG.

QUALIFICATION AND SIGNATURE

I, William A. MacLeod with business address at 111 Parkglen Crescent S.E., Calgary, Alberta, T2J 4L9, do hereby certify that I personally supervised and carried out the field program described herein and that:

a) I am a graduate of the University of Manitoba; B.Sc.; 1970;

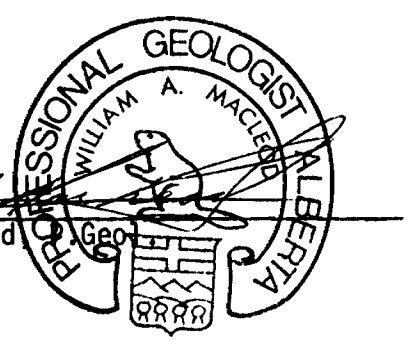
b) I am a registered Professional Geologist in the Province of Alberta;

c) I have practiced my profession continuously for fourteen years;

d) I have no interest in this property, or in Sennol Resources Limited or Cochrane Oil & Gas Ltd..

DATED AT CALGARY, ALBERTA THIS 21 DAY OF DEC., 1983

Signed:



W. A. MacLeod, P.Geol.

CERTIFICATE OF QUALIFICATION

I, Trevor R.B. Dundas, Professional Geophysicist in the City of Calgary, in the Province of Alberta, hereby certify:

1. THAT I am a Registered Professional Geophysicist in the Province of Alberta and reside at 68 Brampton Crescent S.W., Calgary, Alberta.

2. THAT I am agraduate with a Master's degree in Geophysics from Imperial College, University of London, England and that I have practised in this profession for a period of sixteen (16) years.

3. THAT I have conducted and supervised geophysical surveys on this property during June - September 1983.

4. THAT to the best of my knowledge, all available data pertinent to this property was examined during the preparation of this report.

THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS and GEOPHYSICISTS OF ALBERTA
PERMIT NUMBER
P 2982
T.R.B. DUNDAS & ASSOCIATES LIMITED

TREVOR R.B. DUNDAS, P. GEOPH.

CERTIFICATE OF QUALIFICATION

I, Gary A. Nolin, Professional Geologist in the City of Calgary, in the Province of Alberta, hereby certify:

1. THAT I am a Registered Professional Geologist in the Province of Alberta and reside at 1461 Hunterbrook Rd. N.W. Calgary,Alberta.

2. THAT I am a graduate with a Bachelor's degree in Geology from Western Washington State University in Bellingham, Washington and that I have practised in this profession for a period of twelve (12) years.

3. THAT I have conducted and supervised geophysical, geological and geochemical surveys in the Manitou Lakes area on behalf of Cochrane Oil & Gas Ltd. during the periods Jun-Jul, Sep-Oct 1983.

4. THAT to the best of my knowledge, all available data pertinent to this property was examined during the preparation of this report.

GARY A. NOLIN, P. GEOL.

CHAPTER 13

REFERENCES

OGS
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1895: Gold in Ontario; Ontario Bureau of Mines; Annual Report 1894, Vol. 4.

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1934: Geology of the Manitou-Stormey Lakes Area; Ontario Department of Mines, Annual Report for 1933, Vol42,4.

APPENDIX A

ASSESSMENT SPECIFICATIONS

Field and office interpretation days, man days and assessment days for the geological and geochemical surveys conducted from June - August 1983 and from September - October 1983 on the Cochrane Manitou Lakes mineral properties.

MANITOU LAKES PROPERTY

NAME AND ADDRESS	TITLE	DATES WORKED (1983)	TOTAL HOURS	TOTAL 8 HOUR DAYS	ASSESSMENT DAYS	
G.Nolin	Geologist	Jun 14-15	24	3	21	Field
1461 Hunterbrook Rd. N.W.		Jun 27-29	24	3	21	"
Calgary		Oct 8-11	48	6	42	"
		Dec 6-20	120	15	105	Rep, Intrp
T.Dundas	Geophysicist	Jun 14-22	108	13.5	95	Field
540-707-7th. Ave S.W.		Dec 6-20	120	15	105	Rep, Intrp.
Calgary						
W.A.McLeod	Geologist	Sep 29-Oct 16	228	28.5	200	Field
111 Parksen Cr. S.E.		Oct 17-19	24	3	21	Rep, Intrp.
Calgary						
A.Vonhof	Geologist	Jun 28-Jul 17	240	30	210	Field
5228 Veronica Rd. N.W.						
Calgary						
J Hansen	Geophysicist	Jun 27-28	24	3	21	Field
19 Nesbitt St.						
Nepean						
Ontario						
I. Smith	Jr.Geol./ Sr.Tech.	Sep 29- Oct 16	228	28.5	200	"

2012 Cherokee Rd. N.W. Calgary		Dec 6-20	120	15	105	Report
B.Edgar 2340 1st.Ave.N.W. Calgary	Geologist	Oct 8-11	48	6	42	Field
M.Hodgson	Sr. Tech.	Jun 14-15	24	3	21	Field
718-1833 Pembina Way Winnipeg		Jun 28-Jul 17	240	30	210	"
D.Campbell 709-2295 Pembina Way Winnipeg	Jr. Tech.	Sep 29-Oct 12	192	24	168	"
R.Nishimura 20 Wentworth Cres. St.Albert Alberta	Jr. Geoph.	Jun 14-22	108	13.5	95	"
B.Shiels 103-33 Marline Street Winnipeg	Technician	Sep 29-Oct 12	192	24	168	"
K. McCrank 27 Superior Dr. Wawa Ontario	Technician	Jun 28-Jul 13	192	24	168	"
D.Griffin 54 Toronto Ave Wawa Ontario	Technician	Jun 28-Jul 13	192	24	168	"
B.Barboni 21 McNutter Ave Dryden Ontario	Technician	Jun 14-22	108	13.5	95	"
M.Lindquist General Delivery Eagle River Ontario	Technician	Jun 28-Jul 16	228	28.5	200	"
		TOTAL	2832	354	2481	

GIANT MINE BLOCK

NAME AND ADDRESS	TITLE	DATES WORKED (1983)	TOTAL HOURS	TOTAL 8 HOUR DAYS	ASSESSMENT DAYS
G.Nolin 1461 Hunterbrook Rd. N.W. Calgary	Geol.	Jun 27	12	1.5	11 "
		Oct 8-9	24	3	21 "
		Dec 6-9	32	4	28 Rep.
T.Dundas 540-707-7th. Ave S.W. Calgary	Geoph.	Dec 6-9	32	4	28 Rep.
W.A.McLeod 111 Parksen Cr. S.E. Calgary	Geol.	Sep 29-Oct 14	204	25.5	179 Field
		Oct 17-19	24	3	21 Rep.
J Hansen 19 Nesbitt St. Nepean Ontario	Geoph.	Jun 27	12	1.5	11 Field
I. Smith 2012 Cherokee Rd. N.W. Calgary	Jr.Geol./ Sr.Tech.	Sep 29- Oct 14	204	25.5	179 "
		Dec 6-9	32	4	28 Rep
B.Edgar 2340 1st.Ave.N.W. Calgary	Geologist	Oct 8-9	24	3	21 Field
D.Campbell 709-2295 Pembina Way Winnipeg	Jr. Tech.	Sep 29-Oct 12	192	24	168 "
B.Shiels 103-33 Marline Street Winnipeg	Technician	Sep 29-Oct 12	192	24	168 "
		TOTAL	1009.5	97.5	863

Geochemical Sample Analysis Cost -

Soil analysis	367 samples	@ $17.50	$6422.50/15 =	428
Rock analysis	13 samples	@ $12.45	$ 161.85/15 =	11
Rock analysis	20 samples	@ $8.70	$ 174.00/15 =	12

Total Assessment days	Geology			253
"	"	"	Geochemistry/assay	735
"	"	"	Geophysics	273
"	"	"	Line cutting	68

GOLD ROCK EXTENSION AND QUEEN ALEXANDRA BLOCK

NAME AND ADDRESS	TITLE	DATES WORKED (1983)	TOTAL HOURS	TOTAL 8 HOUR DAYS	ASSESSMENT DAYS	
G.Nolin 1461 Hunterbrook Rd. N.W. Calgary	Geologist	Jun 15	12	1.5	11	Field
		Dec 17-20	32	4	28	Rep, Intrp
T.Dundas 540-707-7th. Ave S.W. Calgary	Geophysicist	Dec 17-20	32	4	28	Rep, Intrp.
W.A.McLeod 111 Parksen Cr. S.E. Calgary	Geologist	Oct 15	12	1.5	11	Field
A.Vonhof 5228 Veronica Rd. N.W. Calgary	Geologist	Jul 6-14,17	120	15	105	Field
I. Smith 2012 Cherokee Rd. N.W. Calgary	Jr.Geol./ Sr.Tech.	Oct 15	12	1.5	11	"
		Dec 17-20	32	4	28	Report
M.Hodgson 718-1833 Pembina Way Winnipeg	Sr. Tech.	Jun 14-15	24	3	21	Field
		Jul 6-14,17	120	15	105	"
K. McCrank 27 Superior Dr. Wawa Ontario	Technician	Jul 6-13	96	12	84	"
D.Griffin 54 Toronto Ave Wawa Ontario	Technician	Jul 6-13	96	12	84	"
M.Lindquist	Technician	Jul 6-13	96	12	84	"

General Delivery
Eagle River
Ontario

TOTAL	684	85.5	600

Geochemical Sample Analysis Cost -

Soil analysis	215 samples	@ $17.50	$3762.50/15 =	251
Rock analysis	10 samples	@ $12.45	$ 124.50/15 =	8
Rock analysis	12 samples	@ $ 8.70	$ 104.40/15 =	7

Assessment days	Geology	46
"	Geochemistry_assay	580
"	geophysics	240

LEUILLER ISLAND BLOCK

NAME AND ADDRESS	TITLE	DATES WORKED (1983)	TOTAL HOURS	TOTAL 8 HOUR DAYS	ASSESSMENT DAYS	
G.Nolin 1461 Hunterbrook Rd. N.W. Calgary	Geologist	Oct 10-11	24	3	21	"
		Dec 10-11	16	2	14	Rep, Intrp
T.Dundas 540-707-7th. Ave S.W. Calgary	Geophysicist	Dec 10-11	16	2	14	Rep, Intrp.
A.Vonhof 5228 Veronica Rd. N.W. Calgary	Geologist	Jul 15-16	24	3	21	Field
I. Smith 2012 Cherokee Rd. N.W. Calgary	Jr.Geol./ Sr.Tech.	Dec 10-11	16	2	14	Report
B.Edgar 2340 1st.Ave.N.W. Calgary	Geologist	Oct 10-11	24	3	21	Field
M.Hodgson 718-1833 Pembina Way Winnipeg	Sr. Tech.	Jul 15-16	24	3	21	"
M.Lindquist General Delivery Eagle River Ontario	Technician	Jul 15-16	24	3	21	"
		TOTAL	168	21	147	

Geochemical Sample Analysis Cost -

Soil analysis	6 samples	@ $17.50	$105.00/15 = 7
Rock analysis	24 samples	@ $12.45	$298.80/15 = 20

Assessment days	Geology		35
"	"	geochemistry _assay	99
"	"	Geophysical	40

GLASS BAY BLOCK

NAME AND ADDRESS	TITLE	DATES WORKED (1983)	TOTAL HOURS	TOTAL 8 HOUR DAYS	ASSESSMENT DAYS
G.Nolin 1461 Hunterbrook Rd. N.W. Calgary	Geologist	Jun 14	12	1.5	11 Field
		Jun 28	12	1.5	11 "
		Dec 12-16	40	5	35 Rep, Intrp
T.Dundas 540-707-7th. Ave S.W. Calgary	Geophysicist	Jun 14-22	108	13.5	95 Field
		Dec 12-16	40	5	35 Rep, Intrp.
W.A.McLeod 111 Parksen Cr. S.E. Calgary	Geologist	Oct 16	12	1.5	11 Field
A.Vonhof 5228 Veronica Rd. N.W. Calgary	Geologist	Jun 28-Jul 5	96	12	84 Field
J Hansen 19 Nesbitt St. Nepean Ontario	Geophysicist	Jun 28	12	1.5	11 Field
I. Smith	Jr.Geol./ Sr.Tech.	Oct 16	12	1.5	11 "
2012 Cherokee Rd. N.W. Calgary		Dec 12-16	40	5	35 Report
M.Hodgson 718-1833 Pembina Way Winnipeg	Sr. Tech.	Jun 14	12	1.5	11 Field
		Jun 28-Jul 5	96	12	84 "
K. McCrank 27 Superior Dr. Wawa Ontario	Technician	Jun 28-Jul 5	96	12	84 "
R.Nishimura	Technician	Jun 14-22	108	13.5	95
D.Griffin	Technician	Jun 28-Jul 5	96	12	84 "

54 Toronto Ave Wawa Ontario						
B.Barboni 21 McNutter Ave Dryden Ontario	Technician	Jun 14-22	108	13.5	95	"
M.Lindquist General Delivery Eagle River Ontario	Technician	Jun 28-Jul 5	96	12	84	"
		TOTAL	996	124.5	876	

Geochemical Sample Analysis Cost -

Soil analysis	202 samples	@ $17.50	$3535.00/15 = 235
Rock analysis	27 samples	@ $12.45	$ 336.15/15 = 22
Rock assays	27 samples	@ $ 8.70	$ 104.40/15 = 15

Assessment days	geology	88
"	Geochemistry _assays	642
"	Geophysics	418

APPENDIX B

CLAIM DISPOSITION

Cochrane - Sennol J.V.
Kenora Mining Division
NTS 52F-7
Lower Manitou Lake Area Map M2007
Harper Lake Area Map 2592
Boyer Lake Area Map 2582

Cochrane Property - 4 Contiguous Blocks - 239 claims total

	CLAIM NO.	DATE STAKED	DATE RECORDED	MAP
Giant Mine Grid - 14 claims----------work applied on 14 claims annotated *				
1	K687462 *	March 14,1983	March 17,1983	2582
2	K687463 *	"	"	"
3	K687464 *	"	"	"
4	K687465 *	"	"	"
5	K687466 *	"	"	"
6	K687467 *	"	"	"
7	K687468 *	"	"	"
8	K687469 *	"	"	"
9	K687470 *	"	"	"
10	K687471 *	"	"	"
11	K687472 *	"	"	"
12	K687473 *	"	"	"
13	K687474 *	"	"	"
14	K687475 *	"	"	"
Leuiller Island Grid - 12 claims--------work applied on 10 claims annotated *				
1	K687476 *	March 15,1983	March 17,1983	2582 _2592

2	K687477	"	"	2592
3	K687478	"	"	2592 _2582
4	K687479 *	"	"	2592
5	K696001 *	"	"	"
6	K696002 *	"	"	"
7	K696003 *	"	"	"
8	K696004 *	"	"	"
9	K696005 *	"	"	"
10	K696031 *	"	"	"
11	K696032 *	"	"	"
12	K696033 *	"	"	"

Glass Reef Mine Grid - 77 claims---------work applied on 34 claims annotated *

1	K687340 *	February 22, 1983	March 9,1983	M2007
2	K687341	"	"	"
3	K687342	"	"	"
4	K687343	"	"	"
5	K687344	"	"	"
6	K687345	"	"	"
7	K687346 *	"	"	"
8	K687347 *	"	"	"
9	K687348 *	"	"	"
10	K687349 *	"	"	"
11	K687350 *	"	"	"
12	K687351	"	"	"
13	K687352 *	February 23,1983	"	"
14	K687353 *	"	"	"
15	K687354 *	"	"	"
16	K687355 *	"	"	"
17	K687356	"	"	"
18	K687357 *	"	"	"
19	K687358 *	"	"	"
20	K687359 *	"	"	"
21	K687360	February 26,1983	"	"
22	K687361	"	"	"
23	K687362 *	"	"	"
24	K687363 *	"	"	"
25	K687364 *	"	"	"
26	K687365 *	"	"	"
27	K687366 *	February 27,1983	"	"
28	K687367 *	"	"	"
29	K687368 *	February 26,1983	"	"
30	K687369 *	"	"	"
31	K687370	"	"	"
32	K687371	"	"	"
33	K687372	February 27,1983	"	"
34	K687373 *	"	"	"

35	K687374 *	"	"	"
36	K687375 *	"	"	"
37	K687376 *	"	"	"
38	K687377	"	"	"
39	K687378 *	February 28,1983	"	"
40	K687379 *	"	"	"
41	K687380 *	"	"	"
42	K687381 *	February 27,1983	"	"
43	K687382	"	"	"
44	K687383	February 28,1983	"	"
45	K687384 *	"	"	"
46	K687385 *	"	"	"
47	K687386 *	"	"	"
48	K687387 *	"	"	"
49	K687388 *	"	"	"
50	K687389	"	"	"
51	K687390	March 1,1983	"	"
52	K687391	"	"	"
53	K687392	"	"	"
54	K687393	February 26,1983	"	"
55	K687394	"	"	"
56	K687395	"	"	"
57	K687396	"	"	"
58	K687397	February 25,1983	"	"
59	K687398	"	"	"
60	K687399	"	"	"
61	K687400	"	"	"
62	K687401	"	"	"
63	K687402	"	"	"
64	K687403	"	"	"
65	K687404	"	"	"
66	K687405	February 24,1983	"	"
67	K687406	"	"	"
68	K687407	February 25,1983	"	"
69	K687408	"	"	"
70	K687409	February 24,1983	"	"
71	K687410	"	"	"
72	K687411	"	"	"
73	K687412	"	"	"
74	K687413	"	"	"
75	K687414	"	"	"
76	K687415	"	"	"
77	K687416	"	"	"

GOLD ROCK EXTENSION AND QUEEN ALEXANDRA GRIDS-
136 Claims----------work applied on 47 claims annotated *

1	K687480 *	February 28,1983	March 9,1983	M2007

2	K687481			
3	K687482			
4	K687483			
5	K687484			
6	K687485	February 27,1983		
7	K687486			
8	K687487			
9	K687488			
10	K687489			
11	K687490	February 26,1983		
12	K687491			
13	K687492 *			
14	K687493 *			
15	K687495 *	February 27,1983		
16	K687496			
17	K687497			
18	K687498			
19	K687499	February 25,1983		
20	K687500			
21	K687501 *	February 26,1983		
22	K687502 *			
23	K687503 *			
24	K687504			
25	K687505			
26	K687506			
27	K687507	February 25,1983		
28	K687508			
29	K687509			
30	K687510			
31	K687511 *			
32	K687512 *			
33	K687513			
34	K687514			
35	K687515	February 22,1983		
36	K687516			
37	K687517			
38	K687520 *			
39	K687521 *	February 24,1983		
40	K687530			
41	K687531	February 23,1983		
42	K687534 *	February 22,1983		
43	K687535			
44	K687536			
45	K687537 *	February 23,1983		
46	K687538 *			
47	K687539			
48	K687540			
49	K687541			
50	K687543			
51	K687544 *	February 24,1983		
52	K687545 *	February 23,1983		

53	K687546 *			
54	K687547	February 24,1983		
55	K687548 *			
56	K687549 *	February 28,1983		
57	K687550 *			
58	K687551			
59	K687552			
60	K687553			
61	K687554	March 1,1983		
62	K687555			
63	K687556			
64	K687557			
65	K687558			
66	K687559			
67	K687560			
68	K687561			
69	K687562			
70	K687563			
71	K687564	March 2,1983		
72	K687565			
73	K687566			
74	K687567			2592
75	K687568			
76	K687569			
77	K687570 *			2007
78	K687571			
79	K687572			
80	K687573 *			
81	K687574 *	March 3,1983		
82	K687575			
83	K687576 *			2592
84	K687577			
85	K687578			
86	K687579 *			
87	K687417			
88	K687418			
89	K687419 *			
90	K696014	March 11,1983	March 17,1983	2582
91	K696015 *	March 12,1983		
92	K696016 *			
93	K696017 *			
94	K696018			
95	K696019 *			
96	K696020			
97	K696021 *			
98	K696022 *			
99	K696023 *			
100	K696024			
101	K696025			
102	K696026	March 13,1983		
103	K696027	March 12,1983		

104	K696028	March 13,1983	"	"
105	K696029	"	"	"
106	K696030	"	"	2582 _2592
107	K687432 *	March 9,1983	"	2582
108	K687433 *	"	"	"
109	K687434 *	"	"	"
110	K687435	"	"	"
111	K687436	"	"	"
112	K687437	"	"	"
113	K687438	"	"	"
114	K687439 *	"	"	"
115	K687440	"	"	"
116	K687441 *	"	"	"
117	K687442 *	"	"	"
118	K687443 *	March 10,1983	"	"
119	K687444 *	"	"	"
120	K687445 *	"	"	"
121	K687446	"	"	"
122	K687447	"	"	"
123	K687448	"	"	"
124	K687449	"	"	"
125	K687450	"	"	"
126	K687451 *	"	"	"
127	K687452	March 11,1983	"	"
128	K687453 *	"	"	"
129	K687454	"	"	"
130	K687455	"	"	"
131	K687456	"	"	"
132	K687457	"	"	"
133	K687458	"	"	"
134	K687459 *	"	"	"
135	K687460 *	"	"	"
136	K687461	"	"	"

APPENDIX C

SAMPLE PREPARATION AND CONTROL

BARRINGER MAGENTA

BARRINGER MAGENTA LIMITED
3750 - 19 STREET N.E.
SUITE 105
CALGARY, ALBERTA,
CANADA T2E 6V2
PHONE: (403) 276-9701

September 12, 1983

Nolin Geo Enterprises,
540-707-7 Ave.S.W.
CALGARY, Alberta
T2P 0Z2

Dear Gary,

As requested, I enclose a description of the preparation of the humus samples submitted to this lab and their subsequent analyses for gold, silver, arsenic, mercury and antimony.

After drying, all humus samples were blended and sieved to minus 40 mesh.

A 10 gram portion of sample was digested in aqua regia. After adjusting the final volume, a 25 ml. aliquot was extracted with methyl iso-butyl ketone (MIBK). This organic layer was analysed for gold by atomic absorption spectrometry.

A 0.5 gram portion of sample was digested in an acid mixture of nitric and perchloric acids. After the final volume was adjusted an aliquot was analysed for silver by atomic absorption with direct aspiration. A 5 ml. aliqot was removed and analysed for mercury by cold vapour atomic absorption with a UV detector. Another 5 ml. aliquot was removed and analysed for arsenic and antimony by hydride atomic absorption.

Quality of analyses is controlled and assured by the insertion and analyses of blanks, repeats and standards of known values throughout each batch of samples.

If you require any further information, please do not hesitate to contact me.

Yours sincerely,
BARRINGER MAGENTA LIMITED

Doug Read

C. Douglas Read
CDR/tr

APPENDIX D

CERTIFICATES AND LISTINGS -SOIL GEOCHEMISTRY

-ROCK ASSAYS

BARRINGER MAGENTA

304 CARLINGVIEW DRIVE
REXDALE, ONTARIO
M9W 5G2
(416) 675-3870

3750 - 19TH STREET
SUITE 105
CALGARY, ALBERTA
T2E 6V2
(403) 276-9701

FILE: T3-0715
DATE: 05/12/83
MATRIX: NO3/CL04

NOLIN GEO-ENTERPRISES (HUMUS SAMPLES) WO NO: 83-0715 PAGE:

SAMPLE ID	AU PPB	AG PPM	AS PPM	HG PPB	SB PPM	SAMPLE ID	AU PPB	AG PPM	AS PPM	HG PPB	SB PPM
100E 94+00N	<5	.8	1.1	95	<.2	104E 97+00N	<5	.2	2.9	180	<.2
100E 94+50N	<5	.2	1.3	63	<.2	104E 97+50N	<5	<.2	3.1	170	<.2
100E 95+00N	<5	<.2	1.6	84	<.2	104E 98+00N	<5	<.2	.8	125	<.2
100E 95+50N	<5	<.2	.7	42	<.2	104E 98+50N	<5	.4	1.7	145	<.2
100E 96+00N	<5	<.2	.6	32	<.2	104E 99+00N	<5	<.2	1.0	125	<.2
100E 96+50N	<10	<.2	4.5	126	<.2	104E 99+50N	<10	.2	.7	74	<.2
100E 97+00N	<5	.4	1.3	116	<.2	104E 100+00N	<10	.4	2.1	145	<.2
100E 97+50N	<5	<.2	1.1	105	<.2	104E 100+50N	<5	<.2	1.1	95	<.2
100E 98+00N	<5	.6	2.3	158	<.2	104E 101+00N	<5	<.2	2.5	95	<.2
100E 98+50N	<5	.2	1.3	63	<.2	104E 101+50N	<5	.2	1.9	95	<.2
100E 99+00N	<5	.4	1.9	53	<.2	104E 102+00N	<5	<.2	.7	84	<.2
100E 99+50N	<5	.2	.8	53	<.2	104E 102+50N	<5	<.2	1.4	74	<.2
100E 100+00N	<5	.2	1.1	74	<.2	104E 103+00N	<10	<.2	.7	95	<.2
100E 100+50N	<5	.2	.7	53	<.2	104E 103+50N	<5	<.2	1.1	95	<.2
100E 101+00N	<5	.4	.7	84	<.2	105E 95+00N	---	.2	.7	74	<.2
100E 101+05N	<5	.4	.7	126	<.2	105E 95+50N	---	<.2	.4	53	<.2
100E 102+00N	<5	<.2	1.1	74	<.2	105E 96+00N	<5	<.2	1.9	210	<.2
100E 102+50N	<5	.2	.8	105	<.2	105E 96+50N	25	<.2	3.0	200	<.2
100E 103+00N	<5	.4	.7	74	<.2	105E 97+00N	<5	.2	2.3	210	<.2
100E 103+18N	<5	<.2	1.9	95	<.2	105E 97+50N	<5	<.2	1.1	105	<.2
102E 94+00N	<5	<.2	1.0	63	<.2	105E 98+00N	<5	<.2	1.8	170	<.2
102E 94+50N	<5	<.2	1.3	74	<.2	105E 98+50N	<10	<.2	1.1	137	<.2
102E 95+00N	<10	<.2	.7	116	<.2	105E 99+00N	<5	<.2	.7	157	<.2
102E 95+50N	<5	.6	1.0	105	<.2	105E 99+50N	<5	.2	.5	105	<.2
102E 96+00N	<10	<.2	1.4	95	<.2	105E 100+00N	<5	.4	2.3	137	<.2
102E 96+50N	<5	.2	1.6	42	<.2	105E 100+50N	<5	<.2	1.2	95	<.2
102E 97+00N	<5	.2	2.6	95	<.2	105E 101+00N	<5	<.2	1.4	74	<.2
102E 97+50N	<10	<.2	1.7	137	<.2	105E 101+50N	<10	<.2	.9	160	<.2
102E 98+00N	<5	.4	2.9	168	<.2	106E 96+00N	<5	<.2	.9	115	<.2
102E 98+50N	<5	.4	1.9	125	<.2	106E 96+50N	<5	.2	1.6	230	<.2
102E 99+00N	<5	.6	2.5	95	<.2	106E 97+00N	<5	<.2	1.2	190	<.2
102E 99+50N	<10	.2	.8	95	<.2	106E 97+50N	<5	<.2	1.8	170	<.2
102E 100+00N	<5	.6	2.1	84	<.2	106E 98+00N	<10	<.2	2.1	180	<.2
102E 100+75N	<5	.2	1.3	95	<.2	106E 98+50N	<10	<.2	1.9	190	<.2
102E 101+00N	<5	.2	3.5	116	<.2	106E 99+00N	<5	.4	2.3	230	<.2
102E 101+50N	140	.4	2.3	137	<.2	106E 99+50N	<5	<.2	4.2	305	<.2
102E 102+00N	<5	.2	1.1	42	<.2	106E 100+00N	<10	<.2	1.8	147	<.2
102E 102+50N	<5	<.2	1.0	74	<.2	106E 100+50N	<5	<.2	1.1	126	<.2
102E 103+00N	<5	<.2	.6	105	<.2	106E 101+00N	<10	<.2	1.2	180	.2
102E 103+60N	<5	<.2	2.5	147	<.2	106E 101+50N	<5	<.2	2.8	95	<.2
104E 94+25N	<10	<.2	2.7	137	<.2	107E 96+50N	<5	<.2	1.8	147	.4
104E 94+50N	<5	<.2	1.3	126	<.2	107E 96+75N	<5	<.2	2.3	220	<.2
104E 95+75N	<10	.2	4.7	84	<.2	107E 97+00N	<5	<.2	1.8	200	<.2
104E 96+00N	<5	.2	1.7	220	<.2	107E 97+50N	<5	<.2	1.6	170	<.2
104E 96+50N	<5	.2	2.5	190	<.2	107E 98+00N	<5	<.2	2.7	240	<.2

BARRINGER MAGENTA

304 CARLINGVIEW DRIVE
REXDALE, ONTARIO
M9W 5G2
(416) 675-3870

3750 - 19TH STREET
SUITE 105
CALGARY, ALBERTA
T2E 6V2
(403) 276-9701

FILE: T3-0715
DATE: 05/12/83
MATRIX: NO3/CL04

NOLIN GEO-ENTERPRISES (HUMUS SAMPLES) WO NO: 83-0715 PAGE: 2

SAMPLE ID	AU PPB	AG PPM	AS PPM	HG PPB	SB PPM	SAMPLE ID	AU PPB	AG PPM	AS PPM	HG PPB	SB PPM
107E 98+50N	<5	<.2	1.6	147	<.2	109E 103+00N	<5	.2	1.6	147	<.2
107E 99+00N	<5	<.2	1.6	147	<.2	109E 103+50N	<5	<.2	1.8	105	<.2
107E 99+50N	<5	<.2	1.8	180	<.2	109E 104+00N	<5	<.2	2.1	116	<.2
107E 100+00N	<5	<.2	2.5	210	<.2	109E 104+50N	<5	<.2	1.8	170	<.2
107E 100+50N	<5	<.2	2.8	126	<.2	109E 105+00N	5	<.2	2.1	158	<.2
107E 101+00N	<10	<.2	1.6	95	<.2	109E 105+25N	<10	<.2	1.4	126	<.2
107E 101+50N	25	<.2	1.8	64	<.2	110E 94+00N	<5	<.2	3.6	285	<.2
107E 102+00N	<5	<.2	2.3	105	<.2	110E 94+50N	<5	<.2	1.6	180	<.2
107E 102+50N	<10	<.2	2.8	126	<.2	110E 95+00N	<10	<.2	2.4	32	<.2
108E 95+50N	<5	<.2	.9	137	<.2	110E 95+50N	<10	<.2	1.0	21	<.2
108E 95+75N	<5	<.2	1.2	105	<.2	110E 96+00N	<10	<.2	1.1	63	<.2
108E 96+00N	<5	<.2	1.2	116	<.2	110E 96+50N	5	<.2	1.8	147	<.2
108E 96+50N	<5	<.2	2.8	190	<.2	110E 97+00N	<10	<.2	1.4	158	<.2
108E 97+00N	<5	<.2	1.8	137	<.2	110E 97+50N	<5	<.2	1.6	180	<.2
108E 97+50N	<10	<.2	2.3	160	<.2	110E 98+00N	<5	<.2	1.6	220	<.2
108E 98+00N	<10	<.2	2.1	160	<.2	110E 98+50N	<5	<.2	1.6	158	<.2
108E 98+50N	<5	<.2	2.1	220	<.2	110E 99+00N	<5	.2	2.3	126	<.2
108E 99+00N	5	<.2	2.5	147	<.2	110E 99+50N	5	<.2	1.8	105	<.2
108E 99+50N	<5	<.2	2.5	147	<.2	110E 100+00N	<5	<.2	1.4	125	<.2
108E 100+00N	<10	<.2	.9	137	<.2	110E 100+50N	<5	.2	1.4	116	<.2
108E 100+50N	10	<.2	3.0	115	<.2	110E 101+00N	<5	<.2	1.6	137	<.2
108E 101+00N	<5	.2	3.6	115	<.2	110E 101+50N	<5	.4	3.4	137	<.2
108E 101+50N	<5	.2	1.9	105	<.2	110E 102+00N	<10	.4	.9	105	<.2
108E 102+00N	<5	<.2	1.4	64	<.2	110E 102+50N	<5	.2	.9	105	<.2
108E 102+50N	<10	<.2	1.1	84	<.2	110E 103+00N	<10	<.2	1.6	95	<.2
108E 103+00N	<5	.2	1.4	116	<.2	110E 103+50N	<5	<.2	1.4	63	<.2
109E 94+00N	<5	.2	1.9	200	<.2	110E 104+00N	5	<.2	2.1	63	<.2
109E 94+50N	<5	<.2	6.7	160	<.2	110E 104+50N	<5	.2	2.3	74	<.2
109E 95+00N	<5	<.2	2.7	160	<.2	110E 105+00N	<5	.2	1.9	230	<.2
109E 95+25N	<10	<.2	1.1	95	<.2	110E 105+50N	5	<.2	1.1	147	<.2
109E 96+00N	<10	<.2	1.2	84	<.2	110E 106+00N	<5	<.2	2.8	105	<.2
109E 96+50N	<10	<.2	1.4	126	<.2	110E 106+35N	5	<.2	1.9	95	<.2
109E 97+00N	<5	<.2	1.6	53	<.2	111E 94+00N	<5	<.2	1.8	190	<.2
109E 97+50N	<5	<.2	1.1	84	<.2	111E 94+50N	<5	<.2	1.2	126	<.2
109E 98+00N	<5	<.2	1.7	95	<.2	111E 95+00N	<5	<.2	1.4	63	<.2
109E 98+50N	<5	<.2	2.4	200	<.2	111E 95+50N	<10	<.2	.4	32	<.2
109E 95+75N	<10	<.2	.9	105	<.2	111E 96+00N	<10	<.2	.7	21	<.2
109E 99+00N	<10	.2	1.9	157	<.2	111E 96+50N	<5	<.2	1.2	190	<.2
109E 99+50N	5	.4	2.8	168	<.2	111E 97+00N	<10	<.2	.9	137	<.2
109E 100+00N	<5	<.2	2.8	180	<.2	111E 97+50N	<5	<.2	1.6	170	<.2
109E 100+50N	30	.2	1.8	115	<.2	111E 98+00N	<5	<.2	1.1	147	<.2
109E 101+00N	25	<.2	2.7	95	<.2	111E 98+50N	<5	<.2	4.7	170	<.2
109E 101+50N	<5	<.2	3.0	105	<.2	111E 99+00N	<5	<.2	1.2	105	<.2
109E 102+00N	<5	.4	7.0	95	<.2	111E 99+50N	5	<.2	2.8	147	<.2
109E 102+50N	<5	<.2	1.6	63	<.2	111E 100+00N	<10	<.2	.9	53	<.2

BARRINGER MAGENTA

304 CARLINGVIEW DRIVE
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3750 - 18TH STREET
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CALGARY, ALBERTA
T2E 6V2
(403) 276-9701

FILE: T3-0715
DATE: 05/12/83
MATRIX: NO3/CL04

NOLIN GEO-ENTERPRISES (HUMUS SAMPLES) WO NO: 83-0715 PAGE: 6

SAMPLE ID	AU PPB	AG PPM	AS PPM	HG PPB	SB PPM	SAMPLE ID	AU PPB	AG PPM	AS PPM	HG PPB	SB PPM
111E 100+50N	<5	<.2	1.2	74	<.2	113E 97+00N	<5	.2	1.4	250	<.2
111E 101+00N	<5	.2	1.2	137	<.2	113E 97+50N	<5	<.2	1.0	137	<.2
111E 101+50N	<5	.4	2.1	137	<.2	113E 98+00N	<5	<.2	1.0	157	<.2
111E 102+00N	<5	<.2	2.8	137	<.2	113E 98+50N	<5	.4	3.0	220	<.2
111E 102+50N	<5	.4	4.9	126	<.2	113E 99+00N	<5	.2	1.2	180	<.2
111E 103+00N	<5	<.2	1.1	137	<.2	113E 99+50N	<10	.2	1.0	137	<.2
111E 103+50N	<5	.4	2.8	158	<.2	113E 100+00N	<10	.2	2.0	147	<.2
111E 104+00N	<5	<.2	7.0	74	<.2	113E 100+50N	<10	.2	.8	115	<.2
111E 104+50N	<10	<.2	1.4	53	<.2	113E 101+00N	<5	.2	1.4	170	<.2
111E 105+00N	<5	.4	3.2	105	<.2	113E 101+50N	<5	<.2	1.2	105	<.2
111E 105+50N	<5	<.2	1.1	150	<.2	113E 102+00N	<5	.2	2.2	180	<.2
111E 106+00N	<5	<.2	3.2	221	<.2	113E 102+50N	<5	<.2	1.8	147	<.2
111E 106+35N	<5	<.2	2.5	180	<.2	113E 103+00N	<5	.2	1.4	145	<.2
112E 94+00N	<5	<.2	2.5	116	<.2	113E 103+50N	<5	<.2	1.8	115	<.2
112E 94+50N	<5	<.2	1.2	220	<.2	113E 104+00N	<5	.2	2.0	135	<.2
112E 95+00N	<5	<.2	2.8	84	<.2	113E 104+50N	<5	.4	2.8	135	<.2
112E 95+50N	<5	<.2	1.6	190	<.2	113E 105+00N	<5	.2	1.0	95	<.2
112E 96+00N	<5	<.2	2.7	105	<.2	113E 105+50N	<5	.2	1.2	74	<.2
112E 96+50N	<5	<.2	2.3	170	<.2	113E 106+00N	<5	.4	4.0	74	<.2
112E 97+00N	5	<.2	2.0	240	<.2	113E 106+18N	<5	<.2	2.4	174	<.2
112E 97+50N	<5	<.2	1.8	280	<.2	114E 94+00N	<5	.2	2.2	150	<.2
112E 98+00N	<5	<.2	2.2	280	<.2	114E 94+50N	<5	<.2	1.8	166	<.2
112E 98+50N	<5	<.2	1.2	170	<.2	114E 95+00N	<5	<.2	.8	66	<.2
112E 99+00N	<5	<.2	.6	190	<.2	114E 95+50N	<5	<.2	.6	116	<.2
112E 99+50N	<5	<.2	1.8	84	<.2	114E 96+00N	<5	.2	1.8	134	<.2
112E 100+00N	5	<.2	3.0	160	<.2	114E 96+50N	<5	<.2	2.0	166	<.2
112E 100+50N	115	<.2	3.4	105	<.2	114E 97+00N	<5	<.2	1.4	134	<.2
112E 101+00N	<5	<.2	2.0	125	<.2	114E 97+50N	<5	<.2	4.2	300	<.2
112E 101+50N	<5	<.2	1.2	157	<.2	114E 98+00N	<5	.2	.8	150	<.2
112E 102+00N	<5	<.2	1.0	147	<.2	114E 98+50N	<10	.2	2.6	150	<.2
112E 102+50N	<5	<.2	1.6	220	<.2	114E 99+00N	<5	<.2	2.6	174	<.2
112E 103+00N	<5	.2	1.0	126	<.2	114E 99+50N	<5	<.2	1.4	183	<.2
112E 103+50N	<5	1.2	4.0	126	<.2	114E 100+00N	<5	.4	2.0	200	<.2
112E 104+00N	<5	.2	2.6	63	<.2	114E 100+50N	<5	<.2	1.4	91	<.2
112E 104+50N	<5	.2	2.2	147	<.2	114E 101+00N	<5	.4	1.8	205	<.2
112E 105+00N	<5	<.2	1.2	126	<.2	114E 101+50N	<5	.2	4.8	108	<.2
112E 105+50N	<5	<.2	1.8	105	<.2	114E 102+00N	<10	.2	1.0	91	<.2
112E 106+00N	<5	<.2	3.4	170	<.2	114E 102+50N	<5	.8	3.4	83	<.2
112E 106+14N	<5	<.2	1.4	137	<.2	114E 103+00N	<5	.8	3.4	83	<.2
113E 94+00N	<5	<.2	.6	105	<.2	114E 103+50N	<5	.4	1.4	83	<.2
113E 94+50N	<5	<.2	1.2	180	<.2	114E 104+00N	<5	<.2	1.0	75	<.2
113E 95+00N	<5	.2	.6	136	<.2	114E 104+50N	<5	.4	2.0	166	<.2
113E 95+50N	<10	<.2	1.0	180	<.2	114E 105+00N	<5	.4	1.4	50	<.2
113E 96+00N	<5	.2	1.6	315	<.2	114E 105+50N	<5	.2	1.0	100	<.2
113E 96+50N	<5	<.2	2.0	230	<.2	115E 94+00N	<5	.2	2.6	191	<.2

BARRINGER MAGENTA

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3760 - 19TH STREET
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T2E 6V2
(403) 276-8701

FILE: T3-0715
DATE: 05/12/83
MATRIX: NO3/CL04

NOLIN GEO-ENTERPRISES (HUMUS SAMPLES) WO NO: 83-0715 PAGE:

SAMPLE ID	AU PPB	AG PPM	AS PPM	HG PPB	SB PPM	SAMPLE ID	AU PPB	AG PPM	AS PPM	HG PPB	SB PPM
115E 94+50N	<5	.4	3.6	108	<.2	117E 99+50N	<5	<.2	2.2	190	<.2
115E 95+00N	<5	.4	1.8	175	<.2	117E 100+00N	<5	<.2	1.8	160	<.2
115E 95+50N	<5	<.2	1.8	225	<.2	117E 100+50N	<5	<.2	1.2	140	<.2
115E 96+00N	<5	<.2	1.6	166	<.2	117E 101+25N	<5	.2	1.6	125	<.2
115E 96+50N	<5	.4	1.6	230	<.2	117E 101+75N	<5	<.2	1.4	108	<.2
115E 97+00N	<5	<.2	2.2	190	<.2	117E 102+00N	<10	.2	1.8	83	<.2
115E 97+50N	<5	.4	1.0	75	<.2	117E 102+50N	<5	.2	1.0	108	<.2
115E 98+00N	<5	<.2	1.2	160	<.2	117E 103+00N	<5	<.2	3.8	83	<.2
115E 98+50N	<5	.4	1.2	140	<.2	117E 103+50N	<5	.6	6.0	125	<.2
115E 99+00N	<5	.2	1.2	150	<.2	117E 104+00N	<5	<.2	2.4	91	<.2
115E 99+50N	<5	.2	1.6	175	<.2	117E 104+50N	<5	<.2	1.3	103	<.2
115E 100+00N	<5	<.2	1.8	108	<.2	117E 105+00N	<5	<.2	1.5	74	<.2
115E 100+50N	<5	<.2	2.0	133	<.2	117E 105+50N	<5	<.2	3.7	80	<.2
115E 101+00N	<5	.2	1.0	140	<.2	118E 100+00N	<5	<.2	.5	143	<.2
115E 101+50N	<5	.2	.6	100	<.2	118E 100+50N	<5	<.2	1.5	103	<.2
115E 102+00N	<10	<.2	1.6	150	<.2	118E 101+00N	<5	<.2	1.1	108	<.2
115E 102+50N	<5	<.2	2.0	160	<.2	118E 101+50N	<5	<.2	.9	97	<.2
115E 103+00N	<5	<.2	1.8	75	<.2	118E 102+00N	<5	<.2	2.1	171	<.2
115E 103+50N	<5	<.2	1.8	58	<.2	118E 102+75N	<5	<.2	3.4	188	<.2
115E 104+00N	<5	<.2	2.0	75	<.2	118E 103+00N	<5	<.2	1.1	143	<.2
115E 104+50N	<5	<.2	.6	108	<.2	118E 103+50N	<5	.2	12.2	97	<.2
115E 105+00N	<5	<.2	1.4	66	<.2	118E 104+00N	<5	.6	27.5	108	<.2
115E 105+50N	<5	<.2	1.0	108	<.2	118E 104+50N	<5	.2	2.2	91	.2
116E 100+00N	<5	<.2	1.0	160	<.2	118E 105+00N	<5	.4	.7	86	<.2
116E 100+50N	<5	<.2	1.2	108	<.2	118E 105+36N	<5	.2	2.8	97	<.2
116E 101+00N	<10	<.2	1.6	83	<.2	119E 94+00N	<5	.2	.6	114	<.2
116E 101+50N	<5	<.2	7.0	58	<.2	119E 94+50N	<5	<.2	.7	120	<.2
116E 102+00N	<5	.2	2.0	166	<.2	119E 95+00N	<5	.4	1.8	125	<.2
116E 102+50N	<5	<.2	.4	125	<.2	119E 95+50N	<5	<.2	2.9	342	<.2
116E 103+00N	<5	<.2	1.0	174	<.2	119E 96+00N	<5	<.2	.5	80	.2
116E 103+50N	<5	<.2	1.2	100	<.2	119E 96+50N	<5	.2	.9	160	.2
116E 104+00N	<5	.2	.8	133	<.2	119E 97+00N	<5	.2	2.0	137	<.2
116E 104+50N	<5	.2	1.0	66	<.2	119E 97+50N	<5	<.2	.7	91	<.2
116E 104+91N	<10	.4	1.8	125	<.2	119E 98+00N	<5	<.2	1.5	170	<.2
117E 94+00N	<5	<.2	1.2	174	<.2	119E 98+50N	<5	<.2	1.4	182	<.2
117E 94+50N	<5	<.2	2.0	149	<.2	119E 99+00N	<5	<.2	1.0	188	<.2
117E 95+00N	<5	<.2	1.6	250	<.2	119E 99+50N	<5	<.2	1.3	239	<.2
117E 95+50N	<10	<.2	.6	158	<.2	119E 100+00N	<5	.2	.5	139	<.2
117E 96+00N	<5	<.2	1.6	350	<.2	120E 100+00N	<5	.4	2.2	135	<.2
117E 96+50N	<5	.2	1.6	290	<.2	120E 100+50N	<5	<.2	3.1	320	<.2
117E 97+00N	<5	.4	.6	116	<.2	120E 101+00N	<5	.8	2.8	245	<.2
117E 97+50N	<5	<.2	1.6	230	<.2	120E 101+50N	<5	.4	1.5	205	<.2
117E 98+00N	<5	<.2	1.2	160	<.2	120E 102+00N	<5	.6	4.4	290	<.2
117E 98+50N	<5	.4	.8	140	<.2	120E 102+75N	<5	.2	2.2	183	<.2
117E 99+00N	<5	<.2	1.2	270	<.2	120E 103+00N	<5	.2	3.1	270	<.2

BARRINGER MAGENTA

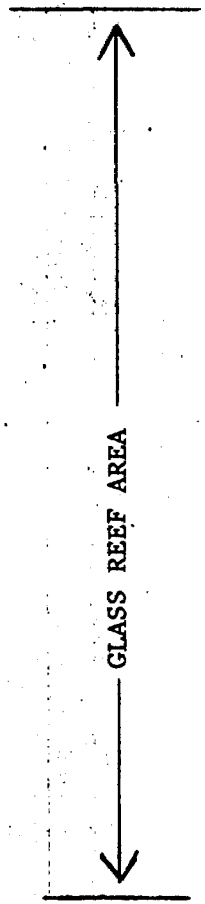
304 CARLINGVIEW DRIVE
REXDALE, ONTARIO
M9W 5G2
(416) 675-3870

3750 - 19TH STREET
SUITE 106
CALGARY, ALBERTA
T2E 6V2
(403) 276-8701

FILE: T3-0715
DATE: 05/12/83
MATRIX: NO3/CL04

NOLIN GEO-ENTERPRISES (HUMUS SAMPLES) WO NO: 83-0715 PAGE: 5

SAMPLE ID	AU PPB	AG PPM	AS PPM	HG PPB	SB PPM
120E 103+50N	<5	1.0	5.3	126	<.2
120E 104+00N	<5	<.2	3.1	120	<.2
120E 104+50N	<10	<.2	1.4	165	<.2
120E 105+00N	<10	<.2	1.6	113	<.2
L250E-20 S	<5	<.2	2.8	270	<.2
L250E-25 N	<5	<.2	3.1	210	<.2
L250E-75 N	<5	<.2	2.4	175	<.2
L250E-125 N	<5	<.2	3.2	215	<.2
L300E-45 S	<5	<.2	2.2	174	<.2
L300E-00 N	<5	<.2	1.7	145	<.2
L300E-50 N	<5	<.2	2.4	250	<.2
L300E-100 N	<5	<.2	3.6	295	<.2
L300E-150 N	<5	<.2	4.1	210	<.2
L350E-50 S	<5	.2	6.6	135	<.2
L350E-00 N	<5	<.2	3.3	260	<.2
L350E-50 N	<5	<.2	1.6	174	<.2
L350E-100 N	<5	<.2	1.3	145	<.2
L350E-150 N	<5	<.2	1.1	165	<.2
L650E-50 S	<5	<.2	4.6	190	<.2
L650E-00 N	<5	.2	4.6	165	<.2
L650E-50 N	<5	<.2	3.8	226	<.2
L650E-100 N	<5	<.2	3.0	174	<.2
L650E-150 N	<5	<.2	5.9	165	<.2
L700E-50 S	<5	<.2	3.2	280	<.2
L700E-00 N	<5	<.2	3.3	210	<.2
L700E-50 N	<5	<.2	3.6	200	<.2
L700E-100 N	<5	<.2	1.3	174	<.2
L700E-150 N	<5	<.2	1.6	190	<.2
L700E-200 N	<5	<.2	2.6	205	<.2
L700E-250 N	<5	.2	6.4	195	<.2
L750E-00 N	<5	.2	4.2	200	<.2
L750E-50 N	<5	<.2	1.1	174	<.2
L750E-100 N	<5	<.2	1.1	165	<.2
L750E-150 N	<5	<.2	4.2	210	<.2
L750E-200 N	<5	<.2	2.2	145	<.2
104E 104+00N	<10	<.2	.5	104	<.2
104E 104+25N	<5	<.2	.5	130	<.2



BARRINGER MAGENTA

304 CARLINGVIEW DRIVE
REXDALE, ONTARIO
M9W 5G2
(416) 675-3870

3750 - 19TH STREET
SUITE 105
CALGARY, ALBERTA
T2E 6V2
(403) 276-9701

FILE: T3-0467
DATE: 14/09/83
MATRIX: HUMUS

NOLIN GEO-ENTERPRISE BMLC REF 83-5376 WO NO: 83-0467 PAGE: 1

SAMPLE ID	AS PPM	SB PPM	AG PPM	HG PPB	AU PPB	SAMPLE ID	AS PPM	SB PPM	AG PPM	HG PPB	AU PPB
0+ 50N WW	3.2	<.2	.4	168	<5	1000+ 00N	3.4	<.2	<.2	222	<5
0+500N GB	1.2	<.2	<.2	106	<5	1000+100N	1.9	<.2	<.2	176	<5
0+600N GB	2.2	<.2	.4	86	<5	1000+200N	2.1	<.2	<.2	152	<5
0E + 50S	3.1	<.2	.2	168	<5	1000+100S	2.7	<.2	.4	264	<5
0E +100S	3.2	<.2	<.2	158	<5	1000+200S	3.4	<.2	.2	134	<5
0E +100N	3.9	<.2	<.2	254	<5	1000+400S	2.7	<.2	<.2	249	<5
0W +50S WN	3.6	<.2	<.2	127	<5	1100+ 00N	4.5	<.2	<.2	146	<5
0W +150S	3.1	<.2	<.2	147	<5	1100+100N	9.7	<.2	<.2	131	<5
0WW+50N WN	2.4	<.2	<.2	243	<5	1100+100S	2.1	<.2	<.2	158	<5
0WW+200N WN	1.4	<.2	.4	182	<5	1100+300S	2.4	<.2	<.2	179	<5
0LLW+100N	9.6	<.2	<.2	98	<5	1100+500S	2.9	<.2	<.2	188	<5
0 +150S WN	4.1	<.2	<.2	234	<5	1300+ 00	3.7	<.2	.2	173	<5
175AE +00N	2.4	<.2	.4	152	<5	1300+100N	2.1	<.2	.2	134	<5
175A + 50N	1.5	<.2	<.2	143	<5	1300+100S	8.8	<.2	<.2	110	<5
200WW +50S	2.4	<.2	<.2	128	<5	1300+300S	4.2	<.2	<.2	149	<5
200WW + 150S	3.9	<.2	<.2	234	<5	1300+500S	2.9	<.2	.2	204	<5
200W +00N WN	2.0	<.2	<.2	200	<5	1400+100S	2.7	<.2	.2	101	<5
200W +100NWN	3.2	<.2	<.2	101	<5	1400+300S	2.4	<.2	<.2	182	<5
200W+200N WN	4.1	<.2	<.2	246	<5	1400+500S	1.3	<.2	<.2	149	<5
200WE+00N WN	3.4	<.2	<.2	197	<5	1500+100N	2.7	<.2	<.2	188	<5
200WE+100NWN	2.0	<.2	<.2	221	<5	1500+200N	5.5	<.2	.2	264	<5
200WE+200NWN	5.2	<.2	<.2	230	<5	1500+ 00	1.6	<.2	<.2	173	<5
350WE+50NWN	3.4	<.2	<.2	197	<5	1500+100S	5.9	<.2	.2	71	<5
350WE+150NWN	3.6	<.2	<.2	181	<5	1500+300S	26.0	<.2	<.2	95	<5
350WE+300NWN	6.5	<.2	<.2	202	<5	1500+500S	2.9	<.2	.2	182	<5
400W+00N WN	4.1	<.2	.4	160	<5	1700+ 00N	2.1	<.2	.4	167	<5
400W+100N WN	3.2	<.2	<.2	181	<5	1700+100N	5.5	<.2	<.2	173	<5
400W+300NWN	2.6	<.2	.2	150	<5	1700+100S	4.3	<.2	.2	105	<5
400E+50S WN	14.2	<.2	<.2	108	<5	1700+300S	1.7	<.2	.2	166	<5
400E+100S WN	3.7	<.2	.2	160	<5	1700+500S	2.0	<.2	<.2	145	<5
400E+150N WN	2.9	<.2	<.2	150	<5	1800+ 00	4.3	<.2	.2	240	<5
200E+100N GB	2.6	<.2	.2	202	<5	1800+400N	4.0	<.2	<.2	352	<5
200E+150N GB	3.4	<.2	<.2	145	<5	1800+100S	4.3	<.2	<.2	183	<5
400E+ 50N GB	280	.2	<.2	78	<5	1800+500S	1.1	<.2	<.2	129	<5
400E+150N GB	4.8	<.2	.2	139	<5	1900+ 00	4.4	<.2	.2	183	<5
400E+350N GB	9.3	<.2	.2	119	<5	1900+100N	3.1	<.2	.2	240	<5
400E+600N GB	4.0	<.2	<.2	139	<5	1900+100S	12.3	<.2	<.2	188	<5
600E+ 00N GB	7.5	<.2	<.2	121	<5	1900+300S	4.0	<.2	<.2	166	<5
600E+ 10NGB9	60.0	<.2	.4	150	<5	1900+500S	4.0	<.2	<.2	222	<5
600E+200N GB	2.4	<.2	.4	224	<5	2000+ 00N	4.3	<.2	<.2	188	<5
600E+350N GB	2.7	<.2	.2	170	<5	2000+200N	6.9	<.2	.2	183	<5
600E+550N GB	2.7	<.2	<.2	150	<5	2000+400N	7.2	<.2	<.2	305	<5
800E+ 00N GB	1.1	<.2	.2	129	<5	2000+100S	6.3	<.2	<.2	105	<5
800E+100N GB	1.1	<.2	.4	139	<5	2000+300S	3.4	<.2	<.2	175	<5
800E+150N GB	28.0	<.2	<.2	51	<5	2000+500S	4.4	<.2	1.0	166	<5

BARRINGER MAGENTA

304 CARLINGVIEW DRIVE
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3750 - 19TH STREET
SUITE 105
CALGARY, ALBERTA
T2E 6V2
(403) 276-9701

FILE: T3-0467
DATE: 14/09/83
MATRIX: HUMUS

NOLIN GEO-ENTERPRISE BMLC REF 83-5376 WO NO: 83-0467 PAGE: 2

SAMPLE ID	AS PPM	SB PPM	AG PPM	HG PPB	AU PPB	SAMPLE ID	AS PPM	SB PPM	AG PPM	HG PPB	AU PPB
2100+ 00	5.5	<.2	<.2	222	<5	2800+100N	.9	<.2	<.2	130	<5
2100+200N	2.6	<.2	<.2	166	<5	2800+500N	1.7	<.2	.2	150	<5
2100+400N	5.0	<.2	<.2	234	<5	2900+300N	4.6	<.2	.2	89	<5
2100+100S	3.4	<.2	<.2	175	<5	2900+400N	5.3	<.2	<.2	165	<5
2100+200S	5.8	<.2	<.2	150	<5	3000+100N	3.1	<.2	<.2	271	<5
2100+300S	3.7	<.2	<.2	268	<5	3000+300N	4.7	<.2	<.2	96	<5
2200+00	4.3	<.2	<.2	234	<5	3000+100S	3.0	<.2	<.2	170	<5
2200+200N	6.1	<.2	.4	150	<5	3000+200S	5.3	<.2	<.2	64	<5
2200+400N	17.1	<.2	.6	188	<5	3000+300S	1.6	<.2	<.2	208	<5
2200+100S	2.9	<.2	<.2	133	<5	3100+ 00	2.6	<.2	<.2	122	<5
2200+300S	7.2	<.2	.4	201	<5	3100+100N	2.1	.2	<.2	115	<5
2200+500S	2.0	<.2	.2	175	<5	3100+100S	.8	.2	<.2	127	<5
2300+ 200N	1.7	<.2	<.2	150	<5	3100+200S	1.8	.2	<.2	153	<5
2300 +300N	2.6	<.2	<.2	137	<5	3200+100N	3.8	<.2	<.2	110	<5
2300+ 500N	2.9	<.2	.2	145	<5	3200+400N	3.5	<.2	<.2	80	<5
2300 + 100S	3.7	<.2	<.2	175	<5	3200+100S	1.3	.2	<.2	231	<5
2300 +300S	5.2	<.2	<.2	209	<5	3200+200S	1.6	.3	<.2	92	<5
2300 +500S	8.6	<.2	<.2	73	<5	3300+ 00	4.6	<.2	<.2	129	<5
2400+ 00S	3.5	<.2	<.2	180	<5	3300+100S	.6	.2	<.2	134	<5
2400 +200S	8.4	<.2	<.2	72	<5	3300+100N	5.8	<.2	<.2	26	<5
2400 +400S	4.4	<.2	<.2	128	<5	3300+300N	6.4	<.2	<.2	52	<5
2400 +600S	2.6	<.2	<.2	126	<5	3400+100S	3.5	<.2	<.2	87	<5
2400+800S	3.2	<.2	.4	205	<5	3400+200N	1.0	<.2	<.2	127	<5
2400+1000S	1.4	<.2	.2	128	<5	3500+ 00	6.7	<.2	<.2	101	<5
2500+ 00	4.4	<.2	.2	205	<5	3500+100N	7.7	<.2	<.2	<5	<5
2500+100N	1.2	<.2	.2	138	<5	3500+200N	1.8	<.2	<.2	158	<5
2500+100S	1.9	<.2	.2	170	<5	3500+300N	7.0	<.2	<.2	16	<5
2500+300S	4.1	<.2	<.2	218	<5	3500+100S	3.1	<.2	.2	111	<5
2500+500S	1.5	<.2	<.2	133	<5	3700+200N	4.0	<.2	.2	93	<5
2500+700S	2.2	<.2	<.2	220	<5	3700+300N	5.0	<.2	<.2	162	<5
2500+900S	1.0	<.2	.2	200	<5	3800+ 00	4.0	<.2	<.2	<5	<5
2500+1100S	4.7	<.2	<.2	62	<5	3800+200N	3.9	<.2	<.2	166	<5
2600+ 00	3.9	<.2	<.2	155	<5	3800+300	4.3	<.2	<.2	142	<5
2600+200S	1.9	<.2	.2	307	<5	3900+200N	5.9	<.2	<.2	194	<5
2600+400S	4.1	<.2	.2	13	<5	3900+300N	3.1	<.2	.2	233	<5
2600+900S	1.9	<.2	<.2	178	<5	5000+600S	3.7	<.2	<.2	85	<5
2700+ 00	1.6	<.2	.2	170	<5	5000+800S	2.2	<.2	<.2	172	<5
2700+100N	2.3	<.2	<.2	155	<5	5000+900S	2.5	<.2	.2	166	<5
2700+600N	2.6	<.2	.2	195	<5	6000+700S	2.5	<.2	<.2	184	<5
2700+100S	1.1	<.2	<.2	108	<5	NBL 50+ 00	4.5	<.2	.2	213	<5
2700+300S	5.9	<.2	<.2	116	<5	NBL 50+200S	3.2	<.2	<.2	203	<5
2700+500S	3.2	<.2	.2	205	<5	NBL 50+400S	4.5	<.2	<.2	85	<5
2700+700S	2.9	<.2	.4	91	<5	NBL 51+100S	3.8	<.2	<.2	156	<5
2700+900S	2.0	<.2	<.2	268	<5	NBL 51+200S	3.0	<.2	<.2	168	<5
2700+1100S	3.9	<.2	<.2	155	<5	NBL 1+300S	3.2	<.2	<.2	210	<5

BARRINGER MAGENTA

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T2E 6V2
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FILE: T3-0467
DATE: 14/09/83
MATRIX: HUMUS

NOLIN GEO-ENTERPRISE BMLC REF 83-5376 WO NO: 83-0467

SAMPLE ID	AS PPM	SB PPM	AG PPM	HG PPB	AU PPB	SAMPLE ID	AS PPM	SB PPM	AG PPM	HG PPB	AU PPB
NBL 52+ 00	6.2	<.2	<.2	268	<5	GLS00+100N	2.7	<.2	<.2	49	<5
NBL 52+100S	3.6	<.2	<.2	268	<5	GLS200E-400N	3.3	<.2	<.2	41	<5
NBL 52+200S	2.9	<.2	<.2	286	<5	GLS300E-00	3.9	<.2	<.2	246	155
SBL2900+00N	2.7	<.2	<.2	96	<5	GLS400E-00	3.0	<.2	<.2	109	<5
SBL2900+100N	1.8	<.2	<.2	168	<5	GLS500E-00	3.1	<.2	<.2	154	<5
SBL2900+00	2.2	<.2	<.2	128	<5	GLS500E-200N	4.3	<.2	<.2	134	<5
SBL2900+100S	2.2	<.2	<.2	139	<5	GLS500E-400N	5.8	<.2	<.2	99	<5
SBL2900+200S	2.4	<.2	<.2	250	<5	600E-00	18.0	<.2	<.2	39	<5
SBL2900+325	4.2	<.2	<.2	286	<5	600E-200N	5.7	<.2	<.2	45	<5
SBL2800+00	3.6	<.2	<.2	128	<5	600E-400N	7.8	<.2	<.2	61	<5
SBL2800+200N	2.4	<.2	<.2	114	<5	700E-00	3.9	<.2	<.2	144	<5
SBL2800+100S	18.6	<.2	<.2	148	<5	700E-100N	3.8	<.2	<.2	119	45
SBL2700+00	4.0	<.2	<.2	101	<5	700E-500N	7.2	<.2	<.2	144	<5
SBL2700+100N	2.7	<.2	<.2	98	<5	800E-200N	7.5	<.2	<.2	45	<5
SBL2700+200N	2.2	<.2	<.2	106	<5	800E-400N	6.2	<.2	<.2	119	<5
SBL2700+100S	3.1	<.2	<.2	268	<5	800E-100S	2.5	.2	1.4	144	<5
SBL27C/1+1CS	4.4	<.2	<.2	190	<5	900E-00	3.9	<.2	.2	234	<5
SBL27C/1+1CN	4.0	<.2	<.2	187	<5	900E-100N	8.6	.6	<.2	416	<5
SBL27C/2+2CN	2.3	<.2	<.2	172	<5	900E-300N	8.0	<.2	<.2	308	<5
SBL2500+ 00	4.0	<.2	<.2	85	<5	900E-100S	5.0	<.2	<.2	203	<5
NBL2400+00	4.5	<.2	<.2	98	<5	900E-300S	3.9	<.2	<.2	43	<5
NBL2400+200S	2.0	<.2	<.2	166	<5	900E-500S	3.9	<.2	<.2	51	<5
NBL1200+ 00	4.7	<.2	<.2	160	<5	LL450E+300N	2.7	<.2	<.2	56	<5
NBL1200+100N	3.0	<.2	<.2	142	<5	LL450E+400N	6.0	<.2	<.2	316	<5
NBL1100+ 00	5.3	<.2	<.2	154	<5	LL450E+500N	4.1	<.2	<.2	243	<5
NBL1100+100N	5.3	<.2	.2	114	<5	00LL+50N	2.5	<.2	<.2	167	<5
NBL1100+200N	2.3	<.2	<.2	216	<5	LLW175E+200N	5.0	<.2	<.2	127	<5
500+00N	4.2	<.2	.2	197	<5	UM00+BL	5.8	<.2	<.2	150	<5
500+100N	3.0	<.2	<.2	178	<5	UM00+50N	6.8	<.2	<.2	468	<5
NBL400+00N	4.0	<.2	.2	184	<5	UM500+200S	5.6	<.2	<.2	109	<5
NBL400+100N	2.3	<.2	<.2	162	<5	UM500-300S	3.6	<.2	<.2	199	<5
NBL400+200N	2.3	<.2	<.2	111	<5	UM500-700S	4.5	<.2	<.2	132	<5
NBL300+00	3.3	<.2	.4	162	<5	UM1500-100S	4.8	<.2	<.2	92	<5
NBL200+ 00	6.2	<.2	.2	203	<5	UM1500-300S	1.9	.2	<.2	141	<5
00 +NBL	7.0	<.2	<.2	122	<5	UM1500-500S	2.8	<.2	<.2	145	<5
40 + 00-200N	3.0	<.2	<.2	200	<5	UM1500-650SN	2.4	<.2	<.2	114	<5
39+00-00	2.7	<.2	<.2	208	<5	UM1500-800S	2.1	<.2	<.2	145	<5
39+00-100S	3.0	<.2	<.2	129	<5	UM1500-900	3.8	<.2	<.2	176	<5
38+00-100S	1.0	<.2	<.2	129	<5	UM2000+ 50N	3.6	<.2	<.2	100	<5
SBL38+00-1CN	4.7	.8	<.2	234	<5	UM2000+200N	4.2	.4	<.2	282	<5
SBL37+00-1CN	2.5	.2	<.2	221	<5	UM2000+350N	1.6	<.2	<.2	78	<5
37+00-450S	3.7	<.2	<.2	84	<5	UM2000+500N	5.4	<.2	<.2	228	<5
36+00+00	2.4	<.2	<.2	149	<5	UM2000+650N	2.3	<.2	<.2	192	<5
36+00+200N	3.6	<.2	<.2	90	<5	UM2000+750N	5.2	<.2	<.2	96	<5
GLS 00-BL	3.6	<.2	<.2	20	<5	UM2000+850N	3.4	<.2	<.2	46	<5

BARRINGER MAGENTA

304 CARLINGVIEW DRIVE
REXDALE, ONTARIO
M9W 5G2
(416) 675-3870

3750 - 19TH STREET
SUITE 105
CALGARY, ALBERTA
T2E 6V2
(403) 276-9701

FILE: T3-0467
DATE: 14/09/83
MATRIX: HUMUS

NOLIN GEO-ENTERPRISE BMLC REF 83-5376 WO NO: 83-0467 PAGE:

SAMPLE ID	AS PPM	SB PPM	AG PPM	HG PPB	AU PPB	SAMPLE ID	AS PPM	SB PPM	AG PPM	HG PPB	AU PPB
GR 00+300N	3.1	<.2	<.2	192	<5	C4K200+ 00	1.8	<.2	<.2	132	<5
GR 00+150S	3.1	<.2	<.2	132	<5	C4K200 +150N	2.7	<.2	<.2	142	<5
GR 00+350S	3.2	<.2	<.2	139	<5	C4K300 + 00	1.4	<.2	<.2	77	<5
GR 00+450S	2.5	<.2	<.2	158	<5	C4K300 +100N	4.0	<.2	<.2	229	<5
GR 500+200N	4.0	<.2	<.2	46	<5	C4K300 +150N	3.1	<.2	<.2	120	<5
GR1000+ 50S	6.7	<.2	<.2	117	<5	C4K400 +00	3.7	<.2	<.2	161	<5
GR1000+100N	.5	<.2	<.2	48	<5	C4K5400+050N	2.6	<.2	<.2	165	<5
GR1500+ 50N	1.1	<.2	<.2	12	<5	C4K5400+100N	3.7	<.2	<.2	158	<5
GR1500+150N	1.6	<.2	<.2	25	<5	UM3500+100S	1.4	<.2	<.2	168	<5
GR1500+400N	.8	<.2	<.2	48	<5	UM3500+250S	3.8	<.2	<.2	59	<5
GR2000+ 50S	.5	<.2	<.2	40	<5	UM4000+ 00N	3.7	<.2	<.2	126	<5
GR2000+300S	.8	<.2	<.2	43	<5	UM4000+100N	3.4	<.2	<.2	88	<5
GR2000+500S	.5	<.2	<.2	50	<5	UM4000+200N	3.7	<.2	<.2	129	<5
GR2000+600S	2.7	<.2	<.2	40	<5	UM4000+300N	2.3	<.2	<.2	155	<5
GR2000+700S	1.6	<.2	<.2	50	<5	UM4500+50S	5.4	<.2	<.2	82	<5
GR2000+800S	2.1	<.2	<.2	40	<5	UM4500 +200S	3.4	<.2	<.2	207	<5
GR2500+ 50N	2.1	<.2	<.2	50	<5	UM4500 +300S	3.1	<.2	<.2	85	<5
GR2500+150N	<.2	<.2	<.2	52	<5	C5K100+00	6.7	<.2	<.2	161	<5
GR2500+250N	1.1	<.2	<.2	45	<5	C5K100+ 50N	2.4	<.2	<.2	88	<5
GR2500+400N	2.1	<.2	<.2	30	<5	C5K100 +100N	3.1	<.2	<.2	135	<5
GR3000+ 50N	1.3	<.2	<.2	28	<5	C5K100 + 50S	2.1	<.2	<.2	120	<5
GR3000+150N	.8	<.2	<.2	40	<5	C5K100 +100S	2.3	<.2	<.2	151	<5
GR3500+ 50S	1.3	<.2	<.2	48	<5	C4K200 +100S	2.4	<.2	<.2	185	<5
GR3500+100S	<.2	<.2	<.2	45	<5	C5K300 +00	1.7	<.2	<.2	210	<5
GR1500 +200N	1.3	<.2	<.2	53	<5	C5K300 + 50N	3.6	<.2	<.2	268	<5
GR 00 +500S	1.1	<.2	<.2	53	<5	C5K300 +100N	2.0	<.2	<.2	96	<5
GR 500+00	4.8	<.2	<.2	68	<5	C5K300+ 50S	3.1	<.2	<.2	229	<5
GR 00+100S	1.3	<.2	<.2	74	<5	C5K300+ 150S	4.0	<.2	<.2	210	<5
C2K400E+25S	1.3	<.2	<.2	99	<5	C5K500 + 00	3.4	<.2	<.2	155	<5
C2K400E+100S	1.6	<.2	<.2	50	<5	C5K500 +100N	2.3	<.2	<.2	94	<5
C2K400E+200S	1.1	<.2	<.2	102	<5	C5K500 +200N	2.3	<.2	<.2	105	<5
C2K400E+300S	1.6	<.2	<.2	59	<5	C5K500 +300N	1.8	<.2	<.2	132	<5
C2K500E+00S	1.1	<.2	<.2	140	<5	C5K500 +50S	4.1	<.2	<.2	139	<5
C2K500E+100S	1.6	<.2	<.2	47	<5	C5K500 +200S	2.1	<.2	<.2	123	<5
C2K500E+200S	1.1	<.2	<.2	96	<5	C5K500 +300S	1.5	<.2	<.2	135	<5
C3K 00+50N	.8	<.2	<.2	70	<5	C5K700+ 00	1.3	<.2	<.2	132	<5
C3K 00+150N	1.1	<.2	<.2	86	<5	C5K700+ 100N	2.1	<.2	<.2	192	<5
C3K 00 +250N	2.9	<.2	<.2	83	<5	C5K700 +200N	2.7	<.2	<.2	178	<5
C4K 00 + 00N	.5	<.2	<.2	57	<5	C5K700 +300N	1.2	<.2	<.2	51	<5
C4K 00 +200N	1.9	<.2	<.2	30	<5	C5K700 + 50S	2.5	<.2	<.2	145	<5
C4K 00 +400N	<.2	<.2	<.2	60	<5	C5K700 +150S	2.8	<.2	<.2	120	<5
C4K100 +00	1.9	<.2	<.2	83	<5	C5K700 +250S	1.8	<.2	<.2	99	<5
C4K100 +200S	2.8	<.2	<.2	210	<5	C5K900 + 00	3.4	<.2	<.2	182	<5
C4K100 +400S	5.2	<.2	.8	268	<5	C5K900 + 50N	5.8	<.2	<.2	145	<5
C4K100+600S	3.1	<.2	<.2	96	<5	C5K900+150N	9.4	.2	<.2	114	<5

BARRINGER MAGENTA

304 CARLINGVIEW DRIVE
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M9W 5G2
(416) 675-3870

3750 - 19TH STREET
SUITE 105
CALGARY, ALBERTA
T2E 6V2
(403) 276-9701

FILE: T3-0467
DATE: 14/09/83
MATRIX: HUMUS

NOLIN GEO-ENTERPRISE BMLC REF 83-5376 WO NO: 83-0467 PAGE: 3

SAMPLE ID	AS PPM	SB PPM	AG PPM	HG PPB	AU PPB
C5K900+ 25ON	3.4	<.2	<.2	196	<5
C5K900 +50S	6.0	<.2	<.2	175	<5
C5K900 +150S	3.6	<.2	<.2	117	<5
C5K900 +250S	4.6	<.2	<.2	189	<5
C6KL200+ 00	4.4	<.2	.2	77	<5
C6KL200+50N	4.0	<.2	<.2	69	<5
C6KL200+150N	5.1	<.2	.2	182	<5
C6KL200+300N	.6	<.2	<.2	66	<5
C6KL200+400N	7.5	<.2	<.2	205	<5
C6KL200+500N	3.8	<.2	<.2	106	<5
C6KL200+600N	6.7	<.2	<.2	179	<5
C6KL200+700N	5.8	<.2	<.2	182	<5
C6K 00 + 00	6.5	<.2	<.2	185	<5
C6K 00 + 50N	4.4	<.2	<.2	160	<5
C6K 00 +150N	4.9	<.2	<.2	126	<5
C6K 00+250N	7.8	<.2	<.2	98	<5
C6K 00+350N	8.3	<.2	<.2	56	<5
C6K 00+450N	2.0	<.2	<.2	152	<5
C6K 00+550N	6.7	<.2	.4	63	<5
C6K 00+650N	2.8	<.2	<.2	179	<5
C6K 00+725N	3.4	<.2	<.2	173	<5
C6KR200+ 50N	4.0	<.2	<.2	120	<5
C6KR200+150N	5.3	<.2	<.2	120	<5
C6KR200+250N	2.5	<.2	<.2	179	<5
C6KR400+100N	2.3	<.2	<.2	160	<5
C6KR400+200N	2.0	<.2	.2	117	<5
C6 R400+300N	2.0	<.2	.2	53	<5
BL1K-100+000	1.0	<.2	.2	100	<5
BL1K-100+50N	2.0	<.2	.2	117	<5
BL1K100+150N	4.2	<.2	.2	143	<5
BL1K100+250N	3.1	<.2	1.4	120	<5
BL1K100+350N	1.3	<.2	<.2	170	<5
BL1K100+200S	2.1	<.2	.2	176	<5
BL1K100E+ 00	4.6	<.2	<.2	205	<5
BL1K1CE+150N	6.2	<.2	.4	70	<5
BL1K1CE+250N	3.8	<.2	.4	104	<5
BL1K100E+4CN	.8	<.2	<.2	106	<5
BL1K100E+5CN	14.0	<.2	<.2	78	<5
BL1K100E+6CN	2.8	<.2	<.2	179	<5
BL1K100E+50S	4.0	<.2	.2	179	<5
BL1K100E+2CS	1.3	<.2	<.2	154	<5
BL1K300+ 00	2.0	<.2	<.2	224	<5
BL1K300+50N	3.4	<.2	.2	211	<5
BL1K300+150N	3.2	<.2	<.2	173	<5
BL1K300+250N	4.6	<.2	.4	164	<5
BL1K300+ 50S	2.1	<.2	<.2	211	<5
BL1K300+150S	1.2	<.2	<.2	158	<5
BL1K300E+1CN	1.6	<.2	<.2	114	<5
BL1K300E+2CN	3.6	<.2	.4	137	<5
BL1K500+ 50N	2.7	<.2	<.2	123	<5
BL1K500+100N	2.2	<.2	<.2	140	<5
BL1K500+50S	1.8	<.2	.2	134	<5
BL1K500+150S	3.2	<.2	.4	85	<5
BL1K500+200S	3.0	<.2	<.2	148	<5
CBL2K 00+ 00	3.6	<.2	<.2	128	<5
CBL2K 00+50N	3.0	<.2	<.2	152	<5
CBL2K00+150N	2.6	<.2	<.2	120	<5
CBL2K00+250N	2.8	<.2	<.2	211	<5
CBL2K1CE+00S	8.6	<.2	<.2	88	<5
CBL2K1CE+50S	4.0	<.2	<.2	263	<5
CBL2K1CE+150	4.6	<.2	.4	104	<5
CBL2K1CE+250	4.0	<.2	.4	158	<5
C2K200E+00S	1.9	<.2	.4	158	<5
C2K200E+150S	5.8	.6	<.2	96	<5
C2K200E+250S	2.3	<.2	<.2	211	<5
C2K300E+00S	2.1	<.2	<.2	96	<5
C2K300E+50S	1.2	<.2	<.2	120	<5
C2K300E+150S	3.2	<.2	<.2	228	<5
C2K300E+250S	2.7	<.2	.2	128	<5
C2K300E+350S	2.1	<.2	<.2	120	<5

BARRINGER MAGENTA

304 CARLINGVIEW DRIVE
REXDALE, ONTARIO
M9W 5G2
(416) 675-3870

3750 - 19TH STREET
SUITE 105
CALGARY, ALBERTA
T2E 6V2
(403) 276-9701

FILE: T3-0641
DATE: 01/10/83
MATRIX: ROCKS

NOLIN GEO-ENTERPRISES PROJ:MANITOU BMLC REF 83-5431 WO NO: 83-0641 PAGE:

SAMPLE ID	AU OZ/TON
18376	N.D.
18377	N.D.
18378	N.D.
18379	N.D.
18380	N.D.
18381	.002
18382	N.D.
18383	N.D.
18384	N.D.
18385	N.D.
18386	N.D.
18387	N.D.
18388	N.D.
18389	N.D.
18390	N.D.
18391	N.D.
18392	N.D.
18393	N.D.
18394	N.D.
18395	N.D.
18396	N.D.
18397	N.D.
18398	.004
18399	N.D.
18400	.001
18476	N.D.
18477	N.D.
18478	N.D.
18479	N.D.
18480	N.D.
18481	N.D.
18482	.044
18483	N.D.
18484	N.D.
18485	N.D.
18486	N.D.
18487	N.D.
18488	N.D.
18489	N.D.
18490	N.D.
18491	N.D.
18492	N.D.
18493	N.D.
18494	N.D.
18495	N.D.
18496	N.D.
18497	N.D.
18498	N.D.
18499	N.D.
18500	.051
GIANT VIENS	N.D.
GIANT COU/RY	N.D.

BARRINGER MAGENTA

304 CARLINGVIEW DRIVE
REXDALE, ONTARIO
M9W 5G2
(416) 675-3870

3750 - 19TH STREET
SUITE 105
CALGARY, ALBERTA
T2E 6V2
(403) 276-9701

FILE: T3-0798
DATE: 24/11/83
MATRIX:

NOLIN GEO ENTERPRISES BMLC REF 83-5467 WO NO: 83-0798 PAGE:

SAMPLE ID	AU OZ/TON	AG OZ/TON
1501	<.001	---
1502	<.001	---
1503	<.001	---
1504	<.001	---
1505	<.001	---
1506	<.001	---
1507	<.001	---
1508	<.001	---
1509	.002	---
1510	<.001	---
1511	<.001	---
1512	.022	---
1513	.011	---
1514	.023	---
1515	<.001	---
1516	.001	---
1517	<.001	---
1518	<.001	---
1519	<.001	---
1526	.019	.011
1527	.508	.105
1528	.017	.015
1529	.599	.177
1530	.001	---
1531	<.001	---
1532	<.001	---
1533	.001	---
1534	.007	---
1535	.001	---
1536	<.001	---
1537	<.001	---
1538	.001	---
1539	<.001	---
1540	.002	---
1541	.102	.010
1542	<.001	---
1543	.011	---
1544	.003	---
1545	.010	.006
1546	.155	.035
1547	.002	---
1548	<.001	---
1549	<.001	---
1550	<.001	---

BARRINGER MAGENTA LIMITED

3750 - 19th STREET N.E.
SUITE 105
CALGARY, ALBERTA
CANADA T2E 6V2
PHONE: (403) 276-9701
TELEX: 03-827584

Certificate of Analysis

Nolin Geo Enterprises,
540-707-7 Ave.S.W.
CALGARY, Alberta
T2P 0Z2

Report No.
83-5339

Date
July 5, 1983

I HEREBY CERTIFY that the following analyses were performed by us on the herein described Rock samples.

SAMPLE NUMBER	Au oz/T	Ag oz/T					
Rock Chip	N.D.	N.D.					
Rock Dump	N.D.	N.D.					

Note: Rejects retained one month.
Pulps retained three months unless previous arrangements made in advance.

Barringer Magenta Ltd.
Signed

BARRINGER MAGENTA LIMITED

3750 - 19th STREET N.E.
SUITE 105
CALGARY, ALBERTA
CANADA T2E 6V2
PHONE: (403) 276-9701
TELEX: 03-827584

Certificate of Analysis

Nolin Geo Enterprises,
540-707-7 Ave.S.W.
CALGARY, Alberta'
T2P 0Z2

Report No.
83-5458

Date
October 21, 1983

I HEREBY CERTIFY that the following analyses were performed by us on the herein described Rock samples.

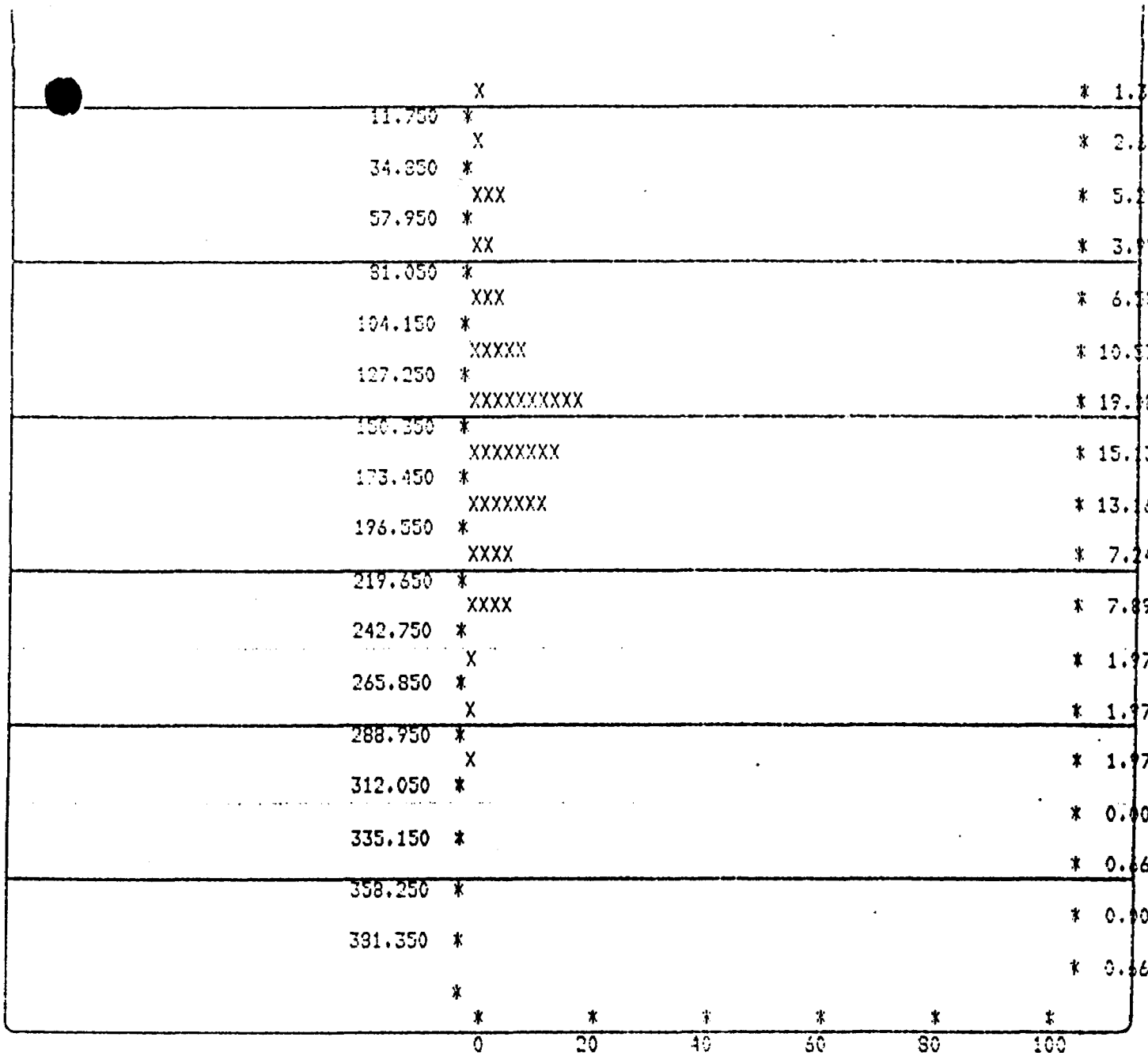
SAMPLE NUMBER	AU oz/Ton						
1401	TR						
1402	ND						
1404	TR						
1408	ND						
1409	TR						
1410	.004						
1411	ND						
1412	ND						
1415	ND						
1419	ND						
1420	.004						

Note: Rejects retained one month.
Pulps retained three months
unless previous arrangements
made in advance.

Barringer Magenta Ltd.
Signed

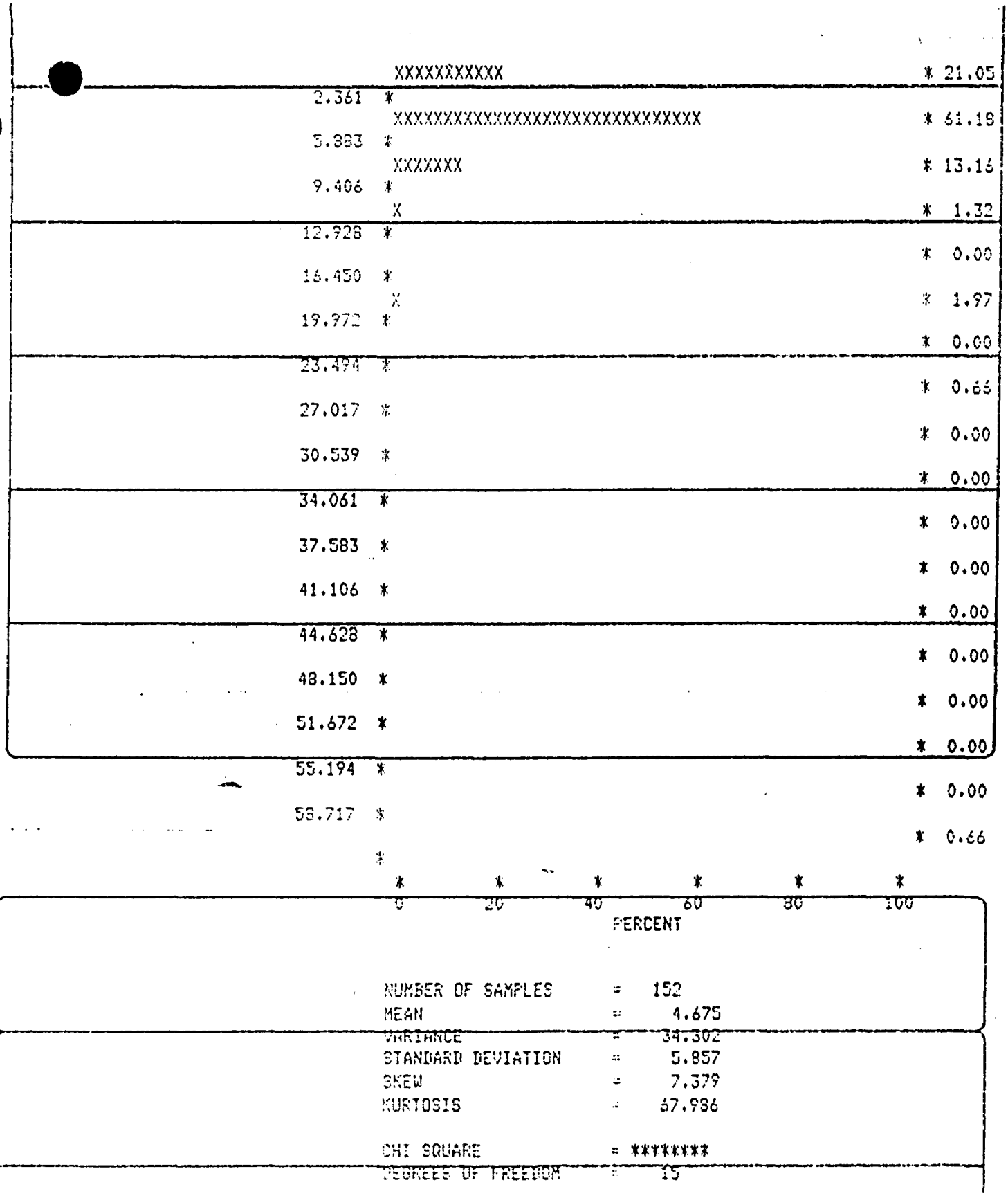
APPENDIX E

STATISTICAL CALCULATIONS



NUMBER OF SAMPLES	=	152
MEAN	=	153.422
VARIANCE	=	4311.987
STANDARD DEVIATION	=	67.912
SKEW	=	0.378
KURTOSIS	=	1.118
CHI SQUARE	=	36.42
DEGREES OF FREEDOM	=	15

MERCURY HISTOGRAM _ GLASS REEF MINE AREA

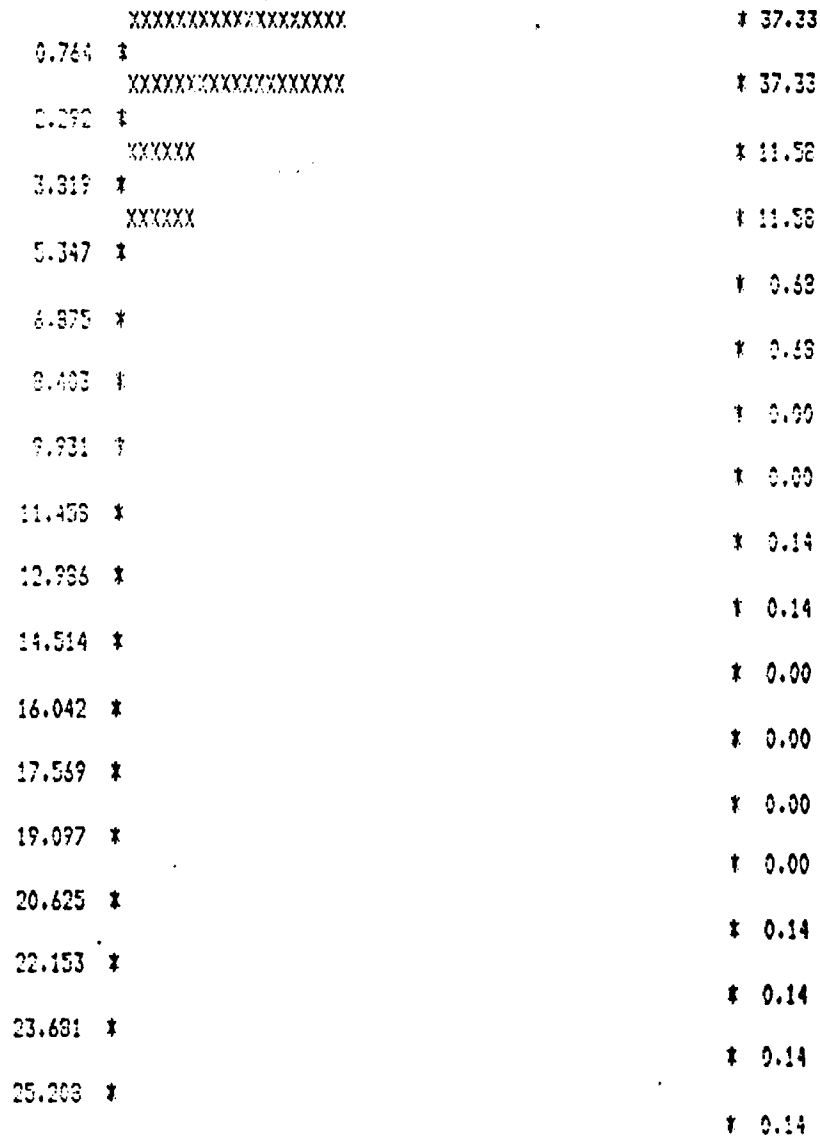


ARSENIC HISTOGRAM - GLASS REEF MINE AREA

```
                                                                  *  0.27
 9.722  *
                                                                  *  0.54
29.167  *
         X                                                        *  1.63
48.611  *
         XXX                                                      *  6.54
68.056  *
         XXXXX                                                    * 10.63
87.500  *
         XXXXXXXX                                                 * 15.80
106.944 *
         XXXXXXX                                                  * 14.99
126.389 *
         XXXXX                                                    * 10.35
145.833 *
         XXXXXX                                                   * 12.53
165.278 *
         XXXXXX                                                   * 11.44
184.722 *
         XX                                                       *  4.63
204.167 *
         XX                                                       *  3.54
223.611 *
         X                                                        *  2.72
243.056 *
                                                                  *  0.82
262.500 *
         X                                                        *  1.09
281.944 *
         X                                                        *  1.09
301.389 *
                                                                  *  0.82
320.833 *
                                                                  *  0.54
        *
         *        *        *        *        *        *
         0       20       40       60       80      100
                              PERCENT
```

NUMBER OF SAMPLES	=	367
MEAN	=	135.425
VARIANCE	=	3208.727
STANDARD DEVIATION	=	56.646
SKEW	=	0.837
KURTOSIS	=	1.161

MERCURY HISTOGRAM - GIANT MINE AREA



NUMBER OF SAMPLES	=	367
MEAN	=	1.969
VARIANCE	=	4.304
STANDARD DEVIATION	=	2.075
SKEW	=	0.053
KURTOSIS	=	85.297

ARSENIC HISTOGRAM - GIANT MINE AREA

APPENDIX F

DATA LISTINGS - GIANT MINE

Line information

Line: 100E
Number of records : 38.
Channel 1 min: 9400.000 max: 10325.00
Channel 2 min: 10000.00 max: 10000.00
Channel 3 min: 9400.000 max: 10325.00
Channel 4 min: 798.0000 max: 2618.000

LINE 100E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	Ag-ppm	Sb-ppm
10325.	10000.	10318.	1137.	-42.	13.	0.0	1.9	95.	0.0	0.0
10300.	10000.	10300.	923.	-28.	18.	0.0	0.7	74.	0.4	0.0
10275.	10000.	10275.	876.	-18.	20.	0.0	0.0	0.	0.0	0.0
10250.	10000.	10250.	862.	-12.	15.	0.0	0.8	105.	0.2	0.0
10225.	10000.	10225.	855.	-6.	21.	0.0	0.0	0.	0.0	0.0
10200.	10000.	10200.	798.	-3.	20.	0.0	1.1	74.	0.0	0.0
10175.	10000.	10175.	891.	6.	20.	0.0	0.0	0.	0.0	0.0
10150.	10000.	10150.	916.	3.	17.	0.0	0.7	126.	0.4	0.0
10125.	10000.	10125.	806.	8.	15.	0.0	0.0	0.	0.0	0.0
10100.	10000.	10100.	832.	11.	15.	0.0	0.7	84.	0.4	0.0
10075.	10000.	10075.	1326.	16.	13.	0.0	0.0	0.	0.0	0.0
10050.	10000.	10050.	1326.	23.	12.	0.0	0.7	53.	0.2	0.0
10025.	10000.	10025.	1107.	29.	12.	0.0	0.0	0.	0.0	0.0
10000.	10000.	10000.	1192.	35.	11.	0.0	1.1	74.	0.2	0.0
9975.	10000.	9975.	1260.	38.	11.	0.0	0.0	0.	0.0	0.0
9950.	10000.	9950.	1211.	46.	14.	0.0	0.8	53.	0.2	0.0
9925.	10000.	9925.	999.	54.	8.	0.0	0.0	0.	0.0	0.0
9900.	10000.	9900.	1091.	39.	4.	0.0	1.9	53.	0.4	0.0
9875.	10000.	9875.	1801.	-4.	4.	0.0	0.0	0.	0.0	0.0
9850.	10000.	9850.	2618.	-25.	8.	0.0	1.3	63.	0.2	0.0
9825.	10000.	9825.	1402.	-24.	7.	0.0	0.0	0.	0.0	0.0
9800.	10000.	9800.	1310.	-38.	-2.	0.0	2.3	158.	0.6	0.0
9775.	10000.	9775.	1211.	-45.	-2.	0.0	0.0	0.	0.0	0.0
9750.	10000.	9750.	1013.	-38.	0.	0.0	1.1	105.	0.0	0.0
9725.	10000.	9725.	926.	-26.	2.	0.0	0.0	0.	0.0	0.0
9700.	10000.	9700.	887.	-20.	4.	0.0	1.3	116.	0.4	0.0
9675.	10000.	9675.	856.	-13.	7.	0.0	0.0	0.	0.0	0.0
9650.	10000.	9650.	912.	-9.	6.	7.5	4.5	126.	0.0	0.0
9625.	10000.	9625.	853.	-1.	11.	0.0	0.0	0.	0.0	0.0
9600.	10000.	9600.	854.	-6.	5.	0.0	0.6	32.	0.0	0.0
9575.	10000.	9575.	954.	0.	7.	0.0	0.0	0.	0.0	0.0
9550.	10000.	9550.	843.	-10.	-11.	0.0	0.7	42.	0.0	0.0
9525.	10000.	9525.	882.	6.	6.	0.0	0.0	0.	0.0	0.0
9500.	10000.	9500.	849.	6.	2.	0.0	1.6	84.	0.0	0.0
9475.	10000.	9475.	813.	12.	5.	0.0	0.0	0.	0.0	0.0
9450.	10000.	9450.	875.	17.	8.	0.0	1.3	63.	0.2	0.0
9425.	10000.	9425.	826.	24.	10.	0.0	0.0	0.	0.0	0.0
9400.	10000.	9400.	811.	28.	12.	0.0	1.1	95.	0.8	0.0

Line information

Line: 102E
Number of records : 40.

Channel 1	min:	9400.000	max:	10375.00
Channel 2	min:	10200.00	max:	10200.00
Channel 3	min:	9400.000	max:	10375.00
Channel 4	min:	754.0000	max:	1364.000

LINE 102E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	As-ppm	Sb-ppm
10375.	10200.	10360.	864.	-54.	25.	0.0	2.5	147.	0.0	0.0
10350.	10200.	10350.	888.	-29.	23.	0.0	0.0	0.	0.0	0.0
10325.	10200.	10325.	851.	-14.	28.	0.0	0.0	0.	0.0	0.0
10300.	10200.	10300.	883.	-12.	21.	0.0	0.6	105.	0.0	0.0
10275.	10200.	10275.	899.	-10.	19.	0.0	0.0	0.	0.0	0.0
10250.	10200.	10250.	901.	-2.	19.	0.0	1.0	74.	0.0	0.0
10225.	10200.	10225.	911.	0.	20.	0.0	0.0	0.	0.0	0.0
10200.	10200.	10200.	902.	2.	17.	0.0	1.1	42.	0.2	0.0
10175.	10200.	10175.	874.	1.	12.	0.0	0.0	0.	0.0	0.0
10150.	10200.	10150.	856.	7.	15.	140.0	2.3	137.	0.4	0.0
10125.	10200.	10125.	754.	12.	14.	0.0	0.0	0.	0.0	0.0
10100.	10200.	10100.	1112.	14.	10.	0.0	3.5	116.	0.2	0.0
10075.	10200.	10075.	1043.	15.	10.	0.0	0.0	0.	0.2	0.0
10050.	10200.	10050.	855.	24.	10.	0.0	1.3	75.	0.0	0.0
10025.	10200.	10025.	1151.	32.	9.	0.0	0.0	0.	0.0	0.0
10000.	10200.	10000.	1037.	32.	8.	0.0	2.1	84.	0.6	0.0
9975.	10200.	9975.	1063.	58.	8.	0.0	0.0	0.	0.0	0.0
9950.	10200.	9950.	822.	72.	8.	7.5	0.8	95.	0.2	0.0
9925.	10200.	9925.	1364.	14.	6.	0.0	0.0	0.	0.0	0.0
9900.	10200.	9900.	913.	-28.	4.	0.0	2.5	95.	0.6	0.0
9875.	10200.	9875.	810.	-64.	2.	0.0	0.0	0.	0.0	0.0
9850.	10200.	9850.	850.	-62.	2.	0.0	1.9	125.	0.4	0.0
9825.	10200.	9825.	1015.	-50.	5.	0.0	0.0	0.	0.0	0.0
9800.	10200.	9800.	928.	-36.	6.	0.0	2.9	168.	0.4	0.0
9775.	10200.	9775.	910.	-24.	8.	0.0	0.0	0.	0.0	0.0
9750.	10200.	9750.	951.	-18.	8.	7.5	1.7	137.	0.0	0.0
9725.	10200.	9725.	914.	-16.	6.	0.0	0.0	0.	0.0	0.0
9700.	10200.	9700.	911.	-12.	7.	0.0	2.6	95.	0.2	0.0
9675.	10200.	9675.	909.	-1.	8.	0.0	0.0	0.	0.0	0.0
9650.	10200.	9650.	1031.	3.	9.	0.0	1.6	42.	0.2	0.0
9625.	10200.	9625.	888.	7.	8.	0.0	0.0	0.	0.0	0.0
9600.	10200.	9600.	890.	5.	5.	7.5	1.4	95.	0.0	0.0
9575.	10200.	9575.	857.	0.	2.	0.0	0.0	0.	0.0	0.0
9550.	10200.	9550.	846.	6.	3.	0.0	1.0	105.	0.6	0.0
9525.	10200.	9525.	817.	12.	3.	0.0	0.0	0.	0.0	0.0
9500.	10200.	9500.	950.	19.	3.	7.5	0.7	116.	0.0	0.0
9475.	10200.	9475.	826.	13.	0.	0.0	0.0	0.	0.0	0.0
9450.	10200.	9450.	849.	22.	5.	0.0	1.3	74.	0.0	0.0
9425.	10200.	9425.	827.	32.	3.	0.0	0.0	0.	0.0	0.0
9400.	10200.	9400.	829.	6.	-8.	0.0	1.0	63.	0.0	0.0

Line information

Line: 104E
Number of records : 43.
Channel 1 min: 9400.000 max: 10450.00
Channel 2 min: 10400.00 max: 10400.00
Channel 3 min: 9400.000 max: 10450.00
Channel 4 min: -0.1000000E-29 max: 1892.000

LINE 104E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	As-ppm	Sb-ppm
10450.	10400.	10450.	812.	-84.	13.	0.0	0.0	0.	0.0	0.0
10425.	10400.	10425.	892.	-90.	13.	0.0	0.5	130.	0.0	0.0
10400.	10400.	10400.	935.	-76.	18.	7.5	0.5	104.	0.0	0.0
10375.	10400.	10375.	896.	-51.	23.	0.0	0.0	0.	0.0	0.0
10350.	10400.	10350.	891.	-53.	21.	0.0	1.1	95.	0.0	0.0
10325.	10400.	10325.	838.	-40.	22.	0.0	0.0	0.	0.0	0.0
10300.	10400.	10300.	872.	-33.	36.	7.5	0.7	95.	0.0	0.0
10275.	10400.	10275.	835.	-22.	28.	0.0	0.0	0.	0.0	0.0
10250.	10400.	10250.	873.	2.	38.	0.0	1.4	74.	0.0	0.0
10225.	10400.	10225.	890.	-34.	12.	0.0	0.0	0.	0.0	0.0
10200.	10400.	10200.	893.	-28.	20.	0.0	0.7	84.	0.0	0.0
10175.	10400.	10175.	887.	-18.	16.	0.0	0.0	0.	0.0	0.0
10150.	10400.	10150.	846.	-11.	19.	0.0	1.9	95.	0.2	0.0
10125.	10400.	10125.	797.	-22.	4.	0.0	0.0	0.	0.0	0.0
10100.	10400.	10100.	896.	-6.	10.	0.0	2.5	95.	0.0	0.0
10075.	10400.	10075.	1176.	-2.	12.	0.0	0.0	0.	0.0	0.0
10050.	10400.	10050.	1238.	7.	10.	0.0	1.1	95.	0.0	0.0
10025.	10400.	10025.	1687.	17.	6.	0.0	0.0	0.	0.0	0.0
10000.	10400.	10000.	1892.	19.	10.	7.5	2.1	145.	0.4	0.0
9975.	10400.	9975.	1292.	11.	10.	0.0	0.0	0.	0.0	0.0
9950.	10400.	9950.	1043.	-2.	11.	7.5	0.7	74.	0.2	0.0
9925.	10400.	9925.	894.	-38.	6.	0.0	0.0	0.	0.0	0.0
9900.	10400.	9900.	961.	-38.	7.	0.0	1.0	125.	0.0	0.0
9875.	10400.	9875.	925.	-32.	8.	0.0	0.0	0.	0.0	0.0
9850.	10400.	9850.	920.	-30.	8.	0.0	1.7	145.	0.4	0.0
9825.	10400.	9825.	901.	-10.	8.	0.0	0.0	0.	0.0	0.0
9800.	10400.	9800.	896.	2.	8.	0.0	0.8	125.	0.0	0.0
9775.	10400.	9775.	901.	7.	7.	0.0	0.0	0.	0.0	0.0
9750.	10400.	9750.	880.	7.	4.	0.0	3.1	170.	0.0	0.0
9725.	10400.	9725.	871.	10.	7.	0.0	0.0	0.	0.0	0.0
9700.	10400.	9700.	1008.	17.	6.	0.0	2.9	180.	0.2	0.0
9675.	10400.	9675.	830.	24.	8.	0.0	0.0	0.	0.0	0.0
9650.	10400.	9650.	847.	28.	7.	0.0	2.5	190.	0.2	0.0
9625.	10400.	9625.	836.	37.	7.	0.0	0.0	0.	0.0	0.0
9600.	10400.	9600.	855.	54.	10.	0.0	1.7	220.	0.2	0.0
9575.	10400.	9575.	911.	70.	7.	7.5	4.7	84.	0.2	0.0
9550.	10400.	9550.	883.	24.	-2.	0.0	0.0	0.	0.0	0.0
9525.	10400.	9525.	878.	-16.	-14.	0.0	0.0	0.	0.0	0.0
9500.	10400.	9500.	915.	-47.	-9.	0.0	0.0	0.	0.0	0.0
9475.	10400.	9475.	13.	-52.	-20.	0.0	0.0	0.	0.0	0.0
9450.	10400.	9450.	1633.	-58.	-26.	0.0	1.3	126.	0.0	0.0
9425.	10400.	9425.	42.	-42.	-25.	7.5	2.7	137.	0.0	0.0
9400.	10400.	9400.	549.	-27.	-25.	0.0	0.0	0.	0.0	0.0

Line information

Line: 105E
Number of records : 30.
Channel 1 min: 9475.000 max: 10200.00
Channel 2 min: 10500.00 max: 10500.00
Channel 3 min: 9475.000 max: 10200.00
Channel 4 min: -0.1000000E-29 max: 9575.000

LINE 105E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	As-ppm	Sb-ppm
10200.	10500.	10200.	939.	4.	4.	0.0	0.0	0.	0.0	0.0
10175.	10500.	10175.	946.	4.	5.	0.0	0.0	0.	0.0	0.0
10150.	10500.	10150.	950.	6.	4.	7.5	0.9	160.	0.0	0.0
10125.	10500.	10125.	947.	6.	4.	0.0	0.0	0.	0.0	0.0
10100.	10500.	10100.	939.	1.	4.	0.0	1.4	74.	0.0	0.0
10075.	10500.	10075.	900.	8.	4.	0.0	0.0	0.	0.0	0.0
10050.	10500.	10050.	888.	-2.	7.	0.0	1.2	95.	0.0	0.0
10025.	10500.	10025.	837.	-13.	9.	0.0	0.0	0.	0.0	0.0
10000.	10500.	10000.	805.	-7.	14.	0.0	2.3	137.	0.4	0.0
9975.	10500.	9975.	802.	-25.	14.	0.0	0.0	0.	0.0	0.0
9950.	10500.	9950.	691.	-34.	8.	0.0	0.5	105.	0.2	0.0
9925.	10500.	9925.	1232.	-31.	8.	0.0	0.0	0.	0.0	0.0
9900.	10500.	9900.	958.	-26.	8.	0.0	0.7	157.	0.0	0.0
9875.	10500.	9875.	922.	-18.	10.	0.0	0.0	0.	0.0	0.0
9850.	10500.	9850.	943.	-12.	9.	7.5	1.1	137.	0.0	0.0
9825.	10500.	9825.	954.	-9.	10.	0.0	0.0	0.	0.0	0.0
9800.	10500.	9800.	908.	-1.	9.	0.0	1.8	170.	0.0	0.0
9775.	10500.	9775.	907.	2.	10.	0.0	0.0	0.	0.0	0.0
9750.	10500.	9750.	928.	8.	10.	0.0	1.1	105.	0.0	0.0
9725.	10500.	9725.	857.	16.	12.	0.0	0.0	0.	0.0	0.0
9700.	10500.	9700.	950.	23.	10.	0.0	2.3	210.	0.2	0.0
9675.	10500.	9675.	844.	22.	4.	0.0	0.0	0.	0.0	0.0
9650.	10500.	9650.	834.	34.	8.	25.0	3.0	200.	0.0	0.0
9625.	10500.	9625.	838.	50.	12.	0.0	0.0	0.	0.0	0.0
9600.	10500.	9600.	819.	65.	16.	0.0	1.9	210.	0.0	0.0
9575.	10500.	9575.	937.	100.	18.	0.0	0.0	0.	0.0	0.0
9550.	10500.	9550.	822.	88.	-4.	0.0	0.4	53.	0.0	0.0
9525.	10500.	9525.	800.	44.	-10.	0.0	0.0	0.	0.0	0.0
9500.	10500.	9500.	814.	8.	-4.	0.0	0.7	74.	0.2	0.0
9475.	10500.	9475.	811.	-6.	2.	0.0	0.0	0.	0.0	0.0

#Line information#

Line: 106E
Number of records : 25.
Channel 1 min: 9575.000 max: 10175.00
Channel 2 min: 10600.00 max: 10600.00
Channel 3 min: 9575.000 max: 10175.00
Channel 4 min: 739.0000 max: 1303.000

LINE 106E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	Ag-ppm	Sb-ppm
10175.	10600.	10175.	885.	-22.	13.	0.0	0.0	0.	0.0	0.0
10150.	10600.	10150.	883.	-7.	15.	0.0	2.8	95.	0.0	0.0
10125.	10600.	10125.	883.	1.	18.	0.0	0.0	0.	0.0	0.0
10100.	10600.	10100.	924.	11.	20.	7.5	1.2	180.	0.0	0.0
10075.	10600.	10075.	949.	17.	18.	0.0	0.0	0.	0.0	0.0
10050.	10600.	10050.	917.	22.	14.	0.0	1.1	126.	0.0	0.0
10025.	10600.	10025.	930.	-20.	10.	0.0	0.0	0.	0.0	0.0
10000.	10600.	10000.	949.	-34.	10.	7.5	1.8	147.	0.0	0.0
9975.	10600.	9975.	1218.	-28.	5.	0.0	0.0	0.	0.0	0.0
9950.	10600.	9950.	1276.	-27.	5.	0.0	4.2	305.	0.0	0.0
9925.	10600.	9925.	1098.	-26.	9.	0.0	0.0	0.	0.0	0.0
9900.	10600.	9900.	1269.	-18.	10.	0.0	2.3	230.	0.4	0.0
9875.	10600.	9875.	997.	-8.	10.	0.0	0.0	0.	0.0	0.0
9850.	10600.	9850.	936.	-3.	8.	7.5	1.9	190.	0.0	0.0
9825.	10600.	9825.	918.	3.	8.	0.0	0.0	0.	0.0	0.0
9800.	10600.	9800.	1303.	8.	8.	7.5	2.1	180.	0.0	0.0
9775.	10600.	9775.	964.	13.	8.	0.0	0.0	0.	0.0	0.0
9750.	10600.	9750.	900.	20.	8.	0.0	1.8	170.	0.0	0.0
9725.	10600.	9725.	895.	24.	7.	0.0	0.0	0.	0.0	0.0
9700.	10600.	9700.	887.	28.	5.	0.0	1.2	190.	0.0	0.0
9675.	10600.	9675.	904.	41.	9.	0.0	0.0	0.	0.0	0.0
9650.	10600.	9650.	846.	56.	8.	0.0	1.6	230.	0.2	0.0
9625.	10600.	9625.	812.	80.	8.	0.0	0.0	0.	0.0	0.0
9600.	10600.	9600.	739.	92.	10.	0.0	0.9	115.	0.0	0.0
9575.	10600.	9575.	759.	102.	5.	0.0	0.0	0.	0.0	0.0

Line information

Line: 107E
Number of records : 27.
Channel 1 min: 9625.000 max: 10275.00
Channel 2 min: 10700.00 max: 10700.00
Channel 3 min: 9625.000 max: 10275.00
Channel 4 min: 324.0000 max: 1345.000

LINE 107E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	Ag-ppm	Sb-ppm
10275.	10700.	10275.	833.	-17.	10.	0.0	0.0	0.	0.0	0.0
10250.	10700.	10250.	842.	-8.	12.	7.5	2.8	126.	0.0	0.0
10225.	10700.	10225.	854.	-9.	13.	0.0	0.0	0.	0.0	0.0
10200.	10700.	10200.	843.	-11.	12.	0.0	2.3	105.	0.0	0.0
10175.	10700.	10175.	825.	4.	18.	0.0	0.0	0.	0.0	0.0
10150.	10700.	10150.	802.	14.	20.	25.0	1.8	64.	0.0	0.0
10125.	10700.	10125.	777.	18.	14.	0.0	0.0	0.	0.0	0.0
10100.	10700.	10100.	998.	4.	12.	7.5	1.6	95.	0.0	0.0
10075.	10700.	10075.	1135.	-3.	10.	0.0	0.0	0.	0.0	0.0
10050.	10700.	10050.	1001.	-26.	10.	0.0	2.8	126.	0.0	0.0
10025.	10700.	10025.	919.	-27.	8.	0.0	0.0	0.	0.0	0.0
10000.	10700.	10000.	1221.	-26.	6.	0.0	2.5	210.	0.0	0.0
9975.	10700.	9975.	1345.	-20.	10.	0.0	0.0	0.	0.0	0.0
9950.	10700.	9950.	1106.	-22.	7.	0.0	1.8	180.	0.0	0.0
9925.	10700.	9925.	1025.	-12.	10.	0.0	0.0	0.	0.0	0.0
9900.	10700.	9900.	1075.	-6.	10.	0.0	1.6	147.	0.0	0.0
9875.	10700.	9875.	925.	-9.	3.	0.0	0.0	0.	0.0	0.0
9850.	10700.	9850.	927.	2.	10.	0.0	1.6	147.	0.0	0.0
9825.	10700.	9825.	918.	4.	7.	0.0	0.0	0.	0.0	0.0
9800.	10700.	9800.	896.	10.	6.	0.0	2.7	240.	0.0	0.0
9775.	10700.	9775.	884.	17.	7.	0.0	0.0	0.	0.0	0.0
9750.	10700.	9750.	883.	24.	8.	0.0	1.6	170.	0.0	0.0
9725.	10700.	9725.	881.	32.	7.	0.0	0.0	0.	0.0	0.0
9700.	10700.	9700.	830.	43.	8.	0.0	1.8	200.	0.0	0.0
9675.	10700.	9675.	636.	58.	8.	0.0	2.3	220.	0.0	0.0
9650.	10700.	9650.	623.	80.	14.	0.0	1.8	147.	0.0	0.4
9625.	10700.	9625.	324.	94.	6.	0.0	0.0	0.	0.0	0.0

#Line information#

Line: 108E
Number of records : 33.
Channel 1 min: 9525.000 max: 10325.00
Channel 2 min: 10800.00 max: 10800.00
Channel 3 min: 9525.000 max: 10325.00
Channel 4 min: -794.0000 max: 7819.000

LINE 108E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	Ag-ppm	Sb-ppm
10325.	10800.	10325.	781.	2.	14.	0.0	0.0	0.	0.0	0.0
10300.	10800.	10300.	765.	3.	14.	0.0	1.4	116.	0.2	0.0
10275.	10800.	10275.	767.	11.	18.	0.0	0.0	0.	0.0	0.0
10250.	10800.	10250.	807.	19.	18.	7.5	1.1	84.	0.0	0.0
10225.	10800.	10225.	788.	19.	15.	0.0	0.0	0.	0.0	0.0
10200.	10800.	10200.	789.	18.	13.	0.0	1.4	64.	0.0	0.0
10175.	10800.	10175.	742.	6.	10.	0.0	0.0	0.	0.0	0.0
10150.	10800.	10150.	524.	-7.	10.	0.0	1.9	105.	0.2	0.0
10125.	10800.	10125.	-794.	-16.	10.	0.0	0.0	0.	0.0	0.0
10100.	10800.	10100.	7819.	-5.	14.	0.0	3.6	115.	0.2	0.0
10075.	10800.	10075.	1545.	-16.	13.	0.0	0.0	0.	0.0	0.0
10050.	10800.	10050.	1093.	-30.	8.	10.0	3.0	115.	0.0	0.0
10025.	10800.	10025.	1212.	-31.	7.	0.0	0.0	0.	0.0	0.0
10000.	10800.	10000.	1080.	-25.	10.	7.5	0.9	137.	0.0	0.0
9975.	10800.	9975.	979.	-18.	10.	0.0	0.0	0.	0.0	0.0
9950.	10800.	9950.	932.	-10.	10.	0.0	2.5	147.	0.0	0.0
9925.	10800.	9925.	935.	-8.	7.	0.0	0.0	0.	0.0	0.0
9900.	10800.	9900.	1039.	-5.	8.	5.0	2.5	147.	0.0	0.0
9875.	10800.	9875.	1023.	-1.	6.	0.0	0.0	0.	0.0	0.0
9850.	10800.	9850.	875.	6.	2.	0.0	2.1	220.	0.0	0.0
9825.	10800.	9825.	864.	12.	4.	0.0	0.0	0.	0.0	0.0
9800.	10800.	9800.	844.	15.	0.	7.5	2.1	160.	0.0	0.0
9775.	10800.	9775.	845.	17.	3.	0.0	0.0	0.	0.0	0.0
9750.	10800.	9750.	838.	29.	2.	7.5	2.3	160.	0.0	0.0
9725.	10800.	9725.	802.	37.	2.	0.0	0.0	0.	0.0	0.0
9700.	10800.	9700.	832.	47.	1.	0.0	1.8	137.	0.0	0.0
9675.	10800.	9675.	788.	72.	2.	0.0	0.0	0.	0.0	0.0
9650.	10800.	9650.	469.	100.	-2.	0.0	2.8	190.	0.0	0.0
9625.	10800.	9625.	493.	86.	-3.	0.0	0.0	0.	0.0	0.0
9600.	10800.	9600.	747.	53.	-7.	0.0	1.2	116.	0.0	0.0
9575.	10800.	9575.	787.	-8.	2.	0.0	1.2	105.	0.0	0.0
9550.	10800.	9550.	712.	-82.	3.	0.0	0.9	137.	0.0	0.0
9525.	10800.	9525.	443.	-117.	3.	0.0	0.0	0.	0.0	0.0

Line information

Line: 109E
Number of records : 46.
Channel 1 min: 9400.000 max: 10525.00
Channel 2 min: 10900.00 max: 10900.00
Channel 3 min: 9400.000 max: 10525.00
Channel 4 min: 377.0000 max: 2339.000

LINE 109E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	As-ppm	Sb-ppm
10525.	10900.	10525.	851.	-33.	16.	7.5	1.4	126.	0.0	0.0
10500.	10900.	10500.	839.	-24.	22.	5.0	2.1	158.	0.0	0.0
10475.	10900.	10475.	806.	-19.	22.	0.0	0.0	0.	0.0	0.0
10450.	10900.	10450.	774.	-10.	25.	0.0	1.8	170.	0.0	0.0
10425.	10900.	10425.	775.	2.	30.	0.0	0.0	0.	0.0	0.0
10400.	10900.	10400.	804.	15.	24.	0.0	2.1	116.	0.0	0.0
10375.	10900.	10375.	745.	24.	20.	0.0	0.0	0.	0.0	0.0
10350.	10900.	10350.	749.	15.	15.	0.0	1.8	105.	0.0	0.0
10325.	10900.	10325.	724.	17.	18.	0.0	0.0	0.	0.0	0.0
10300.	10900.	10300.	707.	5.	12.	0.0	1.6	147.	0.2	0.0
10275.	10900.	10275.	696.	11.	16.	0.0	0.0	0.	0.0	0.0
10250.	10900.	10250.	723.	18.	20.	0.0	1.6	63.	0.0	0.0
10225.	10900.	10225.	733.	19.	16.	0.0	0.0	0.	0.0	0.0
10200.	10900.	10200.	761.	14.	14.	0.0	7.0	95.	0.4	0.0
10175.	10900.	10175.	831.	35.	13.	0.0	0.0	0.	0.0	0.0
10150.	10900.	10150.	1169.	-9.	10.	0.0	3.0	105.	0.0	0.0
10125.	10900.	10125.	2339.	-24.	13.	0.0	0.0	0.	0.0	0.0
10100.	10900.	10100.	1278.	-16.	14.	25.0	2.7	95.	0.0	0.0
10075.	10900.	10075.	1117.	-32.	8.	0.0	0.0	0.	0.0	0.0
10050.	10900.	10050.	1017.	-31.	8.	30.0	1.8	115.	0.2	0.0
10025.	10900.	10025.	1021.	-26.	6.	0.0	0.0	0.	0.0	0.0
10000.	10900.	10000.	980.	-21.	7.	0.0	2.8	180.	0.0	0.0
9975.	10900.	9975.	936.	-16.	7.	0.0	0.0	0.	0.0	0.0
9950.	10900.	9950.	959.	-14.	5.	5.0	2.8	168.	0.4	0.0
9925.	10900.	9925.	893.	-8.	4.	0.0	0.0	0.	0.0	0.0
9900.	10900.	9900.	870.	-2.	4.	7.5	1.9	157.	0.2	0.0
9875.	10900.	9875.	859.	-2.	2.	7.5	0.9	105.	0.0	0.0
9850.	10900.	9850.	839.	7.	2.	0.0	2.4	200.	0.0	0.0
9825.	10900.	9825.	844.	10.	2.	0.0	0.0	0.	0.0	0.0
9800.	10900.	9800.	836.	28.	8.	0.0	1.7	95.	0.0	0.0
9775.	10900.	9775.	818.	84.	10.	0.0	0.0	0.	0.0	0.0
9750.	10900.	9750.	810.	42.	-4.	0.0	1.1	84.	0.0	0.0
9725.	10900.	9725.	805.	58.	-2.	0.0	0.0	0.	0.0	0.0
9700.	10900.	9700.	779.	68.	-2.	0.0	1.6	53.	0.0	0.0
9675.	10900.	9675.	377.	76.	0.	0.0	0.0	0.	0.0	0.0
9650.	10900.	9650.	822.	118.	-6.	7.5	1.4	126.	0.0	0.0
9625.	10900.	9625.	766.	48.	-10.	0.0	0.0	0.	0.0	0.0
9600.	10900.	9600.	808.	6.	-4.	7.5	1.2	84.	0.0	0.0
9575.	10900.	9575.	790.	-28.	8.	0.0	0.0	0.	0.0	0.0
9550.	10900.	9550.	788.	-54.	11.	0.0	0.0	0.	0.0	0.0
9525.	10900.	9525.	648.	-128.	-5.	7.5	1.1	95.	0.0	0.0
9500.	10900.	9500.	796.	-102.	-6.	0.0	2.7	160.	0.0	0.0
9475.	10900.	9475.	1022.	-80.	-6.	0.0	0.0	0.	0.0	0.0
9450.	10900.	9450.	822.	-62.	-4.	0.0	6.7	160.	0.0	0.0
9425.	10900.	9425.	429.	-54.	0.	0.0	0.0	0.	0.0	0.0
9400.	10900.	9400.	751.	-48.	0.	0.0	1.9	200.	0.2	0.0

Line information

Line: 110E
Number of records : 51.
Channel 1 min: 9400.000 max: 10650.00
Channel 2 min: 11000.00 max: 11015.00
Channel 3 min: 9400.000 max: 10650.00
Channel 4 min: 170.0000 max: 2046.000

LINE 110E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	As-ppm	Sb-ppm
10650.	11015.	10635.	810.	-34.	36.	5.0	1.9	95.	0.0	0.0
10625.	11015.	10625.	819.	-27.	14.	0.0	0.0	0.	0.0	0.0
10600.	11015.	10600.	795.	-26.	19.	0.0	2.8	105.	0.0	0.0
10575.	11015.	10575.	864.	-15.	28.	0.0	0.0	0.	0.0	0.0
10550.	11015.	10550.	845.	-2.	40.	5.0	1.1	147.	0.0	0.0
10525.	11015.	10525.	453.	-9.	14.	0.0	0.0	0.	0.0	0.0
10500.	11015.	10500.	809.	-8.	17.	0.0	1.9	230.	0.2	0.0
10475.	11015.	10475.	778.	-8.	13.	0.0	0.0	0.	0.0	0.0
10450.	11015.	10450.	837.	0.	13.	0.0	2.3	74.	0.2	0.0
10425.	11015.	10425.	802.	0.	13.	0.0	0.0	0.	0.0	0.0
10400.	11015.	10400.	695.	0.	12.	5.0	2.1	63.	0.0	0.0
10375.	11015.	10375.	640.	6.	10.	0.0	0.0	0.	0.0	0.0
10350.	11015.	10350.	643.	-21.	4.	0.0	1.4	63.	0.0	0.0
10325.	11015.	10325.	573.	-8.	12.	0.0	0.0	0.	0.0	0.0
10300.	11015.	10300.	565.	-4.	13.	7.5	1.6	95.	0.0	0.0
10275.	11015.	10275.	570.	-2.	13.	0.0	0.0	0.	0.0	0.0
10250.	11015.	10250.	478.	2.	16.	0.0	0.9	105.	0.2	0.0
10225.	11015.	10225.	290.	-2.	16.	0.0	0.0	0.	0.0	0.0
10200.	11015.	10200.	774.	-13.	16.	7.5	0.9	105.	0.4	0.0
10175.	11015.	10175.	170.	-14.	18.	0.0	0.0	0.	0.0	0.0
10150.	11000.	10150.	2046.	-7.	14.	0.0	3.4	137.	0.4	0.0
10125.	11000.	10125.	1865.	-19.	15.	0.0	0.0	0.	0.0	0.0
10100.	11000.	10100.	1216.	-17.	14.	0.0	1.6	137.	0.0	0.0
10075.	11000.	10075.	1135.	-4.	16.	0.0	0.0	0.	0.0	0.0
10050.	11000.	10050.	1072.	-30.	4.	0.0	1.4	116.	0.2	0.0
10025.	11000.	10025.	994.	-20.	5.	0.0	0.0	0.	0.0	0.0
10000.	11000.	10000.	912.	-3.	6.	0.0	1.4	125.	0.0	0.0
9975.	11000.	9975.	907.	-11.	4.	0.0	0.0	0.	0.0	0.0
9950.	11000.	9950.	889.	-72.	-7.	5.0	1.8	105.	0.0	0.0
9925.	11000.	9925.	880.	-74.	-4.	0.0	0.0	0.	0.0	0.0
9900.	11000.	9900.	851.	-75.	-10.	0.0	2.3	126.	0.2	0.0
9875.	11000.	9875.	852.	-74.	-5.	0.0	0.0	0.	0.0	0.0
9850.	11000.	9850.	830.	-112.	8.	0.0	1.6	158.	0.0	0.0
9825.	11000.	9825.	759.	-14.	-6.	0.0	0.0	0.	0.0	0.0
9800.	11000.	9800.	787.	4.	6.	0.0	1.6	220.	0.0	0.0
9775.	11000.	9775.	756.	24.	0.	0.0	0.0	0.	0.0	0.0
9750.	11000.	9750.	761.	36.	2.	0.0	1.6	180.	0.0	0.0
9725.	11000.	9725.	796.	32.	-16.	0.0	0.0	0.	0.0	0.0
9700.	11000.	9700.	793.	32.	-22.	7.5	1.4	158.	0.0	0.0
9675.	11000.	9675.	782.	14.	-14.	0.0	0.0	0.	0.0	0.0
9650.	11000.	9650.	759.	12.	-10.	5.0	1.8	147.	0.0	0.0
9625.	11000.	9625.	775.	-1.	0.	0.0	0.0	0.	0.0	0.0
9600.	11000.	9600.	784.	-16.	10.	7.5	1.1	63.	0.0	0.0
9575.	11000.	9575.	766.	-28.	6.	0.0	0.0	0.	0.0	0.0
9550.	11000.	9550.	792.	-62.	12.	7.5	1.0	21.	0.0	0.0
9525.	11000.	9525.	803.	-140.	10.	0.0	0.0	0.	0.0	0.0
9500.	11000.	9500.	708.	-150.	10.	7.5	2.4	32.	0.0	0.0
9475.	11000.	9475.	718.	-108.	-9.	0.0	0.0	0.	0.0	0.0

LINE 110E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	Ag-ppm	Sb-ppm
9450.	11000.	9450.	752.	-82.	-8.	0.0	1.6	180.	0.0	0.0
9425.	11000.	9425.	701.	-68.	-5.	0.0	0.0	0.	0.0	0.0
9400.	11000.	9400.	725.	-63.	-5.	0.0	3.6	285.	0.0	0.0

Line information

Line: 111E
Number of records : 51.
Channel 1 min: 9400.000 max: 10650.00
Channel 2 min: 11100.00 max: 11100.00
Channel 3 min: 9400.000 max: 10650.00
Channel 4 min: 323.0000 max: 3404.000

LINE 111E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	Ag-ppm	Sb-ppm
10650.	11100.	10635.	843.	-16.	2.	0.0	2.5	180.	0.0	0.0
10625.	11100.	10625.	835.	-28.	9.	0.0	0.0	0.	0.0	0.0
10600.	11100.	10600.	926.	-67.	12.	0.0	3.2	221.	0.0	0.0
10575.	11100.	10575.	939.	-38.	24.	0.0	0.0	0.	0.0	0.0
10550.	11100.	10550.	858.	-6.	28.	0.0	1.1	150.	0.0	0.0
10525.	11100.	10525.	751.	-10.	27.	0.0	0.0	0.	0.0	0.0
10500.	11100.	10500.	791.	-10.	17.	0.0	3.2	105.	0.4	0.0
10475.	11100.	10475.	778.	-18.	22.	0.0	0.0	0.	0.0	0.0
10450.	11100.	10450.	798.	-3.	18.	7.5	1.4	53.	0.0	0.0
10425.	11100.	10425.	732.	1.	16.	0.0	0.0	0.	0.0	0.0
10400.	11100.	10400.	711.	6.	12.	0.0	7.0	74.	0.0	0.0
10375.	11100.	10375.	630.	22.	16.	0.0	0.0	0.	0.0	0.0
10350.	11100.	10350.	633.	-27.	6.	0.0	2.8	158.	0.4	0.0
10325.	11100.	10325.	622.	-19.	10.	0.0	0.0	0.	0.0	0.0
10300.	11100.	10300.	564.	-13.	10.	0.0	1.1	137.	0.0	0.0
10275.	11100.	10275.	540.	-9.	14.	0.0	0.0	0.	0.0	0.0
10250.	11100.	10250.	453.	-10.	18.	0.0	4.9	126.	0.4	0.0
10225.	11100.	10225.	323.	-9.	27.	0.0	0.0	0.	0.0	0.0
10200.	11100.	10200.	2793.	-8.	23.	0.0	2.8	137.	0.0	0.0
10175.	11100.	10175.	3404.	-16.	20.	0.0	0.0	0.	0.0	0.0
10150.	11100.	10150.	1980.	-16.	20.	0.0	2.1	137.	0.4	0.0
10125.	11100.	10125.	1713.	-14.	20.	0.0	0.0	0.	0.0	0.0
10100.	11100.	10100.	1465.	-2.	20.	0.0	1.2	137.	0.2	0.0
10075.	11100.	10075.	1480.	3.	16.	0.0	0.0	0.	0.0	0.0
10050.	11100.	10050.	1043.	15.	12.	0.0	1.2	74.	0.0	0.0
10025.	11100.	10025.	939.	16.	11.	0.0	0.0	0.	0.0	0.0
10000.	11100.	10000.	874.	22.	12.	7.5	0.9	53.	0.0	0.0
9975.	11100.	9975.	863.	29.	14.	0.0	0.0	0.	0.0	0.0
9950.	11100.	9950.	824.	44.	20.	5.0	2.8	147.	0.0	0.0
9925.	11100.	9925.	835.	34.	5.	0.0	0.0	0.	0.0	0.0
9900.	11100.	9900.	801.	42.	13.	0.0	1.2	105.	0.0	0.0
9875.	11100.	9875.	844.	80.	15.	0.0	0.0	0.	0.0	0.0
9850.	11100.	9850.	801.	49.	14.	0.0	4.7	170.	0.0	0.0
9825.	11100.	9825.	733.	78.	16.	0.0	0.0	0.	0.0	0.0
9800.	11100.	9800.	723.	150.	150.	0.0	1.1	147.	0.0	0.0
9775.	11100.	9775.	766.	150.	150.	0.0	0.0	0.	0.0	0.0
9750.	11100.	9750.	779.	150.	150.	0.0	1.6	170.	0.0	0.0
9725.	11100.	9725.	811.	150.	150.	0.0	0.0	0.	0.0	0.0
9700.	11100.	9700.	754.	94.	10.	7.5	0.9	137.	0.0	0.0
9675.	11100.	9675.	756.	67.	-16.	0.0	0.0	0.	0.0	0.0
9650.	11100.	9650.	796.	84.	-24.	0.0	1.2	190.	0.0	0.0
9625.	11100.	9625.	862.	34.	-19.	0.0	0.0	0.	0.0	0.0
9600.	11100.	9600.	816.	33.	-14.	7.5	0.7	21.	0.0	0.0
9575.	11100.	9575.	812.	5.	-3.	0.0	0.0	0.	0.0	0.0
9550.	11100.	9550.	835.	-21.	9.	7.5	0.4	32.	0.0	0.0
9525.	11100.	9525.	816.	-39.	16.	0.0	0.0	0.	0.0	0.0
9500.	11100.	9500.	766.	-43.	10.	0.0	1.4	63.	0.0	0.0
9475.	11100.	9475.	725.	-122.	4.	0.0	0.0	0.	0.0	0.0

LINE 111E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	Ag-ppm	Sb-ppm
9450.	11100.	9450.	700.	-106.	-4.	0.0	1.2	126.	0.0	0.0
9425.	11100.	9425.	713.	150.	150.	0.0	0.0	0.	0.0	0.0
9400.	11100.	9400.	863.	150.	150.	0.0	1.8	190.	0.0	0.0

Line information

Line: 112E
Number of records : 50.
Channel 1 min: 9400.000 max: 10625.00
Channel 2 min: 11200.00 max: 11200.00
Channel 3 min: 9400.000 max: 10625.00
Channel 4 min: 556.0000 max: 1518.000

LINE 112E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	As-ppm	Sb-ppm
10625.	11200.	10614.	831.	-45.	14.	0.0	1.4	137.	0.0	0.0
10600.	11200.	10600.	826.	-50.	19.	0.0	3.4	170.	0.0	0.0
10575.	11200.	10575.	846.	-25.	25.	0.0	0.0	0.	0.0	0.0
10550.	11200.	10550.	822.	-17.	23.	0.0	1.8	105.	0.0	0.0
10525.	11200.	10525.	817.	-24.	28.	0.0	0.0	0.	0.0	0.0
10500.	11200.	10500.	770.	-60.	2.	0.0	1.2	126.	0.0	0.0
10475.	11200.	10475.	787.	-30.	6.	0.0	0.0	0.	0.0	0.0
10450.	11200.	10450.	763.	-14.	24.	0.0	2.2	147.	0.2	0.0
10425.	11200.	10425.	738.	-15.	24.	0.0	0.0	0.	0.0	0.0
10400.	11200.	10400.	717.	-7.	14.	0.0	2.6	63.	0.2	0.0
10375.	11200.	10375.	640.	33.	18.	0.0	0.0	0.	0.0	0.0
10350.	11200.	10350.	660.	2.	14.	0.0	4.0	126.	1.2	0.0
10325.	11200.	10325.	633.	-27.	16.	0.0	0.0	0.	0.0	0.0
10300.	11200.	10300.	561.	-66.	10.	0.0	1.0	126.	0.2	0.0
10275.	11200.	10275.	556.	-44.	20.	0.0	0.0	0.	0.0	0.0
10250.	11200.	10250.	670.	-25.	24.	0.0	1.6	220.	0.0	0.0
10225.	11200.	10225.	900.	-18.	32.	0.0	0.0	0.	0.0	0.0
10200.	11200.	10200.	1422.	-14.	32.	0.0	1.0	147.	0.0	0.0
10175.	11200.	10175.	955.	-25.	12.	0.0	0.0	0.	0.0	0.0
10150.	11200.	10150.	962.	-34.	12.	0.0	1.2	157.	0.0	0.0
10125.	11200.	10125.	1518.	-16.	11.	0.0	0.0	0.	0.0	0.0
10100.	11200.	10100.	1208.	-3.	10.	0.0	2.0	125.	0.0	0.0
10075.	11200.	10075.	922.	0.	8.	0.0	0.0	0.	0.0	0.0
10050.	11200.	10050.	881.	2.	10.	115.0	3.4	105.	0.0	0.0
10025.	11200.	10025.	965.	6.	12.	0.0	0.0	0.	0.0	0.0
10000.	11200.	10000.	859.	12.	12.	5.0	3.0	160.	0.0	0.0
9975.	11200.	9975.	971.	20.	13.	0.0	0.0	0.	0.0	0.0
9950.	11200.	9950.	838.	18.	15.	0.0	1.8	84.	0.0	0.0
9925.	11200.	9925.	781.	38.	23.	0.0	0.0	0.	0.0	0.0
9900.	11200.	9900.	753.	30.	8.	0.0	0.6	170.	0.0	0.0
9875.	11200.	9875.	788.	42.	-3.	0.0	0.0	0.	0.0	0.0
9850.	11200.	9850.	661.	40.	5.	0.0	1.2	170.	0.0	0.0
9825.	11200.	9825.	821.	46.	8.	0.0	0.0	0.	0.0	0.0
9800.	11200.	9800.	740.	53.	10.	0.0	2.2	280.	0.0	0.0
9775.	11200.	9775.	1008.	68.	4.	0.0	0.0	0.	0.0	0.0
9750.	11200.	9750.	725.	65.	7.	0.0	1.8	280.	0.0	0.0
9725.	11200.	9725.	733.	80.	10.	0.0	0.0	0.	0.0	0.0
9700.	11200.	9700.	718.	100.	10.	5.0	2.0	240.	0.0	0.0
9675.	11200.	9675.	697.	55.	6.	0.0	0.0	0.	0.0	0.0
9650.	11200.	9650.	828.	90.	10.	0.0	2.3	170.	0.0	0.0
9625.	11200.	9625.	1253.	110.	6.	0.0	0.0	0.	0.0	0.0
9600.	11200.	9600.	738.	68.	-13.	0.0	2.7	105.	0.0	0.0
9575.	11200.	9575.	837.	47.	-13.	0.0	0.0	0.	0.0	0.0
9550.	11200.	9550.	871.	34.	-13.	0.0	1.6	190.	0.0	0.0
9525.	11200.	9525.	768.	5.	-3.	0.0	0.0	0.	0.0	0.0
9500.	11200.	9500.	779.	-35.	-2.	0.0	2.8	84.	0.0	0.0
9475.	11200.	9475.	653.	-21.	-6.	0.0	0.0	0.	0.0	0.0
9450.	11200.	9450.	735.	14.	0.	0.0	1.2	220.	0.0	0.0

LINE 112E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	Ag-ppm	Sb-ppm
9425.	11200.	9425.	770.	35.	3.	0.0	0.0	0.	0.0	0.0
9400.	11200.	9400.	769.	-4.	0.	0.0	2.5	116.	0.0	0.0

Line information

Line: 113E
Number of records : 50.
Channel 1 min: 9400.000 max: 10625.00
Channel 2 min: 11300.00 max: 11300.00
Channel 3 min: 9400.000 max: 10625.00
Channel 4 min: 548.0000 max: 60280.00

LINE 113E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	As-ppm	Sb-ppm
10625.	11300.	10618.	831.	-50.	5.	0.0	2.4	174.	0.0	0.0
10600.	11300.	10600.	846.	-61.	14.	0.0	4.0	74.	0.4	0.0
10575.	11300.	10575.	814.	-40.	35.	0.0	0.0	0.	0.0	0.0
10550.	11300.	10550.	819.	-35.	25.	0.0	1.2	74.	0.2	0.0
10525.	11300.	10525.	791.	-44.	18.	0.0	0.0	0.	0.0	0.0
10500.	11300.	10500.	772.	-13.	28.	0.0	1.0	95.	0.2	0.0
10475.	11300.	10475.	767.	24.	42.	0.0	0.0	0.	0.0	0.0
10450.	11300.	10450.	758.	24.	42.	0.0	2.8	135.	0.4	0.0
10425.	11300.	10425.	740.	38.	32.	0.0	0.0	0.	0.0	0.0
10400.	11300.	10400.	703.	140.	26.	0.0	2.0	135.	0.2	0.0
10375.	11300.	10375.	705.	6.	12.	0.0	0.0	0.	0.0	0.0
10350.	11300.	10350.	665.	64.	13.	0.0	1.8	115.	0.0	0.0
10325.	11300.	10325.	700.	-4.	11.	0.0	0.0	0.	0.0	0.0
10300.	11300.	10300.	671.	-70.	12.	0.0	1.4	145.	0.2	0.0
10275.	11300.	10275.	639.	-68.	28.	0.0	0.0	0.	0.0	0.0
10250.	11300.	10250.	612.	-33.	25.	0.0	1.8	147.	0.0	0.0
10225.	11300.	10225.	947.	-28.	30.	0.0	0.0	0.	0.0	0.0
10200.	11300.	10200.	745.	-19.	15.	0.0	2.2	180.	0.2	0.0
10175.	11300.	10175.	734.	-16.	16.	0.0	0.0	0.	0.0	0.0
10150.	11300.	10150.	818.	-20.	7.	0.0	1.2	105.	0.0	0.0
10125.	11300.	10125.	785.	-22.	11.	0.0	0.0	0.	0.0	0.0
10100.	11300.	10100.	744.	-14.	12.	0.0	1.4	170.	0.2	0.0
10075.	11300.	10075.	746.	-8.	14.	0.0	0.0	0.	0.0	0.0
10050.	11300.	10050.	706.	-5.	4.	7.5	0.8	115.	0.2	0.0
10025.	11300.	10025.	742.	0.	15.	0.0	0.0	0.	0.0	0.0
10000.	11300.	10000.	708.	14.	20.	7.5	2.0	147.	0.2	0.0
9975.	11300.	9975.	727.	35.	21.	0.0	0.0	0.	0.0	0.0
9950.	11300.	9950.	698.	54.	27.	7.5	1.0	137.	0.2	0.0
9925.	11300.	9925.	728.	25.	3.	0.0	0.0	0.	0.0	0.0
9900.	11300.	9900.	644.	32.	0.	0.0	1.2	180.	0.2	0.0
9875.	11300.	9875.	670.	33.	8.	0.0	0.0	0.	0.0	0.0
9850.	11300.	9850.	767.	39.	10.	0.0	3.0	220.	0.4	0.0
9825.	11300.	9825.	488.	65.	5.	0.0	0.0	0.	0.0	0.0
9800.	11300.	9800.	698.	56.	5.	0.0	1.0	157.	0.0	0.0
9775.	11300.	9775.	689.	42.	-5.	0.0	0.0	0.	0.0	0.0
9750.	11300.	9750.	719.	19.	-10.	0.0	1.0	137.	0.0	0.0
9725.	11300.	9725.	745.	4.	-11.	0.0	0.0	0.	0.0	0.0
9700.	11300.	9700.	718.	29.	-4.	0.0	1.4	250.	0.2	0.0
9675.	11300.	9675.	757.	42.	0.	0.0	0.0	0.	0.0	0.0
9650.	11300.	9650.	1251.	63.	10.	0.0	2.0	230.	0.0	0.0
9625.	11300.	9625.	861.	66.	-1.	0.0	0.0	0.	0.0	0.0
9600.	11300.	9600.	751.	44.	-12.	0.0	1.6	315.	0.2	0.0
9575.	11300.	9575.	763.	32.	-11.	0.0	0.0	0.	0.0	0.0
9550.	11300.	9550.	708.	13.	-10.	7.5	1.0	180.	0.0	0.0
9525.	11300.	9525.	677.	-14.	-5.	0.0	0.0	0.	0.0	0.0
9500.	11300.	9500.	654.	-16.	-10.	0.0	0.6	136.	0.2	0.0
9475.	11300.	9475.	717.	-5.	-4.	0.0	0.0	0.	0.0	0.0
9450.	11300.	9450.	805.	3.	-1.	0.0	1.2	180.	0.0	0.0

LINE 113E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	As-ppm	Sb-ppm
9425.	11300.	9425.	723.	19.	0.	0.0	0.0	0.	0.0	0.0
9400.	11300.	9400.	728.	-9.	-1.	0.0	0.6	105.	0.0	0.0

#Line information#

Line: 114E
Number of records : 49.
Channel 1 min: 9400.000 max: 10600.00
Channel 2 min: 11400.00 max: 11400.00
Channel 3 min: 9400.000 max: 10600.00
Channel 4 min: -533.0000 max: 1210.000

LINE 114E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	As-ppm	Sb-ppm
10600.	11400.	10600.	842.	-10.	34.	0.0	0.0	0.	0.0	0.0
10575.	11400.	10575.	846.	-6.	32.	0.0	0.0	0.	0.0	0.0
10550.	11400.	10550.	831.	-2.	26.	0.0	1.0	100.	0.2	0.0
10525.	11400.	10525.	804.	-16.	20.	0.0	0.0	0.	0.0	0.0
10500.	11400.	10500.	776.	-26.	14.	0.0	1.4	50.	0.4	0.0
10475.	11400.	10475.	765.	-18.	18.	0.0	0.0	0.	0.0	0.0
10450.	11400.	10450.	777.	8.	20.	0.0	2.0	166.	0.4	0.0
10425.	11400.	10425.	759.	21.	17.	0.0	0.0	0.	0.0	0.0
10400.	11400.	10400.	766.	14.	12.	0.0	1.0	75.	0.0	0.0
10375.	11400.	10375.	751.	17.	13.	0.0	0.0	0.	0.0	0.0
10350.	11400.	10350.	745.	-2.	16.	0.0	1.4	83.	0.4	0.0
10325.	11400.	10325.	770.	-24.	19.	0.0	0.0	0.	0.0	0.0
10300.	11400.	10300.	699.	-62.	14.	0.0	3.4	83.	0.8	0.0
10275.	11400.	10275.	683.	-46.	22.	0.0	0.0	0.	0.0	0.0
10250.	11400.	10250.	660.	-30.	27.	0.0	3.4	83.	0.8	0.0
10225.	11400.	10225.	589.	-48.	14.	0.0	0.0	0.	0.0	0.0
10200.	11400.	10200.	742.	-48.	6.	7.5	1.0	91.	0.2	0.0
10175.	11400.	10175.	872.	-36.	16.	0.0	0.0	0.	0.0	0.0
10150.	11400.	10150.	1210.	-26.	18.	0.0	4.8	108.	0.2	0.0
10125.	11400.	10125.	715.	-15.	18.	0.0	0.0	0.	0.0	0.0
10100.	11400.	10100.	789.	-23.	-21.	0.0	1.8	205.	0.4	0.0
10075.	11400.	10075.	756.	-15.	15.	0.0	0.0	0.	0.0	0.0
10050.	11400.	10050.	766.	-11.	22.	0.0	1.4	91.	0.0	0.0
10025.	11400.	10025.	759.	-8.	18.	0.0	0.0	0.	0.0	0.0
10000.	11400.	10000.	683.	-4.	18.	0.0	2.0	200.	0.4	0.0
9975.	11400.	9975.	660.	22.	14.	0.0	0.0	0.	0.0	0.0
9950.	11400.	9950.	674.	16.	5.	0.0	1.4	183.	0.0	0.0
9925.	11400.	9925.	666.	18.	9.	0.0	0.0	0.	0.0	0.0
9900.	11400.	9900.	715.	27.	12.	0.0	2.6	174.	0.0	0.0
9875.	11400.	9875.	685.	42.	15.	0.0	0.0	0.	0.0	0.0
9850.	11400.	9850.	925.	67.	21.	7.5	2.6	150.	0.2	0.0
9825.	11400.	9825.	650.	84.	10.	0.0	0.0	0.	0.0	0.0
9800.	11400.	9800.	720.	-4.	-7.	0.0	0.8	150.	0.2	0.0
9775.	11400.	9775.	717.	-45.	-22.	0.0	0.0	0.	0.0	0.0
9750.	11400.	9750.	915.	-16.	-3.	0.0	4.2	300.	0.0	0.0
9725.	11400.	9725.	460.	2.	-31.	0.0	0.0	0.	0.0	0.0
9700.	11400.	9700.	1069.	20.	-24.	0.0	1.4	134.	0.0	0.0
9675.	11400.	9675.	-533.	18.	2.	0.0	0.0	0.	0.0	0.0
9650.	11400.	9650.	804.	25.	6.	0.0	2.0	166.	0.0	0.0
9625.	11400.	9625.	833.	40.	10.	0.0	0.0	0.	0.0	0.0
9600.	11400.	9600.	721.	67.	12.	0.0	1.8	134.	0.2	0.0
9575.	11400.	9575.	694.	25.	0.	0.0	0.0	0.	0.0	0.0
9550.	11400.	9550.	683.	5.	1.	0.0	0.6	116.	0.0	0.0
9525.	11400.	9525.	680.	16.	10.	0.0	0.0	0.	0.0	0.0
9500.	11400.	9500.	757.	19.	5.	0.0	0.8	66.	0.0	0.0
9475.	11400.	9475.	696.	19.	3.	0.0	0.0	0.	0.0	0.0
9450.	11400.	9450.	569.	7.	1.	0.0	1.8	166.	0.0	0.0
9425.	11400.	9425.	797.	34.	5.	0.0	0.0	0.	0.0	0.0

LINE 114E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	As-ppm	Sb-ppm
9400.	11400.	9400.	665.	26.	3.	0.0	2.2	150.	0.2	0.0

Line information

Line: 116E
Number of records : 21.
Channel 1 min: 10000.00 max: 10500.00
Channel 2 min: 11600.00 max: 11600.00
Channel 3 min: 10000.00 max: 10500.00
Channel 4 min: 152.0000 max: 1044.000

LINE 116E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	As-ppm	Sb-ppm
10500.	11600.	10491.	152.	-60.	30.	7.5	1.8	125.	0.4	0.0
10475.	11600.	10475.	1044.	-32.	42.	0.0	0.0	0.	0.0	0.0
10450.	11600.	10450.	758.	43.	44.	0.0	1.0	66.	0.2	0.0
10425.	11600.	10425.	734.	58.	28.	0.0	0.0	0.	0.0	0.0
10400.	11600.	10400.	745.	36.	16.	0.0	0.8	133.	0.2	0.0
10375.	11600.	10375.	761.	10.	14.	0.0	0.0	0.	0.0	0.0
10350.	11600.	10350.	765.	-22.	20.	0.0	1.2	100.	0.0	0.0
10325.	11600.	10325.	723.	-52.	18.	0.0	0.0	0.	0.0	0.0
10300.	11600.	10300.	720.	-40.	25.	0.0	1.0	174.	0.0	0.0
10275.	11600.	10275.	727.	-38.	22.	0.0	0.0	0.	0.0	0.0
10250.	11600.	10250.	650.	-38.	25.	0.0	0.4	125.	0.0	0.0
10225.	11600.	10225.	783.	-35.	30.	0.0	0.0	0.	0.0	0.0
10200.	11600.	10200.	1023.	-22.	30.	0.0	2.0	166.	0.2	0.0
10175.	11600.	10175.	809.	-9.	38.	0.0	0.0	0.	0.0	0.0
10150.	11600.	10150.	833.	8.	40.	0.0	7.0	58.	0.0	0.0
10125.	11600.	10125.	781.	14.	23.	0.0	0.0	0.	0.0	0.0
10100.	11600.	10100.	783.	-32.	4.	7.5	1.6	83.	0.0	0.0
10075.	11600.	10075.	879.	-26.	3.	0.0	0.0	0.	0.0	0.0
10050.	11600.	10050.	724.	-19.	9.	0.0	1.2	108.	0.0	0.0
10025.	11600.	10025.	746.	-9.	15.	0.0	0.0	0.	0.0	0.0
10000.	11600.	10000.	757.	4.	20.	0.0	1.0	160.	0.0	0.0

Line information

Line: 117E
Number of records : 47.
Channel 1 min: 9400.000 max: 10550.00
Channel 2 min: 11700.00 max: 11700.00
Channel 3 min: 9400.000 max: 10550.00
Channel 4 min: -936.0000 max: 2002.000

LINE 117E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	As-ppm	Sb-ppm
10550.	11700.	10536.	831.	-30.	25.	0.0	3.7	80.	0.0	0.0
10525.	11700.	10525.	810.	-34.	17.	0.0	0.0	0.	0.0	0.0
10500.	11700.	10500.	803.	-36.	18.	0.0	1.5	74.	0.0	0.0
10475.	11700.	10475.	2002.	1.	37.	0.0	0.0	0.	0.0	0.0
10450.	11700.	10450.	715.	33.	28.	0.0	1.3	103.	0.0	0.0
10425.	11700.	10425.	780.	-2.	25.	0.0	0.0	0.	0.0	0.0
10400.	11700.	10400.	763.	-32.	33.	0.0	2.4	91.	0.0	0.0
10375.	11700.	10375.	756.	-28.	40.	0.0	0.0	0.	0.0	0.0
10350.	11700.	10350.	757.	-14.	36.	0.0	6.0	125.	0.6	0.0
10325.	11700.	10325.	735.	-24.	32.	0.0	0.0	0.	0.0	0.0
10300.	11700.	10300.	737.	-24.	22.	0.0	3.8	83.	0.0	0.0
10275.	11700.	10275.	732.	-30.	22.	0.0	0.0	0.	0.0	0.0
10250.	11700.	10250.	729.	-28.	30.	0.0	1.0	108.	0.2	0.0
10225.	11700.	10225.	708.	-24.	29.	0.0	0.0	0.	0.0	0.0
10200.	11700.	10200.	-936.	-15.	38.	7.5	1.8	83.	0.2	0.0
10175.	11700.	10175.	984.	0.	39.	0.0	1.4	108.	0.0	0.0
10150.	11700.	10150.	788.	48.	40.	0.0	0.0	0.	0.0	0.0
10125.	11700.	10125.	817.	-38.	4.	0.0	1.6	125.	0.2	0.0
10100.	11700.	10100.	754.	-14.	22.	0.0	0.0	0.	0.0	0.0
10075.	11700.	10075.	664.	-1.	14.	0.0	0.0	0.	0.0	0.0
10050.	11700.	10050.	716.	-14.	7.	0.0	1.2	140.	0.0	0.0
10025.	11700.	10025.	741.	-7.	15.	0.0	0.0	0.	0.0	0.0
10000.	11700.	10000.	686.	3.	24.	0.0	1.8	160.	0.0	0.0
9975.	11700.	9975.	654.	6.	17.	0.0	0.0	0.	0.0	0.0
9950.	11700.	9950.	685.	10.	20.	0.0	2.2	190.	0.0	0.0
9925.	11700.	9925.	802.	18.	24.	0.0	0.0	0.	0.0	0.0
9900.	11700.	9900.	687.	29.	22.	0.0	1.2	270.	0.0	0.0
9875.	11700.	9875.	680.	9.	11.	0.0	0.0	0.	0.0	0.0
9850.	11700.	9850.	698.	-27.	3.	0.0	0.8	140.	0.4	0.0
9825.	11700.	9825.	1640.	-23.	1.	0.0	0.0	0.	0.0	0.0
9800.	11700.	9800.	872.	-16.	2.	0.0	1.2	160.	0.0	0.0
9775.	11700.	9775.	824.	-10.	4.	0.0	0.0	0.	0.0	0.0
9750.	11700.	9750.	773.	-8.	4.	0.0	1.6	230.	0.0	0.0
9725.	11700.	9725.	771.	-5.	3.	0.0	0.0	0.	0.0	0.0
9700.	11700.	9700.	832.	-2.	5.	0.0	0.6	116.	0.4	0.0
9675.	11700.	9675.	691.	2.	6.	0.0	0.0	0.	0.0	0.0
9650.	11700.	9650.	748.	2.	3.	0.0	1.6	290.	0.2	0.0
9625.	11700.	9625.	713.	17.	16.	0.0	0.0	0.	0.0	0.0
9600.	11700.	9600.	728.	11.	4.	0.0	1.6	350.	0.0	0.0
9575.	11700.	9575.	740.	-18.	-12.	0.0	0.0	0.	0.0	0.0
9550.	11700.	9550.	986.	-25.	-23.	7.5	0.6	158.	0.0	0.0
9525.	11700.	9525.	747.	-8.	-8.	0.0	0.0	0.	0.0	0.0
9500.	11700.	9500.	687.	-3.	-7.	0.0	1.6	250.	0.0	0.0
9475.	11700.	9475.	709.	0.	-4.	0.0	0.0	0.	0.0	0.0
9450.	11700.	9450.	683.	5.	-5.	0.0	2.0	149.	0.0	0.0
9425.	11700.	9425.	725.	2.	-7.	0.0	0.0	0.	0.0	0.0
9400.	11700.	9400.	732.	5.	-3.	0.0	1.2	174.	0.0	0.0

#Line information#

Line: 118E
Number of records : 23.
Channel 1 min: 10000.00 max: 10550.00
Channel 2 min: 11800.00 max: 11800.00
Channel 3 min: 10000.00 max: 10550.00
Channel 4 min: -849.0000 max: 887.0000

LINE 118E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	As-ppm	Sb-ppm
10550.	11800.	10536.	-208.	-24.	35.	0.0	2.8	97.	0.2	0.0
10525.	11800.	10525.	728.	-28.	34.	0.0	0.0	0.	0.0	0.0
10500.	11800.	10500.	852.	-45.	26.	0.0	0.7	86.	0.4	0.0
10475.	11800.	10475.	767.	-60.	27.	0.0	0.0	0.	0.0	0.0
10450.	11800.	10450.	887.	-42.	34.	0.0	2.2	91.	0.2	0.2
10425.	11800.	10425.	796.	-36.	40.	0.0	0.0	0.	0.0	0.0
10400.	11800.	10400.	820.	-18.	14.	0.0	27.5	108.	0.6	0.0
10375.	11800.	10375.	1.	-14.	36.	0.0	0.0	0.	0.0	0.0
10350.	11800.	10350.	760.	-30.	27.	0.0	12.2	97.	0.2	0.0
10325.	11800.	10325.	725.	-28.	29.	0.0	0.0	0.	0.0	0.0
10300.	11800.	10300.	-312.	-37.	25.	0.0	1.1	143.	0.0	0.0
10275.	11800.	10275.	-360.	-25.	34.	0.0	3.4	188.	0.0	0.0
10250.	11800.	10250.	-509.	-7.	35.	0.0	0.0	0.	0.0	0.0
10225.	11800.	10225.	-162.	-30.	12.	0.0	0.0	0.	0.0	0.0
10200.	11800.	10200.	-241.	-28.	18.	0.0	2.1	171.	0.0	0.0
10175.	11800.	10175.	352.	-29.	14.	0.0	0.0	0.	0.0	0.0
10150.	11800.	10150.	833.	-15.	20.	0.0	0.9	97.	0.0	0.0
10125.	11800.	10125.	-849.	-10.	24.	0.0	0.0	0.	0.0	0.0
10100.	11800.	10100.	34.	10.	30.	0.0	1.1	108.	0.0	0.0
10075.	11800.	10075.	793.	-1.	18.	0.0	0.0	0.	0.0	0.0
10050.	11800.	10050.	-340.	-28.	7.	0.0	1.5	103.	0.0	0.0
10025.	11800.	10025.	623.	-13.	15.	0.0	0.0	0.	0.0	0.0
10000.	11800.	10000.	-236.	-4.	17.	0.0	0.5	143.	0.0	0.0

Line information

Line: 119E
Number of records : 25.
Channel 1 min: 9400.000 max: 10000.00
Channel 2 min: 11900.00 max: 11900.00
Channel 3 min: 9400.000 max: 10000.00
Channel 4 min: 432.0000 max: 856.0000

LINE 119E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	As-ppm	Sb-ppm
10000.	11901.	10000.	769.	-5.	13.	0.0	0.5	139.	0.2	0.0
9975.	11901.	9975.	432.	-4.	15.	0.0	0.0	0.	0.0	0.0
9950.	11901.	9950.	775.	-6.	10.	0.0	1.3	239.	0.0	0.0
9925.	11901.	9925.	555.	2.	10.	0.0	0.0	0.	0.0	0.0
9900.	11901.	9900.	719.	-8.	3.	0.0	1.0	188.	0.0	0.0
9875.	11901.	9875.	769.	0.	13.	0.0	0.0	0.	0.0	0.0
9850.	11901.	9850.	723.	6.	14.	0.0	1.4	182.	0.0	0.0
9825.	11901.	9825.	856.	11.	15.	0.0	0.0	0.	0.0	0.0
9800.	11901.	9800.	795.	17.	16.	0.0	1.5	170.	0.0	0.0
9775.	11901.	9775.	729.	31.	18.	0.0	0.0	0.	0.0	0.0
9750.	11901.	9750.	719.	8.	4.	0.0	0.7	91.	0.0	0.0
9725.	11901.	9725.	713.	-40.	-9.	0.0	0.0	0.	0.0	0.0
9700.	11901.	9700.	717.	-26.	-12.	0.0	22.0	137.	0.2	0.0
9675.	11901.	9675.	749.	8.	10.	0.0	0.0	0.	0.0	0.0
9650.	11901.	9650.	795.	-11.	-5.	0.0	0.9	160.	0.2	0.2
9625.	11901.	9625.	741.	-33.	-22.	0.0	0.0	0.	0.0	0.0
9600.	11901.	9600.	706.	-15.	-16.	0.0	0.5	80.	0.0	0.2
9575.	11901.	9575.	734.	-5.	-9.	0.0	0.0	0.	0.0	0.0
9550.	11901.	9550.	804.	-4.	-12.	0.0	2.9	342.	0.0	0.0
9525.	11901.	9525.	722.	-11.	-11.	0.0	0.0	0.	0.0	0.0
9500.	11901.	9500.	682.	0.	-10.	0.0	1.8	125.	0.4	0.0
9475.	11901.	9475.	679.	0.	2.	0.0	0.0	0.	0.0	0.0
9450.	11901.	9450.	693.	5.	-9.	0.0	0.7	120.	0.0	0.0
9425.	11901.	9425.	678.	7.	-4.	0.0	0.0	0.	0.0	0.0
9400.	11901.	9400.	637.	7.	-4.	0.0	0.6	114.	0.2	0.0

Line information

Line: 115
Number of records : 48.
Channel 1 min: 9375.000 max: 10550.00
Channel 2 min: 11500.00 max: 11500.00
Channel 3 min: 9375.000 max: 10550.00
Channel 4 min: 562.0000 max: 918.0000

LINE 115

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	As-ppm	Sb-ppm
10550.	11500.	10550.	876.	2.	25.	0.0	1.0	108.	0.0	0.0
10525.	11500.	10525.	807.	0.	25.	0.0	0.0	0.	0.0	0.0
10500.	11500.	10500.	820.	-2.	24.	0.0	1.4	66.	0.0	0.0
10475.	11500.	10475.	823.	-11.	26.	0.0	0.0	0.	0.0	0.0
10450.	11500.	10450.	797.	6.	28.	0.0	0.6	108.	0.0	0.0
10425.	11500.	10425.	770.	33.	21.	0.0	0.0	0.	0.0	0.0
10400.	11500.	10400.	806.	10.	16.	0.0	2.0	75.	0.0	0.0
10375.	11500.	10375.	799.	-29.	20.	0.0	0.0	0.	0.0	0.0
10350.	11500.	10350.	752.	0.	22.	0.0	1.8	58.	0.0	0.0
10325.	11500.	10325.	774.	-28.	18.	0.0	0.0	0.	0.0	0.0
10300.	11500.	10300.	752.	-62.	16.	0.0	1.8	75.	0.0	0.0
10275.	11500.	10275.	739.	-44.	22.	0.0	0.0	0.	0.0	0.0
10250.	11500.	10250.	751.	-47.	16.	0.0	2.0	160.	0.0	0.0
10225.	11500.	10225.	757.	-48.	16.	0.0	0.0	0.	0.0	0.0
10200.	11500.	10200.	755.	-38.	18.	7.5	1.6	150.	0.0	0.0
10175.	11500.	10175.	797.	-28.	20.	0.0	0.0	0.	0.0	0.0
10150.	11500.	10150.	792.	-21.	21.	0.0	0.6	100.	0.2	0.0
10125.	11500.	10125.	793.	-16.	22.	0.0	0.0	0.	0.0	0.0
10100.	11500.	10100.	832.	-14.	16.	0.0	1.0	140.	0.2	0.0
10075.	11500.	10075.	699.	-19.	13.	0.0	0.0	0.	0.0	0.0
10050.	11500.	10050.	708.	-13.	17.	0.0	2.0	133.	0.0	0.0
10025.	11500.	10025.	759.	-10.	15.	0.0	0.0	0.	0.0	0.0
10000.	11500.	10000.	672.	16.	18.	0.0	1.8	108.	0.0	0.0
9975.	11500.	9975.	660.	16.	14.	0.0	0.0	0.	0.0	0.0
9950.	11500.	9950.	729.	16.	14.	0.0	1.6	175.	0.2	0.0
9925.	11500.	9925.	825.	50.	28.	0.0	0.0	0.	0.0	0.0
9900.	11500.	9900.	735.	65.	24.	0.0	1.2	150.	0.2	0.0
9875.	11500.	9875.	715.	45.	5.	0.0	0.0	0.	0.0	0.0
9850.	11500.	9850.	686.	21.	2.	0.0	1.2	140.	0.4	0.0
9825.	11500.	9825.	701.	-10.	-2.	0.0	0.0	0.	0.0	0.0
9800.	11500.	9800.	713.	-28.	-2.	0.0	1.2	160.	0.0	0.0
9775.	11500.	9775.	562.	-23.	-2.	0.0	0.0	0.	0.0	0.0
9750.	11500.	9750.	918.	-5.	-2.	0.0	1.0	75.	0.4	0.0
9725.	11500.	9725.	584.	2.	-2.	0.0	0.0	0.	0.0	0.0
9700.	11500.	9700.	784.	5.	0.	0.0	2.2	190.	0.0	0.0
9675.	11500.	9675.	822.	11.	0.	0.0	0.0	0.	0.0	0.0
9650.	11500.	9650.	779.	11.	1.	0.0	1.6	230.	0.4	0.0
9625.	11500.	9625.	814.	15.	0.	0.0	0.0	0.	0.0	0.0
9600.	11500.	9600.	780.	5.	6.	0.0	1.6	166.	0.0	0.0
9575.	11500.	9575.	810.	-10.	-5.	0.0	0.0	0.	0.0	0.0
9550.	11500.	9550.	716.	3.	-2.	0.0	1.8	225.	0.0	0.0
9525.	11500.	9525.	737.	6.	-2.	0.0	0.0	0.	0.0	0.0
9500.	11500.	9500.	663.	4.	-2.	0.0	1.8	175.	0.4	0.0
9475.	11500.	9475.	667.	7.	-6.	0.0	0.0	0.	0.0	0.0
9450.	11500.	9450.	611.	8.	0.	0.0	3.6	108.	0.4	0.0
9425.	11500.	9425.	818.	11.	-2.	0.0	0.0	0.	0.0	0.0
9400.	11500.	9400.	747.	16.	-2.	0.0	2.6	191.	0.2	0.0
9375.	11500.	9375.	0.	0.	0.	0.0	0.0	0.	0.0	0.0

Line information

Line: 120E
Number of records : 22.
Channel 1 min: 10000.00 max: 10525.00
Channel 2 min: 12000.00 max: 12000.00
Channel 3 min: 10000.00 max: 10525.00
Channel 4 min: 611.0000 max: 1130.000

LINE 120E

STATION	X-COORD	Y-COORD	MAGNETIC	VLF-DIP	VLF-QUAD	Au-ppb	As-ppm	Hg-ppm	As-ppm	Sb-ppm
10525.	12001.	10525.	739.	-41.	10.	0.0	0.0	0.	0.0	0.0
10500.	12001.	10500.	752.	-52.	7.	7.5	1.6	113.	0.0	0.0
10475.	12001.	10475.	763.	-52.	18.	0.0	0.0	0.	0.0	0.0
10450.	12001.	10450.	843.	-53.	24.	7.5	1.4	165.	0.0	0.0
10425.	12001.	10425.	821.	-46.	28.	0.0	0.0	0.	0.0	0.0
10400.	12001.	10400.	788.	-38.	30.	0.0	3.1	120.	0.0	0.0
10375.	12001.	10375.	758.	-40.	28.	0.0	0.0	0.	0.0	0.0
10350.	12001.	10350.	741.	-36.	18.	0.0	5.3	126.	1.0	0.0
10325.	12001.	10325.	611.	-34.	25.	0.0	0.0	0.	0.0	0.0
10300.	12001.	10300.	786.	-30.	28.	0.0	3.1	270.	0.2	0.0
10275.	12001.	10275.	817.	-20.	38.	0.0	2.2	183.	0.2	0.0
10250.	12001.	10250.	713.	15.	38.	0.0	0.0	0.	0.0	0.0
10225.	12001.	10225.	854.	-15.	14.	0.0	0.0	0.	0.0	0.0
10200.	12001.	10200.	646.	-37.	-2.	0.0	4.4	290.	0.6	0.0
10175.	12001.	10175.	773.	-30.	8.	0.0	0.0	0.	0.0	0.0
10150.	12001.	10150.	1130.	-25.	11.	0.0	1.5	205.	0.4	0.0
10125.	12001.	10125.	789.	-15.	11.	0.0	0.0	0.	0.0	0.0
10100.	12001.	10100.	771.	-17.	15.	0.0	2.8	245.	0.8	0.0
10075.	12001.	10075.	754.	-13.	15.	0.0	0.0	0.	0.0	0.0
10050.	12001.	10050.	747.	-9.	17.	0.0	3.1	320.	0.0	0.0
10025.	12001.	10025.	830.	-5.	18.	0.0	0.0	0.	0.0	0.0
10000.	12001.	10000.	807.	-3.	14.	0.0	2.2	135.	0.0	0.0

APPENDIX G

DATA LISTINGS - GOLD ROCK EXTENSION

Line information

Line: UM=4500
Number of records : 13.
Channel 1 min: 0.0000000 max: 300.0000
Channel 2 min: 5480.000 max: 5500.000
Channel 3 min: 1720.000 max: 2020.000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE UM=4500

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
0.	5480.	1720.	0.	-8.	-30.	3.1	85.	0.1	0.1
25.	5482.	1745.	0.	10.	-42.	0.0	0.	0.0	0.0
50.	5483.	1770.	0.	5.	-28.	0.0	0.	0.0	0.0
75.	5485.	1795.	0.	-3.	-30.	0.0	0.	0.0	0.0
100.	5487.	1820.	0.	23.	-2.	3.4	207.	0.1	0.1
125.	5488.	1845.	0.	-48.	-32.	0.0	0.	0.0	0.0
150.	5490.	1870.	0.	-38.	-18.	0.0	0.	0.0	0.0
175.	5492.	1895.	0.	45.	-18.	0.0	0.	0.0	0.0
200.	5493.	1920.	0.	48.	-22.	0.0	0.	0.0	0.0
225.	5495.	1945.	0.	50.	-16.	0.0	0.	0.0	0.0
250.	5497.	1970.	0.	61.	-20.	5.4	82.	0.1	0.1
275.	5498.	1995.	0.	68.	-16.	0.0	0.	0.0	0.0
300.	5500.	2020.	0.	80.	-22.	0.0	0.	0.0	0.0

Line information

Line: UM2000
Number of records : 38.
Channel 1 min: 0.0000000 max: 925.0000
Channel 2 min: 3940.000 max: 4010.000
Channel 3 min: 1610.000 max: 2490.000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE UM2000

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
0.	4010.	2490.	0.	21.	-3.	0.0	0.	0.0	0.0
25.	4008.	2466.	0.	2.	-25.	0.0	0.	0.0	0.0
50.	4006.	2442.	0.	38.	-30.	0.0	0.	0.0	0.0
75.	4004.	2419.	0.	26.	-32.	3.4	46.	0.1	0.1
100.	4002.	2395.	0.	15.	-34.	0.0	0.	0.0	0.0
125.	4001.	2371.	0.	19.	-20.	0.0	0.	0.0	0.0
150.	3999.	2347.	0.	28.	12.	0.0	0.	0.0	0.0
175.	3997.	2324.	0.	15.	-20.	5.2	96.	0.1	0.1
200.	3995.	2300.	0.	-5.	-38.	0.0	0.	0.0	0.0
225.	3993.	2276.	0.	-7.	-37.	0.0	0.	0.0	0.0
250.	3991.	2252.	0.	5.	-22.	0.0	0.	0.0	0.0
275.	3989.	2228.	0.	26.	-36.	2.3	192.	0.1	0.1
300.	3987.	2205.	0.	-12.	-40.	0.0	0.	0.0	0.0
325.	3985.	2181.	0.	25.	-6.	0.0	0.	0.0	0.0
350.	3984.	2157.	0.	13.	-30.	0.0	0.	0.0	0.0
375.	3982.	2133.	0.	-38.	-38.	0.0	0.	0.0	0.0
400.	3980.	2109.	0.	-5.	18.	0.0	0.	0.0	0.0
425.	3978.	2086.	0.	22.	-12.	5.4	228.	0.1	0.1
450.	3976.	2062.	0.	46.	-22.	0.0	0.	0.0	0.0
475.	3974.	2038.	0.	55.	-5.	0.0	0.	0.0	0.0
500.	3972.	2014.	0.	58.	-10.	0.0	0.	0.0	0.0
525.	3970.	1991.	0.	27.	-8.	0.0	0.	0.0	0.0
550.	3968.	1967.	0.	45.	20.	0.0	0.	0.0	0.0
575.	3966.	1943.	0.	35.	14.	1.6	78.	0.1	0.1
600.	3965.	1919.	0.	46.	-22.	0.0	0.	0.0	0.0
625.	3963.	1895.	0.	45.	-4.	0.0	0.	0.0	0.0
650.	3961.	1872.	0.	34.	4.	0.0	0.	0.0	0.0
675.	3959.	1848.	0.	32.	-4.	0.0	0.	0.0	0.0
700.	3957.	1824.	0.	22.	-12.	0.0	0.	0.0	0.0
725.	3955.	1800.	0.	13.	-11.	4.2	282.	0.4	0.1
750.	3953.	1776.	0.	19.	-14.	0.0	0.	0.0	0.0
775.	3951.	1753.	0.	15.	-14.	0.0	0.	0.0	0.0
800.	3949.	1729.	0.	5.	-10.	0.0	0.	0.0	0.0
825.	3948.	1705.	0.	-34.	-28.	0.0	0.	0.0	0.0
850.	3946.	1681.	0.	-40.	-15.	0.0	0.	0.0	0.0
875.	3944.	1658.	0.	-47.	-36.	3.6	100.	0.1	0.1
900.	3942.	1634.	0.	-58.	-32.	0.0	0.	0.0	0.0
925.	3940.	1610.	0.	-48.	-36.	0.0	0.	0.0	0.0

Line information

Line: UM1500
Number of records : 37.
Channel 1 min: 0.0000000 max: 900.0000
Channel 2 min: 3590.000 max: 3605.000
Channel 3 min: 1520.000 max: 2445.000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE UM1500

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
0.	3605.	2445.	0.	35.	25.	750.0	0.	0.0	0.0
25.	3604.	2419.	0.	33.	-8.	0.0	0.	0.0	0.0
50.	3604.	2393.	0.	15.	-18.	0.0	0.	0.0	0.0
75.	3603.	2367.	0.	10.	-17.	0.0	0.	0.0	0.0
100.	3603.	2342.	0.	20.	-14.	4.8	92.	0.1	0.1
125.	3602.	2316.	0.	10.	-10.	0.0	0.	0.0	0.0
150.	3602.	2290.	0.	2.	-42.	0.0	0.	0.0	0.0
175.	3601.	2264.	0.	5.	-4.	0.0	0.	0.0	0.0
200.	3601.	2238.	0.	-2.	-24.	0.0	0.	0.0	0.0
225.	3600.	2212.	0.	10.	14.	0.0	0.	0.0	0.0
250.	3600.	2186.	0.	2.	-18.	0.0	0.	0.0	0.0
275.	3599.	2161.	0.	7.	-38.	0.0	0.	0.0	0.0
300.	3599.	2135.	0.	-8.	-8.	1.9	141.	0.2	0.1
325.	3598.	2109.	0.	12.	-2.	0.0	0.	0.0	0.0
350.	3598.	2083.	0.	12.	12.	0.0	0.	0.0	0.0
375.	3597.	2057.	0.	15.	0.	0.0	0.	0.0	0.0
400.	3597.	2031.	0.	8.	4.	0.0	0.	0.0	0.0
425.	3596.	2005.	0.	1.	-3.	0.0	0.	0.0	0.0
450.	3596.	1979.	0.	-5.	-20.	0.0	0.	0.0	0.0
475.	3595.	1954.	0.	-5.	-29.	0.0	0.	0.0	0.0
500.	3595.	1928.	0.	-12.	-22.	2.8	145.	0.1	0.1
525.	3594.	1902.	0.	-5.	-2.	0.0	0.	0.0	0.0
550.	3594.	1876.	0.	2.	-4.	0.0	0.	0.0	0.0
575.	3593.	1850.	0.	-20.	-33.	0.0	0.	0.0	0.0
600.	3593.	1824.	0.	12.	24.	0.0	0.	0.0	0.0
625.	3592.	1798.	0.	-12.	-4.	0.0	0.	0.0	0.0
650.	3592.	1773.	0.	10.	2.	2.4	114.	0.1	0.1
675.	3591.	1747.	0.	33.	3.	0.0	0.	0.0	0.0
700.	3591.	1721.	0.	14.	2.	0.0	0.	0.0	0.0
725.	3590.	1695.	0.	32.	-8.	0.0	0.	0.0	0.0
750.	3590.	1670.	0.	0.	0.	0.0	0.	0.0	0.0
775.	3590.	1645.	0.	0.	0.	0.0	0.	0.0	0.0
800.	3590.	1620.	0.	0.	0.	2.1	145.	0.1	0.1
825.	3590.	1595.	0.	0.	0.	0.0	0.	0.0	0.0
850.	3590.	1570.	0.	0.	0.	0.0	0.	0.0	0.0
875.	3590.	1545.	0.	0.	0.	0.0	0.	0.0	0.0
900.	3590.	1520.	0.	0.	0.	3.8	176.	0.1	0.1

Line information

Line: UM500
Number of records : 17.
Channel 1 min: 0.0000000 max: 400.0000
Channel 2 min: 2985.000 max: 3010.000
Channel 3 min: 1455.000 max: 1850.000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE UM500

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
0.	2985.	1455.	0.	-12.	13.	0.0	0.	0.0	0.0
25.	2987.	1480.	0.	-33.	11.	0.0	0.	0.0	0.0
50.	2988.	1504.	0.	-50.	27.	0.0	0.	0.0	0.0
75.	2990.	1529.	0.	-45.	29.	0.0	0.	0.0	0.0
100.	2991.	1554.	0.	-4.	26.	3.6	199.	0.1	0.1
125.	2993.	1578.	0.	10.	23.	0.0	0.	0.0	0.0
150.	2994.	1603.	0.	-7.	8.	0.0	0.	0.0	0.0
175.	2996.	1628.	0.	1.	20.	0.0	0.	0.0	0.0
200.	2998.	1653.	0.	3.	26.	5.6	109.	0.1	0.1
225.	2999.	1677.	0.	-20.	40.	0.0	0.	0.0	0.0
250.	3001.	1702.	0.	-9.	0.	0.0	0.	0.0	0.0
275.	3002.	1727.	0.	-17.	35.	0.0	0.	0.0	0.0
300.	3004.	1751.	0.	-12.	0.	4.5	132.	0.1	0.1
325.	3005.	1776.	0.	-28.	4.	0.0	0.	0.0	0.0
350.	3007.	1801.	0.	-7.	8.	0.0	0.	0.0	0.0
375.	3008.	1825.	0.	-15.	2.	0.0	0.	0.0	0.0
400.	3010.	1850.	0.	-50.	12.	0.0	0.	0.0	0.0

Line information

Line: UM00
Number of records : 8.
Channel 1 min: 0.0000000 max: 175.0000
Channel 2 min: 2670.000 max: 2690.000
Channel 3 min: 1520.000 max: 1690.000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE UM00

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
0.	2690.	1690.	0.	-12.	2.	0.0	0.	0.0	0.0
25.	2687.	1666.	0.	-30.	-10.	0.0	0.	0.0	0.0
50.	2684.	1641.	0.	-26.	18.	0.0	0.	0.0	0.0
75.	2681.	1617.	0.	-25.	25.	0.0	0.	0.0	0.0
100.	2679.	1593.	0.	-25.	25.	0.0	0.	0.0	0.0
125.	2676.	1569.	0.	-60.	24.	6.8	468.	0.1	0.1
150.	2673.	1544.	0.	-55.	-4.	0.0	0.	0.0	0.0
175.	2670.	1520.	0.	-88.	4.	5.8	150.	0.1	0.1

Line information

Line: UM3500
Number of records : 14.
Channel 1 min: 0.0000000 max: 325.0000
Channel 2 min: 4890.000 max: 4910.000
Channel 3 min: 1830.000 max: 2155.000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE UM3500

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
0.	4890.	1830.	0.	-17.	10.	0.0	0.	0.0	0.0
25.	4892.	1857.	0.	-10.	4.	0.0	0.	0.0	0.0
50.	4893.	1884.	0.	-20.	1.	0.0	0.	0.0	0.0
75.	4895.	1911.	0.	-45.	5.	3.8	59.	0.1	0.1
100.	4897.	1938.	0.	-33.	8.	0.0	0.	0.0	0.0
125.	4898.	1965.	0.	-22.	2.	0.0	0.	0.0	0.0
150.	4900.	1993.	0.	-38.	-8.	0.0	0.	0.0	0.0
175.	4902.	2020.	0.	-10.	-36.	0.0	0.	0.0	0.0
200.	4903.	2047.	0.	-7.	-2.	0.0	0.	0.0	0.0
225.	4905.	2074.	0.	0.	-11.	1.4	168.	0.1	0.1
250.	4907.	2101.	0.	7.	10.	0.0	0.	0.0	0.0
275.	4908.	2128.	0.	16.	16.	0.0	0.	0.0	0.0
300.	4910.	2155.	0.	28.	4.	0.0	0.	0.0	0.0
325.	0.	0.	0.	35.	35.	0.0	0.	0.0	0.0

Line information

Line: UM4000
Number of records : 17.
Channel 1 min: 0.0000000 max: 400.0000
Channel 2 min: 5200.000 max: 5225.000
Channel 3 min: 1590.000 max: 2015.000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE UM4000

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
0.	5200.	1590.	0.	-6.	-2.	3.7	126.	0.1	0.1
25.	5202.	1617.	0.	3.	6.	0.0	0.	0.0	0.0
50.	5203.	1643.	0.	-12.	-20.	0.0	0.	0.0	0.0
75.	5205.	1670.	0.	-12.	-14.	0.0	0.	0.0	0.0
100.	5206.	1696.	0.	-22.	-8.	3.4	88.	0.1	0.1
125.	5208.	1723.	0.	-23.	-12.	0.0	0.	0.0	0.0
150.	5209.	1749.	0.	-32.	-22.	0.0	0.	0.0	0.0
175.	5211.	1776.	0.	-30.	-24.	0.0	0.	0.0	0.0
200.	5213.	1803.	0.	-35.	-14.	3.7	129.	0.1	0.1
225.	5214.	1829.	0.	-15.	-24.	0.0	0.	0.0	0.0
250.	5216.	1856.	0.	-12.	-32.	0.0	0.	0.0	0.0
275.	5217.	1882.	0.	0.	-30.	0.0	0.	0.0	0.0
300.	5219.	1909.	0.	25.	-18.	2.3	155.	0.1	0.1
325.	5220.	1935.	0.	45.	-10.	0.0	0.	0.0	0.0
350.	5222.	1962.	0.	40.	-25.	0.0	0.	0.0	0.0
375.	5223.	1988.	0.	37.	-5.	0.0	0.	0.0	0.0
400.	5225.	2015.	0.	30.	13.	0.0	0.	0.0	0.0

Line information

Line: GR500
Number of records : 14.
Channel 1 min: 0.0000000 max: 325.0000
Channel 2 min: 1880.000 max: 1925.000
Channel 3 min: 140.0000 max: 515.0000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE GR500

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
0.	1880.	140.	0.	-55.	-10.	4.8	68.	0.1	0.1
25.	1883.	169.	0.	-43.	-10.	0.0	0.	0.0	0.0
50.	1887.	198.	0.	-29.	-2.	0.0	0.	0.0	0.0
75.	1890.	227.	0.	-20.	0.	0.0	0.	0.0	0.0
100.	1894.	255.	0.	-18.	-8.	0.0	0.	0.0	0.0
125.	1897.	284.	0.	-16.	-3.	0.0	0.	0.0	0.0
150.	1901.	313.	0.	-11.	3.	0.0	0.	0.0	0.0
175.	1904.	342.	0.	-9.	2.	0.0	0.	0.0	0.0
200.	1908.	371.	0.	-4.	-10.	4.0	46.	0.1	0.1
225.	1911.	400.	0.	-3.	-8.	0.0	0.	0.0	0.0
250.	1915.	428.	0.	0.	0.	0.0	0.	0.0	0.0
275.	1918.	457.	0.	-4.	-6.	0.0	0.	0.0	0.0
300.	1922.	486.	0.	-2.	-8.	0.0	0.	0.0	0.0
325.	1925.	515.	0.	3.	-6.	0.0	0.	0.0	0.0

Line information

Line: GR1000
Number of records : 9.
Channel 1 min: 0.0000000 max: 200.0000
Channel 2 min: 1700.000 max: 1730.000
Channel 3 min: 255.0000 max: 485.0000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE GR1000

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
0.	1730.	485.	0.	-55.	-24.	0.0	0.	0.0	0.0
25.	1726.	456.	0.	-36.	-6.	0.0	0.	0.0	0.0
50.	1723.	428.	0.	-26.	-7.	6.7	117.	0.1	0.1
75.	1719.	399.	0.	-14.	-2.	0.0	0.	0.0	0.0
100.	1715.	370.	0.	-3.	2.	0.5	48.	0.1	0.1
125.	1711.	341.	0.	-4.	2.	0.0	0.	0.0	0.0
150.	1708.	312.	0.	-15.	-8.	0.0	0.	0.0	0.0
175.	1704.	284.	0.	-12.	0.	0.0	0.	0.0	0.0
200.	1700.	255.	0.	-8.	-2.	0.0	0.	0.0	0.0

Line information

Line: GR1500
Number of records : 19.
Channel 1 min: 0.0000000 max: 450.0000
Channel 2 min: 1420.000 max: 1465.000
Channel 3 min: 70.00000 max: 585.0000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE GR1500

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
0.	1420.	70.	0.	34.	-24.	0.0	0.	0.0	0.0
25.	1423.	99.	0.	27.	-1.	0.0	0.	0.0	0.0
50.	1425.	127.	0.	32.	-10.	1.1	12.	0.1	0.1
75.	1428.	156.	0.	50.	12.	0.0	0.	0.0	0.0
100.	1430.	184.	0.	54.	-9.	0.0	0.	0.0	0.0
125.	1433.	213.	0.	2.	-12.	0.0	0.	0.0	0.0
150.	1435.	242.	0.	-37.	-2.	1.6	25.	0.1	0.1
175.	1438.	270.	0.	-38.	0.	0.0	0.	0.0	0.0
200.	1440.	299.	0.	-24.	-18.	1.3	53.	0.1	0.1
225.	1443.	328.	0.	-27.	-8.	0.0	0.	0.0	0.0
250.	1445.	356.	0.	-8.	22.	0.0	0.	0.0	0.0
275.	1448.	385.	0.	-3.	9.	0.0	0.	0.0	0.0
300.	1450.	413.	0.	0.	5.	0.0	0.	0.0	0.0
325.	1453.	442.	0.	4.	-7.	0.0	0.	0.0	0.0
350.	1455.	471.	0.	10.	6.	0.0	0.	0.0	0.0
375.	1458.	499.	0.	12.	2.	0.0	0.	0.0	0.0
400.	1460.	528.	0.	15.	2.	0.8	48.	0.1	0.1
425.	1463.	556.	0.	16.	-8.	0.0	0.	0.0	0.0
450.	1465.	585.	0.	46.	12.	0.0	0.	0.0	0.0

Line information

Line: GR2000
Number of records : 36.
Channel 1 min: 0.0000000 max: 875.0000
Channel 2 min: 1070.000 max: 1125.000
Channel 3 min: 20.00000 max: 905.0000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE GR2000

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
0.	1125.	905.	0.	60.	-2.	0.0	0.	0.0	0.0
25.	1123.	880.	0.	48.	-12.	0.0	0.	0.0	0.0
50.	1122.	854.	0.	46.	22.	0.5	40.	0.1	0.1
75.	1120.	829.	0.	43.	-5.	0.0	0.	0.0	0.0
100.	1119.	804.	0.	40.	6.	0.0	0.	0.0	0.0
125.	1117.	779.	0.	33.	-4.	0.0	0.	0.0	0.0
150.	1116.	753.	0.	26.	4.	0.0	0.	0.0	0.0
175.	1114.	728.	0.	25.	4.	0.0	0.	0.0	0.0
200.	1112.	703.	0.	16.	2.	0.0	0.	0.0	0.0
225.	1111.	677.	0.	13.	-4.	0.0	0.	0.0	0.0
250.	1109.	652.	0.	8.	12.	0.0	0.	0.0	0.0
275.	1108.	627.	0.	2.	-4.	0.0	0.	0.0	0.0
300.	1106.	602.	0.	6.	6.	0.8	43.	0.1	0.1
325.	1105.	576.	0.	4.	14.	0.0	0.	0.0	0.0
350.	1103.	551.	0.	-3.	8.	0.0	0.	0.0	0.0
375.	1101.	526.	0.	-4.	10.	0.0	0.	0.0	0.0
400.	1100.	500.	0.	-9.	6.	0.0	0.	0.0	0.0
425.	1098.	475.	0.	-4.	8.	0.0	0.	0.0	0.0
450.	1097.	450.	0.	-9.	2.	0.0	0.	0.0	0.0
475.	1095.	425.	0.	-3.	8.	0.0	0.	0.0	0.0
500.	1094.	399.	0.	-10.	10.	0.5	50.	0.1	0.1
525.	1092.	374.	0.	-15.	0.	0.0	0.	0.0	0.0
550.	1090.	349.	0.	-15.	-2.	0.0	0.	0.0	0.0
575.	1089.	323.	0.	-16.	4.	0.0	0.	0.0	0.0
600.	1087.	298.	0.	-23.	-12.	2.7	40.	0.1	0.1
625.	1086.	273.	0.	-15.	-12.	0.0	0.	0.0	0.0
650.	1084.	248.	0.	13.	2.	0.0	0.	0.0	0.0
675.	1083.	222.	0.	30.	22.	0.0	0.	0.0	0.0
700.	1081.	197.	0.	33.	15.	1.6	50.	0.1	0.1
725.	1079.	172.	0.	26.	22.	0.0	0.	0.0	0.0
750.	1078.	146.	0.	27.	7.	0.0	0.	0.0	0.0
775.	1076.	121.	0.	18.	0.	0.0	0.	0.0	0.0
800.	1075.	96.	0.	23.	6.	2.1	40.	0.1	0.1
825.	1073.	71.	0.	5.	-7.	0.0	0.	0.0	0.0
850.	1072.	45.	0.	4.	-8.	0.0	0.	0.0	0.0
875.	1070.	20.	0.	3.	3.	0.0	0.	0.0	0.0

Line information

Line: GR2500
Number of records : 19.
Channel 1 min: 0.0000000 max: 450.0000
Channel 2 min: 515.0000 max: 600.0000
Channel 3 min: 55.00000 max: 505.0000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE GR2500

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
0.	600.	505.	0.	-33.	45.	0.0	0.	0.0	0.0
25.	597.	480.	0.	-34.	5.	0.0	0.	0.0	0.0
50.	594.	455.	0.	-42.	14.	2.1	30.	0.1	0.1
75.	591.	430.	0.	-42.	11.	0.0	0.	0.0	0.0
100.	588.	405.	0.	-32.	1.	0.0	0.	0.0	0.0
125.	584.	380.	0.	-50.	-5.	0.0	0.	0.0	0.0
150.	581.	355.	0.	-84.	-10.	0.0	0.	0.0	0.0
175.	578.	330.	0.	-75.	-27.	0.0	0.	0.0	0.0
200.	575.	305.	0.	0.	-30.	1.1	45.	0.1	0.1
225.	572.	280.	0.	0.	4.	0.0	0.	0.0	0.0
250.	569.	255.	0.	2.	11.	0.0	0.	0.0	0.0
275.	566.	230.	0.	-6.	7.	0.0	0.	0.0	0.0
300.	562.	205.	0.	-22.	5.	0.1	52.	0.1	0.1
325.	559.	180.	0.	-34.	1.	0.0	0.	0.0	0.0
350.	556.	155.	0.	-40.	1.	0.0	0.	0.0	0.0
375.	553.	130.	0.	-53.	-11.	0.0	0.	0.0	0.0
400.	550.	105.	0.	-65.	-14.	2.1	50.	0.1	0.1
425.	520.	75.	0.	0.	0.	0.0	0.	0.0	0.0
450.	515.	55.	0.	0.	0.	0.0	0.	0.0	0.0

Line information

Line: GR3000
Number of records : 8.
Channel 1 min: 0.0000000 max: 175.0000
Channel 2 min: 340.0000 max: 375.0000
Channel 3 min: 295.0000 max: 470.0000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE GR3000

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
0.	340.	295.	0.	-25.	0.	0.0	0.	0.0	0.0
25.	345.	320.	0.	-14.	18.	0.0	0.	0.0	0.0
50.	350.	345.	0.	12.	24.	1.3	28.	0.1	0.1
75.	355.	370.	0.	-5.	25.	0.0	0.	0.0	0.0
100.	360.	395.	0.	-18.	8.	0.0	0.	0.0	0.0
125.	365.	420.	0.	-17.	12.	0.0	0.	0.0	0.0
150.	370.	445.	0.	-5.	12.	0.8	40.	0.1	0.1
175.	375.	470.	0.	6.	26.	0.0	0.	0.0	0.0

Line information

Line: LI1300
Number of records : 11.
Channel 1 min: 0.0000000 max: 250.0000
Channel 2 min: 3575.000 max: 3675.000
Channel 3 min: 3360.000 max: 3590.000
Channel 4 min: 60016.00 max: 60065.00

LINE LI1300

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
0.	3575.	3360.	60025.	-15.	-22.	0.0	0.	0.0	0.0
25.	3585.	3383.	60042.	-5.	-17.	0.0	0.	0.0	0.0
50.	3595.	3406.	60044.	5.	-6.	0.0	0.	0.0	0.0
75.	3605.	3429.	60065.	10.	-5.	0.0	0.	0.0	0.0
100.	3615.	3452.	60016.	-10.	-24.	0.0	0.	0.0	0.0
125.	3625.	3475.	60047.	3.	-21.	0.0	0.	0.0	0.0
150.	3635.	3498.	60058.	10.	-17.	0.0	0.	0.0	0.0
175.	3645.	3521.	60057.	-15.	-28.	0.0	0.	0.0	0.0
200.	3655.	3544.	60051.	-5.	-28.	0.0	0.	0.0	0.0
225.	3665.	3567.	60049.	15.	-25.	0.0	0.	0.0	0.0
250.	3675.	3590.	60044.	35.	-18.	0.0	0.	0.0	0.0

Line information

Line: LI1100

Number of records : 12.

Channel 1	min:	0.0000000	max:	275.0000
Channel 2	min:	3435.000	max:	3460.000
Channel 3	min:	3345.000	max:	3615.000
Channel 4	min:	60061.00	max:	60121.00

LINE LI1100

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
0.	3435.	3345.	60066.	-13.	-12.	0.0	0.	0.0	0.0
25.	3437.	3370.	60080.	-4.	-15.	0.0	0.	0.0	0.0
50.	3440.	3394.	60065.	3.	-13.	0.0	0.	0.0	0.0
75.	3442.	3419.	60061.	10.	-8.	0.0	0.	0.0	0.0
100.	3444.	3443.	60077.	10.	-12.	0.0	0.	0.0	0.0
125.	3446.	3468.	60065.	10.	-14.	0.0	0.	0.0	0.0
150.	3449.	3492.	60081.	11.	-13.	0.0	0.	0.0	0.0
175.	3451.	3517.	60073.	17.	-4.	0.0	0.	0.0	0.0
200.	3453.	3541.	60121.	30.	-9.	0.0	0.	0.0	0.0
225.	3455.	3566.	60067.	80.	-6.	0.0	0.	0.0	0.0
250.	3458.	3590.	60078.	32.	-14.	0.0	0.	0.0	0.0
275.	3460.	3615.	60062.	40.	-16.	0.0	0.	0.0	0.0

Line information

Line: LI900
Number of records : 30.
Channel 1 min: 0.0000000 max: 725.0000
Channel 2 min: 3230.000 max: 3315.000
Channel 3 min: 3310.000 max: 4040.000
Channel 4 min: 59246.00 max: 62060.00

LINE LI900

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
0.	3230.	3310.	60239.	33.	4.	0.0	0.	0.0	0.0
25.	3233.	3335.	61569.	28.	4.	0.0	0.	0.0	0.0
50.	3236.	3360.	62060.	20.	1.	0.0	0.	0.0	0.0
75.	3239.	3386.	61924.	23.	0.	0.0	0.	0.0	0.0
100.	3242.	3411.	60695.	22.	0.	0.0	0.	0.0	0.0
125.	3245.	3436.	61373.	20.	-1.	0.0	0.	0.0	0.0
150.	3248.	3461.	61543.	25.	-2.	0.0	0.	0.0	0.0
175.	3251.	3486.	61216.	27.	-3.	0.0	0.	0.0	0.0
200.	3253.	3511.	61318.	26.	-2.	0.0	0.	0.0	0.0
225.	3256.	3537.	61848.	28.	-2.	0.0	0.	0.0	0.0
250.	3259.	3562.	60626.	28.	-5.	0.0	0.	0.0	0.0
275.	3262.	3587.	61332.	27.	-7.	0.0	0.	0.0	0.0
300.	3265.	3612.	59830.	35.	-8.	0.0	0.	0.0	0.0
325.	3268.	3637.	59246.	37.	-8.	0.0	0.	0.0	0.0
350.	3271.	3662.	59976.	35.	-4.	0.0	0.	0.0	0.0
375.	3274.	3688.	59716.	32.	-8.	0.0	0.	0.0	0.0
400.	3277.	3713.	60686.	43.	-16.	0.0	0.	0.0	0.0
425.	3280.	3738.	59838.	10.	-2.	0.0	0.	0.0	0.0
450.	3283.	3763.	59802.	11.	-2.	0.0	0.	0.0	0.0
475.	3286.	3788.	59778.	-60.	-3.	0.0	0.	0.0	0.0
500.	3289.	3813.	60084.	-50.	-3.	0.0	0.	0.0	0.0
525.	3292.	3839.	59749.	-20.	1.	0.0	0.	0.0	0.0
550.	3294.	3864.	59721.	6.	5.	0.0	0.	0.0	0.0
575.	3297.	3889.	59690.	-34.	-4.	0.0	0.	0.0	0.0
600.	3300.	3914.	59812.	-14.	-8.	0.0	0.	0.0	0.0
625.	3303.	3939.	59823.	-14.	-18.	0.0	0.	0.0	0.0
650.	3306.	3964.	59806.	-30.	-25.	0.0	0.	0.0	0.0
675.	3309.	3990.	59848.	32.	-14.	0.0	0.	0.0	0.0
700.	3312.	4015.	59836.	20.	-6.	0.0	0.	0.0	0.0
725.	3315.	4040.	59846.	24.	-7.	0.0	0.	0.0	0.0

Line information

Line: LI700
Number of records : 30.
Channel 1 min: 0.0000000 max: 725.0000
Channel 2 min: 3020.000 max: 3110.000
Channel 3 min: 3285.000 max: 3980.000
Channel 4 min: 59273.00 max: 63940.00

LINE LI700

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
0.	3020.	3285.	61431.	-14.	16.	0.0	0.	0.0	0.0
25.	3023.	3309.	63940.	-10.	12.	0.0	0.	0.0	0.0
50.	3026.	3333.	61530.	-9.	7.	0.0	0.	0.0	0.0
75.	3029.	3357.	59804.	-4.	5.	0.0	0.	0.0	0.0
100.	3032.	3381.	59668.	-4.	4.	0.0	0.	0.0	0.0
125.	3036.	3405.	59273.	5.	6.	0.0	0.	0.0	0.0
150.	3039.	3429.	59646.	-18.	-6.	0.0	0.	0.0	0.0
175.	3042.	3453.	59659.	-20.	-8.	0.0	0.	0.0	0.0
200.	3045.	3477.	59704.	-10.	-8.	0.0	0.	0.0	0.0
225.	3048.	3501.	59746.	-9.	-3.	0.0	0.	0.0	0.0
250.	3051.	3525.	59891.	-3.	-6.	0.0	0.	0.0	0.0
275.	3054.	3549.	59841.	-5.	-6.	0.0	0.	0.0	0.0
300.	3057.	3573.	59886.	-12.	3.	0.0	0.	0.0	0.0
325.	3060.	3597.	59892.	-15.	7.	0.0	0.	0.0	0.0
350.	3063.	3621.	59870.	5.	-4.	0.0	0.	0.0	0.0
375.	3067.	3644.	59880.	15.	0.	0.0	0.	0.0	0.0
400.	3070.	3668.	59900.	20.	1.	0.0	0.	0.0	0.0
425.	3073.	3692.	59828.	27.	-4.	0.0	0.	0.0	0.0
450.	3076.	3716.	59789.	-14.	-2.	0.0	0.	0.0	0.0
475.	3079.	3740.	59868.	-30.	5.	0.0	0.	0.0	0.0
500.	3082.	3764.	60129.	-65.	6.	0.0	0.	0.0	0.0
525.	3085.	3788.	59916.	-55.	3.	0.0	0.	0.0	0.0
550.	3088.	3812.	59854.	-50.	3.	0.0	0.	0.0	0.0
575.	3091.	3836.	60603.	-30.	1.	0.0	0.	0.0	0.0
600.	3094.	3860.	59856.	-27.	2.	0.0	0.	0.0	0.0
625.	3098.	3884.	59832.	-27.	1.	0.0	0.	0.0	0.0
650.	3101.	3908.	59821.	-30.	1.	0.0	0.	0.0	0.0
675.	3104.	3932.	59880.	-25.	-6.	0.0	0.	0.0	0.0
700.	3107.	3956.	59876.	-21.	-9.	0.0	0.	0.0	0.0
725.	3110.	3980.	0.	-5.	-7.	0.0	0.	0.0	0.0

Line information

Line: LI450
Number of records : 22.
Channel 1 min: 0.0000000 max: 525.0000
Channel 2 min: 2710.000 max: 2835.000
Channel 3 min: 3180.000 max: 3700.000
Channel 4 min: 59995.00 max: 61280.00

LINE LI450

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
0.	2710.	3180.	60113.	-62.	28.	0.0	0.	0.0	0.0
25.	2716.	3205.	59995.	-34.	26.	0.0	0.	0.0	0.0
50.	2722.	3230.	60287.	-44.	29.	0.0	0.	0.0	0.0
75.	2728.	3254.	60869.	-20.	24.	0.0	0.	0.0	0.0
100.	2734.	3279.	60659.	-18.	20.	0.0	0.	0.0	0.0
125.	2740.	3304.	60728.	-14.	20.	0.0	0.	0.0	0.0
150.	2746.	3329.	60767.	-10.	-17.	0.0	0.	0.0	0.0
175.	2752.	3353.	60800.	-5.	20.	0.0	0.	0.0	0.0
200.	2758.	3378.	60843.	-4.	18.	0.0	0.	0.0	0.0
225.	2764.	3403.	60783.	2.	22.	0.0	0.	0.0	0.0
250.	2770.	3428.	61280.	-10.	28.	0.0	0.	0.0	0.0
275.	2775.	3452.	0.	11.	22.	0.0	0.	0.0	0.0
300.	2781.	3477.	0.	16.	3.	2.7	56.	0.1	0.1
325.	2787.	3502.	0.	22.	5.	0.0	0.	0.0	0.0
350.	2793.	3527.	0.	19.	6.	0.0	0.	0.0	0.0
375.	2799.	3551.	0.	16.	6.	0.0	0.	0.0	0.0
400.	2805.	3576.	0.	0.	0.	6.0	316.	0.1	0.1
425.	2811.	3601.	0.	10.	3.	0.0	0.	0.0	0.0
450.	2817.	3626.	0.	13.	6.	0.0	0.	0.0	0.0
475.	2823.	3650.	0.	15.	4.	0.0	0.	0.0	0.0
500.	2829.	3675.	0.	11.	2.	4.1	243.	0.1	0.1
525.	2835.	3700.	0.	3.	-1.	0.0	0.	0.0	0.0

Line information

Line: LI175

Number of records : 5.

Channel 1	min:	100.0000	max:	200.0000
Channel 2	min:	2470.000	max:	2495.000
Channel 3	min:	3360.000	max:	3460.000
Channel 4	min:	59773.00	max:	59936.00

LINE LI175

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
100.	2495.	3460.	59936.	-3.	27.	0.0	0.	0.0	0.0
125.	2489.	3435.	59871.	1.	24.	0.0	0.	0.0	0.0
150.	2483.	3410.	59850.	5.	27.	0.0	0.	0.0	0.0
175.	2476.	3385.	59810.	1.	24.	0.0	0.	0.0	0.0
200.	2470.	3360.	59773.	6.	23.	5.0	127.	0.1	0.1

Line information

Line: LI100
Number of records : 6.
Channel 1 min: 0.0000000 max: 125.0000
Channel 2 min: 2305.000 max: 2325.000
Channel 3 min: 3360.000 max: 3460.000
Channel 4 min: 59892.00 max: 60002.00

LINE LI100

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
0.	2305.	3360.	59892.	-49.	27.	0.0	0.	0.0	0.0
25.	2309.	3380.	60002.	-40.	31.	0.0	0.	0.0	0.0
50.	2313.	3400.	59965.	-40.	34.	2.5	167.	0.1	0.1
75.	2317.	3420.	59918.	-30.	31.	0.0	0.	0.0	0.0
100.	2321.	3440.	59918.	-30.	31.	0.0	0.	0.0	0.0
125.	2325.	3460.	59960.	-40.	35.	0.0	0.	0.0	0.0

Line information

Line: GRO
Number of records : 26.
Channel 1 min: 0.0000000 max: 625.0000
Channel 2 min: 2300.000 max: 2375.000
Channel 3 min: 70.00000 max: 735.0000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE GRO

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
0.	2375.	735.	0.	70.	-36.	0.0	0.	0.0	0.0
25.	2372.	708.	0.	80.	-20.	0.0	0.	0.0	0.0
50.	2369.	682.	0.	60.	-22.	0.0	0.	0.0	0.0
75.	2366.	655.	0.	68.	-20.	0.0	0.	0.0	0.0
100.	2363.	629.	0.	45.	-14.	1.3	74.	0.1	0.1
125.	2360.	602.	0.	47.	-16.	0.0	0.	0.0	0.0
150.	2357.	575.	0.	40.	-3.	3.1	132.	0.1	0.1
175.	2354.	549.	0.	38.	-15.	0.0	0.	0.0	0.0
200.	2351.	522.	0.	38.	-15.	0.0	0.	0.0	0.0
225.	2348.	496.	0.	35.	-13.	0.0	0.	0.0	0.0
250.	2345.	469.	0.	30.	-10.	0.0	0.	0.0	0.0
275.	2342.	442.	0.	16.	-16.	0.0	0.	0.0	0.0
300.	2339.	416.	0.	23.	-12.	0.0	0.	0.0	0.0
325.	2336.	389.	0.	20.	-9.	0.0	0.	0.0	0.0
350.	2333.	363.	0.	17.	-9.	3.2	139.	0.1	0.1
375.	2330.	336.	0.	22.	-6.	0.0	0.	0.0	0.0
400.	2327.	309.	0.	18.	-14.	0.0	0.	0.0	0.0
425.	2324.	283.	0.	9.	-30.	0.0	0.	0.0	0.0
450.	2321.	256.	0.	3.	34.	2.5	158.	0.1	0.1
475.	2318.	230.	0.	-2.	8.	0.0	0.	0.0	0.0
500.	2315.	203.	0.	-4.	-2.	1.1	53.	0.1	0.1
525.	2312.	176.	0.	-10.	-6.	0.0	0.	0.0	0.0
550.	2309.	150.	0.	-14.	-2.	0.0	0.	0.0	0.0
575.	2306.	123.	0.	-7.	18.	0.0	0.	0.0	0.0
600.	2303.	97.	0.	-14.	12.	0.0	0.	0.0	0.0
625.	2300.	70.	0.	-20.	12.	0.0	0.	0.0	0.0

Line information

Line: GR3500
Number of records : 4.
Channel 1 min: 0.0000000 max: 75.00000
Channel 2 min: 120.0000 max: 140.0000
Channel 3 min: 315.0000 max: 405.0000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE GR3500

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
0.	120.	405.	0.	-40.	-2.	0.0	0.	0.0	0.0
25.	127.	375.	0.	-45.	12.	0.0	0.	0.0	0.0
50.	133.	345.	0.	-35.	19.	1.3	48.	0.1	0.1
75.	140.	315.	0.	-39.	2.	0.0	0.	0.0	0.0

APPENDIX H

DATA LISTINGS - QUEEN ALEXANDRA MINE

Line information

Line: 300A
Number of records : 13.

Channel 1	min:	0.0000000	max:	300.0000
Channel 2	min:	930.0000	max:	935.0000
Channel 3	min:	1800.000	max:	2060.000
Channel 4	min:	59864.00	max:	598897.0

LINE 300A

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
0.	930.	1800.	0.	0.	0.	0.0	0.	0.0	0.0
25.	931.	1815.	0.	0.	0.	0.0	0.	0.0	0.0
50.	933.	1830.	0.	0.	0.	0.0	0.	0.0	0.0
75.	934.	1845.	0.	0.	0.	0.0	0.	0.0	0.0
100.	935.	1860.	59897.	-24.	-8.	1.6	114.	0.1	0.1
125.	935.	1885.	59943.	-18.	-8.	0.0	0.	0.0	0.0
150.	935.	1910.	59930.	-4.	-1.	0.0	0.	0.0	0.0
175.	935.	1935.	59919.	-2.	2.	0.0	0.	0.0	0.0
200.	935.	1960.	59864.	14.	4.	3.6	137.	0.1	0.4
225.	935.	1985.	59925.	-5.	-3.	0.0	0.	0.0	0.0
250.	935.	2010.	59990.	11.	-1.	0.0	0.	0.0	0.0
275.	935.	2035.	59969.	22.	0.	0.0	0.	0.0	0.0
300.	935.	2060.	59931.	22.	1.	0.0	0.	0.0	0.0

Line information

Line: 100A
Number of records : 33.
Channel 1 min: -200.0000 max: 600.0000
Channel 2 min: 715.0000 max: 720.0000
Channel 3 min: 1550.000 max: 2350.000
Channel 4 min: 59845.00 max: 602260.0

LINE 100A

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
-200.	720.	1550.	59889.	23.	7.	1.3	154.	0.1	0.1
-175.	720.	1575.	59909.	20.	3.	0.0	0.	0.0	0.0
-150.	720.	1600.	59932.	22.	4.	0.0	0.	0.0	0.0
-125.	720.	1625.	59948.	30.	4.	0.0	0.	0.0	0.0
-100.	719.	1650.	59937.	35.	5.	0.0	0.	0.0	0.0
-75.	719.	1675.	60024.	35.	2.	0.0	0.	0.0	0.0
-50.	719.	1700.	60009.	38.	6.	4.0	179.	0.1	0.2
-25.	719.	1725.	60060.	37.	-2.	0.0	0.	0.0	0.0
0.	719.	1750.	60142.	43.	4.	4.6	205.	0.1	0.1
25.	719.	1775.	0.	0.	0.	0.0	0.	0.0	0.0
50.	718.	1800.	0.	0.	0.	0.0	0.	0.0	0.0
75.	718.	1825.	59973.	-37.	0.	0.0	0.	0.0	0.0
100.	718.	1850.	59979.	-25.	-2.	0.0	0.	0.0	0.0
125.	718.	1875.	60002.	-25.	-15.	0.0	0.	0.0	0.0
150.	718.	1900.	59845.	-14.	1.	6.2	70.	0.1	0.4
175.	718.	1925.	59892.	-12.	-2.	0.0	0.	0.0	0.0
200.	718.	1950.	59916.	4.	6.	0.0	0.	0.0	0.0
225.	717.	1975.	59947.	-15.	2.	0.0	0.	0.0	0.0
250.	717.	2000.	59949.	2.	5.	3.8	104.	0.1	0.4
275.	717.	2025.	59906.	2.	5.	0.0	0.	0.0	0.0
300.	717.	2050.	59938.	25.	18.	0.0	0.	0.0	0.0
325.	717.	2075.	59953.	17.	8.	0.0	0.	0.0	0.0
350.	717.	2100.	59984.	17.	3.	0.0	0.	0.0	0.0
375.	716.	2125.	59990.	10.	5.	0.0	0.	0.0	0.0
400.	716.	2150.	60031.	-12.	-2.	0.8	106.	0.1	0.4
425.	716.	2175.	60219.	-18.	-5.	0.0	0.	0.0	0.0
450.	716.	2200.	60260.	-12.	-2.	0.0	0.	0.0	0.0
475.	716.	2225.	60235.	5.	0.	0.0	0.	0.0	0.0
500.	716.	2250.	60439.	-4.	1.	14.0	78.	0.1	0.1
525.	715.	2275.	60195.	-5.	1.	0.0	0.	0.0	0.0
550.	715.	2300.	59995.	3.	3.	0.0	0.	0.0	0.0
575.	715.	2325.	60039.	12.	2.	0.0	0.	0.0	0.0
600.	715.	2350.	60332.	10.	5.	2.8	179.	0.1	0.1

Line information

Line: 100AW
Number of records : 21.
Channel 1 min: -200.0000 max: 300.0000
Channel 2 min: 520.0000 max: 525.0000
Channel 3 min: 1550.000 max: 2050.000
Channel 4 min: -0.1000000E-29 max: 60127.00

LINE 100AW

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
-200.	525.	1550.	59979.	34.	9.	2.1	176.	0.1	0.2
-175.	525.	1575.	60046.	35.	13.	0.0	0.	0.0	0.0
-150.	525.	1600.	0.	0.	0.	0.0	0.	0.0	0.0
-125.	524.	1625.	0.	0.	0.	0.0	0.	0.0	0.0
-100.	524.	1650.	0.	0.	0.	0.0	0.	0.0	0.0
-75.	524.	1675.	0.	0.	0.	0.0	0.	0.0	0.0
-50.	524.	1700.	0.	0.	0.	0.0	0.	0.0	0.0
-25.	523.	1725.	0.	0.	0.	0.0	0.	0.0	0.0
0.	523.	1750.	60127.	45.	13.	1.0	100.	0.1	0.2
25.	523.	1775.	60079.	55.	8.	0.0	0.	0.0	0.0
50.	523.	1800.	60052.	22.	2.	2.0	117.	0.1	0.2
75.	522.	1825.	60021.	-12.	1.	0.0	0.	0.0	0.0
100.	522.	1850.	59998.	-24.	5.	0.0	0.	0.0	0.0
125.	522.	1875.	59943.	-35.	-1.	0.0	0.	0.0	0.0
150.	522.	1900.	59904.	-60.	2.	4.2	143.	0.1	0.2
175.	521.	1925.	59920.	30.	-1.	0.0	0.	0.0	0.0
200.	521.	1950.	59926.	28.	-3.	0.0	0.	0.0	0.0
225.	521.	1975.	59980.	27.	-2.	0.0	0.	0.0	0.0
250.	521.	2000.	59935.	17.	8.	3.1	120.	0.1	1.4
275.	520.	2025.	59975.	-5.	6.	0.0	0.	0.0	0.0
300.	520.	2050.	60002.	-6.	10.	0.0	0.	0.0	0.0

Line information

Line: 300AW
Number of records : 21.
Channel 1 min: -200.0000 max: 300.0000
Channel 2 min: 315.0000 max: 325.0000
Channel 3 min: 1545.000 max: 2025.000
Channel 4 min: -0.1000000E-29 max: 61305.00

LINE 300AW

STATION	X-COORD	Y-COORD	MAGNETIC DIF	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
-200.	325.	1545.	0.	0.	25.	0.0	0.	0.0	0.0
-175.	325.	1569.	59933.	30.	13.	0.0	0.	0.0	0.0
-150.	324.	1593.	59938.	51.	23.	1.2	158.	0.1	0.1
-125.	324.	1617.	59947.	50.	23.	0.0	0.	0.0	0.0
-100.	323.	1641.	59977.	35.	11.	0.0	0.	0.0	0.0
-75.	323.	1665.	59979.	3.	8.	0.0	0.	0.0	0.0
-50.	322.	1689.	59980.	13.	7.	2.1	211.	0.1	0.1
-25.	322.	1713.	59972.	-28.	-2.	0.0	0.	0.0	0.0
0.	321.	1737.	59974.	-35.	-2.	2.0	224.	0.1	0.1
25.	321.	1761.	59943.	-45.	1.	0.0	0.	0.0	0.0
50.	320.	1785.	59980.	-35.	0.	3.4	211.	0.1	0.2
75.	320.	1809.	59968.	-24.	2.	0.0	0.	0.0	0.0
100.	319.	1833.	59979.	-15.	6.	0.0	0.	0.0	0.0
125.	319.	1857.	59982.	-15.	5.	0.0	0.	0.0	0.0
150.	318.	1881.	59925.	-9.	8.	3.2	173.	0.1	0.1
175.	318.	1905.	59917.	-16.	4.	0.0	0.	0.0	0.0
200.	317.	1929.	60213.	-13.	4.	0.0	0.	0.0	0.0
225.	317.	1953.	61082.	-10.	8.	0.0	0.	0.0	0.0
250.	316.	1977.	61305.	-14.	1.	4.6	164.	0.1	0.4
275.	316.	2001.	59922.	19.	-4.	0.0	0.	0.0	0.0
300.	315.	2025.	60378.	0.	0.	0.0	0.	0.0	0.0

Line Information

Line: 500AW
Number of records : 12.
Channel 1 min: -200.0000 max: 75.00000
Channel 2 min: 120.0000 max: 120.0000
Channel 3 min: 1550.000 max: 1825.000
Channel 4 min: 59705.00 max: 60105.00

LINE 500AW

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
-200.	120.	1550.	59885.	-18.	16.	3.0	148.	0.1	0.1
-175.	120.	1575.	59902.	-17.	-12.	0.0	0.	0.0	0.0
-150.	120.	1600.	59914.	-15.	12.	3.2	85.	0.1	0.4
-125.	120.	1625.	59911.	-14.	-13.	0.0	0.	0.0	0.0
-100.	120.	1650.	59928.	-10.	12.	0.0	0.	0.0	0.0
-75.	120.	1675.	59928.	-7.	13.	0.0	0.	0.0	0.0
-50.	120.	1700.	59918.	-4.	14.	1.8	134.	0.1	0.2
-25.	120.	1725.	59936.	3.	16.	0.0	0.	0.0	0.0
0.	120.	1750.	59937.	-4.	12.	0.0	0.	0.0	0.0
25.	120.	1775.	60026.	-4.	14.	0.0	0.	0.0	0.0
50.	120.	1800.	60105.	2.	14.	2.7	123.	0.1	0.1
75.	120.	1825.	59705.	15.	20.	0.0	0.	0.0	0.0

%Line information%

Line: 0B
Number of records : 13.

Channel 1	min:	0.0000000	max:	300.0000
Channel 2	min:	200.0000	max:	230.0000
Channel 3	min:	920.0000	max:	1220.000
Channel 4	min:	59826.00	max:	60009.00

LINE 0B

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
0.	200.	920.	59926.	-28.	7.	3.6	128.	0.1	0.1
25.	203.	945.	60009.	-5.	12.	0.0	0.	0.0	0.0
50.	205.	970.	59938.	15.	14.	3.0	152.	0.1	0.1
75.	208.	995.	59994.	27.	15.	0.0	0.	0.0	0.0
100.	210.	1020.	59904.	27.	10.	0.0	0.	0.0	0.0
125.	213.	1045.	59902.	23.	8.	0.0	0.	0.0	0.0
150.	215.	1070.	59865.	-35.	7.	2.6	120.	0.1	0.1
175.	218.	1095.	59955.	-25.	8.	0.0	0.	0.0	0.0
200.	220.	1120.	59890.	-15.	14.	0.0	0.	0.0	0.0
225.	223.	1145.	59880.	-3.	18.	0.0	0.	0.0	0.0
250.	225.	1170.	59861.	2.	16.	2.8	211.	0.1	0.1
275.	228.	1195.	59871.	8.	15.	0.0	0.	0.0	0.0
300.	230.	1220.	59826.	25.	17.	0.0	0.	0.0	0.0

Line information

Line: 100B
Number of records : 14.

Channel 1	min:	-25.00000	max:	300.0000
Channel 2	min:	305.0000	max:	310.0000
Channel 3	min:	825.0000	max:	1150.000
Channel 4	min:	59845.00	max:	59991.00

LINE 100B

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppb
-25.	305.	825.	59878.	10.	16.	8.6	88.	0.0	0.0
0.	305.	850.	59937.	15.	14.	0.0	0.	0.1	0.1
25.	306.	875.	59902.	8.	6.	4.0	263.	0.0	0.0
50.	306.	900.	59991.	23.	10.	0.0	0.	0.1	0.1
75.	307.	925.	59980.	25.	12.	0.0	0.	0.0	0.0
100.	307.	950.	59980.	25.	12.	0.0	0.	0.0	0.0
125.	307.	975.	59884.	-35.	7.	4.6	104.	0.0	0.0
150.	308.	1000.	59885.	-19.	15.	0.0	0.	0.1	0.4
175.	308.	1025.	59928.	-14.	16.	0.0	0.	0.0	0.0
200.	308.	1050.	59868.	-11.	16.	0.0	0.	0.0	0.0
225.	309.	1075.	59873.	-3.	15.	4.0	158.	0.0	0.0
250.	309.	1100.	59919.	-3.	10.	0.0	0.	0.1	0.4
275.	310.	1125.	59845.	-8.	4.	0.0	0.	0.0	0.0
300.	310.	1150.	59867.	-7.	7.	0.0	0.	0.0	0.0

Line information

Line: 200B
Number of records : 15.

Channel 1	min:	-25.00000	max:	325.0000
Channel 2	min:	400.0000	max:	410.0000
Channel 3	min:	810.0000	max:	1135.000
Channel 4	min:	59859.00	max:	59947.00

LINE 200B

STATION	X-COORD	Y-COORD	MAGNETIC	DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
-25.	410.	1135.	59936.	12.	0.	0.0	0.	0.0	0.0
0.	409.	1112.	59906.	3.	6.	1.9	158.	0.1	0.4
25.	409.	1089.	59879.	-11.	8.	0.0	0.	0.0	0.0
50.	408.	1065.	59886.	-3.	12.	0.0	0.	0.0	0.0
75.	407.	1042.	59865.	-5.	14.	0.0	0.	0.0	0.0
100.	406.	1019.	59947.	-10.	8.	0.0	0.	0.0	0.0
125.	406.	996.	59877.	-9.	14.	0.0	0.	0.0	0.0
150.	405.	973.	59924.	-13.	15.	5.8	96.	0.6	0.1
175.	404.	949.	59905.	-13.	12.	0.0	0.	0.0	0.0
200.	404.	926.	59925.	-16.	12.	0.0	0.	0.0	0.0
225.	403.	903.	59859.	-25.	11.	0.0	0.	0.0	0.0
250.	402.	880.	59859.	-25.	-11.	2.3	211.	0.1	0.1
275.	401.	856.	59871.	-20.	4.	0.0	0.	0.0	0.0
300.	401.	833.	59909.	-35.	8.	0.0	0.	0.0	0.0
325.	400.	810.	59867.	20.	11.	0.0	0.	0.0	0.0

Line information

Line: 300E
Number of records : 15.
Channel 1 min: -50.00000 max: 300.0000
Channel 2 min: 500.0000 max: 510.0000
Channel 3 min: 750.0000 max: 1100.000
Channel 4 min: 59812.00 max: 60031.00

LINE 300E

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
-50.	500.	750.	59920.	55.	8.	2.1	96.	0.1	0.1
-25.	501.	775.	59904.	43.	16.	0.0	0.	0.0	0.0
0.	501.	800.	59894.	30.	8.	1.2	120.	0.1	0.1
25.	502.	825.	59870.	-20.	13.	0.0	0.	0.0	0.0
50.	503.	850.	59942.	-14.	14.	0.0	0.	0.0	0.0
75.	504.	875.	60031.	-15.	17.	0.0	0.	0.0	0.0
100.	504.	900.	59937.	-11.	18.	3.2	228.	0.1	0.1
125.	505.	925.	60005.	-10.	16.	0.0	0.	0.0	0.0
150.	506.	950.	59873.	-5.	16.	0.0	0.	0.0	0.0
175.	506.	975.	59870.	-5.	14.	0.0	0.	0.0	0.0
200.	507.	1000.	59881.	-2.	13.	2.7	128.	0.1	0.2
225.	508.	1025.	59812.	-4.	15.	0.0	0.	0.0	0.0
250.	509.	1050.	59885.	-3.	12.	0.0	0.	0.0	0.0
275.	509.	1075.	59895.	5.	12.	0.0	0.	0.0	0.0
300.	510.	1100.	59986.	-10.	12.	2.1	120.	0.1	0.1

Line information

Line: 400E
Number of records : 13.

Channel 1	min:	0.0000000	max:	300.0000
Channel 2	min:	610.0000	max:	610.0000
Channel 3	min:	785.0000	max:	1085.000
Channel 4	min:	59819.00	max:	60650.00

LINE 400E

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
0.	610.	785.	0.	0.	0.	0.0	0.	0.0	0.0
25.	610.	810.	60549.	-25.	10.	1.3	99.	0.1	0.1
50.	610.	835.	59937.	-31.	10.	0.0	0.	0.0	0.0
75.	610.	860.	59942.	-18.	20.	0.0	0.	0.0	0.0
100.	610.	885.	59881.	-16.	18.	1.6	50.	0.1	0.1
125.	610.	910.	60650.	-10.	16.	0.0	0.	0.0	0.0
150.	610.	935.	60190.	10.	20.	0.0	0.	0.0	0.0
175.	610.	960.	59880.	5.	13.	0.0	0.	0.0	0.0
200.	610.	985.	59819.	-5.	14.	1.1	102.	0.1	0.1
225.	610.	1010.	60210.	6.	13.	0.0	0.	0.0	0.0
250.	610.	1035.	60002.	10.	14.	0.0	0.	0.0	0.0
275.	610.	1060.	60145.	16.	17.	0.0	0.	0.0	0.0
300.	610.	1085.	60413.	17.	14.	1.6	59.	0.1	0.1

Line information

Line: 500E
Number of records : 13.

Channel 1	min:	0.0000000	max:	300.0000
Channel 2	min:	700.0000	max:	715.0000
Channel 3	min:	885.0000	max:	1180.000
Channel 4	min:	59833.00	max:	60270.00

LINE 500E

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppb
0.	715.	1180.	0.	0.	0.	1.1	140.	0.1	0.1
25.	714.	1155.	0.	0.	0.	0.0	0.	0.0	0.0
50.	713.	1131.	0.	0.	0.	0.0	0.	0.0	0.0
75.	711.	1106.	59960.	37.	22.	0.0	0.	0.0	0.0
100.	710.	1082.	59895.	30.	22.	1.6	47.	0.1	0.1
125.	709.	1057.	59861.	20.	21.	0.0	0.	0.0	0.0
150.	708.	1033.	59833.	10.	17.	0.0	0.	0.0	0.0
175.	706.	1008.	60270.	2.	14.	0.0	0.	0.0	0.0
200.	705.	983.	59898.	-5.	17.	1.1	96.	0.1	0.1
225.	704.	959.	59878.	-10.	20.	0.0	0.	0.0	0.0
250.	703.	934.	59887.	-17.	12.	0.0	0.	0.0	0.0
275.	701.	910.	59889.	-19.	14.	0.0	0.	0.0	0.0
300.	700.	885.	60054.	-20.	17.	0.0	0.	0.0	0.0

Line information

Line: 0B
Number of records : 21.
Channel 1 min: 100.0000 max: 600.0000
Channel 2 min: 2750.000 max: 2860.000
Channel 3 min: 1990.000 max: 2550.000
Channel 4 min: 59839.00 max: 60042.00

LINE 0B

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppb
100.	2765.	2465.	59839.	-15.	1.	0.5	57.	0.1	0.1
125.	2770.	2441.	59939.	-4.	1.	0.0	0.	0.0	0.0
150.	2775.	2418.	59885.	-7.	4.	0.0	0.	0.0	0.0
175.	2779.	2394.	59885.	-3.	2.	0.0	0.	0.0	0.0
200.	2784.	2370.	59897.	-7.	3.	0.0	0.	0.0	0.0
225.	2789.	2346.	59920.	-2.	2.	0.0	0.	0.0	0.0
250.	2794.	2323.	59912.	8.	3.	0.0	0.	0.0	0.0
275.	2798.	2299.	59977.	17.	6.	0.0	0.	0.0	0.0
300.	2803.	2275.	60042.	-4.	16.	1.9	30.	0.1	0.1
325.	2808.	2251.	59934.	-8.	3.	0.0	0.	0.0	0.0
350.	2812.	2228.	59977.	-6.	1.	0.0	0.	0.0	0.0
375.	2817.	2204.	59952.	-6.	1.	0.0	0.	0.0	0.0
400.	2822.	2180.	59902.	-11.	4.	0.0	0.	0.0	0.0
425.	2827.	2156.	59897.	-11.	0.	0.0	0.	0.0	0.0
450.	2832.	2133.	59871.	-6.	-3.	0.0	0.	0.0	0.0
475.	2836.	2109.	59922.	-7.	1.	0.0	0.	0.0	0.0
500.	2841.	2085.	59877.	-6.	0.	0.1	60.	0.1	0.1
525.	2846.	2061.	59903.	-24.	-5.	0.0	0.	0.0	0.0
550.	2851.	2038.	59941.	-15.	-7.	0.0	0.	0.0	0.0
575.	2855.	2014.	59935.	-18.	4.	0.0	0.	0.0	0.0
600.	2860.	1990.	59960.	-15.	0.	0.0	0.	0.0	0.0

%Line Information%

Line: 100DW
Number of records : 25.

Channel 1	min:	0.0000000	max:	600.0000
Channel 2	min:	2635.000	max:	2765.000
Channel 3	min:	1960.000	max:	2550.000
Channel 4	min:	59867.00	max:	60140.00

LINE 100DW

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
0.	2645.	2540.	59891.	11.	-3.	1.9	83.	0.1	0.1
25.	2650.	2516.	59880.	5.	-4.	0.0	0.	0.0	0.0
50.	2655.	2492.	59890.	5.	-1.	0.0	0.	0.0	0.0
75.	2660.	2468.	59913.	8.	-3.	0.0	0.	0.0	0.0
100.	2665.	2443.	59908.	-3.	0.	0.0	0.	0.0	0.0
125.	2670.	2419.	59954.	-10.	-3.	0.0	0.	0.0	0.0
150.	2675.	2395.	60140.	7.	1.	0.0	0.	0.0	0.0
175.	2680.	2371.	59942.	5.	5.	0.0	0.	0.0	0.0
200.	2685.	2347.	59910.	9.	5.	2.8	210.	0.1	0.1
225.	2690.	2323.	59921.	9.	3.	0.0	0.	0.0	0.0
250.	2695.	2298.	59893.	10.	4.	0.0	0.	0.0	0.0
275.	2700.	2274.	59867.	10.	4.	0.0	0.	0.0	0.0
300.	2705.	2250.	59918.	28.	6.	0.0	0.	0.0	0.0
325.	2710.	2226.	59883.	25.	11.	0.0	0.	0.0	0.0
350.	2715.	2202.	59907.	33.	4.	0.0	0.	0.0	0.0
375.	2720.	2178.	59904.	30.	8.	0.0	0.	0.0	0.0
400.	2725.	2153.	59936.	35.	4.	5.2	268.	0.1	0.8
425.	2730.	2129.	59886.	32.	7.	0.0	0.	0.0	0.0
450.	2735.	2105.	59906.	30.	6.	0.0	0.	0.0	0.0
475.	2740.	2081.	59975.	42.	8.	0.0	0.	0.0	0.0
500.	2745.	2057.	60097.	35.	4.	0.0	0.	0.0	0.0
525.	2750.	2033.	59923.	34.	3.	0.0	0.	0.0	0.0
550.	2755.	2008.	59965.	30.	2.	0.0	0.	0.0	0.0
575.	2760.	1984.	59953.	32.	6.	0.0	0.	0.0	0.0
600.	2765.	1960.	59911.	30.	4.	3.1	96.	0.1	0.1

Line information

Line: 200DW
Number of records : 9.
Channel 1 min: 0.0000000 max: 200.0000
Channel 2 min: 2620.000 max: 2670.000
Channel 3 min: 1940.000 max: 2140.000
Channel 4 min: 59852.00 max: 59995.00

LINE 200DW

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
0.	2625.	2130.	59890.	-15.	-2.	1.8	132.	0.1	0.1
25.	2631.	2106.	59875.	-12.	3.	0.0	0.	0.0	0.0
50.	2636.	2083.	59995.	-15.	-4.	0.0	0.	0.0	0.0
75.	2642.	2059.	59902.	-18.	-4.	0.0	0.	0.0	0.0
100.	2648.	2035.	59876.	-10.	-1.	0.0	0.	0.0	0.0
125.	2653.	2011.	59875.	-3.	1.	0.0	0.	0.0	0.0
150.	2659.	1988.	59891.	2.	6.	2.7	142.	0.1	0.1
175.	2664.	1964.	59871.	7.	6.	0.0	0.	0.0	0.0
200.	2670.	1940.	59852.	5.	2.	0.0	0.	0.0	0.0

Line information

Line: 300DW
Number of records : 7.
Channel 1 min: 0.0000000 max: 150.0000
Channel 2 min: 2535.000 max: 2570.000
Channel 3 min: 1920.000 max: 2055.000
Channel 4 min: 59850.00 max: 60202.00

LINE 300DW

STATION	X-COORD	Y-COORD	MAGNETIC	DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
0.	2535.	2055.	59850.	-30.	-13.	1.4	77.	0.1	0.1
25.	2541.	2033.	59918.	14.	-4.	0.0	0.	0.0	0.0
50.	2547.	2010.	60202.	3.	0.	0.0	0.	0.0	0.0
75.	2553.	1988.	59875.	3.	-2.	0.0	0.	0.0	0.0
100.	2558.	1965.	59890.	5.	1.	4.0	229.	0.1	0.1
125.	2564.	1943.	59857.	8.	1.	0.0	0.	0.0	0.0
150.	2570.	1920.	59896.	5.	3.	3.1	120.	0.1	0.1

%Line information%

Line: 400DW
Number of records : 5.

Channel 1	min:	0.0000000	max:	100.0000
Channel 2	min:	2450.000	max:	2470.000
Channel 3	min:	1900.000	max:	2000.000
Channel 4	min:	59863.00	max:	60112.00

LINE 400DW

STATION	X-COORD	Y-COORD	MAGNETIC	DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
0.	2450.	2000.	60003.	-10.	-14.	3.7	161.	0.1	0.1
25.	2455.	1975.	59958.	-13.	-10.	0.0	0.	0.0	0.0
50.	2460.	1950.	60112.	3.	-3.	2.6	165.	0.1	0.1
75.	2465.	1925.	59863.	10.	-2.	0.0	0.	0.0	0.0
100.	2470.	1900.	59885.	15.	0.	3.7	158.	0.1	0.1

%Line information%

Line: 900E
Number of records : 25.

Channel 1	min:	-300.0000	max:	300.0000
Channel 2	min:	5440.000	max:	5520.000
Channel 3	min:	1150.000	max:	1750.000
Channel 4	min:	59823.00	max:	62664.00

LINE 900E

STATION	X-COORD	Y-COORD	MAGNETIC	DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppb
-300.	5520.	1150.	59894.	-35.	21.	0.0	0.	0.0	0.0
-275.	5517.	1175.	59897.	-25.	18.	0.0	0.	0.0	0.0
-250.	5513.	1200.	59909.	-22.	19.	4.6	189.	0.1	0.1
-225.	5510.	1225.	59908.	-14.	22.	0.0	0.	0.0	0.0
-200.	5507.	1250.	59925.	5.	23.	0.0	0.	0.0	0.0
-175.	5503.	1275.	59910.	-22.	14.	0.0	0.	0.0	0.0
-150.	5500.	1300.	59899.	-20.	16.	3.6	117.	0.1	0.1
-125.	5497.	1325.	59941.	-18.	12.	0.0	0.	0.0	0.0
-100.	5493.	1350.	59944.	-20.	9.	0.0	0.	0.0	0.0
-75.	5490.	1375.	59957.	-5.	-21.	0.0	0.	0.0	0.0
-50.	5487.	1400.	59981.	5.	22.	6.0	175.	0.1	0.1
-25.	5483.	1425.	60012.	-45.	3.	0.0	0.	0.0	0.0
0.	5480.	1450.	59906.	-24.	-4.	3.4	182.	0.1	0.1
25.	5477.	1475.	62664.	-13.	8.	0.0	0.	0.0	0.0
50.	5473.	1500.	60166.	-6.	10.	5.8	145.	0.1	0.1
75.	5470.	1525.	59823.	5.	9.	0.0	0.	0.0	0.0
100.	5467.	1550.	59880.	15.	10.	0.0	0.	0.0	0.0
125.	5463.	1575.	60010.	28.	14.	0.0	0.	0.0	0.0
150.	5460.	1600.	59847.	10.	2.	9.4	114.	0.2	0.1
175.	5457.	1625.	59909.	15.	1.	0.0	0.	0.0	0.0
200.	5453.	1650.	59876.	-65.	-20.	0.0	0.	0.0	0.0
225.	5450.	1675.	59825.	-55.	-20.	0.0	0.	0.0	0.0
250.	5447.	1700.	59881.	-35.	-25.	3.4	196.	0.1	0.1
275.	5443.	1725.	59903.	-5.	-12.	0.0	0.	0.0	0.0
300.	5440.	1750.	59842.	10.	-2.	0.0	0.	0.0	0.0

%Line Information%

Line: 700E
Number of records : 25.

Channel 1	min:	-300.0000	max:	300.0000
Channel 2	min:	5245.000	max:	5320.000
Channel 3	min:	1135.000	max:	1730.000
Channel 4	min:	59791.00	max:	62347.00

LINE 700E

STATION	X-COORD	Y-COORD	MAGNETIC	DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppb
-300.	5320.	1135.	59926.	-64.	3.	0.0	0.	0.0	0.0
-275.	5317.	1160.	60067.	-42.	12.	0.0	0.	0.0	0.0
-250.	5314.	1185.	59907.	-24.	20.	1.8	99.	0.1	0.1
-225.	5311.	1209.	59913.	-34.	16.	0.0	0.	0.0	0.0
-200.	5308.	1234.	59877.	-40.	-3.	0.0	0.	0.0	0.0
-175.	5304.	1259.	59908.	-87.	1.	0.0	0.	0.0	0.0
-150.	5301.	1284.	59889.	43.	13.	2.8	120.	0.1	0.1
-125.	5298.	1309.	59942.	24.	17.	0.0	0.	0.0	0.0
-100.	5295.	1333.	59975.	3.	17.	0.0	0.	0.0	0.0
-75.	5292.	1358.	60027.	20.	17.	0.0	0.	0.0	0.0
-50.	5289.	1383.	60110.	12.	14.	2.5	145.	0.1	0.1
-25.	5286.	1408.	60379.	-16.	1.	0.0	0.	0.0	0.0
0.	5283.	1433.	62347.	8.	14.	1.3	132.	0.1	0.1
25.	5279.	1457.	59978.	15.	10.	0.0	0.	0.0	0.0
50.	5276.	1482.	59840.	5.	6.	0.0	0.	0.0	0.0
75.	5273.	1507.	59861.	-10.	-2.	0.0	0.	0.0	0.0
100.	5270.	1532.	59870.	-10.	-8.	2.1	192.	0.1	0.1
125.	5267.	1556.	60234.	5.	-4.	0.0	0.	0.0	0.0
150.	5264.	1581.	59843.	28.	3.	0.0	0.	0.0	0.0
175.	5261.	1606.	60088.	35.	10.	0.0	0.	0.0	0.0
200.	5258.	1631.	60009.	15.	-3.	2.7	178.	0.1	0.1
225.	5254.	1656.	59835.	21.	-1.	0.0	0.	0.0	0.0
250.	5251.	1680.	59791.	-7.	-3.	0.0	0.	0.0	0.0
275.	5248.	1705.	59873.	-15.	-10.	0.0	0.	0.0	0.0
300.	5245.	1730.	59831.	0.	0.	1.2	51.	0.1	0.1

Line information

Line: 500F
Number of records : 25.
Channel 1 min: -300.0000 max: 300.0000
Channel 2 min: 5050.000 max: 5125.000
Channel 3 min: 1110.000 max: 1700.000
Channel 4 min: 59737.00 max: 60637.00

LINE 500F

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppb
-300.	5125.	1110.	60244.	-5.	15.	1.5	135.	0.1	0.1
-275.	5122.	1135.	59920.	-40.	10.	0.0	0.	0.0	0.0
-250.	5119.	1159.	59875.	-21.	18.	0.0	0.	0.0	0.0
-225.	5116.	1184.	59936.	-20.	22.	0.0	0.	0.0	0.0
-200.	5113.	1208.	59950.	-15.	22.	2.1	123.	0.1	0.1
-175.	5109.	1233.	59921.	-12.	26.	0.0	0.	0.0	0.0
-150.	5106.	1258.	59970.	-10.	16.	0.0	0.	0.0	0.0
-125.	5103.	1282.	59981.	10.	32.	0.0	0.	0.0	0.0
-100.	5100.	1307.	60012.	5.	22.	0.0	0.	0.0	0.0
-75.	5097.	1331.	0.	0.	0.	0.0	0.	0.0	0.0
-50.	5094.	1356.	60109.	-4.	16.	4.1	139.	0.1	0.1
-25.	5091.	1380.	60423.	8.	25.	0.0	0.	0.0	0.0
0.	5088.	1405.	60637.	7.	18.	3.4	155.	0.1	0.1
25.	5084.	1430.	59794.	13.	14.	0.0	0.	0.0	0.0
50.	5081.	1454.	59737.	10.	16.	0.0	0.	0.0	0.0
75.	5078.	1479.	59786.	14.	17.	0.0	0.	0.0	0.0
100.	5075.	1503.	59845.	5.	4.	2.3	94.	0.1	0.1
125.	5072.	1528.	60005.	8.	3.	0.0	0.	0.0	0.0
150.	5069.	1553.	59845.	17.	9.	0.0	0.	0.0	0.0
175.	5066.	1577.	59798.	5.	10.	0.0	0.	0.0	0.0
200.	5063.	1602.	59878.	35.	6.	2.3	105.	0.1	0.1
225.	5059.	1626.	60175.	30.	-2.	0.0	0.	0.0	0.0
250.	5056.	1651.	59868.	25.	-5.	0.0	0.	0.0	0.0
275.	5053.	1675.	59877.	7.	-5.	0.0	0.	0.0	0.0
300.	5050.	1700.	59880.	-1.	-3.	1.8	132.	0.1	0.1

%Line information%

Line: 300F
Number of records : 13.

Channel 1	min:	-200.0000	max:	100.0000
Channel 2	min:	4875.000	max:	4910.000
Channel 3	min:	1180.000	max:	1480.000
Channel 4	min:	59412.00	max:	63560.00

LINE 300F

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
-200.	4910.	1180.	59921.	-35.	-6.	0.0	0.	0.0	0.0
-175.	4907.	1205.	59805.	-24.	1.	0.0	0.	0.0	0.0
-150.	4904.	1230.	59412.	-25.	12.	4.0	210.	0.1	0.1
-125.	4901.	1255.	63560.	-25.	16.	0.0	0.	0.0	0.0
-100.	4898.	1280.	61050.	-25.	10.	0.0	0.	0.0	0.0
-75.	4895.	1305.	60234.	-10.	13.	0.0	0.	0.0	0.0
-50.	4893.	1330.	60862.	-5.	15.	3.1	229.	0.1	0.1
-25.	4890.	1355.	59584.	-1.	14.	0.0	0.	0.0	0.0
0.	4887.	1380.	59729.	-4.	14.	1.7	210.	0.1	0.1
25.	4884.	1405.	59761.	-2.	4.	0.0	0.	0.0	0.0
50.	4881.	1430.	59802.	2.	8.	3.6	268.	0.1	0.1
75.	4878.	1455.	59817.	7.	4.	0.0	0.	0.0	0.0
100.	4875.	1480.	59841.	8.	16.	2.0	96.	0.1	0.1

Line Information

Line: 100F
Number of records : 9.

Channel 1	min:	100.0000	max:	100.0000
Channel 2	min:	4675.000	max:	4700.000
Channel 3	min:	1260.000	max:	1455.000
Channel 4	min:	59728.00	max:	62500.00

LINE 100F

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
-100.	4700.	1260.	59889.	-37.	13.	2.3	151.	0.1	0.1
-75.	4697.	1284.	60088.	-24.	12.	0.0	0.	0.0	0.0
-50.	4694.	1309.	62500.	-27.	14.	2.1	120.	0.1	0.1
-25.	4691.	1333.	59966.	-22.	17.	0.0	0.	0.0	0.0
0.	4687.	1358.	59885.	-20.	15.	6.7	161.	0.1	0.1
25.	4684.	1382.	59728.	-15.	-13.	0.0	0.	0.0	0.0
50.	4681.	1406.	59885.	-9.	11.	2.4	88.	0.1	0.1
75.	4678.	1431.	59835.	-3.	10.	0.0	0.	0.0	0.0
100.	4675.	1455.	59835.	10.	8.	3.1	135.	0.1	0.1

Line information

Line: 0W
Number of records : 27.

Channel 1	min:	-200.0000	max:	450.0000
Channel 2	min:	2365.000	max:	2430.000
Channel 3	min:	815.0000	max:	1440.000
Channel 4	min:	59731.00	max:	60469.00

LINE 0W

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
-200.	2430.	815.	60035.	66.	3.	6.5	185.	0.1	0.1
-175.	2428.	839.	60027.	55.	6.	0.0	0.	0.0	0.0
-150.	2425.	863.	60016.	52.	4.	4.4	160.	0.1	0.1
-125.	2423.	887.	60023.	11.	-3.	0.0	0.	0.0	0.0
-100.	2420.	911.	59931.	-13.	-9.	0.0	0.	0.0	0.0
-75.	2418.	935.	59831.	5.	-4.	0.0	0.	0.0	0.0
-50.	2415.	959.	59731.	2.	0.	4.9	126.	0.1	0.1
-25.	2413.	983.	59897.	6.	3.	0.0	0.	0.0	0.0
0.	2410.	1007.	59937.	18.	17.	0.0	0.	0.0	0.0
25.	2408.	1031.	59939.	55.	30.	0.0	0.	0.0	0.0
50.	2405.	1055.	59962.	47.	5.	7.8	98.	0.1	0.1
75.	2403.	1079.	59952.	22.	0.	0.0	0.	0.0	0.0
100.	2400.	1103.	59955.	40.	7.	0.0	0.	0.0	0.0
125.	2398.	1128.	60298.	45.	10.	0.0	0.	0.0	0.0
150.	2395.	1152.	60469.	65.	18.	8.3	56.	0.1	0.1
175.	2393.	1176.	60165.	50.	9.	0.0	0.	0.0	0.0
200.	2390.	1200.	59939.	-11.	-3.	0.0	0.	0.0	0.0
225.	2388.	1224.	60229.	-2.	-4.	0.0	0.	0.0	0.0
250.	2385.	1248.	59917.	-5.	-8.	2.0	152.	0.1	0.1
275.	2383.	1272.	59860.	16.	4.	0.0	0.	0.0	0.0
300.	2380.	1296.	0.	0.	0.	0.0	0.	0.0	0.0
325.	2378.	1320.	0.	0.	0.	0.0	0.	0.0	0.0
350.	2375.	1344.	0.	0.	0.	6.7	63.	0.1	0.4
375.	2373.	1368.	0.	0.	0.	0.0	0.	0.0	0.0
400.	2370.	1392.	0.	0.	0.	0.0	0.	0.0	0.0
425.	2368.	1416.	0.	0.	0.	0.0	0.	0.0	0.0
450.	2365.	1440.	0.	0.	0.	2.8	179.	0.1	0.1

Line information

Line: 200WW
Number of records : 18.

Channel 1	min:	-200.0000	max:	225.0000
Channel 2	min:	2180.000	max:	2225.000
Channel 3	min:	785.0000	max:	1205.000
Channel 4	min:	59824.00	max:	61973.00

LINE 200WW

STATION	X-COORD	Y-COORD	MAGNETIC DIF	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
-200.	2225.	785.	60030.	15.	8.	4.4	77.	0.1	0.2
-175.	2222.	810.	60118.	2.	1.	0.0	0.	0.0	0.0
-150.	2220.	834.	60128.	-30.	-13.	4.0	69.	0.1	0.1
-125.	2217.	859.	60468.	-12.	-2.	0.0	0.	0.0	0.0
-100.	2214.	884.	61973.	-8.	-3.	0.0	0.	0.0	0.0
-75.	2212.	909.	61885.	5.	10.	0.0	0.	0.0	0.0
-50.	2209.	933.	59868.	-16.	-7.	5.1	182.	0.1	0.2
-25.	2206.	958.	59824.	-1.	0.	0.0	0.	0.0	0.0
0.	2204.	983.	60060.	-3.	1.	0.0	0.	0.0	0.0
25.	2201.	1007.	59864.	-2.	1.	0.0	0.	0.0	0.0
50.	2199.	1032.	59899.	3.	2.	0.0	0.	0.0	0.0
75.	2196.	1057.	60046.	16.	5.	0.0	0.	0.0	0.0
100.	2193.	1081.	60051.	-12.	1.	0.6	66.	0.1	0.1
125.	2191.	1106.	59889.	2.	1.	0.0	0.	0.0	0.0
150.	2188.	1131.	59919.	13.	2.	0.0	0.	0.0	0.0
175.	2185.	1156.	59880.	40.	13.	0.0	0.	0.0	0.0
200.	2183.	1180.	59992.	-19.	-5.	7.5	205.	0.1	0.1
225.	2180.	1205.	59927.	-3.	1.	0.0	0.	0.0	0.0

Line information

Line: 200WE
Number of records : 15.
Channel 1 min: 0.0000000 max: 350.0000
Channel 2 min: 2575.000 max: 2600.000
Channel 3 min: 1055.000 max: 1400.000
Channel 4 min: 59950.00 max: 60695.00

LINE 200WE

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
0.	2600.	1055.	60081.	27.	0.	4.0	120.	0.1	0.1
25.	2598.	1080.	60032.	34.	-2.	0.0	0.	0.0	0.0
50.	2596.	1104.	59998.	11.	-5.	0.0	0.	0.0	0.0
75.	2595.	1129.	59982.	-67.	-13.	0.0	0.	0.0	0.0
100.	2593.	1154.	60019.	-62.	-21.	0.0	0.	0.0	0.0
125.	2591.	1178.	60218.	-41.	-22.	0.0	0.	0.0	0.0
150.	2589.	1203.	60695.	-54.	-26.	5.3	120.	0.1	0.1
175.	2588.	1228.	60138.	-32.	-22.	0.0	0.	0.0	0.0
200.	2586.	1252.	60256.	-15.	-12.	5.2	230.	0.1	0.1
225.	2584.	1277.	59950.	2.	-14.	0.0	0.	0.0	0.0
250.	2582.	1301.	60167.	5.	-5.	2.5	179.	0.1	0.1
275.	2580.	1326.	60078.	22.	6.	0.0	0.	0.0	0.0
300.	2579.	1351.	60056.	34.	4.	0.0	0.	0.0	0.0
325.	2577.	1375.	59991.	18.	5.	0.0	0.	0.0	0.0
350.	2575.	1400.	60148.	28.	2.	0.0	0.	0.0	0.0

Line information

Line: 350WE
Number of records : 14.

Channel 1	min:	-25.00000	max:	300.0000
Channel 2	min:	2795.000	max:	2815.000
Channel 3	min:	1050.000	max:	1380.000
Channel 4	min:	59929.00	max:	60683.00

LINE 350WE

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppb
-25.	2795.	1050.	60297.	84.	0.	0.0	0.	0.0	0.0
0.	2797.	1075.	60091.	0.	0.	0.0	0.	0.0	0.0
25.	2798.	1101.	60485.	17.	3.	0.0	0.	0.0	0.0
50.	2800.	1126.	59967.	54.	-11.	0.0	0.	0.0	0.0
75.	2801.	1152.	0.	38.	-13.	0.0	0.	0.0	0.0
100.	2803.	1177.	0.	7.	-9.	2.3	160.	0.1	0.1
125.	2804.	1202.	0.	17.	-2.	0.0	0.	0.0	0.0
150.	2806.	1228.	0.	18.	5.	0.0	0.	0.0	0.0
175.	2807.	1253.	60033.	21.	5.	0.0	0.	0.0	0.0
200.	2809.	1278.	60261.	16.	-5.	2.0	2.	0.1	0.2
225.	2810.	1304.	60683.	13.	-12.	0.0	0.	0.0	0.0
250.	2812.	1329.	60189.	13.	-7.	0.0	0.	0.0	0.0
275.	2813.	1355.	59929.	-25.	-9.	0.0	0.	0.0	0.0
300.	2815.	1380.	59999.	17.	1.	2.0	53.	0.1	0.1

%Line information%

Line: OWN
Number of records : 16.
Channel 1 min: -175.0000 max: 200.0000
Channel 2 min: 3445.000 max: 3500.000
Channel 3 min: 1055.000 max: 1420.000
Channel 4 min: 59583.00 max: 60481.00

LINE OWN

STATION	X-COORD	Y-COORD	MAGNETIC DIF	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppb
-175.	3445.	1055.	59813.	-1.	-24.	0.0	0.	0.0	0.0
-150.	3449.	1079.	59820.	-31.	-33.	0.0	0.	0.0	0.0
-125.	3452.	1104.	59649.	-47.	-21.	0.0	0.	0.0	0.0
-100.	3456.	1128.	59847.	-46.	-27.	3.2	158.	0.1	0.1
-75.	3460.	1152.	59583.	-18.	-40.	0.0	0.	0.0	0.0
-50.	3463.	1177.	59838.	-38.	-8.	3.1	168.	0.1	0.2
-25.	3467.	1201.	59929.	-31.	-7.	0.0	0.	0.0	0.0
0.	3471.	1225.	60001.	35.	-9.	0.0	0.	0.0	0.0
25.	3474.	1250.	60090.	11.	-13.	0.0	0.	0.0	0.0
50.	3478.	1274.	59994.	24.	-11.	0.0	0.	0.0	0.0
75.	3482.	1298.	59989.	8.	-12.	0.0	0.	0.0	0.0
100.	3485.	1323.	60052.	2.	-14.	3.9	254.	0.1	0.1
125.	3489.	1347.	60481.	9.	-21.	0.0	0.	0.0	0.0
150.	3493.	1371.	60292.	14.	-13.	0.0	0.	0.0	0.0
175.	3496.	1396.	60095.	6.	-3.	0.0	0.	0.0	0.0
200.	3500.	1420.	59985.	10.	-10.	0.0	0.	0.0	0.0

Line information

Line: 200WNW
Number of records : 17.
Channel 1 min: -200.0000 max: 200.0000
Channel 2 min: 3285.000 max: 3310.000
Channel 3 min: 1025.000 max: 1425.000
Channel 4 min: 59776.00 max: 64030.00

LINE 200WNW

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
-200.	3285.	1025.	59811.	28.	-19.	0.0	0.	0.0	0.0
-175.	3287.	1050.	60553.	15.	-17.	0.0	0.	0.0	0.0
-150.	3288.	1075.	63780.	14.	-19.	3.9	234.	0.1	0.1
-125.	3290.	1100.	64030.	14.	-13.	0.0	0.	0.0	0.0
-100.	3291.	1125.	63376.	-3.	-25.	0.0	0.	0.0	0.0
-75.	3293.	1150.	60377.	-10.	-17.	0.0	0.	0.0	0.0
-50.	3294.	1175.	59776.	-10.	-20.	2.4	128.	0.1	0.1
-25.	3296.	1200.	59809.	0.	-16.	0.0	0.	0.0	0.0
0.	3298.	1225.	59780.	-2.	-8.	2.0	200.	0.1	0.1
25.	3299.	1250.	59813.	18.	-10.	0.0	0.	0.0	0.0
50.	3301.	1275.	59847.	55.	-9.	0.0	0.	0.0	0.0
75.	3302.	1300.	59853.	63.	-4.	0.0	0.	0.0	0.0
100.	3304.	1325.	60255.	45.	-11.	3.2	101.	0.1	0.1
125.	3305.	1350.	60080.	37.	-17.	0.0	0.	0.0	0.0
150.	3307.	1375.	60174.	42.	-7.	0.0	0.	0.0	0.0
175.	3308.	1400.	60470.	34.	-15.	0.0	0.	0.0	0.0
200.	3310.	1425.	60193.	40.	-8.	4.1	246.	0.1	0.1

Line Information

Line: 400WNW
Number of records : 21.

Channel 1	min:	-150.0000	max:	350.0000
Channel 2	min:	3070.000	max:	3135.000
Channel 3	min:	1025.000	max:	1525.000
Channel 4	min:	59909.00	max:	62174.00

LINE 400WNW

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppb
-150.	3070.	1025.	60150.	-90.	5.	0.0	0.	0.0	0.0
-125.	3073.	1050.	60321.	25.	-4.	0.0	0.	0.0	0.0
-100.	3077.	1075.	62174.	50.	-12.	3.7	160.	0.1	0.2
-75.	3080.	1100.	60252.	22.	-19.	0.0	0.	0.0	0.0
-50.	3083.	1125.	60087.	22.	-9.	14.2	108.	0.1	0.1
-25.	3086.	1150.	60420.	10.	-18.	0.0	0.	0.0	0.0
0.	3090.	1175.	60934.	-5.	-23.	4.1	160.	0.1	0.4
25.	3093.	1200.	59928.	38.	45.	0.0	0.	0.0	0.0
50.	3096.	1225.	59909.	53.	-21.	0.0	0.	0.0	0.0
75.	3099.	1250.	59945.	104.	-14.	0.0	0.	0.0	0.0
100.	3103.	1275.	60338.	96.	-21.	3.2	181.	0.1	0.1
125.	3106.	1300.	60281.	96.	-12.	0.0	0.	0.0	0.0
150.	3109.	1325.	59999.	19.	-31.	2.9	150.	0.1	0.1
175.	3112.	1350.	60225.	38.	-36.	0.0	0.	0.0	0.0
200.	3116.	1375.	59947.	68.	-9.	0.0	0.	0.0	0.0
225.	3119.	1400.	59994.	55.	-11.	0.0	0.	0.0	0.0
250.	3122.	1425.	60612.	82.	-9.	0.0	0.	0.0	0.0
275.	3125.	1450.	61600.	70.	-18.	0.0	0.	0.0	0.0
300.	3129.	1475.	60269.	52.	-12.	2.6	150.	0.1	0.2
325.	3132.	1500.	61100.	54.	-25.	0.0	0.	0.0	0.0
350.	3135.	1525.	60170.	42.	-9.	0.0	0.	0.0	0.0

Line information

Line: GEB00
Number of records : 26.
Channel 1 min: 0.0000000 max: 625.0000
Channel 2 min: 6975.000 max: 7045.000
Channel 3 min: 200.0000 max: 690.0000
Channel 4 min: 59849.00 max: 60516.00

LINE GEB00

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppb
0.	7045.	200.	0.	0.	0.	0.0	0.	0.0	0.0
25.	7045.	214.	0.	0.	0.	0.0	0.	0.0	0.0
50.	7045.	229.	0.	0.	0.	0.0	0.	0.0	0.0
75.	7045.	243.	0.	0.	0.	0.0	0.	0.0	0.0
100.	7045.	257.	0.	0.	0.	0.0	0.	0.0	0.0
125.	7045.	271.	0.	0.	0.	0.0	0.	0.0	0.0
150.	7045.	286.	0.	0.	0.	0.0	0.	0.0	0.0
175.	7045.	300.	59849.	55.	-8.	0.0	0.	0.0	0.0
200.	7042.	327.	59881.	8.	-14.	0.0	0.	0.0	0.0
225.	7038.	353.	59860.	33.	-11.	0.0	0.	0.0	0.0
250.	7035.	380.	59849.	45.	-9.	0.0	0.	0.0	0.0
275.	7034.	399.	0.	0.	0.	0.0	0.	0.0	0.0
300.	7033.	418.	0.	0.	0.	0.0	0.	0.0	0.0
325.	7032.	437.	0.	0.	0.	0.0	0.	0.0	0.0
350.	7031.	456.	0.	0.	0.	0.0	0.	0.0	0.0
375.	7030.	475.	59874.	-85.	-9.	0.0	0.	0.0	0.0
400.	7028.	500.	60021.	-50.	10.	0.0	0.	0.0	0.0
425.	7025.	525.	59996.	-48.	21.	0.0	0.	0.0	0.0
450.	7023.	550.	59902.	-41.	14.	0.0	0.	0.0	0.0
475.	7020.	575.	59869.	-10.	13.	0.0	0.	0.0	0.0
500.	7008.	583.	0.	0.	0.	0.0	0.	0.0	0.0
525.	6983.	590.	60516.	-8.	12.	0.0	0.	0.0	0.0
550.	6933.	615.	60078.	-14.	7.	0.0	0.	0.0	0.0
575.	6908.	640.	60084.	-14.	-12.	0.0	0.	0.0	0.0
600.	6978.	665.	60139.	-17.	7.	0.0	0.	0.0	0.0
625.	6975.	690.	60003.	-15.	0.	0.0	0.	0.0	0.0

Line information

Line: GL9175
Number of records : 0.
Channel 1 min: 325.0000 max: 500.0000
Channel 2 min: 7195.000 max: 7220.000
Channel 3 min: 390.0000 max: 565.0000
Channel 4 min: 59914.00 max: 60695.00

LINE GL9175

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppb
325.	7220.	390.	59914.	-59.	-3.	0.0	0.	0.0	0.0
350.	7216.	415.	59980.	-57.	-6.	0.0	0.	0.0	0.0
375.	7213.	440.	59990.	-70.	-6.	0.0	0.	0.0	0.0
400.	7209.	465.	60695.	-55.	4.	0.0	0.	0.0	0.0
425.	7206.	490.	59963.	-78.	8.	0.0	0.	0.0	0.0
450.	7202.	515.	60340.	-50.	1.	0.0	0.	0.0	0.0
475.	7199.	540.	59964.	20.	-14.	0.0	0.	0.0	0.0
500.	7195.	565.	59962.	-42.	1.	0.0	0.	0.0	0.0

Line Information

Line: 9E1200
Number of records : 7.
Channel 1 min: 0.0000000 max: 600.0000
Channel 2 min: 7180.000 max: 7255.000
Channel 3 min: 165.0000 max: 685.0000
Channel 4 min: 59833.00 max: 60778.00

LINE 9E1200

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
0.	7255.	165.	59833.	20.	-10.	0.0	0.	0.0	0.0
25.	7253.	190.	59839.	42.	-19.	0.0	0.	0.0	0.0
50.	7250.	215.	59839.	72.	-8.	0.0	0.	0.0	0.0
75.	7248.	240.	59849.	47.	-22.	0.0	0.	0.0	0.0
100.	7245.	265.	59897.	26.	-14.	2.6	202.	0.1	0.2
125.	7243.	290.	59891.	9.	-16.	0.0	0.	0.0	0.0
150.	7240.	315.	59895.	-27.	2.	3.4	145.	0.1	0.1

%Line information%

Line: GEB400
Number of records: 22.
Channel 1 min: 75.00000 max: 600.0000
Channel 2 min: 7375.000 max: 7450.000
Channel 3 min: 190.0000 max: 705.0000
Channel 4 min: 59832.00 max: 61910.00

LINE GEB400

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
75.	7450.	190.	0.	50.	-10.	280.0	78.	0.2	0.1
100.	7446.	213.	0.	65.	-12.	0.0	0.	0.0	0.0
125.	7443.	239.	0.	60.	-5.	0.0	0.	0.0	0.0
150.	7439.	264.	0.	-35.	0.	4.8	139.	0.1	0.2
175.	7436.	288.	0.	-16.	3.	0.0	0.	0.0	0.0
200.	7432.	313.	0.	-50.	-11.	0.0	0.	0.0	0.0
225.	7429.	337.	0.	-50.	-11.	0.0	0.	0.0	0.0
250.	7425.	362.	0.	-52.	-10.	0.0	0.	0.0	0.0
275.	7421.	386.	0.	-55.	-3.	0.0	0.	0.0	0.0
300.	7418.	411.	0.	-41.	1.	0.0	0.	0.0	0.0
325.	7414.	435.	0.	-35.	6.	0.0	0.	0.0	0.0
350.	7411.	460.	0.	-33.	14.	9.3	119.	0.1	0.2
375.	7407.	484.	0.	-31.	6.	0.0	0.	0.0	0.0
400.	7404.	509.	0.	-30.	14.	0.0	0.	0.0	0.0
425.	7400.	533.	0.	-25.	22.	0.0	0.	0.0	0.0
450.	7396.	558.	0.	-12.	5.	0.0	0.	0.0	0.0
475.	7393.	582.	60820.	-10.	10.	0.0	0.	0.0	0.0
500.	7389.	607.	61172.	-2.	3.	0.0	0.	0.0	0.0
525.	7386.	631.	61293.	12.	6.	0.0	0.	0.0	0.0
550.	7382.	656.	61910.	30.	24.	0.0	0.	0.0	0.0
575.	7379.	680.	61104.	35.	17.	0.0	0.	0.0	0.0
600.	7375.	705.	59832.	54.	14.	4.0	139.	0.1	0.1

%Line Information%

Line: 6EE600
Number of records : 26.
Channel 1 min: 0.0000000 max: 625.0000
Channel 2 min: 7620.000 max: 7680.000
Channel 3 min: 130.0000 max: 765.0000
Channel 4 min: 59254.00 max: 59993.00

LINE 6EE600

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppb
0.	7680.	130.	59866.	-40.	-12.	7.5	121.	0.1	0.1
25.	7678.	155.	59887.	-47.	5.	0.0	0.	0.0	0.0
50.	7675.	181.	59880.	-52.	11.	0.0	0.	0.0	0.0
75.	7673.	206.	59856.	-53.	-7.	0.0	0.	0.0	0.0
100.	7670.	232.	59890.	-15.	-1.	60.0	150.	0.1	0.4
125.	7668.	257.	59875.	-37.	3.	0.0	0.	0.0	0.0
150.	7666.	282.	59912.	-50.	-7.	0.0	0.	0.0	0.0
175.	7663.	308.	59854.	-65.	-9.	0.0	0.	0.0	0.0
200.	7661.	333.	59893.	-50.	-10.	2.4	225.	0.1	0.4
225.	7658.	359.	59971.	-33.	14.	0.0	0.	0.0	0.0
250.	7656.	384.	59897.	-50.	-6.	0.0	0.	0.0	0.0
275.	7654.	409.	59908.	-32.	1.	0.0	0.	0.0	0.0
300.	7651.	435.	59987.	-34.	8.	0.0	0.	0.0	0.0
325.	7649.	460.	59934.	-24.	32.	0.0	0.	0.0	0.0
350.	7646.	486.	59950.	-25.	17.	2.7	170.	0.1	0.2
375.	7644.	511.	59910.	-60.	-11.	0.0	0.	0.0	0.0
400.	7642.	536.	59913.	-25.	-12.	0.0	0.	0.0	0.0
425.	7639.	562.	59854.	25.	-21.	0.0	0.	0.0	0.0
450.	7637.	587.	59921.	15.	9.	0.0	0.	0.0	0.0
475.	7634.	613.	59937.	30.	24.	0.0	0.	0.0	0.0
500.	7632.	638.	59983.	18.	24.	0.0	0.	0.0	0.0
525.	7630.	663.	59254.	10.	-5.	0.0	0.	0.0	0.0
550.	7627.	689.	59824.	15.	10.	2.7	150.	0.1	0.1
575.	7625.	714.	59911.	38.	11.	0.0	0.	0.0	0.0
600.	7622.	740.	59966.	20.	2.	0.0	0.	0.0	0.0
625.	7620.	765.	59993.	-8.	-24.	0.0	0.	0.0	0.0

Line Information

Line: SEB800

Number of records: [illegible]

Channel 1	min:	0.0000000	max:	200.0000
Channel 2	min:	7870.000	max:	7880.000
Channel 3	min:	120.0000	max:	320.0000
Channel 4	min:	59848.00	max:	59984.00

LINE SEB800

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppb
0.	7880.	120.	59858.	45.	-14.	1.1	129.	0.1	0.2
25.	7879.	145.	59855.	29.	-10.	0.0	0.	0.0	0.0
50.	7878.	170.	59863.	40.	-3.	0.0	0.	0.0	0.0
75.	7876.	195.	59848.	-20.	-8.	0.0	0.	0.0	0.0
100.	7875.	220.	59883.	-25.	-8.	1.1	139.	0.1	0.4
125.	7874.	245.	59984.	-55.	-10.	0.0	0.	0.0	0.0
150.	7873.	270.	59887.	-45.	-7.	28.0	51.	0.1	0.1
175.	7871.	295.	59882.	-38.	-6.	0.0	0.	0.0	0.0
200.	7870.	320.	59860.	-24.	-2.	0.0	0.	0.0	0.0

Line information

Line: GEB201
Number of records : 4.
Channel 1 min: 525.0000 max: 600.0000
Channel 2 min: 7180.000 max: 7190.000
Channel 3 min: 605.0000 max: 685.0000
Channel 4 min: 60033.00 max: 60778.00

LINE GEB201

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppb
600.	7190.	605.	60778.	-3.	6.	0.0	0.	0.0	0.0
575.	7187.	632.	60432.	-6.	5.	0.0	0.	0.0	0.0
550.	7183.	658.	60225.	22.	-2.	0.0	0.	0.0	0.0
525.	7180.	685.	60033.	12.	14.	0.0	0.	0.0	0.0

APPENDIX I

DATA LISTINGS - GLASS REEF MINE

Line information

Line: 200
Number of records : 17.
Channel 1 min: 0.0000000 max: 400.0000
Channel 2 min: 200.0000 max: 200.0000
Channel 3 min: 0.0000000 max: 385.0000
Channel 4 min: 60045.00 max: 61128.00

LINE 200

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
0.	200.	0.	60476.	0.	-14.	0.0	0.	0.0	0.0
25.	200.	10.	61040.	0.	-18.	0.0	0.	0.0	0.0
50.	200.	35.	61128.	0.	-18.	0.0	0.	0.0	0.0
75.	200.	60.	60045.	35.	-19.	0.0	0.	0.0	0.0
100.	200.	85.	60192.	25.	-22.	0.0	0.	0.0	0.0
125.	200.	110.	60250.	-50.	-9.	0.0	0.	0.0	0.0
150.	200.	135.	60296.	-33.	-14.	0.0	0.	0.0	0.0
175.	200.	160.	60192.	-40.	-11.	0.0	0.	0.0	0.0
200.	200.	185.	60207.	-35.	-12.	0.0	0.	0.0	0.0
225.	200.	210.	60234.	-28.	-17.	0.0	0.	0.0	0.0
250.	200.	235.	60227.	-26.	-15.	0.0	0.	0.0	0.0
275.	200.	260.	60246.	-25.	-19.	0.0	0.	0.0	0.0
300.	200.	285.	60279.	-19.	-15.	0.0	0.	0.0	0.0
325.	200.	310.	60271.	-14.	-16.	0.0	0.	0.0	0.0
350.	200.	335.	60266.	-10.	-16.	0.0	0.	0.0	0.0
375.	200.	360.	60317.	-10.	-14.	0.0	0.	0.0	0.0
400.	200.	385.	60282.	0.	8.	3.3	41.	0.1	0.1

%Line Information%

Line: 300
Number of records: 15.
Channel 1 min: 0.0000000 max: 350.0000
Channel 2 min: 300.0000 max: 300.0000
Channel 3 min: 0.0000000 max: 350.0000
Channel 4 min: 60066.00 max: 60879.00

LINE 300

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
0.	300.	0.	60848.	0.	-14.	3.9	246.	0.1	0.1
25.	300.	25.	60879.	0.	-22.	0.0	0.	0.0	0.0
50.	300.	50.	60365.	2.	-21.	0.0	0.	0.0	0.0
75.	300.	75.	60066.	-35.	-8.	0.0	0.	0.0	0.0
100.	300.	100.	60621.	-45.	-12.	0.0	0.	0.0	0.0
125.	300.	125.	60160.	-45.	-6.	0.0	0.	0.0	0.0
150.	300.	150.	60201.	-40.	-8.	0.0	0.	0.0	0.0
175.	300.	175.	60208.	-39.	-11.	0.0	0.	0.0	0.0
200.	300.	200.	60227.	-4.	-18.	0.0	0.	0.0	0.0
225.	300.	225.	60239.	-20.	-14.	0.0	0.	0.0	0.0
250.	300.	250.	60294.	-22.	-16.	0.0	0.	0.0	0.0
275.	300.	275.	60193.	-52.	-2.	0.0	0.	0.0	0.0
300.	300.	300.	60191.	-8.	-10.	0.0	0.	0.0	0.0
325.	300.	325.	60224.	-20.	-6.	0.0	0.	0.0	0.0
350.	300.	350.	60233.	-18.	-11.	0.0	0.	0.0	0.0

%Line information%

Line: 400
Number of records : 14.
Channel 1 min: 0.0000000 max: 325.0000
Channel 2 min: 400.0000 max: 400.0000
Channel 3 min: 0.0000000 max: 325.0000
Channel 4 min: 60131.00 max: 60687.00

LINE 400

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
0.	400.	0.	60687.	8.	-17.	3.0	109.	0.1	0.1
25.	400.	25.	60421.	6.	-18.	0.0	0.	0.0	0.0
50.	400.	50.	60265.	0.	-18.	0.0	0.	0.0	0.0
75.	400.	75.	60274.	-44.	0.	0.0	0.	0.0	0.0
100.	400.	100.	60131.	-43.	-10.	0.0	0.	0.0	0.0
125.	400.	125.	60201.	-65.	-4.	0.0	0.	0.0	0.0
150.	400.	150.	60219.	-6.	-15.	0.0	0.	0.0	0.0
175.	400.	175.	60252.	-33.	-7.	0.0	0.	0.0	0.0
200.	400.	200.	60208.	-15.	-16.	0.0	0.	0.0	0.0
225.	400.	225.	60241.	-15.	-21.	0.0	0.	0.0	0.0
250.	400.	250.	60252.	-6.	-15.	0.0	0.	0.0	0.0
275.	400.	275.	60266.	-15.	-10.	0.0	0.	0.0	0.0
300.	400.	300.	60250.	-20.	-6.	0.0	0.	0.0	0.0
325.	400.	325.	60167.	-17.	-5.	0.0	0.	0.0	0.0

Line information

Line: 600
Number of records : 21.
Channel 1 min: 0.0000000 max: 500.0000
Channel 2 min: 600.0000 max: 600.0000
Channel 3 min: 0.0000000 max: 500.0000
Channel 4 min: 59683.00 max: 61973.00

LINE 600

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
0.	600.	0.	61973.	-22.	15.	18.0	39.	0.1	0.1
25.	600.	25.	60664.	-50.	-4.	0.0	0.	0.0	0.0
50.	600.	50.	60446.	-50.	-6.	0.0	0.	0.0	0.0
75.	600.	75.	60238.	-35.	2.	0.0	0.	0.0	0.0
100.	600.	100.	60236.	-30.	2.	0.0	0.	0.0	0.0
125.	600.	125.	60241.	-25.	3.	0.0	0.	0.0	0.0
150.	600.	150.	60231.	-23.	1.	0.0	0.	0.0	0.0
175.	600.	175.	60268.	-15.	2.	0.0	0.	0.0	0.0
200.	600.	200.	60275.	-10.	2.	5.7	45.	0.1	0.1
225.	600.	225.	60276.	-3.	3.	0.0	0.	0.0	0.0
250.	600.	250.	59683.	0.	2.	0.0	0.	0.0	0.0
275.	600.	275.	60225.	3.	2.	0.0	0.	0.0	0.0
300.	600.	300.	60232.	10.	-3.	0.0	0.	0.0	0.0
325.	600.	325.	60259.	19.	4.	0.0	0.	0.0	0.0
350.	600.	350.	60260.	-44.	-26.	0.0	0.	0.0	0.0
375.	600.	375.	60008.	-17.	-22.	0.0	0.	0.0	0.0
400.	600.	400.	60284.	-6.	-16.	7.8	61.	0.1	0.1
425.	600.	425.	60276.	3.	-17.	0.0	0.	0.0	0.0
450.	600.	450.	60122.	6.	-12.	0.0	0.	0.0	0.0
475.	600.	475.	60337.	13.	-15.	0.0	0.	0.0	0.0
500.	600.	500.	60561.	17.	-14.	0.0	0.	0.0	0.0

Line Information

Line: 700
Number of records : 33.

Channel 1	min:	-250.0000	max:	550.0000
Channel 2	min:	700.0000	max:	700.0000
Channel 3	min:	-250.0000	max:	550.0000
Channel 4	min:	59419.00	max:	61860.00

LINE 700

STATION	X-COORD	Y-COORD	MAGNETIC	DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
250.	700.	-250.	60335.	-75.	10.	0.0	0.	0.0	0.0
-225.	700.	-225.	60770.	-90.	6.	0.0	0.	0.0	0.0
-200.	700.	-200.	60359.	-65.	20.	0.0	0.	0.0	0.0
-175.	700.	-175.	60435.	-40.	26.	0.0	0.	0.0	0.0
150.	700.	-150.	60560.	-35.	38.	0.0	0.	0.0	0.0
-125.	700.	-125.	60725.	-35.	18.	0.0	0.	0.0	0.0
-100.	700.	-100.	60725.	-5.	28.	0.0	0.	0.0	0.0
-75.	700.	-75.	60688.	5.	30.	0.0	0.	0.0	0.0
-50.	700.	-50.	61051.	5.	2.	0.0	0.	0.0	0.0
-25.	700.	-25.	61509.	-45.	-8.	0.0	0.	0.0	0.0
0.	700.	0.	60348.	0.	0.	3.9	144.	0.1	0.1
25.	700.	25.	60116.	-45.	0.	0.0	0.	0.0	0.0
50.	700.	50.	60359.	-53.	-4.	0.0	0.	0.0	0.0
75.	700.	75.	60202.	-42.	1.	0.0	0.	0.0	0.0
100.	700.	100.	60707.	-35.	4.	3.8	119.	0.1	0.1
125.	700.	125.	60192.	-17.	8.	0.0	0.	0.0	0.0
150.	700.	150.	60238.	-14.	3.	0.0	0.	0.0	0.0
175.	700.	175.	59419.	-10.	8.	0.0	0.	0.0	0.0
200.	700.	200.	60300.	0.	4.	0.0	0.	0.0	0.0
225.	700.	225.	60401.	2.	1.	0.0	0.	0.0	0.0
250.	700.	250.	60351.	0.	0.	0.0	0.	0.0	0.0
275.	700.	275.	60269.	3.	-2.	0.0	0.	0.0	0.0
300.	700.	300.	60197.	2.	-11.	0.0	0.	0.0	0.0
325.	700.	325.	60254.	-10.	-6.	0.0	0.	0.0	0.0
350.	700.	350.	60239.	-18.	-21.	0.0	0.	0.0	0.0
375.	700.	375.	60265.	-17.	16.	0.0	0.	0.0	0.0
400.	700.	400.	60367.	0.	-18.	0.0	0.	0.0	0.0
425.	700.	425.	60363.	5.	-14.	0.0	0.	0.0	0.0
450.	700.	450.	60525.	10.	-14.	0.0	0.	0.0	0.0
475.	700.	475.	61860.	17.	-14.	0.0	0.	0.0	0.0
500.	700.	500.	61621.	20.	-8.	7.2	144.	0.1	0.1
525.	700.	525.	61392.	22.	-12.	0.0	0.	0.0	0.0
550.	700.	550.	59742.	25.	-5.	0.0	0.	0.0	0.0

%Line information%

Line: 1000
Number of records : 28.
Channel 1 min: -425.0000 max: 250.0000
Channel 2 min: 1000.000 max: 1000.000
Channel 3 min: -425.0000 max: 525.0000
Channel 4 min: 60047.00 max: 60847.00

LINE 1000

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Au-ppm
-425.	1000.	-425.	60252.	-30.	6.	0.0	0.	0.0	0.0
-400.	1000.	-400.	60176.	-55.	11.	2.7	249.	0.1	0.1
-375.	1000.	-375.	60267.	-60.	6.	0.0	0.	0.0	0.0
-350.	1000.	-350.	60243.	-45.	17.	0.0	0.	0.0	0.0
-325.	1000.	-325.	60343.	-42.	21.	0.0	0.	0.0	0.0
-300.	1000.	-300.	60383.	-37.	21.	0.0	0.	0.0	0.0
-275.	1000.	-275.	60332.	-21.	16.	0.0	0.	0.0	0.0
-250.	1000.	-250.	60520.	-30.	9.	0.0	0.	0.0	0.0
-225.	1000.	-225.	0.	-27.	12.	0.0	0.	0.0	0.0
-200.	1000.	-200.	60308.	-21.	16.	3.4	134.	0.1	0.2
-175.	1000.	-175.	60378.	-12.	18.	0.0	0.	0.0	0.0
-150.	1000.	-150.	60701.	-8.	19.	0.0	0.	0.0	0.0
-125.	1000.	-125.	60601.	-5.	19.	0.0	0.	0.0	0.0
-100.	1000.	-100.	60385.	12.	21.	2.7	264.	0.1	0.4
-75.	1000.	-75.	60269.	15.	18.	0.0	0.	0.0	0.0
-50.	1000.	-50.	60047.	-2.	12.	0.0	0.	0.0	0.0
-25.	1000.	-25.	60347.	2.	12.	0.0	0.	0.0	0.0
0.	1000.	0.	60318.	-30.	-4.	3.4	222.	0.1	0.1
25.	1000.	300.	60288.	-30.	0.	0.0	0.	0.0	0.0
50.	1000.	325.	60847.	-32.	2.	0.0	0.	0.0	0.0
75.	1000.	350.	60294.	-31.	6.	0.0	0.	0.0	0.0
100.	1000.	375.	60316.	-15.	19.	1.9	176.	0.1	0.1
125.	1000.	400.	60357.	-5.	6.	0.0	0.	0.0	0.0
150.	1000.	425.	60274.	5.	-1.	0.0	0.	0.0	0.0
175.	1000.	450.	60285.	13.	10.	0.0	0.	0.0	0.0
200.	1000.	475.	60263.	15.	-4.	2.1	152.	0.1	0.1
225.	1000.	500.	60307.	21.	9.	0.0	0.	0.0	0.0
250.	1000.	525.	60275.	32.	7.	0.0	0.	0.0	0.0

%Line information%

Line: 1500
Number of records : 31.
Channel 1 min: -625.0000 max: 125.0000
Channel 2 min: 1500.000 max: 1500.000
Channel 3 min: -625.0000 max: 125.0000
Channel 4 min: 60222.00 max: 63181.00

LINE 1500

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
-625.	1500.	-625.	60625.	-35.	7.	0.0	0.	0.0	0.0
-600.	1500.	-600.	60662.	-20.	11.	0.0	0.	0.0	0.0
-575.	1500.	-575.	60558.	-13.	13.	0.0	0.	0.0	0.0
-550.	1500.	-550.	63181.	-15.	17.	0.0	0.	0.0	0.0
-525.	1500.	-525.	61497.	10.	8.	0.0	0.	0.0	0.0
-500.	1500.	-500.	61397.	15.	12.	2.9	182.	0.1	0.2
-475.	1500.	-475.	60410.	5.	13.	0.0	0.	0.0	0.0
-450.	1500.	-450.	60222.	10.	15.	0.0	0.	0.0	0.0
-425.	1500.	-425.	60428.	-45.	14.	0.0	0.	0.0	0.0
-400.	1500.	-400.	60456.	-65.	12.	0.0	0.	0.0	0.0
-375.	1500.	-375.	60243.	-55.	10.	0.0	0.	0.0	0.0
-350.	1500.	-350.	60382.	-38.	12.	0.0	0.	0.0	0.0
-325.	1500.	-325.	60267.	-33.	12.	0.0	0.	0.0	0.0
-300.	1500.	-300.	60330.	-29.	17.	26.0	95.	0.1	0.1
-275.	1500.	-275.	60317.	-27.	18.	0.0	0.	0.0	0.0
-250.	1500.	-250.	60282.	-25.	20.	0.0	0.	0.0	0.0
-225.	1500.	-225.	60280.	-21.	12.	0.0	0.	0.0	0.0
-200.	1500.	-200.	60350.	-15.	9.	0.0	0.	0.0	0.0
-175.	1500.	-175.	60360.	-32.	2.	0.0	0.	0.0	0.0
-150.	1500.	-150.	60280.	-13.	5.	0.0	0.	0.0	0.0
-125.	1500.	-125.	60299.	-11.	6.	0.0	0.	0.0	0.0
-100.	1500.	-100.	60313.	0.	0.	5.9	71.	0.1	0.2
-75.	1500.	-75.	60342.	-10.	1.	0.0	0.	0.0	0.0
-50.	1500.	-50.	60316.	-7.	2.	0.0	0.	0.0	0.0
-25.	1500.	-25.	60323.	12.	3.	0.0	0.	0.0	0.0
0.	1500.	0.	60391.	10.	2.	1.6	173.	0.1	0.1
25.	1500.	25.	60441.	30.	7.	0.0	0.	0.0	0.0
50.	1500.	50.	60348.	25.	-13.	0.0	0.	0.0	0.0
75.	1500.	75.	60771.	20.	2.	0.0	0.	0.0	0.0
100.	1500.	100.	61001.	21.	6.	2.7	188.	0.1	0.1
125.	1500.	125.	61077.	25.	12.	0.0	0.	0.0	0.0

%Line Information%

Line: 1900
Number of records : 40.

Channel 1	min:	-650.0000	max:	525.0000
Channel 2	min:	1900.000	max:	1900.000
Channel 3	min:	-650.0000	max:	525.0000
Channel 4	min:	60090.00	max:	63060.00

LINE 1900

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
-650.	1900.	-650.	60381.	-25.	4.	0.0	0.	0.0	0.0
-625.	1900.	-625.	60350.	-18.	6.	0.0	0.	0.0	0.0
-600.	1900.	-600.	60445.	-22.	7.	0.0	0.	0.0	0.0
-575.	1900.	-575.	60482.	-25.	3.	0.0	0.	0.0	0.0
-550.	1900.	-550.	60420.	-15.	21.	0.0	0.	0.0	0.0
-525.	1900.	-525.	60420.	0.	0.	0.0	0.	0.0	0.0
-500.	1900.	-500.	60844.	-20.	8.	4.0	222.	0.1	0.1
-475.	1900.	-475.	61717.	-20.	-10.	0.0	0.	0.0	0.0
-450.	1900.	-450.	63060.	0.	0.	0.0	0.	0.0	0.0
-425.	1900.	-425.	60214.	0.	0.	0.0	0.	0.0	0.0
-400.	1900.	-400.	60905.	-10.	0.	0.0	0.	0.0	0.0
-375.	1900.	-375.	60140.	-10.	21.	0.0	0.	0.0	0.0
-350.	1900.	-350.	60175.	5.	22.	0.0	0.	0.0	0.0
-325.	1900.	-325.	60153.	-25.	-3.	0.0	0.	0.0	0.0
-300.	1900.	-300.	60090.	-30.	6.	4.0	166.	0.1	0.1
-275.	1900.	-275.	60203.	-21.	8.	0.0	0.	0.0	0.0
-250.	1900.	-250.	60318.	-24.	16.	0.0	0.	0.0	0.0
-225.	1900.	-225.	60167.	-5.	24.	0.0	0.	0.0	0.0
-200.	1900.	-200.	60182.	-13.	26.	0.0	0.	0.0	0.0
-175.	1900.	-175.	61356.	5.	22.	0.0	0.	0.0	0.0
-150.	1900.	-150.	60169.	12.	14.	0.0	0.	0.0	0.0
-125.	1900.	-125.	60374.	25.	18.	0.0	0.	0.0	0.0
-100.	1900.	100.	60203.	27.	8.	12.3	188.	0.1	0.1
-75.	1900.	-75.	60916.	27.	6.	0.0	0.	0.0	0.0
-50.	1900.	-50.	60250.	24.	8.	0.0	0.	0.0	0.0
-25.	1900.	-25.	60307.	30.	3.	0.0	0.	0.0	0.0
0.	1900.	0.	60351.	0.	0.	4.4	183.	0.1	0.2
25.	1900.	25.	60440.	20.	-4.	0.0	0.	0.0	0.0
50.	1900.	50.	60390.	20.	-32.	0.0	0.	0.0	0.0
75.	1900.	75.	60380.	10.	15.	0.0	0.	0.0	0.0
100.	1900.	100.	60813.	20.	-29.	3.1	240.	0.1	0.2
125.	1900.	125.	60316.	25.	-18.	0.0	0.	0.0	0.0
150.	1900.	150.	60362.	-30.	-19.	0.0	0.	0.0	0.0
175.	1900.	175.	60349.	-5.	-16.	0.0	0.	0.0	0.0
200.	1900.	200.	60344.	-25.	-18.	0.0	0.	0.0	0.0
225.	1900.	225.	60364.	-5.	-11.	0.0	0.	0.0	0.0
250.	1900.	250.	60387.	-7.	-16.	0.0	0.	0.0	0.0
275.	1900.	275.	60405.	-25.	-20.	0.0	0.	0.0	0.0
300.	1900.	300.	60435.	-11.	-14.	0.0	0.	0.0	0.0
325.	1900.	325.	60251.	2.	-14.	0.0	0.	0.0	0.0
350.	1900.	350.	60543.	15.	14.	0.0	0.	0.0	0.0
375.	1900.	375.	60565.	-5.	-24.	0.0	0.	0.0	0.0
400.	1900.	400.	60474.	10.	-26.	0.0	0.	0.0	0.0
425.	1900.	425.	60434.	22.	-20.	0.0	0.	0.0	0.0
450.	1900.	450.	60438.	30.	-11.	0.0	0.	0.0	0.0
475.	1900.	475.	60442.	30.	-14.	0.0	0.	0.0	0.0
500.	1900.	500.	60470.	35.	-17.	0.0	0.	0.0	0.0
525.	1900.	525.	60369.	37.	-6.	0.0	0.	0.0	0.0

%Line information%

Line: 2000
Number of records : 39.
Channel 1 min: -525.0000 max: 425.0000
Channel 2 min: 2000.000 max: 2000.000
Channel 3 min: -630.0000 max: 540.0000
Channel 4 min: 59659.00 max: 61470.00

LINE 2000

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
-525.	2000.	-525.	60842.	0.	0.	0.0	0.	0.0	0.0
-500.	2000.	-630.	60464.	-25.	-2.	4.4	166.	0.1	1.0
-475.	2000.	-599.	60380.	-20.	-10.	0.0	0.	0.0	0.0
-450.	2000.	-567.	60473.	-20.	4.	0.0	0.	0.0	0.0
-425.	2000.	-536.	60529.	-5.	5.	0.0	0.	0.0	0.0
-400.	2000.	-504.	60877.	-5.	5.	0.0	0.	0.0	0.0
-375.	2000.	-473.	60854.	3.	4.	0.0	0.	0.0	0.0
-350.	2000.	-441.	60692.	20.	8.	0.0	0.	0.0	0.0
-325.	2000.	-410.	60205.	5.	3.	0.0	0.	0.0	0.0
-300.	2000.	-378.	60205.	-45.	-4.	3.4	175.	0.1	0.1
-275.	2000.	-347.	60445.	-15.	-6.	0.0	0.	0.0	0.0
-250.	2000.	-315.	60882.	-25.	-6.	0.0	0.	0.0	0.0
-225.	2000.	-284.	60171.	35.	-10.	0.0	0.	0.0	0.0
-200.	2000.	-252.	60203.	-35.	-7.	0.0	0.	0.0	0.0
-175.	2000.	-221.	60204.	-40.	-14.	0.0	0.	0.0	0.0
-150.	2000.	-189.	60315.	-45.	-4.	0.0	0.	0.0	0.0
-125.	2000.	-158.	60931.	-15.	5.	0.0	0.	0.0	0.0
-100.	2000.	-126.	60267.	17.	5.	6.3	105.	0.1	0.1
-75.	2000.	-95.	60226.	20.	9.	0.0	0.	0.0	0.0
-50.	2000.	-63.	60294.	15.	5.	0.0	0.	0.0	0.0
-25.	2000.	-32.	60397.	17.	5.	0.0	0.	0.0	0.0
0.	2000.	0.	60354.	20.	4.	4.3	188.	0.1	0.1
25.	2000.	32.	60233.	25.	-10.	0.0	0.	0.0	0.0
50.	2000.	64.	60261.	-10.	-16.	0.0	0.	0.0	0.0
75.	2000.	95.	60494.	-5.	-13.	0.0	0.	0.0	0.0
100.	2000.	127.	60204.	8.	-13.	0.0	0.	0.0	0.0
125.	2000.	159.	60263.	-15.	-15.	0.0	0.	0.0	0.0
150.	2000.	191.	60311.	-10.	-15.	0.0	0.	0.0	0.0
175.	2000.	222.	60304.	10.	-12.	0.0	0.	0.0	0.0
200.	2000.	254.	60734.	-15.	-12.	6.9	183.	0.1	0.2
225.	2000.	286.	60200.	10.	-14.	0.0	0.	0.0	0.0
250.	2000.	318.	60363.	15.	-12.	0.0	0.	0.0	0.0
275.	2000.	349.	60542.	-30.	-27.	0.0	0.	0.0	0.0
300.	2000.	381.	59659.	5.	-36.	0.0	0.	0.0	0.0
325.	2000.	413.	60450.	14.	-28.	0.0	0.	0.0	0.0
350.	2000.	445.	60460.	30.	-26.	0.0	0.	0.0	0.0
375.	2000.	476.	60093.	45.	16.	0.0	0.	0.0	0.0
400.	2000.	508.	60093.	45.	-10.	7.2	305.	0.1	0.1
425.	2000.	540.	61470.	45.	-7.	0.0	0.	0.0	0.0

Line information

Line: 2100
Number of records : 40.
Channel 1 min: -550.0000 max: 425.0000
Channel 2 min: 2100.000 max: 2100.000
Channel 3 min: -700.0000 max: 540.0000
Channel 4 min: 59980.00 max: 62509.00

LINE 2100

STATION	X-COORD	Y-COORD	MAGNETIC	DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
-550.	2100.	-700.	60768.	-45.	-11.	0.0	0.	0.0	0.0
-525.	2100.	-668.	60484.	-30.	-1.	0.0	0.	0.0	0.0
-500.	2100.	-636.	60451.	-17.	-3.	0.0	0.	0.0	0.0
-475.	2100.	-605.	60440.	-10.	4.	0.0	0.	0.0	0.0
-450.	2100.	-573.	60440.	-5.	3.	0.0	0.	0.0	0.0
-425.	2100.	-541.	60461.	5.	-2.	0.0	0.	0.0	0.0
-400.	2100.	-509.	60552.	15.	-7.	0.0	0.	0.0	0.0
-375.	2100.	-477.	61519.	20.	-10.	0.0	0.	0.0	0.0
-350.	2100.	-445.	61011.	23.	-2.	0.0	0.	0.0	0.0
-325.	2100.	-414.	60774.	-35.	-11.	0.0	0.	0.0	0.0
-300.	2100.	-382.	60079.	-20.	7.	3.7	268.	0.1	0.1
-275.	2100.	-350.	60904.	-25.	5.	0.0	0.	0.0	0.0
-250.	2100.	-318.	60412.	-37.	4.	0.0	0.	0.0	0.0
-225.	2100.	-286.	60209.	-35.	8.	0.0	0.	0.0	0.0
-200.	2100.	-255.	60229.	-24.	15.	5.8	150.	0.1	0.1
-175.	2100.	-223.	60324.	-15.	21.	0.0	0.	0.0	0.0
-150.	2100.	-191.	60942.	5.	22.	0.0	0.	0.0	0.0
-125.	2100.	-159.	61955.	25.	26.	0.0	0.	0.0	0.0
-100.	2100.	-127.	61241.	35.	3.	3.4	175.	0.1	0.1
-75.	2100.	-95.	60300.	45.	3.	0.0	0.	0.0	0.0
-50.	2100.	-64.	60271.	18.	-2.	0.0	0.	0.0	0.0
-25.	2100.	-32.	60286.	-10.	-11.	0.0	0.	0.0	0.0
0.	2100.	0.	60353.	-5.	-41.	5.5	222.	0.1	0.1
25.	2100.	32.	60381.	16.	-27.	0.0	0.	0.0	0.0
50.	2100.	64.	60538.	25.	-12.	0.0	0.	0.0	0.0
75.	2100.	95.	62509.	35.	-13.	0.0	0.	0.0	0.0
100.	2100.	127.	60552.	-5.	-1.	0.0	0.	0.0	0.0
125.	2100.	159.	60344.	-25.	-12.	0.0	0.	0.0	0.0
150.	2100.	191.	60280.	-25.	-26.	0.0	0.	0.0	0.0
175.	2100.	222.	60329.	5.	-14.	0.0	0.	0.0	0.0
200.	2100.	254.	60293.	-10.	-24.	2.6	166.	0.1	0.1
225.	2100.	286.	60333.	8.	-14.	0.0	0.	0.0	0.0
250.	2100.	318.	60354.	25.	-9.	0.0	0.	0.0	0.0
275.	2100.	349.	60761.	35.	5.	0.0	0.	0.0	0.0
300.	2100.	381.	60380.	40.	2.	0.0	0.	0.0	0.0
325.	2100.	413.	60427.	5.	-2.	0.0	0.	0.0	0.0
350.	2100.	445.	60418.	7.	-38.	0.0	0.	0.0	0.0
375.	2100.	476.	60463.	30.	-38.	0.0	0.	0.0	0.0
400.	2100.	508.	60112.	40.	-22.	5.0	234.	0.1	0.1
425.	2100.	540.	59980.	35.	12.	0.0	0.	0.0	0.0

%Line information%

Line: 2400
Number of records : 62.
Channel 1 min: -1225.000 max: 300.0000
Channel 2 min: 2380.000 max: 2400.000
Channel 3 min: -1225.000 max: 300.0000
Channel 4 min: 59783.00 max: 64212.00

LINE 2400

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
-1225.	2380.	-1225.	60154.	45.	-4.	0.0	0.	0.0	0.0
-1200.	2380.	-1200.	60198.	25.	-7.	0.0	0.	0.0	0.0
-1175.	2381.	-1175.	60209.	-7.	-12.	0.0	0.	0.0	0.0
-1150.	2381.	-1150.	60233.	-8.	-20.	0.0	0.	0.0	0.0
-1125.	2382.	-1125.	60335.	7.	-21.	0.0	0.	0.0	0.0
-1100.	2382.	-1100.	61985.	-10.	-21.	0.0	0.	0.0	0.0
-1075.	2382.	-1075.	61010.	10.	-11.	0.0	0.	0.0	0.0
-1050.	2383.	-1050.	60251.	12.	-12.	0.0	0.	0.0	0.0
-1025.	2383.	-1025.	60075.	16.	-7.	0.0	0.	0.0	0.0
-1000.	2384.	-1000.	60335.	-33.	-14.	1.4	128.	0.1	0.2
-975.	2384.	-975.	60247.	-30.	-10.	0.0	0.	0.0	0.0
-950.	2384.	-950.	60092.	-14.	-7.	0.0	0.	0.0	0.0
-925.	2385.	-925.	60275.	-15.	-10.	0.0	0.	0.0	0.0
-900.	2385.	-900.	59885.	-18.	-12.	0.0	0.	0.0	0.0
-875.	2386.	-875.	60320.	-14.	-12.	0.0	0.	0.0	0.0
-850.	2386.	-850.	60117.	-14.	-10.	0.0	0.	0.0	0.0
-825.	2387.	-825.	60394.	-7.	-7.	0.0	0.	0.0	0.0
-800.	2387.	-800.	60484.	-8.	-8.	3.2	205.	0.1	0.4
-775.	2387.	-775.	60616.	2.	-7.	0.0	0.	0.0	0.0
-750.	2388.	-750.	60791.	8.	-8.	0.0	0.	0.0	0.0
-725.	2388.	-725.	61007.	-10.	-11.	0.0	0.	0.0	0.0
-700.	2389.	-700.	61747.	4.	-5.	0.0	0.	0.0	0.0
-675.	2389.	-675.	64212.	5.	-3.	0.0	0.	0.0	0.0
-650.	2389.	-650.	60426.	10.	-7.	0.0	0.	0.0	0.0
-625.	2390.	-625.	60729.	16.	4.	0.0	0.	0.0	0.0
-600.	2390.	-600.	60665.	20.	-2.	2.6	126.	0.1	0.1
-575.	2391.	-575.	60640.	10.	4.	0.0	0.	0.0	0.0
-550.	2391.	-550.	60157.	-10.	1.	0.0	0.	0.0	0.0
-525.	2391.	-525.	60255.	-7.	3.	0.0	0.	0.0	0.0
-500.	2392.	-500.	60344.	-7.	-1.	0.0	0.	0.0	0.0
-475.	2392.	-475.	60469.	3.	0.	0.0	0.	0.0	0.0
-450.	2393.	-450.	60584.	8.	-1.	0.0	0.	0.0	0.0
-425.	2393.	-425.	60781.	4.	1.	0.0	0.	0.0	0.0
-400.	2393.	-400.	60972.	5.	1.	4.4	128.	0.1	0.1
-375.	2394.	-375.	63390.	8.	5.	0.0	0.	0.0	0.0
-350.	2394.	-350.	60244.	2.	3.	0.0	0.	0.0	0.0
-325.	2395.	-325.	59783.	5.	6.	0.0	0.	0.0	0.0
-300.	2395.	-300.	61054.	-18.	2.	0.0	0.	0.0	0.0
-275.	2396.	-275.	59947.	-45.	-9.	0.0	0.	0.0	0.0
-250.	2396.	-250.	60073.	-28.	-6.	0.0	0.	0.0	0.0
-225.	2396.	-225.	60088.	-24.	-4.	0.0	0.	0.0	0.0
-200.	2397.	-200.	60186.	-10.	2.	8.4	72.	0.0	0.0
-175.	2397.	-175.	60193.	3.	-4.	0.0	0.	0.0	0.0
-150.	2398.	-150.	60520.	8.	-2.	0.0	0.	0.0	0.0
-125.	2398.	-125.	60187.	17.	2.	0.0	0.	0.0	0.0
-100.	2398.	-100.	60149.	25.	-13.	0.0	0.	0.0	0.0
-75.	2399.	-75.	60168.	-15.	-28.	0.0	0.	0.0	0.0
-50.	2399.	-50.	60153.	-3.	-21.	0.0	0.	0.0	0.0

LINE 2400

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
-25.	2400.	-25.	60308.	12.	-18.	0.0	0.	0.0	0.0
0.	2400.	0.	60450.	23.	15.	3.5	180.	0.1	0.1
25.	2400.	25.	60285.	37.	-17.	0.0	0.	0.0	0.0
50.	2400.	50.	60114.	38.	-12.	0.0	0.	0.0	0.0
75.	2400.	75.	60274.	39.	-16.	0.0	0.	0.0	0.0
100.	2400.	100.	60171.	34.	-16.	0.0	0.	0.0	0.0
125.	2400.	125.	60250.	25.	-18.	0.0	0.	0.0	0.0
150.	2400.	150.	60305.	13.	-18.	0.0	0.	0.0	0.0
175.	2400.	175.	60423.	5.	-36.	0.0	0.	0.0	0.0
200.	2400.	200.	60220.	-20.	-36.	0.0	0.	0.0	0.0
225.	2400.	225.	60507.	45.	34.	0.0	0.	0.0	0.0
250.	2400.	250.	60534.	15.	2.	0.0	0.	0.0	0.0
275.	2400.	275.	60770.	4.	1.	0.0	0.	0.0	0.0
300.	2400.	300.	61173.	-5.	0.	0.0	0.	0.0	0.0

Line information

Line: 2700
Number of records : 49.
Channel 1 min: -1100.000 max: 100.0000
Channel 2 min: 999.0000 max: 2680.000
Channel 3 min: -1060.000 max: 999.0000
Channel 4 min: 60040.00 max: 60906.00

LINE 2700

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
-1100.	2675.	-1060.	60040.	12.	-1.	3.9	155.	0.1	0.1
-1075.	2674.	-1036.	60655.	16.	-3.	0.0	0.	0.0	0.0
-1050.	2673.	-1012.	60148.	20.	3.	0.0	0.	0.0	0.0
-1025.	2671.	-989.	60186.	32.	2.	0.0	0.	0.0	0.0
-1000.	2670.	-965.	60231.	2.	2.	0.0	0.	0.0	0.0
-975.	2669.	-941.	60280.	-3.	-5.	0.0	0.	0.0	0.0
-950.	2668.	-917.	60380.	-1.	2.	0.0	0.	0.0	0.0
-925.	2667.	-893.	60343.	-9.	5.	0.0	0.	0.0	0.0
-900.	2665.	-870.	60386.	-8.	7.	2.0	268.	0.1	0.1
-875.	2664.	-846.	60380.	-14.	7.	0.0	0.	0.0	0.0
-850.	2663.	-822.	60385.	-10.	6.	0.0	0.	0.0	0.0
-825.	2662.	-798.	60472.	-29.	-4.	0.0	0.	0.0	0.0
-800.	2661.	-774.	60439.	-32.	-9.	0.0	0.	0.0	0.0
-775.	2660.	-750.	60443.	-22.	-33.	0.0	0.	0.0	0.0
-750.	2658.	-727.	60499.	-9.	-29.	0.0	0.	0.0	0.0
-725.	2657.	-703.	60560.	3.	-21.	0.0	0.	0.0	0.0
-700.	2656.	-679.	60706.	14.	-21.	2.9	91.	0.1	0.4
-675.	2655.	-655.	60906.	4.	-11.	0.0	0.	0.0	0.0
-650.	2654.	-631.	0.	0.	0.	0.0	0.	0.0	0.0
-625.	2652.	-608.	0.	0.	0.	0.0	0.	0.0	0.0
-600.	2651.	-584.	0.	0.	0.	2.6	195.	0.1	0.2
-575.	2650.	-560.	0.	0.	0.	0.0	0.	0.0	0.0
-550.	2656.	-538.	0.	0.	0.	0.0	0.	0.0	0.0
-525.	2662.	-516.	0.	0.	0.	0.0	0.	0.0	0.0
-500.	2668.	-494.	0.	0.	0.	3.2	205.	0.0	0.0
-475.	2674.	-472.	0.	0.	0.	0.0	0.	0.0	0.0
-450.	2680.	-450.	60246.	-30.	-12.	0.0	0.	0.0	0.0
-425.	2680.	-425.	60246.	-15.	-8.	0.0	0.	0.0	0.0
-400.	2679.	-400.	60322.	-9.	0.	0.0	0.	0.0	0.0
-375.	2679.	-375.	60409.	5.	1.	0.0	0.	0.0	0.0
-350.	2679.	-350.	60575.	10.	3.	0.0	0.	0.0	0.0
-325.	2679.	-325.	60455.	20.	6.	0.0	0.	0.0	0.0
-300.	2678.	-300.	60741.	10.	5.	5.9	116.	0.1	0.1
-275.	2678.	-275.	60410.	17.	5.	0.0	0.	0.0	0.0
-250.	2678.	-250.	60668.	20.	4.	0.0	0.	0.0	0.0
-225.	2678.	-225.	60827.	25.	1.	0.0	0.	0.0	0.0
-200.	2677.	-200.	60177.	35.	10.	0.0	0.	0.0	0.0
-175.	2677.	-175.	60250.	7.	-12.	0.0	0.	0.0	0.0
-150.	2677.	-150.	60272.	-6.	-12.	0.0	0.	0.0	0.0
-125.	2676.	-125.	60270.	7.	-7.	0.0	0.	0.0	0.0
-100.	2676.	-100.	60248.	10.	22.	1.1	108.	0.1	0.1
-75.	2676.	-75.	60280.	7.	-7.	0.0	0.	0.0	0.0
-50.	2676.	-50.	60289.	-3.	-28.	0.0	0.	0.0	0.0
-25.	2675.	-25.	0.	0.	0.	0.0	0.	0.0	0.0
0.	999.	999.	60265.	-15.	-32.	0.0	0.	0.1	0.2
25.	2675.	25.	60312.	-10.	-34.	0.0	0.	0.0	0.0
50.	2675.	50.	60378.	23.	32.	0.0	0.	0.0	0.0
75.	2675.	75.	60332.	14.	-34.	0.0	0.	0.0	0.0

LINE 2700

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
100.	2675.	100.	60411.	32.	-24.	2.3	155.	0.1	0.1

#Line information#

Line: 1100
Number of records : 30.
Channel 1 min: -550.0000 max: 175.0000
Channel 2 min: 1100.000 max: 1100.000
Channel 3 min: -550.0000 max: 175.0000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE 1100

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
-550.	1100.	-550.	0.	-29.	-12.	0.0	0.	0.0	0.0
-525.	1100.	-525.	0.	-9.	1.	0.0	0.	0.0	0.0
-500.	1100.	-500.	0.	-1.	19.	2.9	188.	0.1	0.1
-475.	1100.	-475.	0.	7.	13.	0.0	0.	0.0	0.0
-450.	1100.	-450.	0.	4.	4.	0.0	0.	0.0	0.0
-425.	1100.	-425.	0.	-4.	11.	0.0	0.	0.0	0.0
-400.	1100.	-400.	0.	-31.	9.	0.0	0.	0.0	0.0
-375.	1100.	-375.	0.	-70.	4.	0.0	0.	0.0	0.0
-350.	1100.	-350.	0.	-45.	18.	0.0	0.	0.0	0.0
-325.	1100.	-325.	0.	-45.	22.	0.0	0.	0.0	0.0
-300.	1100.	-300.	0.	-25.	36.	2.4	179.	0.1	0.1
-275.	1100.	-275.	0.	-15.	37.	0.0	0.	0.0	0.0
-250.	1100.	-250.	0.	-30.	16.	0.0	0.	0.0	0.0
-225.	1100.	-225.	0.	-25.	17.	0.0	0.	0.0	0.0
-200.	1100.	-200.	0.	-21.	17.	0.0	0.	0.0	0.0
-175.	1100.	-175.	0.	-10.	20.	0.0	0.	0.0	0.0
-150.	1100.	-150.	0.	-10.	16.	0.0	0.	0.0	0.0
-125.	1100.	-125.	0.	5.	23.	0.0	0.	0.0	0.0
-100.	1100.	-100.	0.	-7.	11.	2.1	158.	0.1	0.1
-75.	1100.	-75.	0.	-20.	5.	0.0	0.	0.0	0.0
-50.	1100.	-50.	0.	-22.	6.	0.0	0.	0.0	0.0
-25.	1100.	-25.	0.	-25.	3.	0.0	0.	0.0	0.0
0.	1100.	0.	0.	-25.	8.	4.5	146.	0.1	0.1
25.	1100.	25.	0.	-20.	18.	0.0	0.	0.0	0.0
50.	1100.	50.	0.	-20.	-1.	0.0	0.	0.0	0.0
75.	1100.	75.	0.	-5.	12.	0.0	0.	0.0	0.0
100.	1100.	100.	0.	5.	7.	9.7	131.	0.1	0.1
125.	1100.	125.	0.	15.	17.	0.0	0.	0.0	0.0
150.	1100.	150.	0.	20.	9.	0.0	0.	0.0	0.0
175.	1100.	175.	0.	25.	18.	0.0	0.	0.0	0.0

Line information

Line: 1300
Number of records : 30.
Channel 1 min: -550.0000 max: 175.0000
Channel 2 min: 1275.000 max: 1300.000
Channel 3 min: -550.0000 max: 175.0000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE 1300

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
-550.	1275.	-550.	0.	-10.	6.	0.0	0.	0.0	0.0
-525.	1276.	-525.	0.	-5.	7.	0.0	0.	0.0	0.0
-500.	1277.	-500.	0.	10.	13.	2.9	204.	0.1	0.2
-475.	1278.	-475.	0.	-7.	5.	0.0	0.	0.0	0.0
-450.	1280.	-450.	0.	-3.	14.	0.0	0.	0.0	0.0
-425.	1281.	-425.	0.	-5.	24.	0.0	0.	0.0	0.0
-400.	1282.	-400.	0.	-65.	0.	0.0	0.	0.0	0.0
-375.	1283.	-375.	0.	-50.	16.	0.0	0.	0.0	0.0
-350.	1284.	-350.	0.	-45.	18.	0.0	0.	0.0	0.0
-325.	1285.	-325.	0.	-45.	12.	0.0	0.	0.0	0.0
-300.	1286.	-300.	0.	-40.	19.	4.2	149.	0.1	0.1
-275.	1288.	-275.	0.	-30.	22.	0.0	0.	0.0	0.0
-250.	1289.	-250.	0.	-30.	22.	0.0	0.	0.0	0.0
-225.	1290.	-225.	0.	-30.	22.	0.0	0.	0.0	0.0
-200.	1291.	-200.	0.	-25.	20.	0.0	0.	0.0	0.0
-175.	1292.	-175.	0.	-25.	17.	0.0	0.	0.0	0.0
-150.	1293.	-150.	0.	-20.	10.	0.0	0.	0.0	0.0
-125.	1294.	-125.	0.	-20.	12.	0.0	0.	0.0	0.0
-100.	1295.	-100.	0.	-15.	8.	8.8	110.	0.1	0.1
-75.	1297.	-75.	0.	-12.	14.	0.0	0.	0.0	0.0
-50.	1298.	-50.	0.	-7.	13.	0.0	0.	0.0	0.0
-25.	1299.	-25.	0.	-6.	10.	0.0	0.	0.0	0.0
0.	1300.	0.	0.	-4.	4.	3.7	173.	0.1	0.2
25.	1300.	25.	0.	-4.	8.	0.0	0.	0.0	0.0
50.	1300.	50.	0.	5.	8.	0.0	0.	0.0	0.0
75.	1300.	75.	0.	11.	7.	0.0	0.	0.0	0.0
100.	1300.	100.	0.	18.	4.	2.1	134.	0.1	0.2
125.	1300.	125.	0.	15.	-3.	0.0	0.	0.0	0.0
150.	1300.	150.	0.	23.	-11.	0.0	0.	0.0	0.0
175.	1300.	175.	0.	32.	2.	0.0	0.	0.0	0.0

Line information

Line: 500
Number of records : 19.

Channel 1	min:	0.0000000	max:	450.0000
Channel 2	min:	500.0000	max:	500.0000
Channel 3	min:	0.0000000	max:	450.0000
Channel 4	min:	60174.00	max:	62519.00

LINE 500

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
0.	500.	0.	60328.	20.	15.	3.1	154.	0.0	0.0
25.	500.	25.	62519.	-10.	4.	0.0	0.	0.0	0.0
50.	500.	50.	60241.	-50.	-8.	0.0	0.	0.0	0.0
75.	500.	75.	60263.	-42.	-4.	0.0	0.	0.0	0.0
100.	500.	100.	60174.	-37.	4.	0.0	0.	0.0	0.0
125.	500.	125.	60211.	-30.	0.	0.0	0.	0.0	0.0
150.	500.	150.	60201.	-21.	4.	0.0	0.	0.0	0.0
175.	500.	175.	60225.	-15.	4.	0.0	0.	0.0	0.0
200.	500.	200.	60226.	-12.	0.	4.3	134.	0.0	0.0
225.	500.	225.	60240.	-6.	2.	0.0	0.	0.0	0.0
250.	500.	250.	60232.	-4.	2.	0.0	0.	0.0	0.0
275.	500.	275.	60282.	0.	4.	0.0	0.	0.0	0.0
300.	500.	300.	60196.	5.	0.	0.0	0.	0.0	0.0
325.	500.	325.	60237.	10.	0.	0.0	0.	0.0	0.0
350.	500.	350.	60228.	10.	-2.	0.0	0.	0.0	0.0
375.	500.	375.	60252.	5.	-6.	0.0	0.	0.0	0.0
400.	500.	400.	60275.	-11.	-18.	5.8	99.	0.0	0.0
425.	500.	425.	60314.	0.	-20.	0.0	0.	0.0	0.0
450.	500.	450.	60361.	5.	-18.	0.0	0.	0.0	0.0

Line Information

Line: 800
Number of records : 47.
Channel 1 min: -600.0000 max: 550.0000
Channel 2 min: 800.0000 max: 800.0000
Channel 3 min: -600.0000 max: 550.0000
Channel 4 min: 60021.00 max: 64339.00

LINE 800

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
-600.	800.	-600.	60313.	-35.	-12.	0.0	0.	0.0	0.0
-575.	800.	-575.	60295.	-20.	-10.	0.0	0.	0.0	0.0
-550.	800.	-550.	60248.	-8.	-7.	0.0	0.	0.0	0.0
-525.	800.	-525.	60410.	-8.	-4.	0.0	0.	0.0	0.0
-500.	800.	-500.	60345.	0.	2.	0.0	0.	0.0	0.0
-475.	800.	-475.	60546.	6.	4.	0.0	0.	0.0	0.0
-450.	800.	-450.	60662.	9.	10.	0.0	0.	0.0	0.0
-425.	800.	-425.	60921.	6.	6.	0.0	0.	0.0	0.0
-400.	800.	-400.	60271.	-6.	10.	0.0	0.	0.0	0.0
-375.	800.	-375.	60360.	-20.	8.	0.0	0.	0.0	0.0
-350.	800.	-350.	60148.	-80.	1.	0.0	0.	0.0	0.0
-325.	800.	-325.	60206.	-70.	0.	0.0	0.	0.0	0.0
-300.	800.	-300.	60273.	-65.	10.	0.0	0.	0.0	0.0
-275.	800.	-275.	60225.	-65.	20.	0.0	0.	0.0	0.0
-250.	800.	-250.	60391.	-55.	29.	0.0	0.	0.0	0.0
-225.	800.	-225.	60378.	-40.	40.	0.0	0.	0.0	0.0
-200.	800.	-200.	60361.	-4.	32.	0.0	0.	0.0	0.0
-175.	800.	-175.	60363.	-20.	23.	0.0	0.	0.0	0.0
-150.	800.	-150.	60359.	-35.	6.	0.0	0.	0.0	0.0
-125.	800.	-125.	60530.	-28.	10.	0.0	0.	0.0	0.0
-100.	800.	-100.	60445.	-8.	32.	2.5	144.	0.2	1.4
-75.	800.	-75.	60378.	10.	20.	0.0	0.	0.0	0.0
-50.	800.	-50.	60629.	13.	25.	0.0	0.	0.0	0.0
-25.	800.	-25.	64339.	-5.	13.	0.0	0.	0.0	0.0
0.	800.	0.	60134.	-55.	-8.	0.0	0.	0.0	0.0
25.	800.	25.	60985.	-50.	-6.	0.0	0.	0.0	0.0
50.	800.	50.	60705.	-35.	2.	0.0	0.	0.0	0.0
75.	800.	75.	60692.	-25.	6.	0.0	0.	0.0	0.0
100.	800.	100.	60453.	-23.	6.	0.0	0.	0.0	0.0
125.	800.	125.	60538.	-15.	3.	0.0	0.	0.0	0.0
150.	800.	150.	60298.	-7.	2.	0.0	0.	0.0	0.0
175.	800.	175.	60336.	0.	9.	0.0	0.	0.0	0.0
200.	800.	200.	60290.	5.	7.	7.5	45.	0.1	0.1
225.	800.	225.	60308.	15.	10.	0.0	0.	0.0	0.0
250.	800.	250.	60327.	10.	2.	0.0	0.	0.0	0.0
275.	800.	275.	60268.	0.	-4.	0.0	0.	0.0	0.0
300.	800.	300.	60322.	-16.	-10.	0.0	0.	0.0	0.0
325.	800.	325.	60169.	-10.	-6.	0.0	0.	0.0	0.0
350.	800.	350.	60129.	-12.	-13.	0.0	0.	0.0	0.0
375.	800.	375.	60162.	-20.	-22.	0.0	0.	0.0	0.0
400.	800.	400.	60187.	-5.	-11.	6.2	119.	0.1	0.1
425.	800.	425.	60167.	10.	-12.	0.0	0.	0.0	0.0
450.	800.	450.	60021.	10.	-10.	0.0	0.	0.0	0.0
475.	800.	475.	60893.	15.	10.	0.0	0.	0.0	0.0
500.	800.	500.	60412.	16.	-12.	0.0	0.	0.0	0.0
525.	800.	525.	60380.	26.	-11.	0.0	0.	0.0	0.0
550.	800.	550.	60376.	28.	-6.	0.0	0.	0.0	0.0

#Line information#

Line: M900
Number of records : 37.
Channel 1 min: -550.0000 max: 350.0000
Channel 2 min: 900.0000 max: 900.0000
Channel 3 min: -550.0000 max: 625.0000
Channel 4 min: 60006.00 max: 60971.00

LINE M900

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
-550.	900.	-550.	60361.	-7.	-1.	0.0	0.	0.0	0.0
-525.	900.	-525.	60365.	0.	2.	0.0	0.	0.0	0.0
-500.	900.	-500.	60397.	6.	8.	3.9	51.	0.1	0.1
-475.	900.	-475.	60878.	10.	12.	0.0	0.	0.0	0.0
-450.	900.	-450.	60006.	-10.	5.	0.0	0.	0.0	0.0
-425.	900.	-425.	60152.	-34.	2.	0.0	0.	0.0	0.0
-400.	900.	-400.	60167.	-50.	-5.	0.0	0.	0.0	0.0
-375.	900.	-375.	60162.	-70.	-7.	0.0	0.	0.0	0.0
-350.	900.	-350.	60114.	-63.	12.	0.0	0.	0.0	0.0
-325.	900.	-325.	60154.	-50.	23.	0.0	0.	0.0	0.0
-300.	900.	-300.	60307.	-55.	26.	3.9	43.	0.1	0.1
-275.	900.	-275.	60253.	-20.	42.	0.0	0.	0.0	0.0
-250.	900.	-250.	60275.	-45.	12.	0.0	0.	0.0	0.0
-225.	900.	-225.	60351.	-50.	4.	0.0	0.	0.0	0.0
-200.	900.	-200.	60283.	-30.	12.	0.0	0.	0.0	0.0
-175.	900.	-175.	60351.	-19.	16.	0.0	0.	0.0	0.0
-150.	900.	-150.	60298.	-10.	16.	0.0	0.	0.0	0.0
-125.	900.	-125.	60677.	-4.	20.	0.0	0.	0.0	0.0
-100.	900.	-100.	60690.	10.	30.	5.0	203.	0.1	0.1
-75.	900.	-75.	60971.	10.	15.	0.0	0.	0.0	0.0
-50.	900.	-50.	60190.	-4.	10.	0.0	0.	0.0	0.0
-25.	900.	-25.	60268.	-30.	5.	0.0	0.	0.0	0.0
0.	900.	0.	60261.	-60.	-2.	3.9	234.	0.1	0.2
25.	900.	275.	60161.	-40.	-1.	0.0	0.	0.0	0.0
50.	900.	302.	60268.	-35.	6.	0.0	0.	0.0	0.0
75.	900.	329.	60261.	-30.	2.	0.0	0.	0.0	0.0
100.	900.	356.	60284.	-35.	4.	8.6	416.	0.6	0.1
125.	900.	383.	60500.	-15.	8.	0.0	0.	0.0	0.0
150.	900.	410.	60211.	-10.	6.	0.0	0.	0.0	0.0
175.	900.	437.	60247.	-7.	6.	0.0	0.	0.0	0.0
200.	900.	465.	60312.	5.	8.	0.0	0.	0.0	0.0
225.	900.	492.	60270.	8.	12.	0.0	0.	0.0	0.0
250.	900.	519.	60267.	15.	9.	0.0	0.	0.0	0.0
275.	900.	546.	60225.	18.	14.	0.0	0.	0.0	0.0
300.	900.	573.	60080.	25.	8.	8.0	308.	0.1	0.1
325.	900.	600.	60402.	35.	8.	0.0	0.	0.0	0.0
350.	0.	625.	0.	35.	21.	0.0	0.	0.0	0.0

Line information

Line: 4400
Number of records : 12.
Channel 1 min: -450.0000 max: -175.0000
Channel 2 min: 4335.000 max: 4340.000
Channel 3 min: -585.0000 max: -285.0000
Channel 4 min: 60647.00 max: 61348.00

LINE 4400

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
-450.	4340.	-585.	0.	0.	17.	0.0	0.	0.0	0.0
-425.	4340.	-558.	0.	-9.	18.	0.0	0.	0.0	0.0
-400.	4339.	-530.	0.	0.	0.	0.0	0.	0.0	0.0
-375.	4339.	-503.	0.	0.	0.	0.0	0.	0.0	0.0
-350.	4338.	-476.	0.	0.	0.	0.0	0.	0.0	0.0
-325.	4338.	-449.	0.	0.	0.	0.0	0.	0.0	0.0
-300.	4337.	-421.	0.	0.	0.	0.0	0.	0.0	0.0
-275.	4337.	-394.	0.	0.	0.	0.0	0.	0.0	0.0
-250.	4336.	-367.	60703.	-6.	-23.	3.0	200.	0.1	0.1
-225.	4336.	-340.	61188.	2.	-16.	0.0	0.	0.0	0.0
-200.	4335.	-312.	60647.	22.	-16.	0.0	0.	0.0	0.0
-175.	4335.	-285.	61348.	40.	-5.	0.0	0.	0.0	0.0

%Line information%

Line: 4300
Number of records : 18.
Channel 1 min: -550.0000 max: -125.0000
Channel 2 min: 4230.000 max: 4230.000
Channel 3 min: -675.0000 max: -235.0000
Channel 4 min: -0.1000000E-29 max: 60763.00

LINE 4300

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
-550.	4230.	-675.	0.	-45.	-15.	3.0	129.	0.1	0.1
-525.	4230.	-649.	0.	-13.	1.	0.0	0.	0.0	0.0
-500.	4230.	-623.	0.	-9.	-9.	0.0	0.	0.0	0.0
-475.	4230.	-597.	0.	9.	-2.	0.0	0.	0.0	0.0
-450.	4230.	-571.	0.	-5.	12.	2.7	208.	0.1	0.1
-425.	4230.	-546.	0.	0.	12.	0.0	0.	0.0	0.0
-400.	4230.	-520.	0.	-19.	12.	0.0	0.	0.0	0.0
-375.	4230.	-494.	0.	18.	-16.	0.0	0.	0.0	0.0
-350.	4230.	-468.	0.	16.	-25.	0.0	0.	0.0	0.0
-325.	4230.	-442.	0.	24.	-21.	0.0	0.	0.0	0.0
-300.	4230.	-416.	0.	0.	0.	0.0	0.	0.0	0.0
-275.	4230.	-390.	60063.	-27.	-21.	0.0	0.	0.0	0.0
-250.	4230.	-364.	60662.	-18.	-24.	5.9	194.	0.1	0.1
-225.	4230.	-339.	60763.	-2.	-33.	0.0	0.	0.0	0.0
-200.	4230.	-313.	60542.	3.	-19.	0.0	0.	0.0	0.0
-175.	4230.	-287.	60445.	22.	-17.	0.0	0.	0.0	0.0
-150.	4230.	-261.	60539.	35.	-2.	3.1	233.	0.1	0.2
-125.	4230.	-235.	60493.	38.	4.	0.0	0.	0.0	0.0

Line information

Line: 4200
Number of records : 18.
Channel 1 min: -550.0000 max: -125.0000
Channel 2 min: 4130.000 max: 4140.000
Channel 3 min: -675.0000 max: -225.0000
Channel 4 min: 60155.00 max: 64526.00

LINE 4200

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
-550.	4130.	-675.	0.	-55.	-9.	1.0	129.	0.1	0.1
-525.	4131.	-649.	0.	-17.	-11.	0.0	0.	0.0	0.0
-500.	4131.	-622.	0.	-8.	-1.	0.0	0.	0.0	0.0
-475.	4132.	-596.	0.	-25.	-16.	0.0	0.	0.0	0.0
-450.	4132.	-569.	0.	-17.	-11.	4.0	5.	0.0	0.0
-425.	4133.	-543.	0.	12.	-7.	0.0	0.	0.0	0.0
-400.	4134.	-516.	0.	-15.	-18.	0.0	0.	0.0	0.0
-375.	4134.	-490.	0.	0.	-32.	0.0	0.	0.0	0.0
-350.	4135.	-463.	0.	27.	-21.	4.7	234.	0.8	0.1
-325.	4135.	-437.	0.	0.	0.	0.0	0.	0.0	0.0
-300.	4136.	-410.	64526.	-43.	-21.	0.0	0.	0.0	0.0
-275.	4136.	-384.	60296.	-25.	-25.	0.0	0.	0.0	0.0
-250.	4137.	-357.	60608.	-4.	-21.	3.9	166.	0.1	0.1
-225.	4138.	-331.	60155.	-2.	-21.	0.0	0.	0.0	0.0
-200.	4138.	-304.	60494.	12.	-19.	0.0	0.	0.0	0.0
-175.	4139.	-278.	60484.	17.	-12.	0.0	0.	0.0	0.0
-150.	4139.	-251.	60857.	30.	11.	4.3	142.	0.1	0.1
-125.	4140.	-225.	60495.	38.	-4.	0.0	0.	0.0	0.0

Line information

Line: 2600M
Number of records : 50.

Channel 1	min:	-1100.000	max:	125.0000
Channel 2	min:	2560.000	max:	2575.000
Channel 3	min:	-1075.000	max:	125.0000
Channel 4	min:	60068.00	max:	63865.00

LINE 2600M

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
-1100.	2575.	-1075.	60364.	-5.	-15.	0.0	0.	0.0	0.0
-1075.	2574.	-1050.	60581.	3.	-7.	0.0	0.	0.0	0.0
-1050.	2574.	-1025.	60139.	12.	4.	0.0	0.	0.0	0.0
-1025.	2573.	-1000.	60350.	22.	0.	0.0	0.	0.0	0.0
-1000.	2572.	-975.	60262.	29.	6.	0.0	0.	0.0	0.0
-975.	2571.	-950.	60240.	47.	24.	0.0	0.	0.0	0.0
-950.	2571.	-925.	60068.	38.	24.	0.0	0.	0.0	0.0
-925.	2570.	-900.	60306.	26.	-3.	0.0	0.	0.0	0.0
-900.	2569.	-875.	60364.	15.	-4.	1.9	178.	0.1	0.1
-875.	2569.	-850.	60360.	4.	-11.	0.0	0.	0.0	0.0
-850.	2568.	-825.	60421.	8.	1.	0.0	0.	0.0	0.0
-825.	2567.	-800.	60464.	14.	-1.	0.0	0.	0.0	0.0
-800.	2566.	-775.	60494.	5.	-11.	0.0	0.	0.0	0.0
-775.	2566.	-750.	60516.	-1.	-9.	0.0	0.	0.0	0.0
-750.	2565.	-725.	60700.	-15.	-13.	0.0	0.	0.0	0.0
-725.	2564.	-700.	60453.	-3.	-18.	0.0	0.	0.0	0.0
-700.	2564.	-675.	60324.	2.	-10.	0.0	0.	0.0	0.0
-675.	2563.	-650.	60955.	13.	-4.	0.0	0.	0.0	0.0
-650.	2562.	-625.	60801.	48.	1.	0.0	0.	0.0	0.0
-625.	2561.	-600.	63865.	46.	-7.	0.0	0.	0.0	0.0
-600.	2561.	-575.	61646.	23.	-10.	0.0	0.	0.0	0.0
-575.	2560.	-550.	61127.	16.	-6.	0.0	0.	0.0	0.0
-550.	2563.	-530.	0.	0.	0.	0.0	0.	0.0	0.0
-525.	2566.	-510.	0.	0.	0.	0.0	0.	0.0	0.0
-500.	2569.	-490.	0.	0.	0.	0.0	0.	0.0	0.0
-475.	2572.	-470.	0.	0.	0.	0.0	0.	0.0	0.0
-450.	2575.	-450.	60251.	-30.	-12.	0.0	0.	0.0	0.0
-425.	2575.	-425.	60251.	-15.	-6.	0.0	0.	0.0	0.0
-400.	2575.	-400.	60381.	-3.	-1.	4.1	13.	0.1	0.2
-375.	2575.	-375.	63120.	4.	3.	0.0	0.	0.0	0.0
-350.	2575.	-350.	60183.	8.	2.	0.0	0.	0.0	0.0
-325.	2575.	-325.	60333.	3.	5.	0.0	0.	0.0	0.0
-300.	2575.	-300.	60414.	6.	6.	0.0	0.	0.0	0.0
-275.	2575.	-275.	60688.	-14.	-6.	0.0	0.	0.0	0.0
-250.	2575.	-250.	60528.	-19.	-10.	0.0	0.	0.0	0.0
-225.	2575.	-225.	60112.	-35.	-18.	0.0	0.	0.0	0.0
-200.	2575.	-200.	60141.	-25.	-12.	1.9	307.	0.1	0.2
-175.	2575.	-175.	60206.	-17.	-12.	0.0	0.	0.0	0.0
-150.	2575.	-150.	60383.	-11.	-15.	0.0	0.	0.0	0.0
-125.	2575.	-125.	60120.	17.	-18.	0.0	0.	0.0	0.0
-100.	2575.	-100.	61276.	17.	-18.	0.0	0.	0.0	0.0
-75.	2575.	-75.	60167.	12.	-32.	0.0	0.	0.0	0.0
-50.	2575.	-50.	60433.	20.	-22.	0.0	0.	0.0	0.0
-25.	2575.	-25.	60213.	25.	-22.	0.0	0.	0.0	0.0
0.	2575.	0.	60289.	25.	-14.	3.9	155.	0.1	0.1
25.	2575.	25.	60284.	32.	-16.	0.0	0.	0.0	0.0
50.	2575.	50.	60315.	-35.	-20.	0.0	0.	0.0	0.0
75.	2575.	75.	60305.	-35.	-16.	0.0	0.	0.0	0.0

LINE 2600N

STATION	X-COORD	Y COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
100.	2575.	100.	60351.	23.	-22.	0.0	0.	0.0	0.0
125.	2575.	125.	60384.	35.	-16.	0.0	0.	0.0	0.0

Line information

Line: 1700M
Number of records : 33.
Channel 1 min: -625.0000 max: 175.0000
Channel 2 min: 1700.000 max: 1700.000
Channel 3 min: -625.0000 max: 175.0000
Channel 4 min: 60217.00 max: 61342.00

LINE 1700M

STATION	X-COORD	Y-COORD	MAGNETIC	DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
-625.	1700.	-625.	60217.	-25.	7.	0.0	0.	0.0	0.0
-600.	1700.	-600.	60373.	-22.	10.	0.0	0.	0.0	0.0
-575.	1700.	-575.	60513.	-5.	15.	0.0	0.	0.0	0.0
-550.	1700.	-550.	60584.	7.	14.	0.0	0.	0.0	0.0
-525.	1700.	-525.	61006.	8.	16.	0.0	0.	0.0	0.0
-500.	1700.	-500.	60802.	15.	16.	2.0	145.	0.1	0.1
-475.	1700.	-475.	60354.	20.	10.	0.0	0.	0.0	0.0
-450.	1700.	-450.	60572.	16.	14.	0.0	0.	0.0	0.0
-425.	1700.	-425.	61342.	-12.	8.	0.0	0.	0.0	0.0
-400.	1700.	-400.	60329.	-57.	4.	0.0	0.	0.0	0.0
-375.	1700.	-375.	60279.	-50.	16.	0.0	0.	0.0	0.0
-350.	1700.	-350.	60444.	-40.	15.	0.0	0.	0.0	0.0
-325.	1700.	-325.	60321.	-35.	13.	0.0	0.	0.0	0.0
-300.	1700.	-300.	60360.	-30.	12.	1.7	166.	0.1	0.2
-275.	1700.	-275.	60897.	-21.	13.	0.0	0.	0.0	0.0
-250.	1700.	-250.	60594.	-37.	6.	0.0	0.	0.0	0.0
-225.	1700.	-225.	60535.	-24.	7.	0.0	0.	0.0	0.0
-200.	1700.	-200.	60257.	-12.	8.	0.0	0.	0.0	0.0
-175.	1700.	-175.	60286.	-8.	8.	0.0	0.	0.0	0.0
-150.	1700.	-150.	60303.	-15.	7.	0.0	0.	0.0	0.0
-125.	1700.	-125.	60300.	-5.	0.	0.0	0.	0.0	0.0
-100.	1700.	-100.	60321.	-20.	-13.	4.3	105.	0.1	0.2
-75.	1700.	-75.	60382.	5.	-2.	0.0	0.	0.0	0.0
-50.	1700.	-50.	60442.	10.	-1.	0.0	0.	0.0	0.0
-25.	1700.	-25.	60444.	7.	-3.	0.0	0.	0.0	0.0
0.	1700.	0.	60438.	10.	1.	2.1	167.	0.1	0.4
25.	1700.	25.	60228.	12.	25.	0.0	0.	0.0	0.0
50.	1700.	50.	60521.	17.	20.	0.0	0.	0.0	0.0
75.	1700.	75.	60444.	20.	12.	0.0	0.	0.0	0.0
100.	1700.	100.	61008.	20.	12.	5.5	173.	0.1	0.1
125.	1700.	125.	60345.	17.	6.	0.0	0.	0.0	0.0
150.	1700.	150.	60228.	10.	8.	0.0	0.	0.0	0.0
175.	1700.	175.	60318.	15.	4.	0.0	0.	0.0	0.0

Line information

Line: 1800M
Number of records : 45.

Channel 1	min:	-600.0000	max:	500.0000
Channel 2	min:	1800.000	max:	1800.000
Channel 3	min:	-600.0000	max:	500.0000
Channel 4	min:	60031.00	max:	60773.00

LINE 1800M

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
-600.	1800.	-600.	60335.	45.	-14.	0.0	0.	0.0	0.0
-575.	1800.	-575.	60424.	42.	-18.	0.0	0.	0.0	0.0
-550.	1800.	-550.	60444.	38.	-16.	0.0	0.	0.0	0.0
-525.	1800.	-525.	60682.	15.	-17.	0.0	0.	0.0	0.0
-500.	1800.	-500.	60639.	25.	-22.	1.1	129.	0.1	0.1
-475.	1800.	-475.	60634.	45.	-22.	0.0	0.	0.0	0.0
-450.	1800.	-450.	60447.	35.	-24.	0.0	0.	0.0	0.0
-425.	1800.	-425.	60605.	-25.	-11.	0.0	0.	0.0	0.0
-400.	1800.	-400.	60151.	-35.	14.	0.0	0.	0.0	0.0
-375.	1800.	-375.	60634.	-20.	38.	0.0	0.	0.0	0.0
-350.	1800.	-350.	60235.	-20.	38.	0.0	0.	0.0	0.0
-325.	1800.	-325.	60211.	-20.	44.	0.0	0.	0.0	0.0
-300.	1800.	-300.	60223.	5.	24.	0.0	0.	0.0	0.0
-275.	1800.	-275.	60228.	5.	25.	0.0	0.	0.0	0.0
-250.	1800.	-250.	60374.	10.	27.	0.0	0.	0.0	0.0
-225.	1800.	-225.	60773.	15.	21.	0.0	0.	0.0	0.0
-200.	1800.	-200.	60195.	5.	4.	0.0	0.	0.0	0.0
-175.	1800.	-175.	60704.	25.	-16.	0.0	0.	0.0	0.0
-150.	1800.	-150.	60216.	25.	8.	0.0	0.	0.0	0.0
-125.	1800.	-125.	60228.	20.	-2.	0.0	0.	0.0	0.0
-100.	1800.	-100.	60402.	15.	-3.	4.3	183.	0.1	0.1
-75.	1800.	-75.	60275.	20.	-24.	0.0	0.	0.0	0.0
-50.	1800.	-50.	60273.	10.	-4.	0.0	0.	0.0	0.0
-25.	1800.	-25.	60300.	10.	-13.	0.0	0.	0.0	0.0
0.	1800.	0.	60385.	20.	-4.	4.3	240.	0.1	0.2
25.	1800.	25.	60329.	15.	-7.	0.0	0.	0.0	0.0
50.	1800.	50.	60449.	30.	-7.	0.0	0.	0.0	0.0
75.	1800.	75.	60302.	30.	-8.	0.0	0.	0.0	0.0
100.	1800.	100.	60547.	-30.	2.	0.0	0.	0.0	0.0
125.	1800.	125.	60254.	-20.	-6.	0.0	0.	0.0	0.0
150.	1800.	150.	60406.	-30.	9.	0.0	0.	0.0	0.0
175.	1800.	175.	60317.	-27.	-9.	0.0	0.	0.0	0.0
200.	1800.	200.	60364.	-30.	-6.	0.0	0.	0.0	0.0
225.	1800.	225.	60308.	-25.	-8.	0.0	0.	0.0	0.0
250.	1800.	250.	60439.	-20.	-4.	0.0	0.	0.0	0.0
275.	1800.	275.	60641.	-15.	-11.	0.0	0.	0.0	0.0
300.	1800.	300.	60488.	-10.	-12.	0.0	0.	0.0	0.0
325.	1800.	325.	60335.	7.	-8.	0.0	0.	0.0	0.0
350.	1800.	350.	60600.	20.	-4.	0.0	0.	0.0	0.0
375.	1800.	375.	60459.	-15.	-20.	0.0	0.	0.0	0.0
400.	1800.	400.	60442.	-5.	-22.	4.0	352.	0.1	0.1
425.	1800.	425.	60441.	15.	-32.	0.0	0.	0.0	0.0
450.	1800.	450.	60425.	35.	-26.	0.0	0.	0.0	0.0
475.	1800.	475.	60275.	35.	-17.	0.0	0.	0.0	0.0
500.	1800.	500.	60031.	25.	-12.	0.0	0.	0.0	0.0

Line information

Line: 2300M
Number of records : 43.

Channel 1	min:	-625.0000	max:	575.0000
Channel 2	min:	2200.000	max:	2300.000
Channel 3	min:	-625.0000	max:	575.0000
Channel 4	min:	59689.00	max:	63122.00

LINE 2300M

STATION	X-COORD	Y-COORD	MAGNETIC	DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
-625.	2200.	-625.	0.	12.	17.	0.0	0.	0.0	0.0	
-600.	2204.	-600.	0.	-11.	-9.	0.0	0.	0.0	0.0	
-575.	2208.	-575.	0.	2.	5.	0.0	0.	0.0	0.0	
-550.	2212.	-550.	0.	-27.	-7.	0.0	0.	0.0	0.0	
-525.	2216.	-525.	0.	14.	9.	0.0	0.	0.0	0.0	
-500.	2220.	-500.	60394.	20.	6.	8.6	73.	0.1	0.1	
-475.	2224.	-475.	60416.	5.	3.	0.0	0.	0.0	0.0	
-450.	2228.	-450.	62865.	-1.	3.	0.0	0.	0.0	0.0	
-425.	2232.	-425.	60515.	-5.	-2.	0.0	0.	0.0	0.0	
-400.	2236.	-400.	60674.	-6.	-9.	0.0	0.	0.0	0.0	
-375.	2240.	-375.	60515.	21.	7.	0.0	0.	0.0	0.0	
-350.	2244.	-350.	60674.	5.	-11.	0.0	0.	0.0	0.0	
-325.	2248.	-325.	60986.	17.	-1.	0.0	0.	0.0	0.0	
-300.	2252.	-300.	63122.	51.	12.	5.2	209.	0.1	0.1	
-275.	2256.	-275.	60287.	32.	-1.	0.0	0.	0.0	0.0	
-250.	2260.	-250.	60339.	51.	14.	0.0	0.	0.0	0.0	
-225.	2264.	-225.	60480.	26.	-4.	0.0	0.	0.0	0.0	
-200.	2268.	-200.	59889.	11.	-5.	0.0	0.	0.0	0.0	
-175.	2272.	-175.	60783.	-2.	-9.	0.0	0.	0.0	0.0	
-150.	2276.	-150.	59689.	-36.	-12.	0.0	0.	0.0	0.0	
-125.	2280.	-125.	61157.	-10.	-2.	0.0	0.	0.0	0.0	
-100.	2284.	-100.	60285.	75.	30.	3.7	175.	0.1	0.1	
-75.	2288.	-75.	60216.	30.	34.	0.0	0.	0.0	0.0	
-50.	2292.	-50.	60271.	5.	26.	0.0	0.	0.0	0.0	
-25.	2296.	-25.	60254.	-12.	14.	0.0	0.	0.0	0.0	
0.	2300.	0.	60330.	3.	-34.	0.0	0.	0.0	0.0	
25.	2300.	32.	63104.	25.	-2.	0.0	0.	0.0	0.0	
50.	2300.	64.	62530.	35.	-19.	0.0	0.	0.0	0.0	
75.	2300.	95.	62906.	35.	-12.	0.0	0.	0.0	0.0	
100.	2300.	127.	62901.	35.	-8.	0.0	0.	0.0	0.0	
125.	2300.	159.	62539.	-35.	-15.	0.0	0.	0.0	0.0	
150.	2300.	191.	60539.	-55.	-22.	0.0	0.	0.0	0.0	
175.	2300.	222.	61439.	-25.	-24.	0.0	0.	0.0	0.0	
200.	2300.	254.	61469.	20.	-12.	1.7	150.	0.1	0.1	
225.	2300.	286.	61551.	40.	-17.	0.0	0.	0.0	0.0	
250.	2300.	318.	61423.	5.	-28.	0.0	0.	0.0	0.0	
275.	2300.	349.	61567.	-5.	-24.	0.0	0.	0.0	0.0	
300.	2300.	381.	62650.	-8.	-42.	2.6	137.	0.1	0.1	
325.	2300.	413.	62500.	15.	-40.	0.0	0.	0.0	0.0	
350.	2300.	445.	62301.	15.	-36.	0.0	0.	0.0	0.0	
375.	2300.	476.	61827.	35.	-21.	0.0	0.	0.0	0.0	
400.	2300.	508.	61801.	35.	-17.	0.0	0.	0.0	0.0	
425.	2300.	540.	61142.	45.	-17.	0.0	0.	0.0	0.0	

Line Information

Line: 2500N
Number of records : 50.
Channel 1 min: -1100.000 max: 125.0000
Channel 2 min: 2470.000 max: 2495.000
Channel 3 min: -1100.000 max: 125.0000
Channel 4 min: 59871.00 max: 65280.00

LINE 2500N

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-PPM	Hg-PPB	Sb-PPM	Ag-PPM
-1100.	2470.	-1100.	60054.	-9.	-6.	4.7	62.	0.1	0.1
-1075.	2471.	-1075.	60176.	-10.	-5.	0.0	0.	0.0	0.0
-1050.	2471.	-1050.	60251.	3.	-6.	0.0	0.	0.0	0.0
-1025.	2472.	-1025.	60250.	-18.	-12.	0.0	0.	0.0	0.0
-1000.	2472.	-1000.	60257.	-18.	-12.	0.0	0.	0.0	0.0
-975.	2473.	-975.	60532.	-12.	-4.	0.0	0.	0.0	0.0
-950.	2473.	-950.	60388.	-4.	-4.	0.0	0.	0.0	0.0
-925.	2474.	-925.	60443.	4.	0.	0.0	0.	0.0	0.0
-900.	2475.	-900.	0.	10.	0.	1.0	200.	0.1	0.2
-875.	2475.	-875.	60404.	14.	1.	0.0	0.	0.0	0.0
-850.	2476.	-850.	60412.	-5.	1.	0.0	0.	0.0	0.0
-825.	2476.	-825.	60425.	-10.	-5.	0.0	0.	0.0	0.0
-800.	2477.	-800.	60596.	12.	-4.	0.0	0.	0.0	0.0
-775.	2477.	-775.	60854.	23.	0.	0.0	0.	0.0	0.0
-750.	2478.	-750.	61133.	5.	-6.	0.0	0.	0.0	0.0
-725.	2479.	-725.	60811.	9.	-4.	0.0	0.	0.0	0.0
-700.	2479.	-700.	0.	15.	-3.	2.2	220.	0.1	0.1
-675.	2480.	-675.	0.	0.	0.	0.0	0.	0.0	0.0
-650.	2480.	-650.	64273.	0.	0.	0.0	0.	0.0	0.0
-625.	2481.	-625.	65280.	15.	-6.	0.0	0.	0.0	0.0
-600.	2481.	-600.	64447.	25.	-6.	0.0	0.	0.0	0.0
-575.	2482.	-575.	60181.	24.	4.	0.0	0.	0.0	0.0
-550.	2483.	-550.	60157.	40.	11.	0.0	0.	0.0	0.0
-525.	2483.	-525.	59871.	45.	2.	0.0	0.	0.0	0.0
-500.	2484.	-500.	60114.	25.	-8.	1.5	133.	0.1	0.1
-475.	2484.	-475.	60246.	-20.	8.	0.0	0.	0.0	0.0
-450.	2485.	-450.	60246.	-21.	5.	0.0	0.	0.0	0.0
-425.	2485.	-425.	60293.	-36.	-4.	0.0	0.	0.0	0.0
-400.	2486.	-400.	60726.	-35.	-22.	0.0	0.	0.0	0.0
-375.	2486.	-375.	60387.	-35.	-22.	0.0	0.	0.0	0.0
-350.	2487.	-350.	60262.	-22.	-12.	0.0	0.	0.0	0.0
-325.	2488.	-325.	60506.	-11.	-4.	0.0	0.	0.0	0.0
-300.	2488.	-300.	62100.	-3.	-3.	4.1	218.	0.1	0.1
-275.	2489.	-275.	60229.	4.	2.	0.0	0.	0.0	0.0
-250.	2489.	-250.	60275.	-2.	1.	0.0	0.	0.0	0.0
-225.	2490.	-225.	60168.	5.	1.	0.0	0.	0.0	0.0
-200.	2490.	-200.	61404.	4.	4.	0.0	0.	0.0	0.0
-175.	2491.	-175.	60236.	-10.	-5.	0.0	0.	0.0	0.0
-150.	2492.	-150.	60136.	-25.	-5.	0.0	0.	0.0	0.0
-125.	2492.	-125.	60244.	-31.	-12.	0.0	0.	0.0	0.0
-100.	2493.	-100.	60257.	-25.	-5.	1.9	170.	0.1	0.2
-75.	2493.	-75.	60104.	-5.	-6.	0.0	0.	0.0	0.0
-50.	2494.	-50.	60368.	3.	-10.	0.0	0.	0.0	0.0
-25.	2494.	-25.	60170.	4.	-12.	0.0	0.	0.0	0.0
0.	2495.	0.	60570.	4.	-30.	4.4	205.	0.1	0.2
25.	2495.	25.	60522.	25.	-16.	0.0	0.	0.0	0.0
50.	2495.	50.	60747.	28.	-16.	0.0	0.	0.0	0.0
75.	2495.	75.	60500.	32.	-18.	0.0	0.	0.0	0.0

LINE 2500M

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
100.	2495.	100.	60547.	35.	-22.	1.2	138.	0.1	0.2
125.	2495.	125.	60998.	35.	-17.	0.0	0.	0.0	0.0

Line Information

Line: 0
Number of records : 5.
Channel 1 min: 0.0000000 max: 100.0000
Channel 2 min: 0.0000000 max: 0.0000000
Channel 3 min: 0.0000000 max: 100.0000
Channel 4 min: 59927.00 max: 61316.00

LINE 0

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
0.	0.	0.	60322.	-45.	-5.	3.6	20.	0.1	0.1
25.	0.	25.	60809.	-10.	0.	0.0	0.	0.0	0.0
50.	0.	50.	61316.	-10.	0.	0.0	0.	0.0	0.0
75.	0.	75.	59927.	-7.	-14.	0.0	0.	0.0	0.0
100.	0.	100.	60211.	0.	0.	2.7	49.	0.1	0.1

Line Information

Line: 100
Number of records : 18.
Channel 1 min: 0.0000000 max: 425.0000
Channel 2 min: 100.0000 max: 100.0000
Channel 3 min: 0.0000000 max: 425.0000
Channel 4 min: 59831.00 max: 61680.00

LINE 100

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
0.	100.	0.	60628.	-15.	5.	0.0	0.	0.0	0.0
25.	100.	25.	60710.	-3.	11.	0.0	0.	0.0	0.0
50.	100.	50.	60436.	-1.	11.	0.0	0.	0.0	0.0
75.	100.	75.	59831.	1.	13.	0.0	0.	0.0	0.0
100.	100.	100.	61680.	-5.	16.	0.0	0.	0.0	0.0
125.	100.	125.	60162.	-55.	4.	0.0	0.	0.0	0.0
150.	100.	150.	60588.	-42.	16.	0.0	0.	0.0	0.0
175.	100.	175.	60204.	-43.	16.	0.0	0.	0.0	0.0
200.	100.	200.	60184.	-25.	18.	0.0	0.	0.0	0.0
225.	100.	225.	60208.	-19.	19.	0.0	0.	0.0	0.0
250.	100.	250.	60226.	10.	26.	0.0	0.	0.0	0.0
275.	100.	275.	60250.	26.	27.	0.0	0.	0.0	0.0
300.	100.	300.	60192.	4.	20.	0.0	0.	0.0	0.0
325.	100.	325.	60344.	-1.	17.	0.0	0.	0.0	0.0
350.	100.	350.	60386.	0.	17.	0.0	0.	0.0	0.0
375.	100.	375.	60296.	0.	19.	0.0	0.	0.0	0.0
400.	100.	400.	60192.	2.	10.	0.0	0.	0.0	0.0
425.	100.	425.	0.	12.	11.	0.0	0.	0.0	0.0

Line information

Line: 2800
Number of records : 37.
Channel 1 min: -900.0000 max: 0.0000000
Channel 2 min: 2750.000 max: 2800.000
Channel 3 min: -900.0000 max: 0.0000000
Channel 4 min: 59856.00 max: 62688.00

LINE 2800

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
-900.	2800.	-900.	0.	-10.	-5.	2.5	166.	0.1	0.2
-875.	2798.	-875.	60237.	-48.	11.	0.0	0.	0.0	0.0
-850.	2796.	-850.	60355.	-35.	3.	0.0	0.	0.0	0.0
-825.	2795.	-825.	60344.	-30.	7.	0.0	0.	0.0	0.0
-800.	2793.	-800.	60344.	-22.	7.	2.2	172.	0.1	0.1
-775.	2791.	-775.	60384.	-22.	6.	0.0	0.	0.0	0.0
-750.	2789.	-750.	60374.	-12.	-2.	0.0	0.	0.0	0.0
-725.	2788.	-725.	60460.	-11.	6.	0.0	0.	0.0	0.0
-700.	2786.	-700.	60486.	-5.	-16.	0.0	0.	0.0	0.0
-675.	2784.	-675.	60342.	-8.	-28.	0.0	0.	0.0	0.0
-650.	2782.	-650.	60538.	-1.	-25.	0.0	0.	0.0	0.0
-625.	2780.	-625.	60818.	12.	-27.	0.0	0.	0.0	0.0
-600.	2779.	-600.	60846.	11.	2.	3.7	85.	0.1	0.1
-575.	2777.	-575.	59856.	18.	-7.	0.0	0.	0.0	0.0
-550.	2775.	-550.	60872.	22.	-8.	0.0	0.	0.0	0.0
-525.	2771.	-525.	0.	20.	-7.	0.0	0.	0.0	0.0
-500.	2767.	-500.	0.	0.	0.	0.0	0.	0.0	0.0
-475.	2763.	-475.	0.	0.	0.	0.0	0.	0.0	0.0
-450.	2758.	-450.	0.	0.	0.	0.0	0.	0.0	0.0
-425.	2754.	-425.	60174.	0.	0.	0.0	0.	0.0	0.0
-400.	2750.	-400.	60346.	21.	-8.	0.0	0.	0.0	0.0
-375.	2752.	-375.	60830.	-7.	-8.	0.0	0.	0.0	0.0
-350.	2753.	-350.	60250.	-21.	-7.	0.0	0.	0.0	0.0
-325.	2755.	-325.	60879.	-9.	-21.	0.0	0.	0.0	0.0
-300.	2756.	-300.	62154.	-7.	-8.	0.0	0.	0.0	0.0
-275.	2758.	-275.	60002.	-31.	-9.	0.0	0.	0.0	0.0
-250.	2759.	-250.	60186.	-24.	-7.	0.0	0.	0.0	0.0
-225.	2761.	-225.	60099.	-5.	-8.	0.0	0.	0.0	0.0
-200.	2763.	-200.	60165.	35.	-11.	0.0	0.	0.0	0.0
-175.	2764.	-175.	62688.	9.	-7.	0.0	0.	0.0	0.0
-150.	2766.	-150.	60225.	-6.	-7.	0.0	0.	0.0	0.0
-125.	2767.	-125.	60221.	15.	-5.	0.0	0.	0.0	0.0
-100.	2769.	-100.	60200.	10.	-5.	0.0	0.	0.0	0.0
-75.	2770.	-75.	60293.	-3.	-19.	0.0	0.	0.0	0.0
-50.	2772.	-50.	60254.	-15.	-20.	0.0	0.	0.0	0.0
-25.	2773.	-25.	60363.	-15.	-20.	0.0	0.	0.0	0.0
0.	2775.	0.	60013.	-30.	-8.	0.0	0.	0.0	0.0

Line Information

Line: 2900
Number of records : 37.
Channel 1 min: -900.0000 max: 0.0000000
Channel 2 min: 2820.000 max: 2900.000
Channel 3 min: -900.0000 max: 100.0000
Channel 4 min: 60087.00 max: 60654.00

LINE 2900

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
-900.	2895.	-900.	60338.	-38.	2.	0.0	0.	0.0	0.0
-875.	2894.	-875.	60352.	-42.	-6.	0.0	0.	0.0	0.0
-850.	2892.	-850.	60282.	-32.	6.	0.0	0.	0.0	0.0
-825.	2891.	-825.	60321.	-22.	13.	0.0	0.	0.0	0.0
-800.	2890.	-800.	60331.	-26.	-1.	0.0	0.	0.0	0.0
-775.	2888.	-775.	60372.	-14.	-14.	0.0	0.	0.0	0.0
-750.	2887.	-750.	60372.	-18.	-16.	2.5	184.	0.1	0.1
-725.	2886.	-725.	60365.	-9.	-24.	0.0	0.	0.0	0.0
-700.	2884.	-700.	60430.	1.	-11.	0.0	0.	0.0	0.0
-675.	2883.	-675.	0.	0.	0.	0.0	0.	0.0	0.0
-650.	2882.	-650.	0.	0.	0.	0.0	0.	0.0	0.0
-625.	2880.	-625.	0.	0.	0.	0.0	0.	0.0	0.0
-600.	2879.	-600.	0.	0.	0.	0.0	0.	0.0	0.0
-575.	2878.	-575.	0.	0.	0.	0.0	0.	0.0	0.0
-550.	2876.	-550.	0.	0.	0.	0.0	0.	0.0	0.0
-525.	2875.	-525.	0.	0.	0.	0.0	0.	0.0	0.0
-500.	2872.	-500.	0.	0.	0.	0.0	0.	0.0	0.0
-475.	2869.	-475.	0.	0.	0.	0.0	0.	0.0	0.0
-450.	2866.	-450.	0.	0.	0.	0.0	0.	0.0	0.0
-425.	2863.	-425.	0.	0.	0.	0.0	0.	0.0	0.0
-400.	2859.	-400.	0.	0.	0.	0.0	0.	0.0	0.0
-375.	2850.	-320.	0.	-13.	5.	0.0	0.	0.0	0.0
-350.	2854.	-295.	0.	-21.	10.	0.0	0.	0.0	0.0
-325.	2858.	-271.	60105.	-8.	-7.	0.0	0.	0.0	0.0
-300.	2862.	-246.	60654.	-21.	-7.	0.0	0.	0.0	0.0
-275.	2865.	-222.	60432.	-10.	7.	0.0	0.	0.0	0.0
-250.	2869.	-197.	60294.	-15.	-7.	0.0	0.	0.0	0.0
-225.	2873.	-172.	60212.	-16.	8.	0.0	0.	0.0	0.0
-200.	2877.	-148.	60132.	-9.	3.	0.0	0.	0.0	0.0
-175.	2881.	-123.	60087.	7.	-5.	0.0	0.	0.0	0.0
-150.	2885.	-98.	60164.	-6.	-8.	0.0	0.	0.0	0.0
-125.	2888.	-74.	60174.	8.	-7.	0.0	0.	0.0	0.0
-100.	2892.	-49.	60115.	7.	-5.	0.0	0.	0.0	0.0
-75.	2896.	-25.	60138.	8.	-7.	0.0	0.	0.0	0.0
-50.	2900.	0.	60164.	21.	-7.	0.0	0.	0.0	0.0
-25.	2820.	75.	60223.	7.	-5.	0.0	0.	0.0	0.0
0.	2820.	100.	60230.	8.	-6.	0.0	0.	0.0	0.0

Line Information

Line: 3800
Number of records : 22.
Channel 1 min: -550.0000 max: -25.00000
Channel 2 min: 3735.000 max: 3760.000
Channel 3 min: -620.0000 max: -200.0000
Channel 4 min: 59666.00 max: 64500.00

LINE 3800

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
-550.	3735.	-620.	61288.	-24.	-20.	0.0	0.	0.0	0.0
-525.	3736.	-600.	61262.	-19.	-12.	3.5	87.	0.1	0.1
-500.	3737.	-580.	61390.	-6.	-10.	0.0	0.	0.0	0.0
-475.	3739.	-560.	61698.	-5.	-11.	0.0	0.	0.0	0.0
-450.	3740.	-540.	61397.	-4.	-6.	0.0	0.	0.0	0.0
-425.	3741.	-520.	61818.	-5.	-10.	0.0	0.	0.0	0.0
-400.	3742.	-500.	64500.	2.	-7.	0.0	0.	0.0	0.0
-375.	3743.	-480.	62479.	-5.	-10.	0.0	0.	0.0	0.0
-350.	3745.	-460.	61818.	4.	-10.	0.0	0.	0.0	0.0
-325.	3746.	-440.	61847.	5.	-8.	0.0	0.	0.0	0.0
-300.	3747.	-420.	63420.	4.	-11.	0.0	0.	0.0	0.0
-275.	3748.	-400.	64017.	0.	-11.	0.0	0.	0.0	0.0
-250.	3749.	-380.	64170.	-8.	-10.	0.0	0.	0.0	0.0
-225.	3750.	-360.	59902.	-5.	-6.	1.0	127.	0.1	0.1
-200.	3752.	-340.	59813.	2.	-24.	0.0	0.	0.0	0.0
-175.	3753.	-320.	59666.	-5.	-22.	0.0	0.	0.0	0.0
-150.	3754.	-300.	60116.	-5.	-14.	0.0	0.	0.0	0.0
-125.	3755.	-280.	60904.	7.	0.	0.0	0.	0.0	0.0
-100.	3756.	-260.	0.	20.	0.	0.0	0.	0.0	0.0
-75.	3758.	-240.	60505.	-5.	10.	0.0	0.	0.0	0.0
-50.	3759.	-220.	0.	-5.	-24.	0.0	0.	0.0	0.0
-25.	3760.	-200.	0.	30.	-30.	0.0	0.	0.0	0.0

%Line information%

Line: 4000
Number of records : 19.
Channel 1 min: -550.0000 max: -100.0000
Channel 2 min: 3900.000 max: 3940.000
Channel 3 min: -610.0000 max: -100.0000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE 4000

STATION	X-COORD	Y COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
-550.	3925.	-610.	0.	-11.	-15.	0.0	0.	0.0	0.0
-525.	3926.	-587.	0.	-1.	-9.	0.0	0.	0.0	0.0
-500.	3927.	-563.	0.	10.	-9.	0.0	0.	0.0	0.0
-475.	3928.	-540.	0.	11.	-9.	0.0	0.	0.0	0.0
-450.	3928.	-517.	0.	22.	-6.	2.4	149.	0.1	0.1
-425.	3929.	-493.	0.	0.	0.	0.0	0.	0.0	0.0
-400.	3930.	-470.	0.	24.	-1.	0.0	0.	0.0	0.0
-375.	3931.	-447.	0.	54.	8.	0.0	0.	0.0	0.0
-350.	3932.	-423.	0.	-11.	-17.	0.0	0.	0.0	0.0
-325.	3933.	-400.	0.	2.	-14.	0.0	0.	0.0	0.0
-300.	3933.	-377.	0.	-16.	-14.	0.0	0.	0.0	0.0
-275.	3934.	-353.	0.	-26.	-20.	0.0	0.	0.0	0.0
-250.	3935.	-330.	0.	-18.	-21.	0.0	0.	0.0	0.0
-225.	3936.	-307.	0.	-11.	-16.	0.0	0.	0.0	0.0
-200.	3937.	-283.	0.	12.	-14.	3.6	90.	0.1	0.1
-175.	3938.	-260.	0.	11.	-23.	0.0	0.	0.0	0.0
-150.	3938.	-237.	0.	15.	-19.	0.0	0.	0.0	0.0
-125.	3939.	-213.	0.	17.	-6.	0.0	0.	0.0	0.0
-100.	3940.	-190.	0.	24.	-4.	0.0	0.	0.0	0.0

Line information

Line: 3900
Number of records : 19.
Channel 1 min: -575.0000 max: -125.0000
Channel 2 min: 3830.000 max: 3830.000
Channel 3 min: -610.0000 max: -175.0000
Channel 4 min: 59245.00 max: 63646.00

LINE 3900

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
-575.	3830.	-610.	61891.	-24.	-14.	0.0	0.	0.0	0.0
-550.	3830.	-585.	63646.	-22.	-20.	3.1	111.	0.1	0.2
-525.	3830.	-561.	63325.	-20.	-45.	0.0	0.	0.0	0.0
-500.	3830.	-536.	62810.	-14.	-8.	0.0	0.	0.0	0.0
-475.	3830.	-511.	62878.	-10.	-22.	0.0	0.	0.0	0.0
-450.	3830.	-486.	59245.	16.	-12.	6.7	101.	0.1	0.1
-425.	3830.	-462.	60139.	8.	-16.	0.0	0.	0.0	0.0
-400.	3830.	-437.	60299.	10.	-11.	0.0	0.	0.0	0.0
-375.	3830.	-412.	59823.	8.	-5.	0.0	0.	0.0	0.0
-350.	3830.	-388.	60467.	-5.	-12.	7.7	0.	0.1	0.1
-325.	3830.	-363.	60303.	-20.	-22.	0.0	0.	0.0	0.0
-300.	3830.	-338.	60347.	-10.	-25.	0.0	0.	0.0	0.0
-275.	3830.	-314.	60545.	-5.	-22.	0.0	0.	0.0	0.0
-250.	3830.	-289.	60208.	4.	-16.	1.8	158.	0.1	0.1
-225.	3830.	-264.	60133.	2.	-33.	0.0	0.	0.0	0.0
-200.	3830.	-239.	60260.	0.	-22.	0.0	0.	0.0	0.0
-175.	3830.	-215.	60546.	10.	12.	0.0	0.	0.0	0.0
-150.	3830.	-190.	60688.	20.	-8.	7.0	16.	0.1	0.1
-125.	3830.	-175.	61788.	0.	0.	0.0	0.	0.0	0.0

Line information

Line: 3400
Number of records : 25.
Channel 1 min: -650.0000 max: -50.00000
Channel 2 min: 3400.000 max: 3430.000
Channel 3 min: -750.0000 max: -205.0000
Channel 4 min: 59615.00 max: 64134.00

LINE 3400

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
-650.	3400.	-750.	60366.	19.	28.	1.8	153.	0.2	0.1
-625.	3403.	-727.	60420.	12.	16.	0.0	0.	0.0	0.0
-600.	3407.	-703.	60435.	18.	6.	0.0	0.	0.0	0.0
-575.	3410.	-680.	60473.	8.	4.	0.0	0.	0.0	0.0
-550.	3413.	-657.	60488.	-19.	-2.	0.8	127.	0.2	0.1
-525.	3417.	-633.	60583.	34.	27.	0.0	0.	0.0	0.0
-500.	3420.	-610.	60604.	-9.	-10.	0.0	0.	0.0	0.0
-475.	3423.	-587.	60498.	-7.	-4.	0.0	0.	0.0	0.0
-450.	3427.	-563.	60498.	-3.	0.	2.6	122.	0.1	0.1
-425.	3430.	-540.	0.	-3.	9.	0.0	0.	0.0	0.0
-400.	3428.	-518.	0.	0.	0.	0.0	0.	0.0	0.0
-375.	3426.	-495.	60723.	-1.	18.	0.0	0.	0.0	0.0
-350.	3424.	-473.	60742.	8.	3.	2.1	115.	0.2	0.1
-325.	3422.	-451.	64134.	11.	-10.	0.0	0.	0.0	0.0
-300.	3420.	-428.	59615.	6.	-6.	0.0	0.	0.0	0.0
-275.	3418.	-406.	59821.	-13.	2.	0.0	0.	0.0	0.0
-250.	3416.	-384.	59895.	23.	0.	0.0	0.	0.0	0.0
-225.	3414.	-361.	60205.	23.	22.	0.0	0.	0.0	0.0
-200.	3412.	-339.	60347.	29.	24.	0.0	0.	0.0	0.0
-175.	3410.	-317.	60498.	-6.	-7.	0.0	0.	0.0	0.0
-150.	3408.	-294.	60723.	-22.	-10.	0.0	0.	0.0	0.0
-125.	3406.	-272.	60512.	-18.	-50.	0.0	0.	0.0	0.0
-100.	3404.	250.	60347.	-2.	-13.	0.0	0.	0.0	0.0
-75.	3402.	-227.	60569.	10.	3.	0.0	0.	0.0	0.0
-50.	3400.	-205.	60337.	4.	-31.	0.0	0.	0.0	0.0

Line Information

Line: 3600
Number of records : 14.
Channel 1 : min: 425.0000 max: -100.0000
Channel 2 : min: 3485.000 max: 3520.000
Channel 3 : min: 520.0000 max: -240.0000
Channel 4 : min: 59690.00 max: 65120.00

LINE 3600

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
-425.	3485.	-520.	60632.	-4.	2.	0.0	0.	0.0	0.0
-400.	3488.	-498.	60636.	2.	-2.	0.0	0.	0.0	0.0
-375.	3490.	-477.	60660.	4.	1.	0.0	0.	0.0	0.0
-350.	3493.	-455.	60760.	2.	-5.	3.8	110.	0.1	0.1
-325.	3496.	-434.	61065.	4.	4.	0.0	0.	0.0	0.0
-300.	3498.	-412.	61249.	12.	-7.	0.0	0.	0.0	0.0
-275.	3501.	-391.	65120.	6.	2.	0.0	0.	0.0	0.0
-250.	3504.	-369.	60163.	15.	-3.	0.0	0.	0.0	0.0
-225.	3507.	-348.	60610.	17.	-1.	0.0	0.	0.0	0.0
-200.	3509.	-326.	60894.	-2.	-3.	0.0	0.	0.0	0.0
-175.	3512.	-305.	60237.	-16.	-12.	0.0	0.	0.0	0.0
-150.	3515.	-283.	61454.	25.	-17.	0.0	0.	0.0	0.0
-125.	3517.	-262.	60333.	-18.	-21.	0.0	0.	0.0	0.0
-100.	3520.	-240.	59690.	6.	-17.	0.0	0.	0.0	0.0

%Line Information%

Line: 1600
Number of records : 9.
Channel 1 min: 250.0000 max: 450.0000
Channel 2 min: 1625.000 max: 1625.000
Channel 3 min: 270.0000 max: 460.0000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE 1600

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
250.	1625.	270.	0.	-70.	-12.	0.0	0.	0.0	0.0
275.	1625.	294.	0.	-22.	-14.	0.0	0.	0.0	0.0
300.	1625.	318.	0.	-20.	-28.	0.0	0.	0.0	0.0
325.	1625.	341.	0.	-10.	-22.	0.0	0.	0.0	0.0
350.	1625.	365.	0.	-26.	-22.	0.0	0.	0.0	0.0
375.	1625.	389.	0.	-11.	-34.	0.0	0.	0.0	0.0
400.	1625.	413.	0.	5.	-32.	0.0	0.	0.0	0.0
425.	1625.	436.	0.	17.	-24.	0.0	0.	0.0	0.0
450.	1625.	460.	0.	17.	-15.	0.0	0.	0.0	0.0

%Line information%

Line: 3000N
Number of records : 33.
Channel 1 min: -775.0000 max: 25.00000
Channel 2 min: 2975.000 max: 3015.000
Channel 3 min: -795.0000 max: 25.00000
Channel 4 min: 59891.00 max: 61705.00

LINE 3000N

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
-775.	3015.	-795.	0.	-10.	-10.	0.0	0.	0.0	0.0
-750.	3014.	-770.	0.	-18.	-12.	0.0	0.	0.0	0.0
-725.	3013.	-745.	0.	-25.	-11.	0.0	0.	0.0	0.0
-700.	3012.	-720.	0.	-35.	-7.	0.0	0.	0.0	0.0
-675.	3010.	-695.	0.	-2.	-10.	0.0	0.	0.0	0.0
-650.	3009.	-670.	0.	2.	-8.	0.0	0.	0.0	0.0
-625.	3008.	-645.	0.	5.	-7.	0.0	0.	0.0	0.0
-600.	3007.	-620.	0.	10.	-10.	0.0	0.	0.0	0.0
-575.	3006.	-595.	0.	17.	-12.	0.0	0.	0.0	0.0
-550.	3005.	-570.	0.	18.	-11.	0.0	0.	0.0	0.0
-525.	3003.	-545.	0.	20.	-7.	0.0	0.	0.0	0.0
-500.	3002.	-520.	0.	32.	-10.	0.0	0.	0.0	0.0
-475.	3001.	-495.	0.	47.	-4.	0.0	0.	0.0	0.0
-450.	3000.	-470.	0.	25.	-4.	0.0	0.	0.0	0.0
0.	2996.	-442.	0.	0.	0.	0.0	0.	-625.0	3000.0
0.	2992.	-413.	0.	0.	0.	0.0	0.	-600.0	3000.0
0.	2988.	-385.	0.	0.	0.	0.0	0.	-575.0	3000.0
0.	2983.	-357.	0.	0.	0.	0.0	0.	-550.0	3000.0
0.	2979.	-328.	0.	0.	0.	0.0	0.	-525.0	3000.0
-300.	2975.	-300.	61705.	8.	-8.	0.0	0.	0.0	0.0
-275.	2975.	-275.	60925.	1.	7.	0.0	0.	0.0	0.0
-250.	2975.	-250.	59923.	-7.	-8.	0.0	0.	0.0	0.0
-225.	2975.	-225.	59891.	28.	-7.	0.0	0.	0.0	0.0
-200.	2975.	-200.	60257.	21.	3.	0.0	0.	0.0	0.0
-175.	2975.	-175.	59993.	5.	-21.	0.0	0.	0.0	0.0
-150.	2975.	-150.	60160.	7.	-8.	0.0	0.	0.0	0.0
-125.	2975.	-125.	60119.	-26.	-7.	0.0	0.	0.0	0.0
-100.	2975.	-100.	60197.	-25.	1.	0.0	0.	0.0	0.0
-75.	2975.	-75.	60046.	-21.	1.	0.0	0.	0.0	0.0
-50.	2975.	-50.	60092.	-21.	-3.	0.0	0.	0.0	0.0
-25.	2975.	-25.	60097.	7.	-7.	0.0	0.	0.0	0.0
0.	2975.	0.	60132.	8.	-6.	0.0	0.	0.0	0.0
25.	2975.	25.	60820.	7.	-5.	0.0	0.	0.0	0.0

Line Information

Line: 3100
Number of records : 35.
Channel 1 min: -125.0000 max: 725.0000
Channel 2 min: 3070.000 max: 3125.000
Channel 3 min: -825.0000 max: 25.00000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE 3100

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
-125.	3110.	-825.	0.	-21.	7.	0.0	0.	0.0	0.0
-100.	3111.	-801.	0.	-9.	8.	18.6	148.	0.1	0.1
-75.	3112.	-776.	0.	-7.	1.	0.0	0.	0.0	0.0
-50.	3113.	-752.	0.	-9.	8.	0.0	0.	0.0	0.0
-25.	3114.	-728.	0.	-7.	5.	0.0	0.	0.0	0.0
0.	3115.	-703.	0.	9.	-5.	3.6	128.	0.1	0.1
25.	3116.	-679.	0.	6.	2.	0.0	0.	0.0	0.0
50.	3117.	-655.	0.	7.	1.	0.0	0.	0.0	0.0
75.	3118.	-630.	0.	27.	8.	0.0	0.	0.0	0.0
100.	3119.	-606.	0.	21.	8.	0.0	0.	0.0	0.0
125.	3120.	-582.	0.	8.	1.	0.0	0.	0.0	0.0
150.	3121.	-557.	0.	9.	-7.	0.0	0.	0.0	0.0
175.	3122.	-533.	0.	7.	1.	0.0	0.	0.0	0.0
200.	3123.	-509.	0.	-15.	-8.	2.4	114.	0.1	0.1
225.	3124.	-484.	0.	-21.	-7.	0.0	0.	0.0	0.0
250.	3125.	-460.	0.	-4.	-12.	0.0	0.	0.0	0.0
275.	3118.	-433.	0.	0.	0.	0.0	0.	0.0	0.0
300.	3112.	-407.	0.	0.	0.	0.0	0.	0.0	0.0
325.	3105.	-380.	0.	0.	0.	0.0	0.	0.0	0.0
350.	3098.	-353.	0.	0.	0.	0.0	0.	0.0	0.0
375.	3092.	-327.	0.	0.	0.	0.0	0.	0.0	0.0
400.	3085.	-300.	0.	-69.	-19.	0.0	0.	0.0	0.0
425.	3084.	-275.	0.	-47.	-27.	0.0	0.	0.0	0.0
450.	3083.	-250.	0.	-20.	-14.	0.0	0.	0.0	0.0
475.	3082.	-225.	0.	-16.	-14.	0.0	0.	0.0	0.0
500.	3080.	-200.	0.	-9.	-20.	0.0	0.	0.0	0.0
525.	3079.	-175.	0.	1.	-18.	0.0	0.	0.0	0.0
550.	3078.	-150.	0.	-2.	-36.	0.0	0.	0.0	0.0
575.	3077.	-125.	0.	2.	-24.	0.0	0.	0.0	0.0
600.	3076.	-100.	0.	20.	-26.	0.0	0.	0.0	0.0
625.	3075.	-75.	0.	22.	-22.	0.0	0.	0.0	0.0
650.	3073.	-50.	0.	35.	-16.	0.0	0.	0.0	0.0
675.	3072.	-25.	0.	32.	-16.	0.0	0.	0.0	0.0
700.	3071.	0.	0.	51.	-39.	0.0	0.	0.0	0.0
725.	3070.	25.	0.	25.	-13.	0.0	0.	0.0	0.0

#Line information#

Line: 3200
Number of records : 22.
Channel 1 min: -125.0000 max: 400.0000
Channel 2 min: 3180.000 max: 3215.000
Channel 3 min: -835.0000 max: -215.0000
Channel 4 min: 60441.00 max: 63223.00

LINE 3200

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
125.	3215.	-835.	0.	-20.	20.	0.0	0.	0.0	0.0
-100.	3214.	-809.	0.	-21.	-7.	2.2	139.	0.1	0.1
-75.	3214.	-784.	0.	21.	-8.	0.0	0.	0.0	0.0
-50.	3213.	-758.	61703.	7.	9.	0.0	0.	0.0	0.0
-25.	3212.	-732.	61500.	-7.	-5.	0.0	0.	0.0	0.0
0.	3212.	-707.	61359.	9.	-7.	2.7	96.	0.1	0.1
25.	3211.	-681.	0.	7.	-5.	0.0	0.	0.0	0.0
50.	3210.	-655.	0.	8.	-7.	0.0	0.	0.0	0.0
75.	3210.	-630.	0.	12.	-7.	0.0	0.	0.0	0.0
100.	3209.	-604.	0.	9.	-9.	1.8	168.	0.1	0.1
125.	3208.	-578.	0.	21.	-8.	0.0	0.	0.0	0.0
150.	3208.	-553.	0.	11.	-1.	0.0	0.	0.0	0.0
175.	3207.	-527.	0.	-7.	8.	0.0	0.	0.0	0.0
200.	3206.	-501.	0.	47.	-8.	0.0	0.	0.0	0.0
225.	3206.	-476.	0.	-31.	8.	0.0	0.	0.0	0.0
250.	3205.	-450.	0.	-4.	9.	0.0	0.	0.0	0.0
275.	3201.	-411.	60441.	-84.	-3.	0.0	0.	0.0	0.0
300.	3197.	-372.	60685.	-82.	-3.	4.6	89.	0.1	0.2
325.	3193.	-333.	61030.	-56.	1.	0.0	0.	0.0	0.0
350.	3188.	-293.	60672.	-15.	-29.	0.0	0.	0.0	0.0
375.	3184.	-254.	63223.	-22.	-27.	0.0	0.	0.0	0.0
400.	3180.	-215.	60871.	-9.	-2.	5.3	165.	0.1	0.1

Line Information

Line: 3300
Number of records: 26.
Channel 1 min: -200.0000 max: 425.0000
Channel 2 min: 3275.000 max: 3310.000
Channel 3 min: -740.0000 max: -185.0000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE 3300

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
-200.	3310.	-740.	0.	0.	45.	5.3	64.	0.1	0.1
-175.	3308.	-715.	0.	5.	10.	0.0	0.	0.0	0.0
-150.	3307.	-690.	0.	12.	10.	0.0	0.	0.0	0.0
-125.	3305.	-665.	0.	18.	10.	0.0	0.	0.0	0.0
-100.	3304.	-640.	0.	-3.	0.	3.0	170.	0.1	0.1
-75.	3302.	-615.	0.	-6.	-6.	0.0	0.	0.0	0.0
-50.	3301.	-590.	0.	-4.	-9.	0.0	0.	0.0	0.0
-25.	3299.	-565.	0.	14.	-7.	0.0	0.	0.0	0.0
0.	3298.	-540.	0.	13.	-5.	0.0	0.	0.0	0.0
25.	3296.	-515.	0.	10.	-10.	0.0	0.	0.0	0.0
50.	3295.	-490.	0.	15.	-5.	0.0	0.	0.0	0.0
75.	3293.	-465.	0.	12.	-1.	0.0	0.	0.0	0.0
100.	3292.	-440.	0.	22.	0.	3.1	271.	0.1	0.1
125.	3290.	-415.	0.	35.	4.	0.0	0.	0.0	0.0
150.	3289.	-403.	0.	0.	0.	0.0	0.	0.0	0.0
175.	3288.	-390.	0.	0.	0.	0.0	0.	0.0	0.0
200.	3288.	-378.	0.	0.	0.	0.0	0.	0.0	0.0
225.	3287.	-365.	0.	0.	0.	0.0	0.	0.0	0.0
250.	3286.	-353.	0.	0.	0.	0.0	0.	0.0	0.0
275.	3285.	-340.	0.	-64.	-19.	0.0	0.	0.0	0.0
300.	3283.	-314.	0.	-37.	-5.	4.7	96.	0.1	0.1
325.	3282.	-288.	0.	-13.	1.	0.0	0.	0.0	0.0
350.	3280.	-263.	0.	-2.	36.	0.0	0.	0.0	0.0
375.	3278.	-237.	0.	-15.	-23.	0.0	0.	0.0	0.0
400.	3277.	-211.	0.	14.	-3.	0.0	0.	0.0	0.0
425.	3275.	-185.	0.	20.	-16.	0.0	0.	0.0	0.0

Line information

Line: 4100
Number of records : 9.

Channel 1	min:	-100.0000	max:	100.0000
Channel 2	min:	4020.000	max:	4035.000
Channel 3	min:	-680.0000	max:	-480.0000
Channel 4	min:	60180.00	max:	63281.00

LINE 4100

STATION	X-COORD	Y-COORD	MAGNETIC	DIF ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
-100.	4020.	-680.	60320.	-10.	-13.	0.0	0.	0.0	0.0
-75.	4022.	-655.	60180.	4.	-9.	0.0	0.	0.0	0.0
-50.	4024.	-630.	60826.	20.	4.	0.0	0.	0.0	0.0
-25.	4026.	-605.	60473.	26.	-3.	0.0	0.	0.0	0.0
0.	4028.	-580.	60236.	47.	-4.	0.0	0.	0.0	0.0
25.	4029.	-555.	61134.	35.	-2.	0.0	0.	0.0	0.0
50.	4031.	-530.	60218.	12.	-8.	0.0	0.	0.0	0.0
75.	4033.	-505.	60523.	-4.	-10.	0.0	0.	0.0	0.0
100.	4035.	-480.	63281.	-25.	-22.	2.5	221.	0.2	0.1

Line Information

Line: 2200
Number of records : 42.

Channel 1	min:	-625.0000	max:	400.0000
Channel 2	min:	2100.000	max:	2210.000
Channel 3	min:	-640.0000	max:	540.0000
Channel 4	min:	59968.00	max:	62840.00

LINE 2200

STATION	X-COORD	Y-COORD	MAGNETIC DIP ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	Ag-ppm
-625.	2210.	-640.	60706.	-45.	-2.	0.0	0.	0.0	0.0
-600.	2210.	-611.	61060.	-30.	6.	0.0	0.	0.0	0.0
-575.	2210.	-582.	62150.	-25.	-2.	0.0	0.	0.0	0.0
-550.	2210.	-554.	60772.	-18.	6.	0.0	0.	0.0	0.0
-525.	2210.	-525.	60323.	-15.	3.	0.0	0.	0.0	0.0
-500.	2210.	-496.	60562.	-5.	6.	2.0	175.	0.1	0.2
-475.	2210.	-467.	60456.	-5.	10.	0.0	0.	0.0	0.0
-450.	2210.	-439.	60553.	-10.	6.	0.0	0.	0.0	0.0
-425.	2210.	-410.	60011.	10.	3.	0.0	0.	0.0	0.0
-400.	2210.	-381.	61591.	5.	10.	0.0	0.	0.0	0.0
-375.	2210.	-352.	61053.	15.	6.	0.0	0.	0.0	0.0
-350.	2210.	-323.	60323.	-40.	-4.	0.0	0.	0.0	0.0
-325.	2210.	-295.	60576.	-15.	5.	0.0	0.	0.0	0.0
-300.	2210.	-266.	60421.	-50.	-4.	7.2	201.	0.1	0.4
-275.	2210.	-237.	60326.	-55.	2.	0.0	0.	0.0	0.0
-250.	2210.	-208.	60242.	-35.	2.	0.0	0.	0.0	0.0
-225.	2210.	-180.	60225.	-25.	2.	0.0	0.	0.0	0.0
-200.	2210.	-151.	60256.	-15.	24.	0.0	0.	0.0	0.0
-175.	2210.	-122.	60283.	-10.	5.	0.0	0.	0.0	0.0
-150.	2210.	-93.	60283.	-5.	10.	0.0	0.	0.0	0.0
-125.	2210.	-64.	60505.	25.	11.	0.0	0.	0.0	0.0
-100.	2210.	-36.	60254.	15.	0.	2.9	133.	0.1	0.1
-75.	2210.	-7.	60625.	-25.	-23.	0.0	0.	0.0	0.0
-50.	2210.	22.	60718.	-3.	-32.	0.0	0.	0.0	0.0
-25.	2210.	51.	60324.	-1.	-20.	0.0	0.	0.0	0.0
0.	2210.	80.	60320.	-5.	-28.	4.3	234.	0.1	0.1
25.	2210.	108.	60438.	25.	-12.	0.0	0.	0.0	0.0
50.	2210.	137.	60425.	35.	-11.	0.0	0.	0.0	0.0
75.	2210.	166.	60310.	10.	-8.	0.0	0.	0.0	0.0
100.	2210.	195.	59968.	-75.	-21.	0.0	0.	0.0	0.0
125.	2210.	223.	60188.	-35.	-15.	0.0	0.	0.0	0.0
150.	2210.	252.	60248.	-30.	-28.	0.0	0.	0.0	0.0
175.	2210.	281.	60417.	-10.	-21.	0.0	0.	0.0	0.0
200.	2210.	310.	60844.	13.	14.	6.1	150.	0.1	0.4
225.	2210.	339.	60017.	20.	2.	0.0	0.	0.0	0.0
250.	2210.	367.	60828.	55.	-21.	0.0	0.	0.0	0.0
275.	2210.	396.	60447.	12.	-21.	0.0	0.	0.0	0.0
300.	2210.	425.	62840.	-25.	-41.	0.0	0.	0.0	0.0
325.	2210.	454.	60498.	24.	-33.	0.0	0.	0.0	0.0
350.	2210.	482.	62363.	43.	-22.	0.0	0.	0.0	0.0
375.	2210.	511.	61985.	42.	-16.	0.0	0.	0.0	0.0
400.	2210.	540.	60912.	36.	-8.	17.1	188.	0.1	0.6

%Line Information%

Line: 3700
Number of records : 20.
Channel 1 min: -150.0000 max: 325.0000
Channel 2 min: 3615.000 max: 3680.000
Channel 3 min: -640.0000 max: -195.0000
Channel 4 min: 0.1000000E+31 max: -0.1000000E+31

LINE 3700

STATION	X-COORD	Y-COORD	MAGNETIC DIP	ANG	QUAD	As-ppm	Hg-ppb	Sb-ppm	As-ppm
-150.	3615.	-640.	0.	46.	4.	0.0	0.	0.0	0.0
-125.	3618.	-617.	0.	10.	4.	0.0	0.	0.0	0.0
-100.	3622.	-593.	0.	2.	8.	0.6	134.	0.2	0.1
-75.	3625.	-570.	0.	35.	4.	0.0	0.	0.0	0.0
-50.	3629.	-546.	0.	39.	19.	0.0	0.	0.0	0.0
-25.	3632.	-523.	0.	22.	13.	0.0	0.	0.0	0.0
0.	3636.	-499.	0.	11.	1.	4.6	129.	0.1	0.1
25.	3639.	-476.	0.	0.	0.	0.0	0.	0.0	0.0
50.	3642.	-453.	0.	3.	1.	0.0	0.	0.0	0.0
75.	3646.	-429.	0.	9.	1.	0.0	0.	0.0	0.0
100.	3649.	-406.	0.	4.	2.	5.8	26.	0.1	0.1
125.	3653.	-382.	0.	6.	-7.	0.0	0.	0.0	0.0
150.	3656.	-359.	0.	13.	-6.	0.0	0.	0.0	0.0
175.	3659.	-336.	0.	14.	-4.	0.0	0.	0.0	0.0
200.	3663.	-312.	0.	9.	-8.	0.0	0.	0.0	0.0
225.	3666.	-289.	0.	20.	-10.	0.0	0.	0.0	0.0
250.	3670.	-265.	0.	3.	-9.	0.0	0.	0.0	0.0
275.	3673.	-242.	0.	1.	-19.	0.0	0.	0.0	0.0
300.	3677.	-218.	0.	10.	-13.	64.0	52.	0.1	0.1
325.	3680.	-195.	0.	9.	-5.	0.0	0.	0.0	0.0

APPENDIX J

GEOPHYSICAL EQUIPMENT SPECIFICATIONS

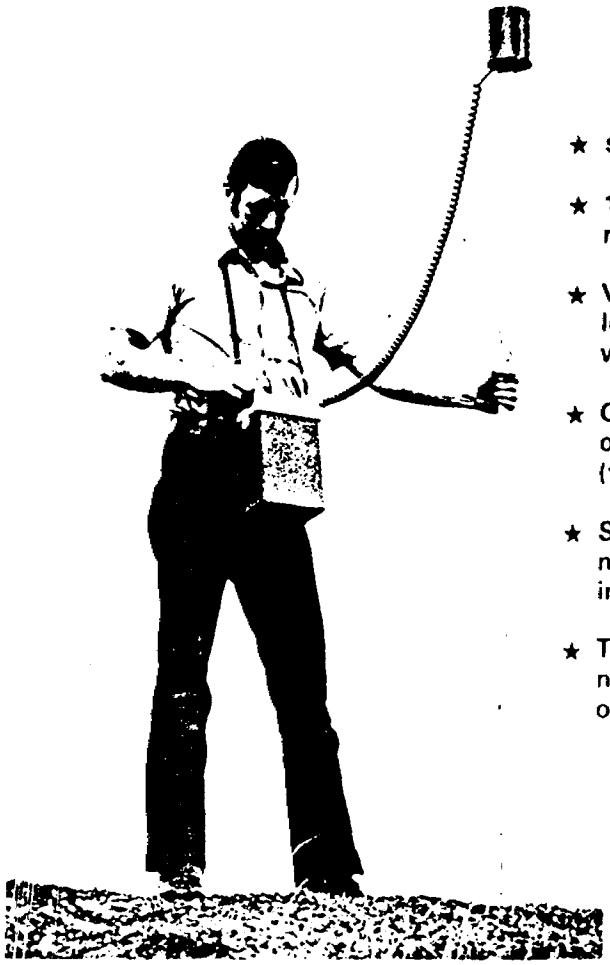
geoMetrics

Remote Sensing and Interpretation

PORTABLE PROTON MAGNETOMETER
MODEL G-816

Data/Price Sheet

March 1972

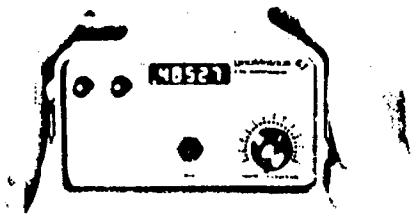


- ★ $2300 complete
- ★ 1 gamma sensitivity and repeatability
- ★ Very small size and weight: less than 12 lbs complete with battery and sensor
- ★ Over 10,000 readings per set of alkaline "D" cell (flashlight) batteries
- ★ Simplified operation—numeric display directly in gammas
- ★ Total field measurements—no calibration—independent of orientation

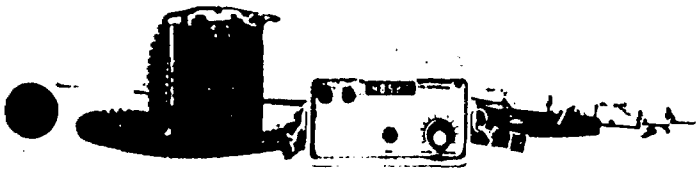
The Model G-816 is a complete portable magnetometer for all man-carry field applications. As an accurate yet simple to operate instrument, it features an outstanding combination of one gamma sensitivity and repeatability, compact size and weight, operation on standard universally available flashlight batteries, ruggedized packaging and very low price.

The G-816 magnetometer allows precise mapping of very small or large amplitude anomalies for ground geophysical surveys, or for detail follow-up to aeromagnetic reconnaisance surveys. It is a rugged, lightweight, and versatile instrument, equally well suited for field studies in geophysics, research programs or other magnetic mapping application where low cost, dependable operation and accurate measurements are required.

For marine, airborne or ground recording systems consider GeoMetrics Models G-801, G-803, and G-806.



Based upon the principle of nuclear precession (proton) the G-816 offers absolute drift-free measurements of the total field directly in gammas. (The Proton precession method is the official recognized standard for measurement of the earth's magnetic field.) Operation is worldwide with one gamma sensitivity and repeatability maintained throughout the range. There is no temperature drift, no set-up or leveling required, and no adjustment for orientation, field polarity, or arbitrary reference levels. Operation is very simple with no prior training required. Only 6 seconds are required to obtain a measurement which is always correct to one gamma, regardless of operator experience. Only the Proton Magnetometer offers such repeatability—an important consideration even for 10 gamma survey resolution.



Complete Field Portable System

The Model G-816 comes complete, ready for portable field operation and consists of:

1. Electronics console with internally mounted and easily replaced "D" cell battery pack.
2. Proton sensor and signal cable for attachment to carrying strap or staff.
3. Adjustable carrying strap.
4. 8 foot collapsible staff.
5. Instruction manual, complete set of spare batteries, reusable shipping container.

All magnetometers and parts are covered by a one year warranty beginning with the date of receipt but not to exceed fifteen months from the shipping date.

SPECIFICATIONS

Sensitivity: ±1 gamma throughout range

Range: 20,000 to 90,000 gammas (worldwide)

Tuning: Multi-position switch with signal amplitude indicator light on display

Gradient Tolerance: Exceeds 150 gammas/ft

Sampling Rate: Manual push-button, one reading each 6 seconds

Output: 5 digit numeric display with readout directly in gammas

Power Requirements: Twelve self-contained 1.5 volt "D" cell, universally available flashlight-type batteries. Charge state or replacement signified by flashing indicator light on display.

Battery Type	Number of Readings
Alkaline	over 10,000
Premium Carbon Zinc	over 4,000
Standard Flashlight	over 1,500

NOTE: Battery life decreases with temperature

Temperature Range:
Console and sensor: -40° to +85°C
Battery Pack: 0° to+50°C (limited use to -15°C; lower temperature operation—optional)

Accuracy (Total Field): ±1 gamma through 0° to 50°C temperature range

Sensor: High signal, noise cancelling, interchangably mounted on separate staff or attached to carrying harness

Size:
Console: 3.5 x 7 x 10.5 inches (9 x 18 x 27 cm)
Sensor: 4.5 x 6 inches (11 x 15 cm)
Staff: 1 inch diameter x 8 ft length (3 cm x 2.44 m)

Weight:

	Lbs.	Kgs.
Console (w/batteries):	5.5	2.4
Sensor & signal cable:	4	1.8
Aluminum staff:	2	0.9
	11.5	5.1

PRICE: Complete Field System $2300.00

EXPLORANIUM

DIVISION OF **geoMetrics** SERVICES (CANADA) LTD.

CORPORATION OF CANADA

NUCLEAR INSTRUMENT DIVISION

48 ALNESS STREET • DOWNSVIEW (TORONTO) CANADA

GEONICS LIMITED

2 Thorncliffe Park Drive, Toronto 17, Ontario, Canada. Tel. (416) 425-1821, Cables: Geonics

EM 16

VLF ELECTROMAGNETIC UNIT

Pioneered exclusively by Geonics Limited the VLF-method of electromagnetic surveying by utilization of the uniform horizontal fields generated by an existing network of reliable, fully operational Very Low Frequency transmitting stations has proved to be a major advance in geophysical exploration.

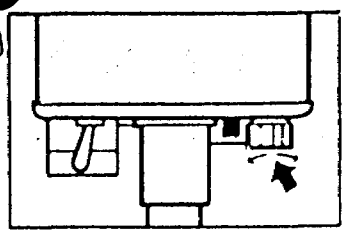
Very extensive world-wide experience since the beginning of 1965 by a large and rapidly increasing number of users, including a high proportion of major mining and exploration companies, has provided conclusive evidence of the effectiveness of the technique and the EM 16 has gained general acceptance as a basic electromagnetic tool. This evidence has also indicated the response of disseminated bodies. to the VLF-method.

The unique self-contained EM 16 offers the unrivalled combination of LIGHT WEIGHT, ONE-MAN OPERATION and DEEP PENETRATION allowing rapid, economical surveys. Assessing the data is simplified due to the use of the uniform horizontal primary field. The patented design feature of the measurement of both the in-phase and out-of-phase (quadrature) component of the vertical field provides the information necessary for comprehensive interpretation of the field results.

SPECIFICATIONS

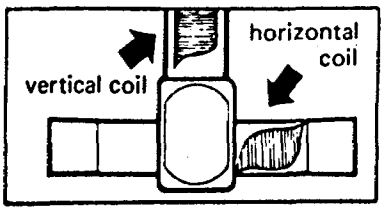
Source of primary field:	VLF transmitting stations.
Transmitting stations used:	Any desired station frequency supplied with the instrument in the form of plug-in tuning units. Two tuning units can be plugged in at one time. A switch selects either station.
Operating frequency range:	About 15 – 25 kHz
Parameters measured:	(1) The vertical in-phase component (tangent of the tilt angle of the polarization ellipsoid). (2) The vertical out-of-phase (quadrature) component the short axis of the polarization ellipsoid compared to the long axis).
Method of reading:	In-phase from a mechanical inclinometer; out-of-phase from a calibrated dial. Nulling by audio tone.
Scale range:	In-phase ± 150%; Out-of-phase ± 40%.
Readability:	± 1%
Reading time:	10 – 40 seconds depending on signal strength.
Operating temperature range:	–40 to 50°C
Power Supply:	6 size AA (penlight) alkaline cells. Life about 200 hours.
Dimensions:	16 x 5.5 x 3.5 in (42 x 14 x 9 cm)
Weight:	2.5 lbs (1.1 kg)
Instrument supplied with:	Monotonic speaker, carrying case, manual of operation, 3 station selector plug-in tuning units (additional frequencies are optional), set of batteries.
Shipping weight:	10 lbs (4.5 kg)

SIMPLE ONE-MAN OPERATION



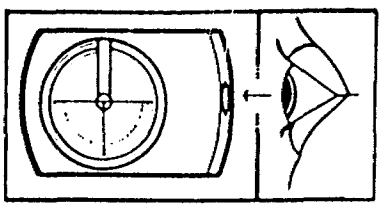
STATION SELECTOR

after selection of 2 VLF stations and insertion of proper plug-in units, knob rotation allows switching.



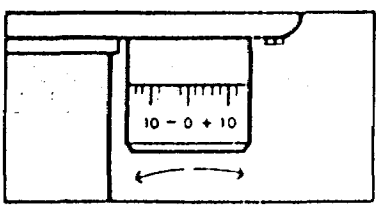
RECEIVING COILS

vertical receiving coil circuit in instrument picks up any vertical signal present. Horizontal receiving coil circuit, after automatic 90° signal phase shift, feeds signal into out-of-phase dial in series with the receiving coil.



IN-PHASE DIAL

shows the tilt-angle of the instrument for minimum signal. This angle is the measure of the vertical in-phase signal expressed in percentage when compared to the horizontal field.

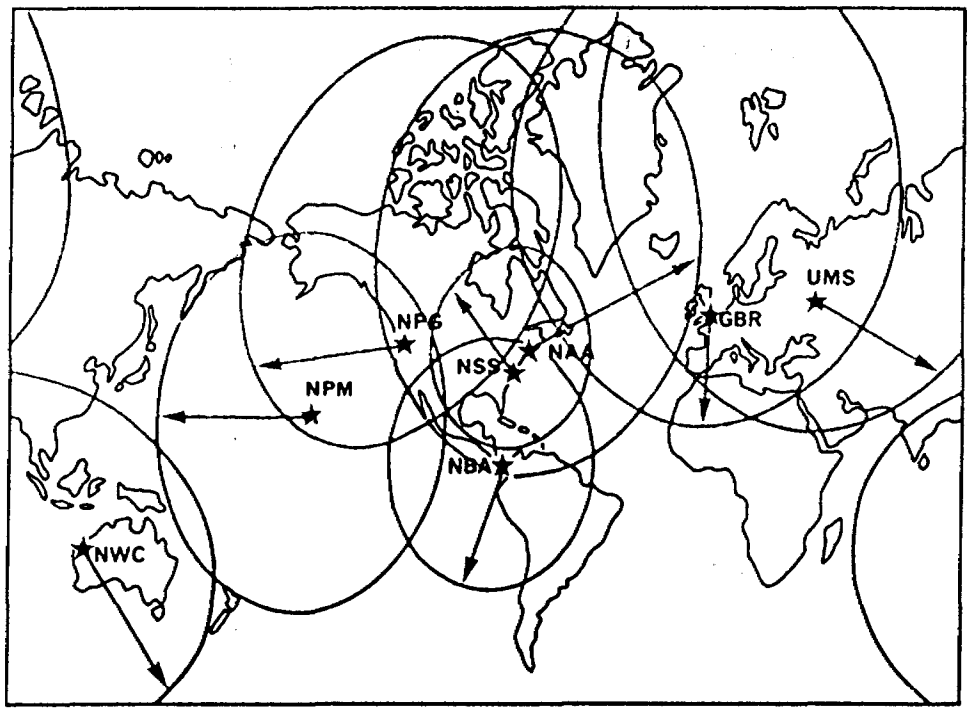


OUT-OF-PHASE DIAL

is calibrated in percentage markings and nulls the vertical quadrature signal in the vertical coil circuit.

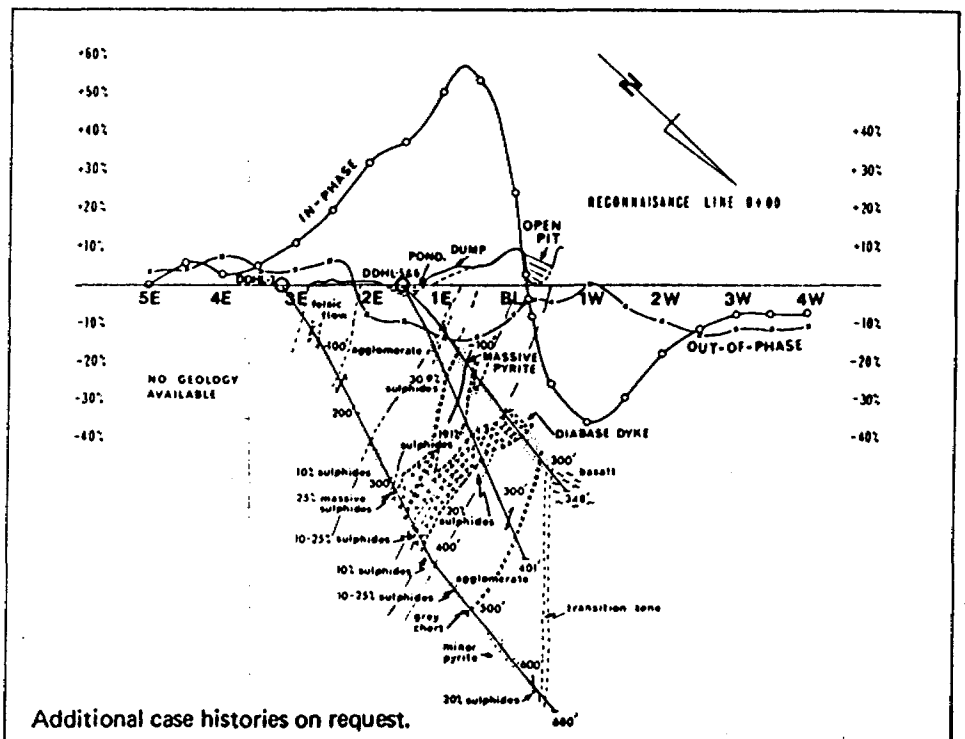
AUTHORIZED AGENT:

AREAS OF VLF SIGNALS



△ Coverage shown only for well-known stations. Other reliable, fully operational stations exist. For full information regarding VLF signals in your area consult Geonics Limited. Extensive field experience has proved that the above circles of coverage are very conservative and are actually much larger in extent.

EM16 PROFILE
over Lockport Mine property, Newfoundland



Additional case histories on request.

MANITOU LAKES PROJECT
SUMMER AND FALL 1983 EXPLORATION
PROGRAM REPORT

with

ADDENDUM ON 1984 WINTER EXPLORATION

FOR

COCHRANE OIL & GAS LTD.

BY

GARY A. NOLIN, P. GEOL.
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ALBERT VONHOF, PHD. P. ENG.
M. FOX, P. GEOL.

NTS 52F-7

NOLIN GEO ENTERPRISES LTD.
1983

ADDENDUM

MANITOU LAKES PROJECT

1984 WINTER EXPLORATION PROGRAM

GEOPHYSICS AND DRILLING

NTS 52F-7

LIST OF FIGURES

Introduction

In order to follow up, and further define anomalies found by the Summer Fall 1983 Exploration Program and to explore favourable areas not covered by the Summer Exploration and to hold ground a Winter Program of geophysics and drilling was conducted. As approximately only half of the 1278 soil samples collected over the summer were analyzed, all remaining samples were analyzed.

Geochemical Follow Program

To better define and evaluate anomalous areas, all remaining samples were sent to Barringer Magenta Limited Labs. in Calgary for their "Gold Print" analysis by atomic absoprtion spectrophotometry.

New maps were generated and the revised maps substituted into the Summer Fall Report. The additional infill analysis results are included as Appendix I to this Addendum.

Staking

4 additional claims were staked between the Gold Rock Extension Block and the Leuiller Island Block to facilitate grouping and to cover a geophysical anomaly near Gold Island.

1984 WINTER GEOPHYSICAL PROGRAM

The winter geophysical program for the Manitou Lakes project consisted of VLF-EM, magnetic, horizontal loop and C.E.M. shootback surveys. Readings were gathered at 25 meter intervals.

The VLF-EM surveys were conducted with a Geonics EM-16 using the Anapolis (NSS 21.4 kHz) transmitting station. All readings were taken facing in a north-east direction.

The magnetic data was taken in a series of closed loops to ascertain that the magnetic data is free of excessive noise due to diurnal drift. As the magnetic drift was generally less than 50 gammas and observed magnetic anomalies are large (usually significantly greater than 1000 gammas), the field data was not corrected for drift.

The horizontal loop surveys were carried out using an Apex Max-Min II horizontal loop system at frequencies of 444 and 1777 hz. and a coil spacing of 100 meters. Topographic corrections were carried out on the survey based on inclinometer readings taken concurrently with the survey.

Shootback surveys were carried out using the Crone C.E.M. shootback dip angle system. The survey was conducted with a coil separation of 50 meters and frequencies of 5010 and 1830 Hz.

The survey totals are listed in the table below:

AREA	VLF-EM	MAGNETIC	C.E.M.	MAX MIN II
Giant Mines Grid	7.0 km	8.5 km	-	-
Gold Rock Extension Grid				
(Leuiller Island)	4.1 km	-	-	1.9 km
(Trafalgar Bay)	7.0	-	-	-
(West Mosher Bay)	3.0 km	-	2.0 km	4.7 km
Queen Alexander Grid				
(Goose Egg Lake)	2.5 km	-	-	-
(Carleton Lake)	2.8 km	-	-	2.8 km
Glass Reef Mine Grid	26.0 km	48.4 km	-	-

...../2

1. Giant Mines Grid

Magnetic and VLF-EM surveys were conducted on cut lines on the Giant Mines Grid to re-establish coverage obtained during the previous summer exploration program. (See figures 1A and 1B.) The surveys consisted of 8.5 line kilometers of total field magnetic data and 7.0 line kilometers of VLF-EM.

2. Gold Rock Extension Grid

Survey work on the Gold Rock Extension consisted of VLF-EM with follow up of C.E.M. and Max Min II in the West Mosher Bay area.

Land based grids were cut on Leuiller, Gold and Rochon Islands and subsequent VLF-EM coverage was obtained (see figure 3A). Significant EM conductors are shown on the map.

Reconnaissance lines of VLF-EM were undertaken in the Trafalger Bay area as shown in fugure 4A.

A VLF-EM survey in the West Mosher Bay area (figure 5A) was followed up by C.E.M. and Max Min II surveys (see figures 6A and 7A respectively). The coil separation for the C.E.M. survey (50 m) was deemed insufficient to resolve the VLF conductors. As such the Max Min II survey was run and was successful in discriminating VLF-EM responses. The horizontal loop (Max Min II) conductor was subsequently drill tested and was found to be due to massive sulphides (DDH MB-84-1 and MB-84-2).

3. Queen Alexander Mines Grid

VLF-EM surveys were carried out on the Goose Egg Lake and Carleton Lake areas (figures 8A and 9A respectively). Drilling in the Goose Egg Lake area is based on VLF interpreted faults as well as geological mapping. The VLF-EM survey in the Carleton Lake area was followed up by a horizontal loop survey (figure 10A0. A weak horizontal loop response confirmed an interpreted VLF-EM conductor and will be drill tested.

...../3

4. Glass Reef Mine Grid

VLF-EM and magnetic surveys were conducted over the winter grid established on the Glass Reef Mine area (see figures 12A and 13A respectively). In addition to the grid established on the ice, several base lines were cut on land to establish control for land based work (see figure 11A). A significant magnetic anomaly (up to 9,000 gammas above background) was delineated, which appears to be caused by a metasedimentary iron formation. Several VLF-EM conductors were detected and should be followed up by horizontal or vertical loop EM. A drill program based on previous work is in progress and a drill hole is planned to test an interesting conductor associated with part of the iron formation.

RESULTS AND RECOMMENDATIONS

The geophysical results as described in the geophysics section are outlined and illustrated in figures 1A to 13A.

Assaying of drill core based on this winter results, and continued exploration generally following the recommendations of the Summer Fall Report are warranted.

RECONNAISSANCE DRILLING PROGRAM

Introduction

A total of 14 "Winkie" drill holes were drilled on the Cochrane Oil & Gas Ltd Manitou Lakes Area claim blocks to test a number of geochemical, geological and geophysical targets outlined by 1983 summer work and winter geophysical surveying carried out in January 1984. 2 deep drill hole were also put down on the Glass Reef Mine Grid. The results of these drill tests are summarized below.

1. Leuiller Island (Drill holes LI-84-1 and LI-84-2)

   Two diamond drill holes (1" core) were spotted to drill test a zone of quartz veining which returned a significant assay from the summer sampling program. Limited outcrop exposure and complex jointing led to an erroneous interpretation of strike direction and DDH LI-84-1 was drilled essentially parallel to strike without intersecting the mineralized zone. A second hole, DDH LI-84-2, was spotted at a more favourable angle and intersected the mineralized structure which appears to be related to a major northeasterly striking fault zone along the east side of Leuiller Island.

DRILL HOLE CO-ORDINATES (North Block)

DDH	GRID CO-ORDINATES	ANGLE	AZIMUTH	DEPTH
LI-84-1	10,320E - 663 + 85N	-45°	060°	155.5
LI-84-2	10,320E - 663 + 85N	-45°	018°	145.0
MB-84-1	10,700E - 397 + 60N	-45°	330°	150.0
MB-84-2	10,700E - 397 + 95N	-45°	330°	165.0
QA-84-1	7,570E - 396 + 10N	-45°	140°	161.0
QA-84-2	7,600E - 396 + 20N	-45°	140°	150.0
QA-84-3	7,820E - 398 + 15N	-45°	140°	104.0
QA-84-4	7,825E - 397 + 80N	-45°	140°	112.0
GI-84-1	10,520E - 659 + 80N	-45°	050°	142.5
GI-84-2	10,520E - 659 + 80N	-45°	306°	161.0

2. Manitou Straits Area

a) (Drill holes QA-84-1 and QA-84-2)

Two diamond drill holes (1" core) were spotted to test a strong VLF-EM conductor in the vicinity of favorable soil geochemical anomalies and DDH QA-84-1 intersected 2 - 5% disseminated sulphides throughout a sequence of felsic crystal tuffs and graphitic schists, cut by one weak shear zone. The drill hole (QA-84-1) was not considered to be a satisfactory test of the conductor and a second drill hole (QA-84-2) was drilled on a 50' step-out with essentially the same negative results. Based on the rather interesting intersections at the west end of Mosher Bay, in a similar geological setting, it is recommended that additional geophysical surveying be carried out (Max Min Multi-frequency horizontal loop) and that any new or more specifically defined geophysical targets should be drill tested.

b) (Drill holes QA-84-3 and QA-84-4)

Within the same Manitou Straits detailed grid area (in the vicinity of the portage between Manitou Straits and the southern lobe of Mosher Bay), VLF-EM surveying outlined a second conductor in an area of little outcrop. Drill hole QA-84-3 intersected a monotonous section of felsic crystal tuffs or fine-grained volcanisedimentary rocks without any explanation of the VLF conductor. Drill hole QA-84-4 was sited 35 meters to the southeast and intersected a weakly pyritized chloritic shear zone in felsic metasedimentary rocks.

3. West Mosher Bay Area (Drill holes MB-84-1 and MB-84-2)

Three types of ground EM surveying (VLF-EM, Crone Cem "shoot-back", and Max Min multi-frequency horizontal loop) were carried out over a detailed grid area at the west end of Mosher Bay where disseminated sulphides in metasedimentary rocks had been observed in outcrop. Drill hole MB-84-1 was spotted to test a relatively poor Max Min conductor and

intersected only 0.5 - 5% disseminated sulphides in a metasedimentary section composed predominantly of graph itic argillite. A re-evaluation of the geophysical target suggested the target occurred at a depth of 30 - 40 meters below surface so a second hole was attempted from a point "closer" to the Max Min conductor. Diamond drill Hole intersected a 9' thick zone of massive and semi-massive sulphides (75% - 95% py) in a cherty argillaceous host rock within a section of graphitic schist and interbedded felsic metasediments. The zone of massive sulphides was followed by a 28' thick section of 20% to 40% banded sulphides in a similar host rock. Assay results of core samples are pending.

4) Gold Island Area

Subsequent to recording four new claims in this area, two diamond drill holes (1" core) were sited to drill test what appeared to be a felsic dyke. As at Leuiller Island, jointing and limited bedrock exposure suggested a northwesterly trending strike and possibly continuity with the mineralized zone exposed at the south end of Leuiller Island. The first hole, oriented subparallel to regional folliation, did not interect the target. A second hole, drilled at an orientation approximately 90° to regional strike, intersected a rhyodacitic flow or dyke, which is apparently concordant with the enclosing dacitic flows and tuffs, but superficially resembles an intrusive dyke in outcrop.

5) Carleton Lake Area

a) drill holes CL -84 - 1 and CL - 84 - 2

Ground VLF - EM and Max - Min electromagnetic surveying along cut grid lines confirmed the presence of a complicated pattern of conductors first noted by reconnaissance summer work. Although interpretation suggested the Max - Min anomaly was due to conductive overburden, two drill holes were sited to test this favorable setting along the margin of the Carleton Lake stock, which closely parallels the geologic setting of the Queen Alexandra prospect, approximately 1 km to the north. Both diamond drill holes (1" core) intersected massive propylitized porphyritic quartz monzonite cut by a few quartz and aplite stringers.

b) Drill Hole MS - 84 - 1

Approximately 1 km southeast of Carleton lake reconninssance summer work had identified a conductive zone along the main Manitou straits fault trend. A single drill hole (1" core) here intersected only weak quartz veining cutting a dacitic volcanic sequence.

c) Beaverhead Island Area (Glass Reef Claim Group)

In addition to the nearby BQ drill testing of a ground magnetic and VLF - EM anomaly along trend on a magnetite iron formation, a Winkie drill hole (1"core) was sited to drill test a zone of sulphide mineralization in sericite schist up-section from the iron formation. In outcrop, the zone is deeply weakened and oxidized. The drill hole interesected a 10' wide zone of 5 - 15% banded and disseminated sulphides in a sheared quartz sericite schist cut by later quartz pyrite stringers striking subparallel to regional schistosity. Assay results are pending.

Drill Hole Data (Carleton Lake to Lower Manitou Lake)

DDH	Grid coordinates	Angle	Azimuth	Depth
Cl - 84 - 1	L8+00E,497+60N	-45°	330	150'
CL-84-2	L8+00E,497+60N	-45°	150°	150.5
MS-84-1	L9+75E,487+50N	-45°	330°	121'
BB-84-1	L52+50E,23+75N	-45°	150°	108'

7) Glass Reef Claim Group

Also included as reconnaissance drill tests are two BQ diameter holes (1 7/16" core) drilled to test i) chemically precipiated sedments (suspected chert and iron formation) in the vicinity of the glass reef mine and ii) a coincident ground magnetic high and VLF - EM anomaly located under 55' of water along trend from a magnetite iron stone formation which outcrops at beaverhead island D.D.H. GR-84-1 intersected a sequence of mafic and intermediate volcanic rocks, quite different from the expected metasedimentary package indicated as being present by 1:31, 680 scale published geological mapping. This result is most likely accounted for by local fault offsets, but further detailed geological mapping will have to be carried out during summer field conditions to ascertain this. DDH - GR - 84 - 2 intersected a fairly uniform [illegible] sedimentary sequence which had 2.5% accessory magnetite, apparently accounting for one lobe of the magnetic anomaly. The drill hole was stopped due to technical difficulties with the drill [illegible]

lobe of the magnetic anomaly and VLF - EM conductor were not tested.

Drill Hole Data (Glass Reef Claim Group)

DDH	Grid Co-ordinates	Angle	Azimuth	Depth
GR-84-1	L44+25E,9+00N	-45°	330°	501'
GR-84-2	L49 tooE,24+35N	-45°	330°	317'

APPENDIX I

BARRINGER MAGENTA

304 CARLINGVIEW DRIVE
REXDALE, ONTARIO
M9W 5G2
(416) 675-3870

3750 - 19TH STREET
SUITE 105
CALGARY, ALBERTA
T2E 6V2
(403) 276-8701

FILE: 13-0791
DATE: 22/12/83
MATRIX: NO3/CL04

INFILL SAMPLES
MANITOU AREA

NOLIN GEO-ENTERPRISES

WO NO: 83-0791

SAMPLE ID	AU PPB	AS PPM	HG PPB	SB PPM	AG PPM	SAMPLE ID	AU PPB	AS PPM	HG PPB	SB PPM	AG PPM
1000+300S	<5	3.8	182	.2	<.2	2600+100S	<5	1.7	77	<.2	<.2
1100+200S	<5	3.1	96	<.2	<.2	2600+700S	<5	3.5	139	<.2	.6
1100+400S	<5	1.4	141	.2	<.2	2600+1000S	<5	2.5	83	<.2	<.2
1300+200S	<5	3.8	218	.2	<.2	2700+200S	<5	1.7	83	<.2	<.2
1300+400S	<5	3.3	177	.2	<.2	2700+400S	<5	2.5	157	<.2	.2
1400+200S	<5	1.8	159	.2	<.2	2700+600S	<5	1.4	231	<.2	<.2
1400+400S	<5	1.4	109	.2	<.2	2700+800S	<5	1.2	171	<.2	<.2
1500+200S	<5	.6	68	.2	<.2	2700+1000S	<5	1.8	241	<.2	<.2
1500+400S	<5	2.0	159	.2	<.2	2800+400N	<5	3.7	342	<.2	<.2
1500+600S	<5	1.8	118	.2	<.2	2800+600N	<5	1.0	32	<.2	.6
1500+ ?	<5	1.1	187	.2	<.2	3300+200N	<5	4.0	19	<.2	.6
1700+200S	<5	6.7	168	.2	<.2	3300+400N	20	1.0	37	<.2	<.2
1700+400S	<5	3.5	232	.6	<.2	NBL50+100S	<5	.8	37	<.2	<.2
1700+600S	<5	4.9	118	<.2	<.2	NBL2400+100S	<5	1.0	180	<.2	<.2
1800+100N	<5	2.8	164	<.2	<.2	NBL2400+300S	<5	.8	46	<.2	.2
1800+300N	<5	1.2	164	<.2	<.2	NBL36+00100N	<5	.7	42	<.2	<.2
1800+500N	<5	1.5	173	.2	<.2	NBL36+00300N	<5	4.5	46	<.2	<.2
1800+200S	<5	2.0	146	<.2	<.2	SBL36+00360N	<5	4.8	74	<.2	<.2
1800+600S	<5	2.1	132	<.2	<.2	100E-100N	<5	5.9	37	<.2	.2
1900+200S	<5	1.2	132	<.2	<.2	100E-300N	<5	4.7	23	<.2	<.2
1900+400S	<5	2.8	146	<.2	<.2	200E-100N	<5	11.0	51	<.2	<.2
1900+600S	<5	4.2	182	<.2	.2	200E-300N	<5	5.9	88	<.2	.2
2000+100N	<5	5.0	241	.2	.2	300E-100N	<5	3.8	134	<.2	.2
2000+300N	<5	8.9	200	.2	<.2	300E-300N	<5	5.0	88	<.2	.6
2000+200S	<5	3.5	237	.2	<.2	400E-100N	<5	3.9	42	<.2	<.2
2000+400S	<5	5.9	168	<.2	.4	400E-300N	<5	4.7	77	<.2	<.2
2100+100N	<5	3.3	291	<.2	<.2	400E-200S	<5	5.6	176	<.2	<.2
2100+300N	<5	1.5	137	<.2	<.2	GR00+300S	<5	3.0	143	<.2	.4
2200+100N	<5	4.4	123	<.2	.2	GR00+400S	<5	2.5	254	<.2	.4
2200+300N	<5	1.5	200	.2	<.2	GR1500+100N	<5	1.9	130	<.2	.4
2200+200S	<5	4.7	228	.2	.4	GR1500+300N	<5	3.9	190	<.2	<.2
2200+400S	<5	4.3	187	<.2	<.2	GR2000+150S	<5	2.3	139	<.2	.4
2200+600S	<5	2.3	150	<.2	<.2	GR2000+450S	<5	2.5	69	<.2	<.2
2300+200S	<5	2.1	182	<.2	.2	GR2000+550S	<5	3.1	42	<.2	<.2
2300+400S	<5	2.5	146	<.2	<.2	GR2000+650S	<5	3.9	64	.2	.2
2400+100S	<5	2.3	182	.2	<.2	GR2000+750S	<5	5.2	42	<.2	<.2
2400+300S	<5	4.0	222	<.2	<.2	GR2500+200N	<5	3.2	101	<.2	<.2
2400+500S	<5	3.4	111	.2	<.2	GR2500+100N	<5	.9	134	<.2	<.2
2400+700S	<5	2.8	74	<.2	<.2	GR2500+350N	<5	2.4	157	<.2	<.2
2400+900S	<5	4.5	217	<.2	<.2	GR2500+450N	<5	3.1	134	<.2	<.2
2500+200S	<5	2.2	278	<.2	<.2	GR3000+100N	<5	1.8	134	<.2	<.2
2500+400S	<5	2.9	204	<.2	<.2	C2K400E+50S	<5	2.2	65	<.2	<.2
2500+600S	<5	5.0	319	.2	<.2	C2K400E+150S	<5	2.3	60	<.2	<.2
2500+800S	<5	2.2	125	<.2	.2	C2K400E+250S	<5	3.0	60	<.2	<.2
2500+1000S	<5	5.1	120	<.2	.2	C2K500E+50S	<5	3.0	106	<.2	<.2

BARRINGER MAGENTA

304 CARLINGVIEW DRIVE
REXDALE, ONTARIO
M9W 5G2
(416) 675-3870

3750 - 19TH STREET
SUITE 105
CALGARY, ALBERTA
T2E 6V2
(403) 276-9701

FILE: T3-0791
DATE: 22/12/83
MATRIX: N03/CL04

NOLIN GEO-ENTERPRISES — WO NO: 83-0791 —

SAMPLE ID	AU PPB	AS PPM	HG PPB	SB PPM	AG PPM	SAMPLE ID	AU PPB	AS PPM	HG PPB	SB PPM	AG PPM
C2K500E+150S	<5	4.1	148	<.2	<.2	C6K00+700N	<5	1.3	157	<.2	<.2
C3K00+100N	<5	2.6	83	<.2	<.2	C6KR200+100N	<5	1.5	148	<.2	<.2
C3K00+200N	<5	3.0	115	<.2	<.2	C6KR200+200N	<5	2.8	162	<.2	.2
C3K00+300N	<5	1.5	125	<.2	<.2	C6KR400+150N	<5	4.8	116	<.2	<.2
C4K00+100N	<5	2.6	111	<.2	.8	C6KR400+250N	<5	2.0	199	<.2	<.2
C4K00+500N	<5	3.4	134	<.2	.4	BLK100+100N	<5	2.4	157	<.2	<.2
C4K100+100S	<5	3.9	212	<.2	.2	BLK100+200N	<5	2.4	250	<.2	<.2
C4K100+300S	<5	3.5	111	<.2	.2	BLK100+300N	<5	1.8	69	<.2	<.2
C4K100+500S	<5	4.5	153	<.2	.2	BLK100E+100N	<5	4.2	157	<.2	<.2
UM3500+150S	<5	2.6	162	.2	.4	BLK100E+200N	<5	7.7	160	<.2	<.2
UM3500+350N	<5	1.3	180	<.2	<.2	BLK100E+300N	<5	1.8	188	<.2	<.2
UM4000+150N	<5	4.0	190	<.2	.2	BLK100E+450N	<5	3.0	183	<.2	.8
UM4000+250N	<5	1.5	129	<.2	.4	BLK100E+550N	<5	2.9	183	<.2	.2
UM4500+150S	<5	2.2	180	<.2	.2	BLK100E+100S	<5	2.3	212	<.2	<.2
C5K300+100S	<5	4.0	82	<.2	<.2	BLK100E+150S	<5	2.7	216	<.2	<.2
C5K300+200S	<5	4.9	139	<.2	<.2	BLK100+250S	<5	4.0	348	<.2	.4
C5K500+50 N	<5	1.7	19	<.2	<.2	BLK300+100N	<5	3.2	146	<.2	.4
C5K500+150N	<5	2.8	51	.2	<.2	BLK300+200N	<5	2.7	155	<.2	.2
C5K500+250N	<5	1.5	185	<.2	.4	BLK300+100S	<5	1.6	169	<.2	.2
C5K500+150S	<5	3.7	190	<.2	.2	BLK300+200S	<5	1.1	146	<.2	<.2
C5K500+250S	<5	5.4	226	<.2	.2	BLK300E+150W	<5	1.8	188	<.2	<.2
C5K700+ 50N	<5	1.0	111	<.2	<.2	BLK300E+300N	<5	3.4	183	<.2	<.2
C5K700+150N	<5	1.4	134	<.2	<.2	CBL2K00+100N	<5	1.2	188	<.2	<.2
C5K700+250N	<5	3.9	296	<.2	.2	CBL2K00+200N	<5	3.7	277	.2	<.2
C5K700+100S	<5	2.2	111	<.2	<.2	CBL2K00+300N	<5	3.2	169	<.2	<.2
C5K700+200S	<5	1.8	93	<.2	<.2	CBL2K	---	---	---	---	---
C5K700+300S	<5	4.1	130	<.2	<.2	100E+100S	<5	4.0	197	<.2	<.2
C5K900+100N	<5	2.7	199	<.2	.2	CBL2K	---	---	---	---	---
C5K900+200N	<5	2.4	227	<.2	.4	100E+200S	<5	3.2	221	<.2	.2
C5K900+300N	<5	2.9	83	<.2	.2	CBL2K	---	---	---	---	---
C5K900E+100S	<5	3.7	171	<.2	<.2	100E+300S	<5	3.5	244	<.2	.2
C5K900+200S	<5	1.0	148	<.2	<.2	C2K200E+100S	<5	2.7	165	<.2	.2
C5K900E+300S	<5	5.0	139	<.2	<.2	C2K200E+200S	<5	7.2	268	<.2	<.2
C6KL200+100N	<5	3.3	176	<.2	<.2	C2K200E+350S	<5	3.6	202	<.2	.4
C6KL200+200N	<5	.5	116	<.2	<.2	C2K300E+100S	<5	2.8	122	<.2	<.2
C6KL200+350N	<5	3.0	51	<.2	<.2	C2K300E+200S	<5	3.2	221	<.2	.2
C6KL200+450N	<5	2.2	148	<.2	<.2	C2K300E+300S	<5	4.2	150	<.2	.6
C6KL200+550N	<5	1.9	148	<.2	<.2	LL450E+100N	<5	2.5	141	<.2	.2
C6KL200+650N	<5	1.9	199	<.2	<.2	LL450E+250N	<5	2.4	212	<.2	<.2
C6K00+100N	<5	2.2	167	<.2	<.2	LL450E+350N	<5	1.2	183	.2	<.2
C6K00+200N	<5	2.8	190	.2	<.2	LL450E+450N	<5	2.1	306	<.2	<.2
C6K00+300N	<5	2.3	199	<.2	<.2	175LLW+150N	<5	.6	183	<.2	<.2
C6K00+400N	<5	4.2	194	<.2	<.2	00A+50NN WN	<5	3.2	85	<.2	<.2
C6K00+500N	<5	3.5	106	<.2	<.2	00W+100N WN	<5	1.3	249	<.2	<.2
C6K00+600N	<5	4.7	134	<.2	<.2	00WN+250N WN	<5	2.4	197	<.2	<.2

BARRINGER MAGENTA

304 CARLINGVIEW DRIVE
REXDALE, ONTARIO
M9W 5G2
(416) 675-3870

3750 - 19TH STREET
SUITE 105
CALGARY, ALBERTA
T2E 6V2
(403) 276-9701

FILE: T3-0791
DATE: 22/12/83
MATRIX: NO3/CL04

NOLIN GEO-ENTERPRISES WO NO: 83-0791 PAGE: 3

SAMPLE ID	AU PPB	AS PPM	HG PPB	SB PPM	AG PPM
200W +50N WN	<5	3.0	179	<.2	.2
200W +150NWN	<5	9.0	122	<.2	<.2
200W+350N WN	<5	4.7	212	<.2	.2
200WW+150N	<5	3.3	174	<.2	<.2
200WW+100S	<5	.3	169	<.2	<.2
200WW+200S	<5	2.2	226	<.2	<.2
200WE+50N WN	<5	3.9	169	<.2	.6
200WE+150NWN	<5	2.1	207	<.2	<.2
200WE+300NWN	<5	1.8	103	<.2	<.2
350WE+100NWN	<5	2.2	118	<.2	<.2
350WE+200NWN	<5	1.1	71	<.2	.2
400W+150NWN	<5	1.2	202	<.2	<.2
400W+200NWN	<5	3.1	212	.2	.4
400W+350NWN	<5	3.0	174	<.2	.6
50+100S	<5	2.0	169	<.2	<.2
900+200N	<5	6.0	193	<.2	.2
UM500+400S	<5	1.8	141	<.2	<.2
UM1500+150S	<5	2.5	127	<.2	.2
UM1500+400S	<5	1.6	136	<.2	<.2
UM1500+600S	<5	2.1	118	<.2	.2
UM1500+700S	<5	2.5	136	<.2	.2
UM1500+850S	<5	3.0	141	<.2	<.2
UM2000+100N	<5	6.9	113	.4	.2
UM2000+300N	<5	3.9	150	<.2	<.2
UM2000+450N	<5	3.2	183	<.2	<.2
UM2000+550N	<5	2.3	197	<.2	<.2
UM2000+600N	<5	4.5	240	<.2	<.2
UM2000+700N	<5	3.9	94	<.2	.2
UM2000+800N	<5	4.9	103	<.2	<.2
GB400E+100N	<5	17.0	80	<.2	<.2
GB400E+200N	<5	7.4	132	<.2	<.2
GB400E+500N	<5	7.7	75	<.2	<.2
GB600E+50N	<5	4.2	85	<.2	<.2
GB600E+150N	10	3.7	71	<.2	<.2
GB600E+250N	<5	1.0	160	<.2	<.2
GB600E+400N	<5	4.9	132	<.2	<.2
GB600E+600N	<5	3.2	71	<.2	<.2
GLS500E+100N	<5	5.4	99	<.2	<.2
GLS500E+300N	<5	5.0	150	<.2	<.2
GLS600E+100N	<5	7.1	193	<.2	<.2
GLS600E+300N	<5	6.1	127	<.2	<.2
GLS600E+500N	<5	6.3	85	<.2	<.2
GLS700E+200N	<5	5.3	99	<.2	<.2
GLS700E+400N	<5	10.8	103	<.2	<.2
GLS700E+100N	<5	6.3	70	<.2	<.2

SAMPLE ID	AU PPB	AS PPM	HG PPB	SB PPM	AG PPM
GLS800E+300N	<5	1.6	99	<.2	.2
GLS800E+500N	<5	3.7	165	<.2	<.2
GLS800E+200S	<5	3.5	220	<.2	<.2
GLS800E+400S	<5	5.4	259	<.2	<.2
GLS800E+600S	<5	2.1	85	<.2	.2
GLS900E+200S	<5	6.6	99	<.2	<.2
GLS900E+400S	<5	7.0	235	<.2	.2

BARRINGER MAGENTA

304 CARLINGVIEW DRIVE
REXDALE, ONTARIO
M9W 5G2
(416) 675-3870

3750 - 19TH STREET
SUITE 105
CALGARY, ALBERTA
T2E 6V2
(403) 276-8701

FILE: L3\0792
DATE: 18/12/83
MATRIX: NO3/CL04

INFILL SAMPLES
GIANT & MANITOU AREA

NOIN GEO-ENTERPRISES

WO NO: 83-0792

SAMPLE ID	AS PPM	HG PPB	SB PPM	AG PPM	AU PPB	SAMPLE ID	AS PPM	HG PPB	SB PPM	AG PPM	AU PPB
100E-94+25N	1.6	136	.2	.4	<5	104E-100+25N	1.4	142	<.2	<.2	<5
100E-94+75N	.6	106	<.2	<.2	<5	104E-102+75N	2.2	94	<.2	<.2	<5
100E-95+25N	1.0	195	.2	.2	<5	104E-101+25N	1.1	94	<.2	.2	<5
100E-95+75N	1.8	148	.2	.2	<5	104E-101+75N	1.0	83	<.2	<.2	<5
100E-96+25N	.9	200	.2	<.2	<5	104E-102+25N	1.7	83	<.2	<.2	<5
100E-96+75N	2.5	195	.2	<.2	<5	104E-102+75N	1.6	118	<.2	<.2	<5
100E-97+25N	1.2	148	<.2	.4	<5	104E-103+25N	1.0	106	<.2	<.2	<5
100E-97+75N	1.5	159	<.2	.2	<5	104E-103+75N	1.1	106	<.2	<.2	<5
100E-98+25N	1.5	165	<.2	.2	<5	105E-95+25N	.5	59	<.2	<.2	FOLLOW
100E-98+75N	1.5	124	.2	<.2	<5	105E-95+75N	3.9	212	<.2	<.2	<5
100E-99+25N	.7	112	<.2	<.2	<5	105E-96+25N	4.3	290	.3	<.2	<5
100E-99+75N	3.6	171	.2	<.2	<5	105E-96+75N	1.3	177	<.2	<.2	<5
100E-100+25N	.9	136	.2	<.2	<5	105E-97+25N	1.6	254	<.2	<.2	<5
100E-100+75N	2.1	124	<.2	<.2	<5	105E-97+75N	3.4	254	<.2	<.2	<5
100E-101+25N	3.9	212	.2	<.2	<5	105E-98+25N	1.5	177	<.2	<.2	<5
100E-101+75N	.8	130	.2	<.2	<5	105E-98+75N	1.4	130	<.2	<.2	<5
100E-102+25N	3.2	207	.2	<.2	<5	105E-99+25N	.8	171	<.2	<.2	<5
100E-102+75N	2.0	136	.2	<.2	<5	105E-100+25N	1.7	47	<.2	<.2	<5
102E-94+25N	3.1	325	.2	.2	<5	105E-100+75N	.4	224	<.2	<.2	<5
102E-94+75N	1.4	212	.2	.2	<5	105E-101+25N	1.9	89	<.2	<.2	<5
102E-95+25N	1.4	255	<.2	<.2	<5	105E-101+80N	3.2	118	.4	<.2	<5
102E-95+75N	2.6	270	.2	<.2	<5	106E-96+25N	3.6	77	.2	<.2	<5
102E-96+25N	.9	147	<.2	.2	<5	106E-96+75N	1.6	212	<.2	<.2	<5
102E-96+75N	1.5	265	<.2	<.2	<5	106E-97+25N	2.2	159	.2	<.2	<5
102E-97+25N	.6	142	<.2	<.2	<5	106E-97+75N	3.7	153	.2	<.2	<5
102E-97+75N	3.5	224	<.2	.4	<5	106E-98+25N	2.4	159	<.2	<.2	<5
102E-98+25N	2.5	207	.2	<.2	<5	106E-98+75N	2.0	94	.2	<.2	<5
102E-98+75N	2.8	195	.2	.8	<5	106E-99+25N	.6	124	<.2	<.2	<5
102E-99+25N	2.6	195	<.2	.2	<5	106E-99+75N	2.9	177	<.2	.4	<5
102E-99+75N	1.1	177	<.2	<.2	<5	106E-100+25N	2.1	177	<.2	<.2	<5
102E-100+50N	4.0	130	<.2	<.2	<5	106E-100+75N	.9	142	.2	<.2	<5
102E-101+25N	5.8	100	<.2	<.2	<5	106E-101+25N	2.4	177	<.2	.4	<5
102E-101+75N	1.0	218	<.2	<.2	<5	106E-101+68N	.5	189	<.2	.2	<5
102E-102+25N	3.2	71	<.2	<.2	<5	106E-97+25N	1.3	165	<.2	<.2	<5
102E-102+75N	.3	94	<.2	<.2	<5	106E-97+75N	3.2	212	<.2	<.2	<5
102E-103+25N	1.0	218	<.2	.2	<5	106E-98+25N	1.1	189	<.2	<.2	<5
102E-103+50N	2.1	200	<.2	<.2	<5	106E-98+75N	1.5	144	<.2	<.2	<5
104E-96+25N	3.5	248	.6	<.2	<5	106E-99+25N	1.9	170	<.2	<.2	<5
104E-96+75N	1.8	236	<.2	<.2	<5	106E-99+75N	1.8	152	<.2	.2	<5
104E-97+25N	1.6	200	<.2	<.2	<5	106E-100+25N	4.4	131	<.2	.4	20
104E-97+75N	2.6	189	<.2	<.2	<5	106E-100+75N	5.5	100	<.2	.2	5
104E-98+25N	1.5	165	<.2	<.2	<5	106E-101+25N	3.6	83	<.2	.4	<5
104E-98+75N	.6	118	<.2	<.2	<5	106E-101+75N	1.4	87	<.2	<.2	5
104E-99+25N	3.0	118	.2	<.2	<5	106E-102+25N	4.6	152	<.2	.6	<5
104E-99+75N	3.2	118	<.2	<.2	<5	106E-102+66N	.7	96	<.2	<.2	<5

BARRINGER MAGENTA

304 CARLINGVIEW DRIVE
REXDALE, ONTARIO
M9W 5G2
(416) 675-3870

3750 - 19TH STREET
SUITE 105
CALGARY, ALBERTA
T2E 6V2
(403) 276-9701

FILE: L3#0792
DATE: 18/12/83
MATRIX: NO3/CL04

NOIN GEO-ENTERPRISES

WO NO: 83-0792

SAMPLE ID	AS PPM	HG PPB	SB PPM	AG PPM	AU PPB	SAMPLE ID	AS PPM	HG PPB	SB PPM	AG PPM	AU PPB
108E-96+25N	.8	131	<.2	<.2	<5	110E-98+75N	.8	117	<.2	<.2	<5
108E-96+75N	3.0	235	<.2	.2	<5	110E-99+25N	2.5	152	<.2	<.2	<5
108E-97+25N	2.8	144	<.2	.4	<5	110E-99+75N	2.7	148	<.2	.2	<5
108E-97+75N	4.0	274	<.2	<.2	<5	110E-100+25N	2.1	83	<.2	.2	<5
108E-98+25N	2.0	117	<.2	<.2	<5	110E-100+75N	2.3	62	<.2	.2	<5
108E-98+75N	2.6	187	<.2	<.2	25	110E-101+25N	1.7	161	<.2	.4	<5
108E-99+25N	2.2	117	<.2	.4	<5	110E-101+75N	1.7	91	<.2	<.2	<5
108E-99+75N	2.6	161	<.2	.4	<5	110E-102+25N	1.4	62	<.2	<.2	<5
108E-100+25N	.8	122	<.2	.4	<5	110E-102+75N	1.8	57	<.2	.6	<5
108E-100+75N	1.5	100	<.2	<.2	FOLLOW	110E-103+25N	3.4	100	<.2	.2	<5
108E-101+25N	3.7	104	<.2	.4	<5	110E-103+75N	1.4	152	<.2	.2	<5
108E-101+68N	.5	83	<.2	.2	<5	110E-104+25N	3.6	87	<.2	.2	<5
108E-102+25N	1.2	74	<.2	<.2	<5	110E-104+75N	16.5	74	.5	.2	<5
108E-102+75N	2.4	87	<.2	<.2	<5	110E-105+25N	1.9	74	<.2	<.2	<5
109E-94+25N	1.6	178	<.2	<.2	<5	110E-105+75N	2.3	48	<.2	<.2	<5
109E-94+75N	4.6	113	<.2	<.2	30	110E-106+25N	3.0	57	<.2	<.2	<5
109E-95+25N	.7	144	<.2	<.2	<5	111E-94+25N	.6	87	<.2	<.2	<5
109E-95+50N	1.1	139	<.2	<.2	<5	111E-94+75N	1.1	109	.2	<.2	<5
109E-96+25N	1.5	109	.2	<.2	<5	111E-95+25N	1.7	144	<.2	<.2	<5
109E-96+75N	3.5	235	.2	<.2	<5	111E-95+75N	1.9	161	<.2	<.2	<5
109E-97+25N	1.5	187	.2	<.2	<5	111E-96+25N	1.2	96	<.2	<.2	<5
109E-97+75N	.6	78	<.2	.6	<5	111E-96+75N	1.0	52	<.2	<.2	<5
109E-98+25N	2.2	161	.2	<.2	<5	111E-97+25N	1.2	96	<.2	<.2	<5
109E-98+75N	2.2	161	.2	<.2	<5	111E-97+75N	.9	144	<.2	<.2	<5
109E-99+25N	2.3	96	<.2	.2	<5	111E-98+25N	4.6	161	<.2	<.2	<5
109E-99+75N	2.1	70	<.2	<.2	<5	111E-98+75N	3.1	231	<.2	<.2	<5
109E-100+25N	1.3	44	<.2	<.2	<5	111E-99+25N	1.8	196	<.2	<.2	<5
109E-100+75N	1.7	90	<.2	.6	<5	111E-99+75N	.4	187	.2	1.0	<5
109E-101+25N	3.8	74	<.2	.4	<5	111E-100+25N	1.3	61	<.2	<.2	<5
109E-101+75N	.9	83	<.2	.2	<5	111E-100+75N	.8	87	<.2	<.2	<5
109E-102+25N	2.7	139	<.2	.4	<5	111E-101+25N	1.3	65	<.2	<.2	<5
109E-102+75N	2.2	109	<.2	<.2	<5	111E-101+75N	4.6	70	<.2	<.2	<5
109E-103+25N	3.0	144	<.2	<.2	<5	111E-102+25N	3.0	65	<.2	.4	<5
109E-103+75N	1.4	126	<.2	.2	<5	111E-102+75N	1.3	122	<.2	<.2	<5
109E-104+25N	.8	57	<.2	<.2	<5	111E-103+25N	5.2	152	.2	.4	<5
109E-104+75N	3.0	87	.3	<.2	<5	111E-103+75N	4.7	96	<.2	.2	<5
110E-94+25N	1.9	157	.2	<.2	<5	111E-104+25N	42.4	48	.3	<.2	<5
110E-94+75N	2.4	230	<.2	.2	<5	111E-104+75N	2.3	152	<.2	.2	<5
110E-95+25N	1.7	91	<.2	<.2	<5	111E-105+25N	1.1	157	<.2	.2	<5
110E-95+75N	1.3	109	.2	<.2	<5	111E-105+75N	1.1	213	<.2	<.2	<5
110E-96+25N	1.6	109	.2	<.2	<5	111E-106+25N	1.1	104	<.2	<.2	<5
110E-96+75N	1.1	131	.2	<.2	<5	112E-94+25N	1.0	157	<.2	<.2	<5
110E-97+25N	1.6	126	<.2	<.2	<5	112E-94+75N	2.2	257	<.2	<.2	<5
110E-97+75N	2.5	90	.2	<.2	<5	112E-95+25N	.6	100	<.2	<.2	<5
110E-98+25N	1.8	74	.2	<.2	<5	112E-95+75N	1.5	257	.2	<.2	<5

BARRINGER MAGENTA

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T2E 6V2
(403) 276-8701

FILE: L3$0792
DATE: 18/12/83
MATRIX: NO3/CL04

NOIN GEO-ENTERPRISES — WO NO: 83-0792 —

SAMPLE ID	AS PPM	HG PPB	SB PPM	AG PPM	AU PPB	SAMPLE ID	AS PPM	HG PPB	SB PPM	AG PPM	AU PPB
112E-96+25N	.4	117	<.2	<.2	<5	114E-94+75N	1.7	157	<.2	<.2	<5
112E-96+75N	1.3	104	.2	<.2	<5	114E-95+25N	1.0	96	<.2	<.2	<5
112E-97+25N	1.7	204	<.2	<.2	<5	114E-95+75N	.8	78	<.2	<.2	<5
112E-97+75N	2.4	278	<.2	<.2	<5	114E-96+25N	2.6	144	<.2	<.2	<5
112E-98+25N	1.6	144	<.2	<.2	<5	114E-96+75N	3.9	104	<.2	<.2	<5
112E-98+75N	1.4	161	<.2	<.2	<5	114E-97+25N	3.0	109	<.2	<.2	<5
112E-99+25N	1.3	91	<.2	<.2	<5	114E-97+75N	2.0	48	<.2	.2	<5
112E-99+75N	1.0	48	<.2	<.2	<5	114E-98+25N	1.2	70	<.2	<.2	<5
112E-100+25N	2.0	187	<.2	<.2	<5	114E-99+25N	1.2	104	<.2	<.2	<5
112E-100+75N	1.3	170	<.2	<.2	<5	114E-99+75N	2.5	183	<.2	<.2	<5
112E-101+25N	2.8	140	<.2	<.2	<5	114E-100+25N	1.3	113	<.2	<.2	<5
112E-101+75N	1.0	135	<.2	.6	<5	114E-100+75N	3.1	161	<.2	<.2	<5
112E-102+25N	1.5	152	<.2	<.2	<5	114E-101+25N	.5	30	<.2	<.2	<5
112E-102+75N	4.1	187	.2	<.2	<5	114E-101+75N	1.8	70	<.2	<.2	<5
112E-103+25N	2.3	117	<.2	<.2	<5	114E-102+25N	5.2	91	<.2	<.2	<5
112E-103+75N	.9	87	<.2	<.2	<5	114E-102+75N	5.5	87	<.2	.2	<5
112E-104+25N	1.9	74	<.2	<.2	<5	114E-103+25N	2.2	61	<.2	<.2	<5
112E-104+75N	10.3	74	<.2	<.2	<5	114E-103+75N	1.0	109	<.2	<.2	<5
112E-105+25N	2.4	57	<.2	<.2	<5	114E-104+25N	1.2	200	<.2	<.2	<5
112E-105+75N	2.5	117	<.2	<.2	<5	114E-104+75N	1.3	117	<.2	.2	<5
113E-94+25N	2.2	196	<.2	<.2	<5	114E-105+25N	1.0	44	<.2	<.2	<5
113E-94+75N	1.0	161	<.2	<.2	<5	114E-105+75N	.5	83	<.2	<.2	<5
113E-95+25N	1.5	248	<.2	<.2	<5	115E-94+25N	3.8	257	<.2	<.2	<5
113E-95+75N	1.7	261	<.2	<.2	<5	115E-94+75N	2.1	165	<.2	<.2	<5
113E-96+25N	.6	148	<.2	<.2	<5	115E-95+25N	1.0	113	<.2	<.2	<5
113E-96+75N	2.5	174	<.2	<.2	<5	115E-95+75N	1.0	183	<.2	<.2	<5
113E-97+25N	2.1	153	<.2	<.2	<5	115E-96+25N	.5	109	<.2	<.2	<5
113E-97+75N	1.6	200	<.2	<.2	<5	115E-96+75N	1.6	183	<.2	.2	<5
113E-98+25N	1.6	196	<.2	<.2	<5	115E-97+25N	1.6	165	<.2	<.2	<5
113E-98+75N	2.6	248	.2	<.2	<5	115E-97+75N	3.0	163	<.2	.2	<5
113E-99+25N	1.6	183	<.2	<.2	<5	115E-98+25N	.5	83	<.2	.2	<5
113E-99+75N	2.0	213	<.2	<.2	<5	115E-98+75N	1.6	131	<.2	.2	<5
113E-100+25N	3.1	170	<.2	<.2	<5	115E-99+25N	2.1	178	<.2	<.2	<5
113E-100+75N	2.5	170	<.2	<.2	<5	115E-99+75N	1.3	83	<.2	.2	<5
113E-101+25N	2.8	200	<.2	<.2	<5	115E-100+25N	1.3	113	<.2	.2	<5
113E-101+75N	1.4	170	<.2	<.2	<5	115E-100+75N	1.1	104	<.2	.2	<5
113E-102+25N	1.7	139	<.2	.4	<5	115E-101+25N	3.2	170	<.2	.2	<5
113E-102+75N	5.9	150	<.2	.4	<5	115E-101+75N	1.4	65	<.2	<.2	<5
113E-103+25N	1.3	91	<.2	<.2	<5	115E-102+25N	2.7	100	<.2	<.2	<5
113E-103+75N	.9	78	<.2	<.2	<5	115E-102+75N	2.0	120	<.2	<.2	<5
113E-104+25N	2.0	70	<.2	<.2	<5	115E-103+25N	3.2	100	<.2	<.2	<5
113E-104+75N	1.9	65	<.2	<.2	<5	115E-103+75N	1.8	96	<.2	<.2	<5
113E-105+25N	1.1	39	<.2	<.2	<5	115E-104+25N	.9	104	<.2	<.2	<5
113E-105+75N	.9	22	<.2	<.2	<5	115E-104+75N	1.7	74	<.2	<.2	<5
114E-94+25N	2.2	126	<.2	<.2	<5	115E-105+25N	1.4	83	<.2	<.2	<5

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FILE: L3\0792
DATE: 18/12/83
MATRIX: NO3/CL04

NOIN GEO-ENTERPRISES — WO NO: 83-0792 —

SAMPLE ID	AS PPM	HG PPB	SB PPM	AG PPM	AU PPB	SAMPLE ID	AS PPM	HG PPB	SB PPM	AG PPM	AU PPB
116E-100+25N	2.1	157	<.2	.2	<5	119E-96+25N	1.7	199	<.2	<.2	<5
116E-100+75N	2.1	71	<.2	.2	<5	119E-96+75N	1.0	102	<.2	<.2	<5
116E-101+25N	1.8	35	<.2	<.2	<5	119E-97+25N	1.6	36	<.2	<.2	<5
116E-101+75N	2.1	83	<.2	<.2	<5	119E-97+75N	2.1	133	<.2	<.2	<5
116E-102+25N	1.5	96	<.2	<.2	<5	119E-98+25N	3.0	214	<.2	<.2	<5
116E-102+75N	2.4	157	<.2	<.2	<5	119E-98+75N	1.6	128	<.2	<.2	<5
116E-103+25N	4.0	135	<.2	<.2	<5	119E-99+25N	1.3	138	<.2	.2	<5
116E-103+75N	1.5	78	<.2	<.2	<5	119E-99+75N	1.7	117	<.2	<.2	<5
116E-104+25N	1.2	70	<.2	<.2	<5	120E-100+25N	3.1	209	<.2	<.2	<5
116E-104+75N	1.4	161	<.2	<.2	<5	120E-100+75N	1.2	158	<.2	<.2	<5
117E-94+25N	3.2	44	<.2	<.2	<5	120E-101+25N	2.6	158	<.2	<.2	<5
117E-94+75N	3.2	35	<.2	<.2	<5	120E-101+75N	6.1	173	<.2	<.2	<5
117E-95+25N	1.6	61	<.2	<.2	<5	120E-103+25N	2.1	158	.2	<.2	<5
117E-95+75N	.4	44	<.2	<.2	<5	120E-103+75N	3.1	107	<.2	.2	<5
117E-96+25N	2.0	144	<.2	<.2	<5	120E-104+25N	19.4	128	.2	<.2	<5
117E-96+75N	.6	78	<.2	<.2	<5	120E-104+75N	.8	97	<.2	<.2	<5
117E-97+25N	1.5	144	<.2	<.2	<5	250E-00 N	2.1	163	<.2	<.2	<5
117E-97+75N	4.2	200	<.2	<.2	<5	250E-50 N	2.6	179	<.2	<.2	<5
117E-98+25N	1.3	161	<.2	<.2	<5	250E-100N	1.3	133	<.2	<.2	<5
117E-98+75N	1.6	139	<.2	<.2	<5	250E-150N	3.5	194	.2	.2	<5
117E-99+25N	2.6	313	<.2	<.2	<5	300E-25 S	3.8	184	<.2	<.2	<5
117E-99+75N	1.0	87	<.2	<.2	<5	300E-25 N	3.5	184	.2	<.2	<5
117E-100+25N	1.0	74	<.2	<.2	<5	300E-75 N	2.1	133	<.2	<.2	<5
117E-102+25N	1.6	104	<.2	<.2	<5	300E-125N	1.0	112	<.2	<.2	<5
117E-102+75N	1.6	135	<.2	<.2	<5	350E-25 S	34.4	163	.2	.2	<5
117E-103+25N	3.7	87	<.2	<.2	10	350E-25 N	4.4	102	<.2	.4	<5
117E-103+75N	2.8	139	<.2	.4	<5	350E-75 N	2.0	199	.2	<.2	<5
117E-104+25N	1.1	52	<.2	<.2	<5	350E-125N	2.5	306	.2	<.2	<5
117E-104+75N	2.6	48	<.2	<.2	<5	650E-25 S	4.1	184	<.2	.8	<5
117E-105+25N	.9	130	<.2	<.2	<5	650E-25 N	1.2	367	<.2	.2	<5
118E-100+25N	3.3	213	<.2	<.2	<5	650E-75 N	2.5	128	<.2	.4	<5
118E-100+75N	1.0	87	<.2	<.2	<5	650E-125N	3.1	117	<.2	.2	<5
118E-101+25N	1.7	122	<.2	<.2	<5	650E-175N	4.2	168	<.2	<.2	<5
118E-101+75N	2.8	148	<.2	.4	<5	700E-25 S	4.9	133	<.2	.2	<5
118E-102+25N	4.5	61	<.2	<.2	<5	700E-25 N	5.1	194	<.2	.2	<5
118E-102+75N	2.8	139	<.2	<.2	<5	700E-75 N	1.6	194	<.2	<.2	<5
118E-103+25N	3.4	133	<.2	<.2	<5	700E-125N	3.2	204	.2	<.2	<5
118E-103+75N	8.4	112	<.2	.2	<5	700E-175N	1.5	133	<.2	<.2	<5
118E-104+25N	25.8	71	<.2	.2	<5	700E-225N	3.8	168	<.2	<.2	<5
118E-104+75N	3.6	179	<.2	.2	<5	750E-25 N	2.9	138	<.2	<.2	<5
118E-105+25N	1.6	128	<.2	<.2	<5	750E-75 N	2.8	61	.2	<.2	<5
119E-94+25N	1.1	66	<.2	<.2	<5	750E-125N	6.5	199	<.2	<.2	<5
119E-94+75N	1.0	71	<.2	<.2	<5	750E-175N	6.8	194	.2	<.2	<5
119E-95+25N	2.8	148	<.2	<.2	<5	750E-225N	3.2	194	<.2	<.2	<5
119E-95+75N	6.1	184	<.2	<.2	<5						

APPENDIX II

ASSESSMENT SPECIFICATIONS

(1) Manitou Lakes Project

(2) Giant Mine Grid

(3) Gold Rock Extension and
Queen Alexandra Grid

(4) Glass Reef Grid

APPENDIX II TO ADDENDUM

ASSESSMENT SPECIFICATIONS

Field and office interpretation days, man days and assessment days for the geophysical, geological and geochemical surveys conducted from January - February 1984 on the Cochrane Manitou Lakes mineral properties.

MANITOU LAKES PROPERTY

NAME AND ADDRESS	TITLE	DATES WORKED 1984	TOTAL HOURS	TOTAL 8 HOUR DAYS	ASSESSMENT DAYS
G. Nolin 1461 Hunterbrook Road N.W. Calgary, Alberta	Geologist	Jan.9,10	24	3	21 REP, INTRP
		Feb.9,10	24	3	21 " "
		Feb.18-20	24	3	21 " "
		Feb.11-17	72	6	42 FIELD
T. Dundas 540, 707 - 7th Avenue S.W. Calgary, Alberta	Geophysicist	Jan.15-21	84	7	49 FIELD
		Feb. 6-11	72	6	42 REP, INTRP.
M. Fox 120 Hawkwood Hill N.W. Calgary, Alberta	Project Geologist	Jan. 8,9	24	3	21 REP, INTRP.
		Jan.14 - Feb. 20	456	57	399 FIELD
D. Bingham 1 Alfriston Crescent Shilo, Manitoba	Geophysicist	Feb. 2-17	192	24	168 FIELD
		Feb.18-20	36	5	35 REP, INTRP.
R. Nishimura 20 Wentworth Crescent St. Albert, Alberta	Junior Geophysicist	Jan.14-Feb. 17	420	53	371 FIELD
		Feb.18-20	36	5	35 REP, INTRP.
A. McLeod General Delivery Stanley Mission, Sask.	Sr. Technician	Jan.14-Feb. 17	420	53	371 FIELD
W. McLeod General Delivery Stanley Mission, Sask.	Sr. Technician	Jan.14-Feb. 17	420	53	371 FIELD
M. Hodgson 718, 1833 Pembina Way Winnipeg, Manitoba	Senior Geo-Technician	Feb.14-17	48	6	35 FIELD
R. Vincent Island View Cabins Wabigoon Lake, Ontario	Technician	Jan.14-Feb. 6	264	33	231 FIELD
Marion Island View Cabins Wabigoon Lake, Ontario	Technician	Jan.14-Feb. 6	264	33	231 FIELD

J. Celik 918 - 14th Avenue S.W. Calgary, Alberta	Technician	Jan. 7-9 Jan.14-30	36 204	6 26	42 179	REP, INTRP FIELD
Rhonda Gussek 15 Willowdale Court Oxdrift, Ontario	Assistant Technician	Feb.11-20	120	15	105	FIELD
Peter Guy General Delivery Dryden, Ontario	Assistant Technician	Feb. 4-20	204	26	179	FIELD
		TOTAL	3444	426	2969	

APPENDIX II TO ADDENDUM

ASSESSMENT SPECIFICATIONS

Field and office interpretation days, man days and assessment days for the geophysical, geological and geochemical surveys conducted from January - February 1984 on the Cochrane Manitou Lakes mineral properties.

GOLD ROCK EXTENSION

NAME AND ADDRESS	TITLE	DATES WORKED 1984	TOTAL HOURS	TOTAL 8 HOUR DAYS	ASSESSMENT DAYS	
G. Nolin 1461 Hunterbrook Road N.W. Calgary, Alberta	Geologist	Feb.13 Jan.10	12 12	2 2	14 14	FIELD REP, INTERP
T. Dundas 540, 707 - 7th Avenue S.W. Calgary, Alberta	Geophysicist	Jan.16,17	24	3	21	FIELD
M. Fox [illegible]20 Hawkwood Hill N.W. [illegible]lgary, Alberta	Project Geologist	Jan.14-21	96	12	84	FIELD
D. Bingham 1 Alfriston Crescent Shilo, Manitoba	Geophysicist	Feb. 3, Feb.19	12 6	2 1	14 7	FIELD REP. INTRP
R. Nishimura 20 Wentworth Crescent St. Albert, Alberta	Junior Geophysicist	Jan. 3,16,17, 22,24,25, 26,28, Feb. 18	96 6	12 1	84 7	FIELD REP. INTERP
A. McLeod General Delivery Stanley Mission, Sask.	Sr. Technician	Jan.12,13,14, 20,29 Feb. 3	72	9	63	FIELD
W. McLeod General Delivery Stanley Mission, Sask.	Sr. Technician	Jan.12,13,14, 20,29 Feb. 3	72	9	63	FIELD
M. Hodgson 718, 1833 Pembina Way Winnipeg, Manitoba	Senior Geo-Technician	Feb. 15	12	2	14	FIELD
		TOTAL	420	55	385	

APPENDIX II TO ADDENDUM

ASSESSMENT SPECIFICATIONS

Field and office interpretation days, man days and assessment days for the geophysical, geological and geochemical surveys conducted from January - February 1984 on the Cochrane Manitou Lakes mineral properties.

GIANT PROPERTY

NAME AND ADDRESS	TITLE	DATES WORKED 1984	TOTAL HOURS	TOTAL 8 HOUR DAYS	ASSESSMENT DAYS	
G. Nolin 1461 Hunterbrook Road N.W. Calgary, Alberta	Geologist	Feb.12 Feb. 9	12 12	2 2	14 14	FIELD REP, INTERP
T. Dundas 540, 707 - 7th Avenue S.W. Calgary, Alberta	Geophysicist	Jan.15 Feb.6,7	12 24	2 3	14 21	FIELD REP, INTERP
M. Fox [illegible]0 Hawkwood Hill N.W. [illegible]lgary, Alberta	Project Geologist	Jan.30-Feb.1,2,3	48	6	42	FIELD
D. Bingham 1 Alfriston Crescent Shilo, Manitoba	Geophysicist	Feb.18	6	1	7	REP, INTERP
R. Nishimura 20 Wentworth Crescent St. Albert, Alberta	Junior Geophysicist	Jan.12-15,18 Feb.19	60 6	8 1	56 7	FIELD REP, INTERP
A. McLeod General Delivery Stanley Mission, Sask.	Sr. Technician	Jan.15,16	24	3	21	FIELD
W. McLeod General Delivery Stanley Mission, Sask.	Sr. Technician	Jan.15,16	24	3	21	FIELD
R. Vincent Island View Cabins Wabigoon Lake, Ontario	Technician	Jan.19,21,24	36	5	35	FIELD
[illegible] Marion Island View Cabins Wabigoon Lake, Ontario	Technician	Jan.19,21,24	36	5	35	FIELD
		TOTAL	300	41	287	

APPENDIX II TO ADDENDUM

ASSESSMENT SPECIFICATIONS

Field and office interpretation days, man days and assessment days for the geophysical, geological and geochemical surveys conducted from January - February 1984 on the Cochrane Manitou Lakes mineral properties.

LEUILLER PROPERTY

NAME AND ADDRESS	TITLE	DATES WORKED 1984	TOTAL HOURS	TOTAL 8 HOUR DAYS	ASSESSMENT DAYS	
G. Nolin 1461 Hunterbrook Road N.W. Calgary, Alberta	Geologist	Jan. 9	8	1	7	REP, INTRP
		Feb.11	12	2	14	FIELD
T. Dundas 540, 707 - 7th Avenue S.W. Calgary, Alberta	Geophysicist	Jan.19,20,21	36	5	35	FIELD
M. Fox [illegible]0 Hawkwood Hill N.W. [illegible]lgary, Alberta	Project Geologist	Jan.22-29	96	12	84	FIELD
D. Bingham 1 Alfriston Crescent Shilo, Manitoba	Geophysicist	Feb.19	6	1	7	REP, INTRP
R. Nishimura 20 Wentworth Crescent St. Albert, Alberta	Junior Geophysicist	Jan.19,20,21, 23,27	60	8	56	FIELD
		Feb.18	6	1	7	REP, INTRP
A. McLeod General Delivery Stanley Mission, Sask.	Sr. Technician	Jan.21,22 27,28	42	5	35	FIELD
W. McLeod General Delivery Stanley Mission, Sask.	Sr. Technician	Jan.21,22 27,28	42	5	35	FIELD
M. Hodgson 718, 1833 Pembina Way Winnipeg, Manitoba	Senior Geo-Technician	Feb.14	12	2	14	FIELD
		TOTAL	320	22	294	

APPENDIX II TO ADDENDUM

ASSESSMENT SPECIFICATIONS

Field and office interpretation days, man days and assessment days for the geophysical, geological and geochemical surveys conducted from January - February 1984 on the Cochrane Manitou Lakes mineral properties.

QUEEN ALEXANDRA PROPERTY

NAME AND ADDRESS	TITLE	DATES WORKED 1984	TOTAL HOURS	TOTAL 8 HOUR DAYS	ASSESSMENT DAYS	
G. Nolin 1461 Hunterbrook Road N.W. Calgary, Alberta	Geologist	Feb.14-15 Feb. 20	24 1	3 2	21 14	FIELD REP, INTERP
T. Dundas 540, 707 - 7th Avenue S.W. Calgary, Alberta	Geophysicist	Jan. 20	6	1	7	FIELD
M. Fox 120 Hawkwood Hill N.W. Calgary, Alberta	Project Geologist	Feb.15-20	72	9	63	FIELD
D. Bingham 1 Alfriston Crescent Shilo, Manitoba	Geophysicist	Feb. 4 Feb.18	12 6	2 1	14 7	FIELD REP, INTERP
R. Nishimura 20 Wentworth Crescent St. Albert, Alberta	Junior Geophysicist	Jan.29-31 Feb.1,2,4 Feb. 19	36 36 6	5 5 1	35 35 7	FIELD " REP, INTERP
A. McLeod General Delivery Stanley Mission, Sask.	Sr. Technician	Jan.17,18,19 23,24,25	72	9	63	FIELD
W. McLeod General Delivery Stanley Mission, Sask.	Sr. Technician	Jan.17,18,19 23,24,25	72	9	63	FIELD
M. Hodgson 718, 1833 Pembina Way Winnipeg, Manitoba	Senior Geo-Technician	Feb.17	12	2	14	FIELD
R. Vincent Island View Cabins Wabigoon Lake, Ontario	Technician	Jan.17,18,20	36	5	35	FIELD
Marion Island View Cabins Wabigoon Lake, Ontario	Technician	Jan.17,18,20	36	5	35	FIELD
		TOTAL	427	59	413	

APPENDIX II TO ADDENDUM

ASSESSMENT SPECIFICATIONS

Field and office interpretation days, man days and assessment days for the geophysical, geological and geochemical surveys conducted from January - February 1984 on the Cochrane Manitou Lakes mineral properties.

GLASS REEF PROPERTY

NAME AND ADDRESS	TITLE	DATES WORKED 1984	TOTAL HOURS	TOTAL 8 HOUR DAYS	ASSESSMENT DAYS	
G. Nolin 1461 Hunterbrook Road N.W. Calgary, Alberta	Geologist	Feb.16,17 Feb.10,18,19	24 36	3 5	21 35	FIELD REP, INTRP.
T. Dundas 540, 707 - 7th Avenue S.W. Calgary, Alberta	Geophysicist	Feb. 9,10,11	24	3	21	REP, INTRP
M. Fox [illegible]0 Hawkwood Hill N.W. [illegible]lgary, Alberta	Project Geologist	Feb. 4-14	132	17	116	FIELD
D. Bingham 1 Alfriston Crescent Shilo, Manitoba	Geophysicist	Feb. 5-18 Feb. 20	168 12	21 2	147 14	FIELD REP, INTRP.
R. Nishimura 20 Wentworth Crescent St. Albert, Alberta	Junior Geophysicist	Feb. 5-18 Feb.20	168 12	21 2	147 14	FIELD REP, INTRP
A. McLeod General Delivery Stanley Mission, Sask.	Sr. Technician	Jan.30 - Feb.18	288	36	252	FIELD
W. McLeod General Delivery Stanley Mission, Sask.	Sr. Technician	Jan.30 - Feb.18	288	36	252	FIELD
M. Hodgson 718, 1833 Pembina Way Winnipeg, Manitoba	Senior Geo-Technician	Feb.16	12	2	14	FIELD
		TOTAL	1164	148	1033	

EXPLORATION LOG SHEET

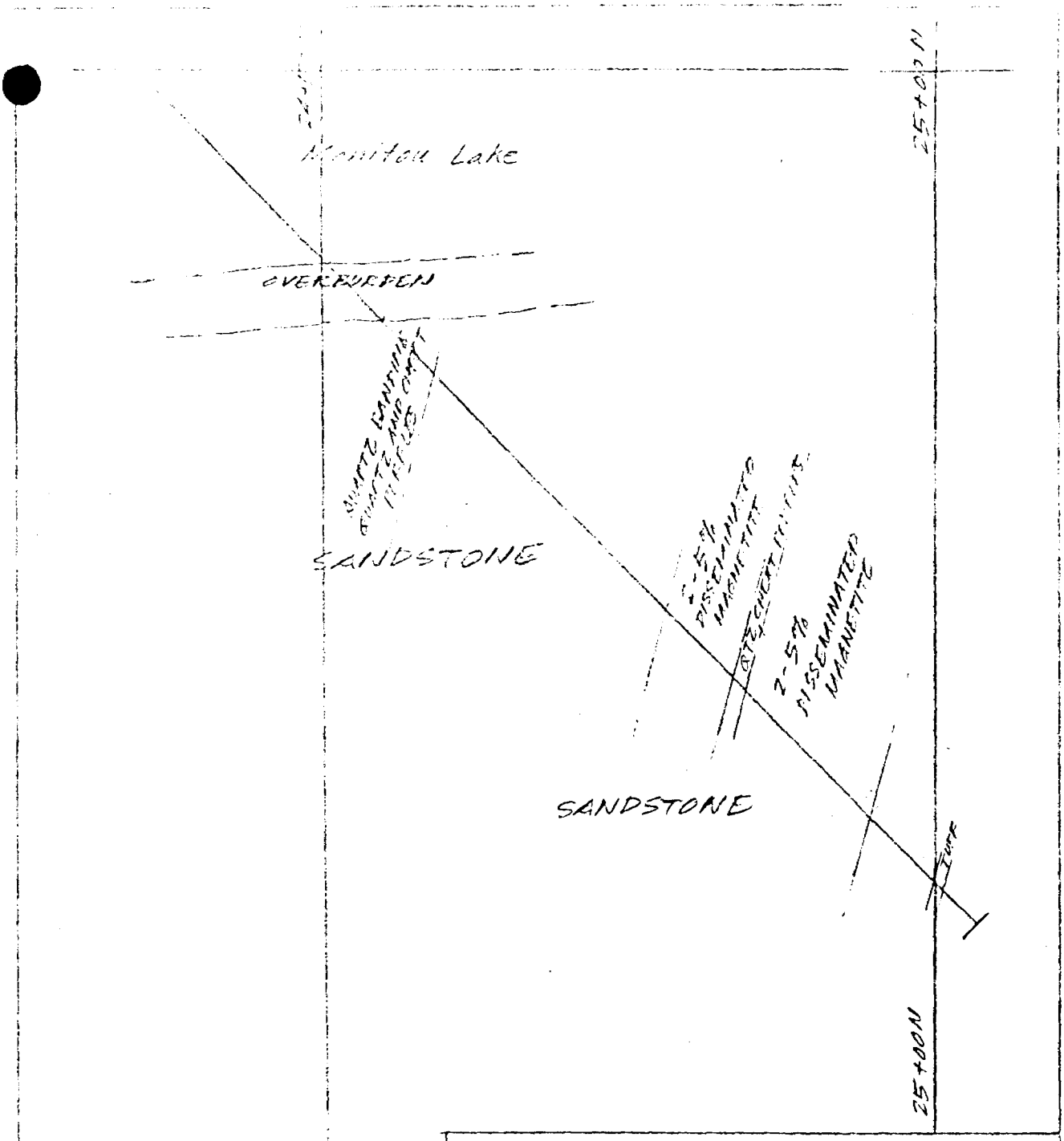
PROPERTY Glass Reef, Lower Manitou Lake CLAIM NO. DAY STARTED FEB 21/84 DAY COMPL 27/84

LOGGED BY M. Fox BEARING 330° AZ ANGLE -45° NTS 52 F - 7 HOLE NO. GR - 84 - 2

TOTAL DEPTH 317' PAGE NO. 1 of 1

FOOTAGE FROM	TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	%	ASSAY DATA SAMPLE	WIDTH	OZ/TON AU
0	92.0	Overburden, ice, water 0-2.0 : ice, 2.0 -72: Water					
92.0	317.0	Sandstone light to medium grey to greyish green and greenish grey very fine grained to medium grained sandstone; bedding is 60 - 65° to DDH axis. individual beds are massive and exhibit upwards fining from medium grained sand sized particles to very fine grained sand and coarse grained silt sized particles coarser grained sections are more leucocratic tending towards a light grey or greenish grey color and consist of 20 - 50 % Quartz grains (colorless) in a silty matrix, fine grained sections have less visible quartz and are darker colored 0.25% very fine grained to fine grained pyrite disseminated through section. 92 - 112: abundant quartz banding plus black chert and white quartz pebbles 225 - 230: similar to 92 - 112 245 - 246: very light grey sandy band with 5% disseminated pyrite 200 - 277: very fine - grained black Magnetite (?) constitutes 2.5% of rock 301 - 314: banded tuffaceous zone: Flattened quartz lapilli in a greenish to buff sericite-chlorite epidote matrix	Pyrite Pyrite magnetites to	0.25 to 0.5 5.0 2.0 5.0			

END OF HOLE.



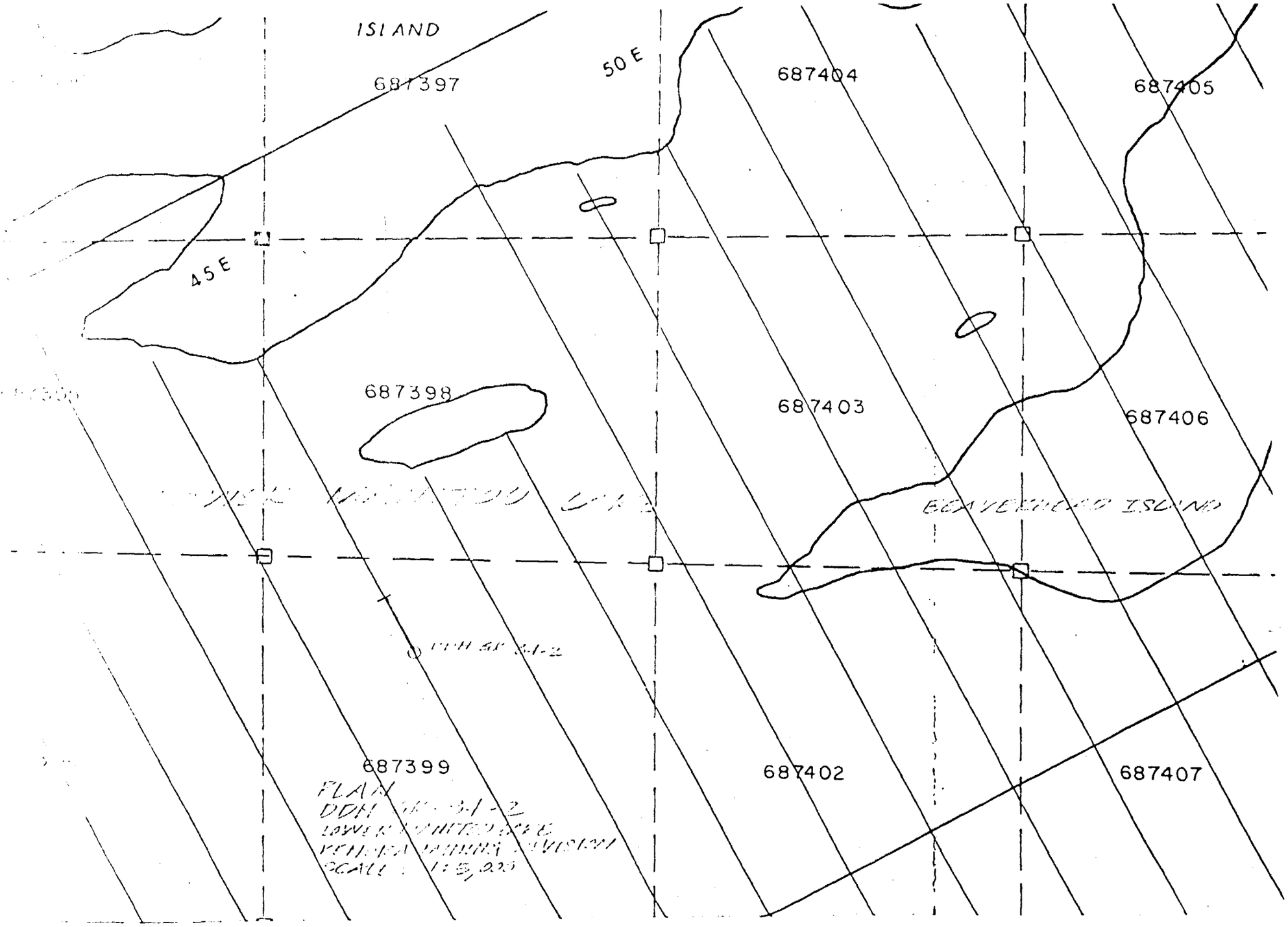
COCHRANE OIL AND GAS LIMITED

SECTION 45+00 E
DDH GR-84-2

GLASS REEF CLAIM GROUP
LOWER MANITOU LAKE
KENORA MINING DIVISION

MARCH, 1984
SCALE: 1:500 (1cm : 5m)

10 0 10 20 30 m


ISLAND
687397
50 E
687404
687405
45 E
687398
687403
687406
BEAVERHEAD ISLAND
687399
687402
687407

EXPLORATION LOG SHEET

PROPERTY Lass Reef, Lower Manitou Lake CLAIM NO. DAY STARTED FEB 15/84 DAY COMPL FEB 21/84

LOGGED BY M. Fox BEARING 320°AZ ANGLE 45° NTS 52 F 7 HOLE NO. GR 84 1

TOTAL DEPTH 501' PAGE NO. 1 of 4

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ_{AU}/TON
0	22.5	Overburden					
22.5	61.0	Dacite Medium to dark green fine grained Dacite: 10-15% Fine Grained White Quartz Crystal Fragments in a Dense Green groundmass. -0.25% very fine grained disseminated pyrite.	Pyrite	0.25			
61.0	69.0	QUARTZ - CHLORITE SCHIST Sheared Dacite (?) Foliation at 50° to DDH AKIS					
69.0	80.5	DACITE Similar to 22.5 - 61.0 76.0 TTO Chlorite Schist (shear)					
80.5	154.0	RHYODACITE Light greyish green very fine grained Rhyodacite. Abundant (25-30%) Fine grained white to colorless quartz crystal fragments with indistinct grain. Boundaries; approximately 5% chloritized Hornblende microphenocrysts 116 - 117.0: Shear: Quartz-chlorite schist similar to 61.0-69.0, A few coarse grained euhedral pyrite cubes along a narrow (0.05") Quartz filled Fracture -125.0 -154.0 Finer Grained, Somewhat Darker green. -141.0 - 142.0: Chill Banding at 55° to DDH Axis.					

EXPLORATION LOG SHEET

PROPERTY [redacted]lass Reef, Lower Manitou Lake CLAIM NO. [redacted] DAY STARTED DAY [redacted]MPL

LOGGED BY M. Fox BEARING 320°az ANGLE 45° NTS 52-F-7 HOLE NO. Gr-84-1

TOTAL DEPTH 501' PAGE NO. 2 of 4

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON AU
154.0	166.5	RHYODACITIC TUFF Light to medium greyish green very fine grained Thinly (0.05 - 0.5"). Banded Tuff; Banding is 50° - 55° to DDH Axis.					
166.5	176.5	QUARTZ BIOTITE SCHIST coarse grained, black, elongated mafic Crystals in a light grey groundmass of quartz (sheared tuff) -0.5 - 1.0% Extremely fine grained. pyrite in disseminated grains and blebs interstitial to mafics. foliation approx 60° to DDH Axis					
176.5	186.5	RHYODACITIC TUFF Similar to 154.0 - 165.5					
186.5	204.0	DACITE Similar to 22.5 -61 196.0 199.0; weak quartz veining, occasional specks of pyrite. 201.0 - 204.0: weak quartz veining, occasional specks of pyrite.					
204.0	310.0	ANDESITE - BASALT 204.0 226.0: abundant chloritized hornblende microphenocrysts and crystal fragments, plus leucocratic feldspar microphenocrysts in a dense, medium green groundmass 226.0 - 234.5 basalt: dark green to greenish black, fine grained basalt; 0.25% pyrite. 234.5 - 235.5 Dacitic Tuff; fine grained medium green, some quartz 235.5 - 246.0 basalt, similar to 226 - 234.5 246.0 - 310.0 andesite, similar to 204 - 226, Fine grained varying through to indistinctly porphtritic texture.					

EXPLORATION LOG SHEET

PROPERTY Glass Reef, Lower Manitou Lake CLAIM NO. DAY STARTED DAY COMPL

LOGGED BY M. Fox BEARING 320°az ANGLE -45° NTS 52-F-7 HOLE NO. GR-84-1

TOTAL DEPTH 501' PAGE NO. 3 of 4

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON Au
310.0	334.0	SERICITE SCHIST Light grey thinly banded. 4 - 10 % Fine grained to medium grained disseminated euhedral pyrite light grey, narrow (1") quartz veins at 319.5, 321.25, 322.25 (3") foliation 60° - 65° to DDH Axis. 334 - 336 gradational contact with andesite.	Pyrite	4.0 10.0			
336.0	401.0	ANDESITE Similar to 204 - 226 and 246 - 310 some quartz - epidote banding at 50° to DDH axis. 351 - 401: Porphyritic section with Epidotized feldspar phenocrysts up to 0.3" in diameter in a dark green fine grained groundmass.					
401.0	429.0	ANDESITIC TUFF Dark to medium greyish - green, fine grained tuff, Banding at 55 - 60° to DDH					
429.0	501.0	ANDESITE 429 - 463: porphyritic, similar to 351 - 401 463 - 475: hornblende Microphenocrysts.	Pyrite	0.5			

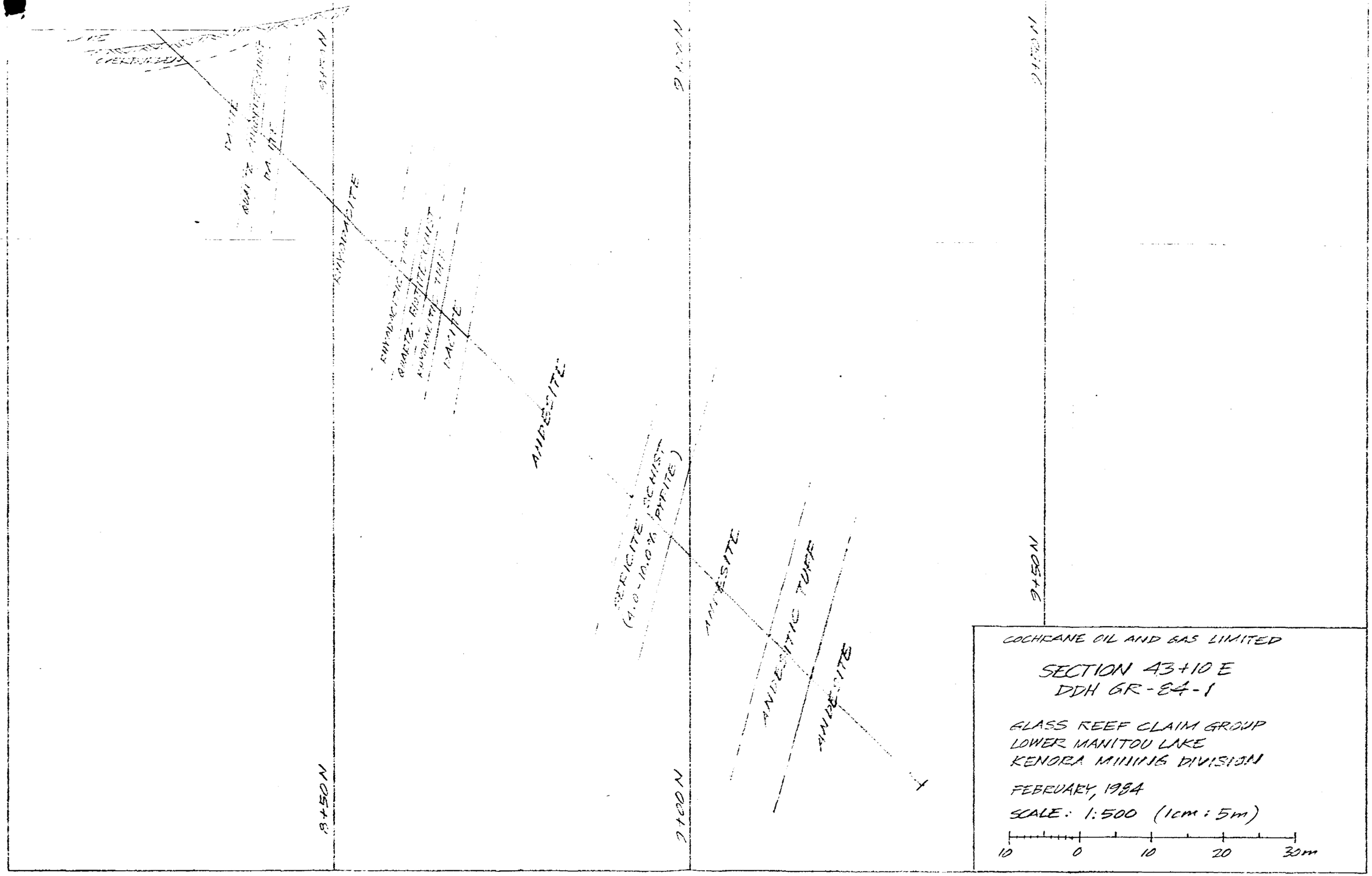
EXPLORATION LOG SHEET

PROPERTY Glass [redacted]ef, lower manitou lake CLAIM NO. [redacted] DAY STARTED DAY COMPL[redacted]

LOGGED BY M. Fox BEARING 320°AZ ANGLE -45° NTS 52-F-7 HOLE NO. GR-84-1

TOTAL DEPTH 501' PAGE NO. 4 of 4

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON Au
429.0	501.0	465.5-467: Quartz - epidote veining 475 - 484.5: Porphyritic, similar to 351 - 401 with feldspar microphenocrysts 484.5 - 501: similar to 463 - 475 with Hornblende microphenocrysts.					
(continued from p.3)							
		END OF HOLE.					



COCHRANE OIL AND GAS LIMITED

SECTION 43+10 E
DDH GR-84-1

GLASS REEF CLAIM GROUP
LOWER MANITOU LAKE
KENORA MINING DIVISION

FEBRUARY, 1984

SCALE: 1:500 (1cm : 5m)

10 0 10 20 30m

LOWER MANITOU LAKE
3400
3500
3700
3800
3900
4000
4100
4200
4300
A
B
687349
687347
(2800)
(2900)
(3000)
(3100)
(3200)
(3300)
(3400)
(3500)
(3600)
(3700)
(3800)
(3900)
DDH SK-34-1
687350
687345
687346
687341
PLAN
DD.H SK-34-1
LOWER MANITOU LAKE AREA
FLORIDA MINING DIVISION
SCALE: 1"=5,000

EXPLORATION LOG SHEET

PROPERTY Glass Reef, Lower Hamilton Lake CLAIM NO. DAY STARTED MAR 3/84 DATE COMPL. MAR 5/84

LOGGED BY M. Fox BEARING 150° ANGLE 45° NTS 52 F 7 HOLE NO. BB 84 1

TOTAL DEPTH 108' PAGE NO. 1 of 2

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON Au
0	7.5	Overburden					
7.5	31.0	Sericite Schist Thinly banded very fine grained dark grey sericite schist probably originally a siltstone 16% graphitic partings Foliation at 25° to DDH axis. 0.5 - 1.5% Fine grained disseminated pyrite along seams and white quartz stringers parallel to foliation					
31.0	45.0	Quartz - Sericite Schist Thinly banded light to medium grey and greenish grey schist. Foliation at 30° to DDH axis Mode: sand sized quartz grains 50 - 60% sericite bands 10 - 20% quartz pebbles 10% Matrix 20%					
45.0	55.0	Banded and Disseminated Sulphide zone 5% to 15% banded and Disseminated pyrite in quartz sericite schist (see description above) pyrite occurs as bands streaks and lenses of discrete disseminated grains (0.01 - 0.1" in diameter). also as coarse grained euhedral crystals and nodules of fine grained pyrite 0.2" to 0.5" in diameter all usually associated with white quartz augen-like lenses and narrow stringers.					

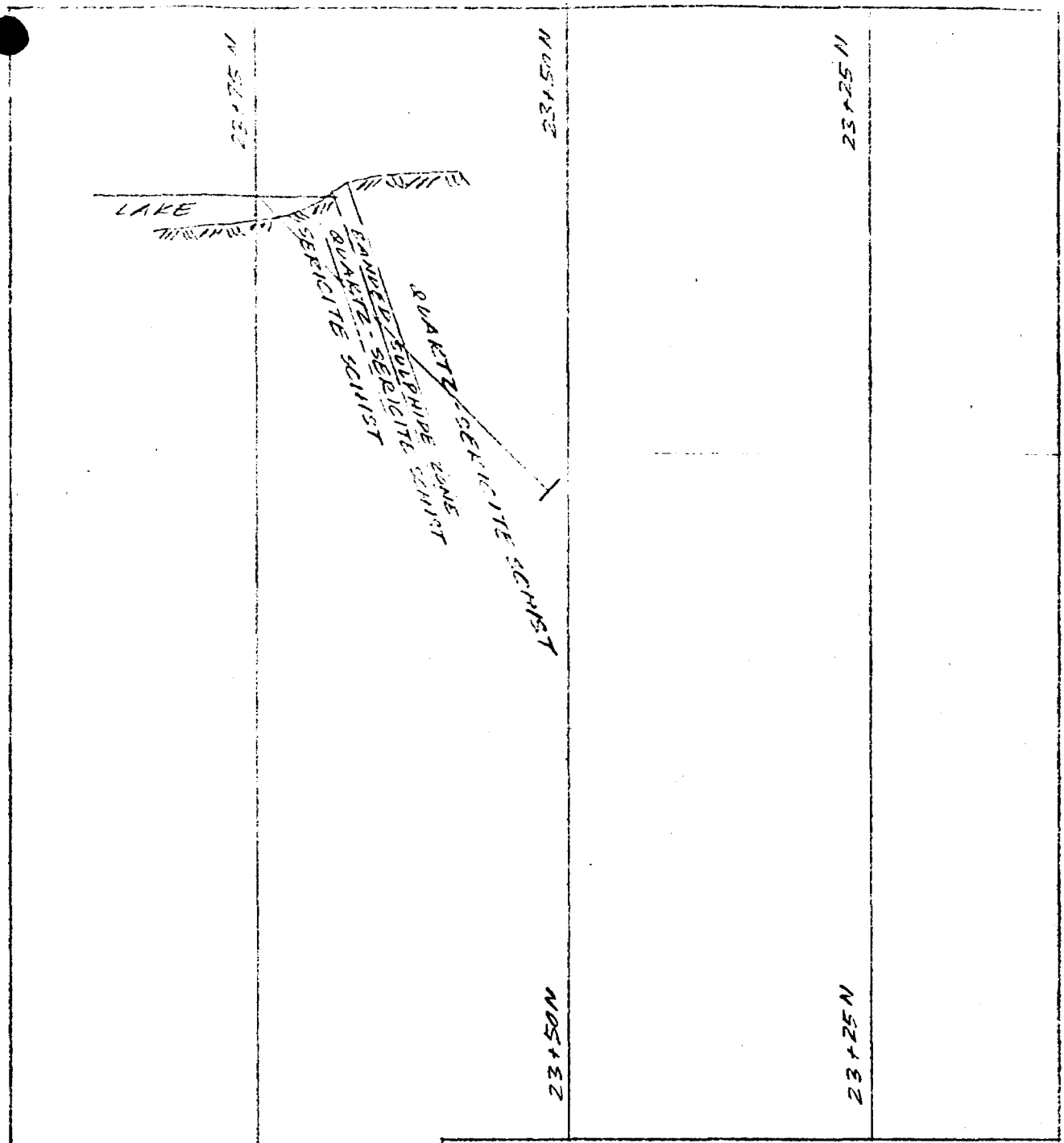
EXPLORATION LOG SHEET

PROPERTY Glass reef, Lower Manitou Lake CLAIM NO. DAY STARTED DAY COMPL.

LOGGED BY M. Fox BEARING 150°az ANGLE -45° NTS 52-F-7 HOLE NO. BB - 84 - 1

TOTAL DEPTH 108' PAGE NO. 2 of 2

FOOTAGE FROM	TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	%	ASSAY DATA SAMPLE	WIDTH	OZ/TON Au
55.0	108.0	Quartz - Sericite Schist similar to 31.0 - 45.0 55.0 - 63.0, 2.3% Fine Grained Disseminated Pyrite in infrequent bands and streaks 63.0 - 66.0 light grey to buff band of sand; foliation at 30° to DDH axis 31.0 to 108.0: Quartz pebbles increasing in size and abundance down hole.					
COMMENTS:		Hole lost at 108' Due to broken bit in hole.					



COCHRANE OIL AND GAS LIMITED

SECTION 52+50E
DDH BB-84-1

GLASS REEF CLAIM GROUP
LOWER MANITOU LAKE
KENORA MINING DIVISION

MARCH, 1984
SCALE: 1:500 (1cm : 5m)

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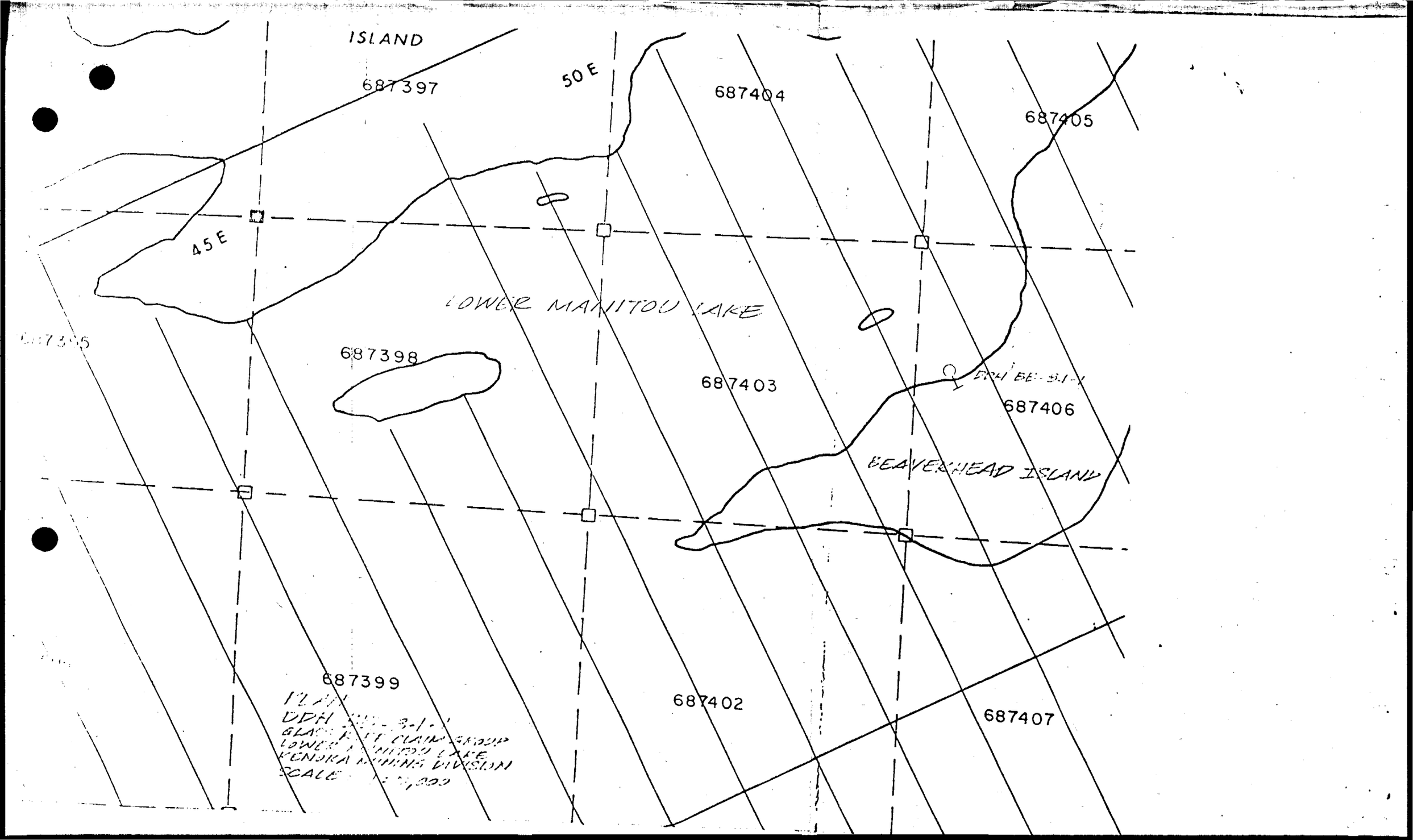

ISLAND
687397
50E
687404
687405
45E
LOWER MANITOU LAKE
687398
687403
687406
BEAVERHEAD ISLAND
687399
687402
687407

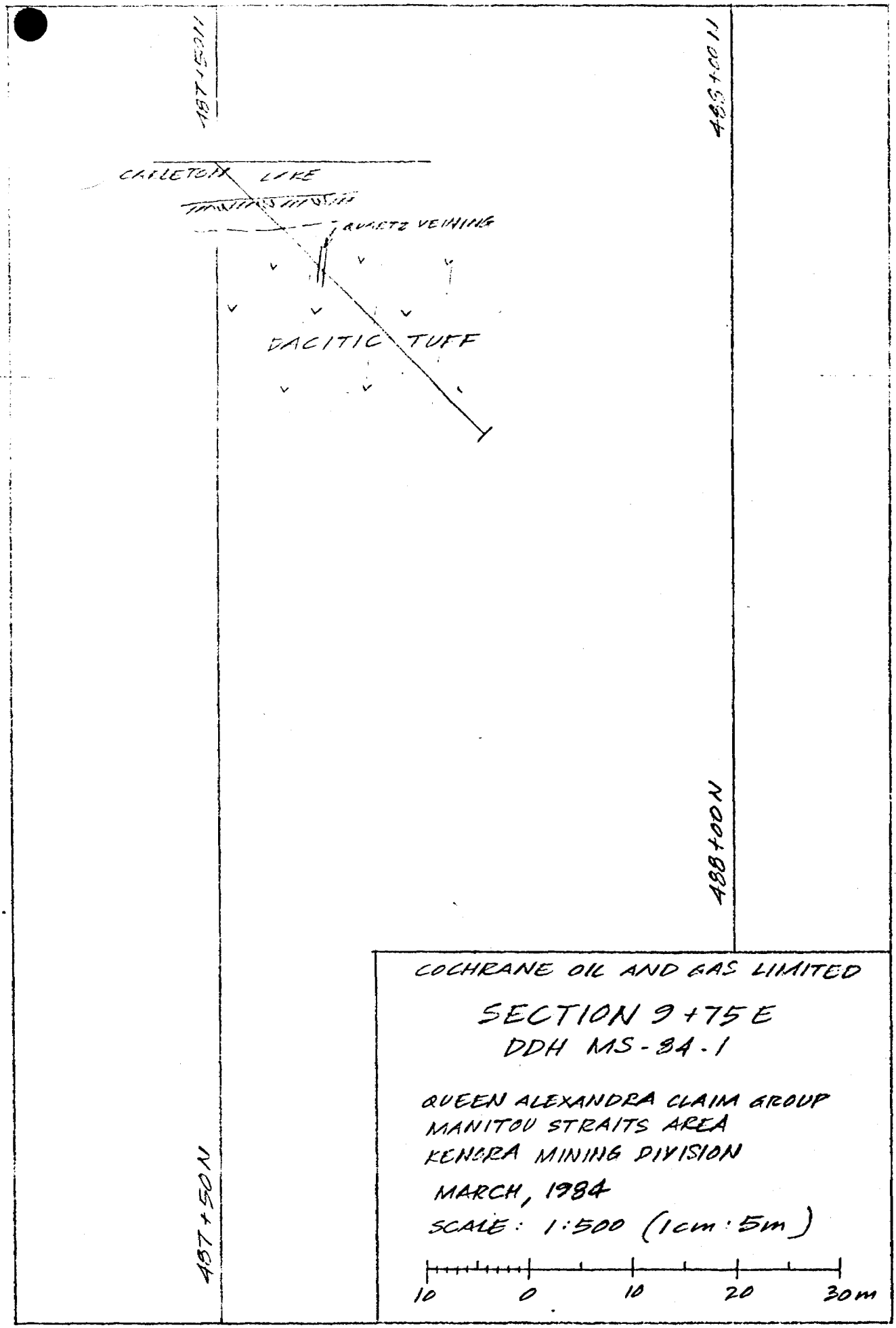
EXPLORATION LOG SHEET

PROPERTY Queen Alexandra, Manitou straits area. CLAIM NO. [redacted] DAY STARTED FEB 29/84 DAY COMPLETED [illegible]

LOGGED BY M. Fox BEARING ANGLE NTS HOLE NO. MS - 84 - 1

TOTAL DEPTH 121' PAGE NO. 1 of 1

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON Au
0	30.0	Overburden, ice, water 0.2.0 ice, 2.0 - 14.0 Water					
30.0	121.0	Dacitic Tuff Medium green, fine grained Dacitic Tuff with 10 - 15% Quartz and Feldspar crystal fragments occuring as elongated white clasts 0.05" - 0.2" long in a dense green matrix. Foliation is approximately 40° to DDH axis. 0.5 - 1.0% fine - grained disseminated pyrite 47.0 - 48.5 approx 50% by volume white and rose colored quartz veining; widest veinlets are 2" and 3" 35 - 37: a few quartz stringers.	Pyrite	0.5 to 1.0			
END OF HOLE.							



COCHRANE OIL AND GAS LIMITED

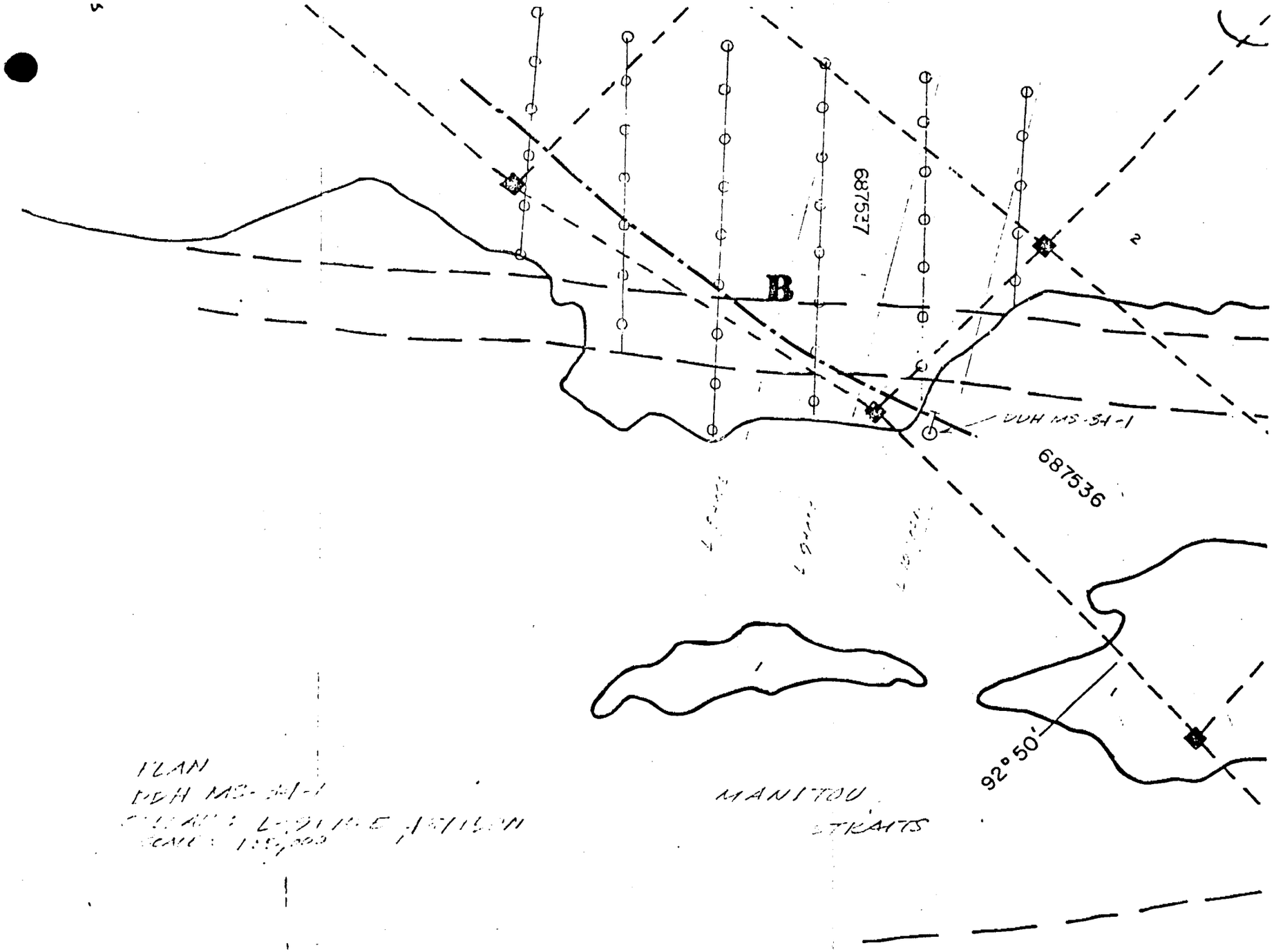
SECTION 9+75 E
DDH MS-84-1

QUEEN ALEXANDRA CLAIM GROUP
MANITOU STRAITS AREA
KENORA MINING DIVISION

MARCH, 1984

SCALE: 1:500 (1cm:5m)

10 0 10 20 30m


B
687537
687536
VUH MS-84-1
92°50'
MANITOU
STRAITS

EXPLORATION LOG SHEET

PROPERTY Queen Alexandra Grip, CLAIM NO. DAY STARTED FEB 15/84 DAY COMPL 17

LOGGED BY Carleton Lake N. Fox BEARING 330° Az ANGLE -45% NTS 52 F 7 HOLE NO. CL 84 1

TOTAL DEPTH 150' PAGE NO. 1 of 1

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON Au
0	26	Overburden					
26.0	150.0	Quartz Monzonite Porphyry Pink, porphyritic, coarse grained quartz Monzonite. zoned, pink, sometimes evhedral orthoclase (microcline) phenocrysts (0.2 - 0.7" long) in a matrix of coarse to medium grained light grey plagioclase, clear quartz, and black hornblende crystals. orthoclase phenocrysts commonly exhibit light grey to white cores. and indistinct, blurred grain boundaries as a consequence of later alteration (albitization) hornblende grains are partially altered to epidote and pyrite mode: orthoclase (microcline) 60% Plagioclase 20% Hornblende 10% Quartz 7% Epidote 2.5% Pyrite 0.5% the entire section exhibits weak propylitic alteration characterized by an albite epidote pyrite assemblage, occasional narrow quartz or aplite stringers (up to 1" thick) with a little pyrite intersect the DDH axis at 45°					
END OF HOLE.							

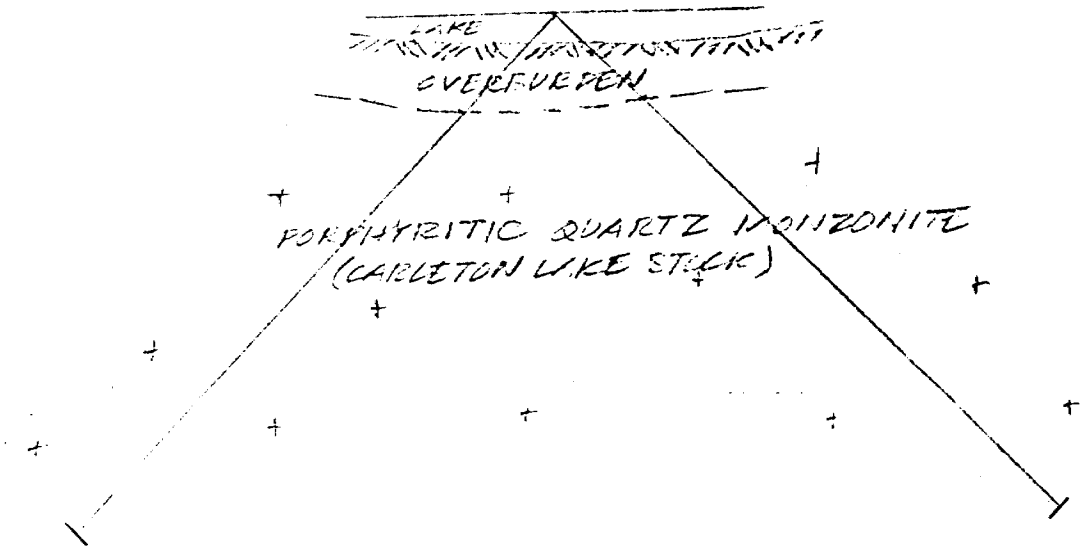
EXPLORATION LOG SHEET

PROPERTY Helen Alexandra Grip, Carleton Lake CLAIM NO. DAY STARTED FEB 17/84 DATE COMPL. FEB 18/84

LOGGED BY R. Fox BEARING 150° ANGLE -45° NTS 52 -F-7 HOLE NO. CL 84 2

TOTAL DEPTH 150.5 PAGE NO. 1 of 1

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON Au
0	23.5	Overburden					
23.5	150.5	Quartz Monzonite Porphyry pink porphyritic, coarse grained quartz monzonite identical to intersection in DDH CL -84-1 for detailed description see log for DDH Cl 84 - 1					



COLLAR: L-8+00E, 497+75N

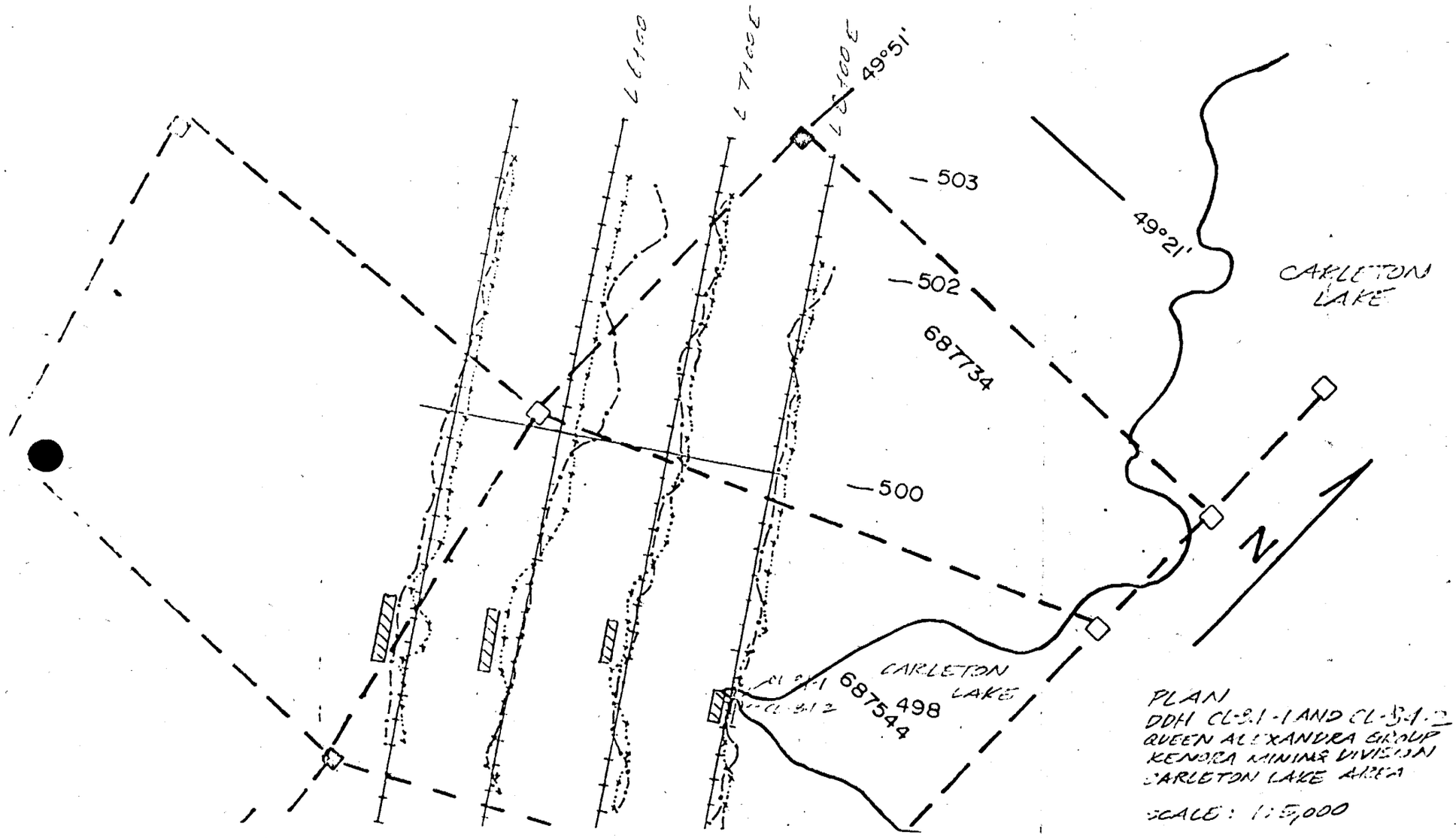
COCHRANE OIL AND GAS LIMITED

SECTION 8+00 E
DDH CL-84-1 AND CL-84-2

QUEEN ALEXANDRA CLAIM GROUP
CARLETON LAKE
KENORA MINING DIVISION
FEBRUARY, 1984

SCALE: 1:500 (1cm : 5m)

10 0 10 20 30m



PLAN
DDH CL-81-1 AND CL-81-2
QUEEN ALEXANDRA GROUP
KENORA MINING DIVISION
CARLETON LAKE AREA

SCALE: 1:5,000

EXPLORAT LOG SHEET

PROPERTY MANITOU LAKES, Ontario CLAIM NO. DAY STARTED JAN 22/81 DAY COMPL. JAN 25/81

LOGGED BY M. Fox BEARING 140° AZ ANGLE -45° NTS 52-F-7 HOLE NO. QA-84-1

TOTAL DEPTH 161.0 PAGE NO. 1 of 1

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON AU
0.0	13.0	Overburden					
13.0	26.5	Felsic crystal tuff - light to medium grey thinly laminated, fine-grained tuff, subordinate graphitic banding with transitions in and out of relatively more graphitic sections - minor pyrite occurs uniformly through the section as fine grained disseminations and dustings and course-grained euhedral crystals, usually along graphitic partings.	pyrite	0.5 to 1.0			
26.5	98.0	Argillite (Graphitic schist) - dark grey to black thinly laminated bands (0.1" - 1.0") of graphite and silty, carbonaceous argillite - well foliated with schistosity intersecting DDH Axis at 45° - 0.5 - 4.0% pyrite as fine-grained disseminated grains & course-grained eupedral cubes along graphitic partings	pyrite	0.5 to 4.0			
98.0	142.0	Felsic crystal tuff - similar to 13.0 - 26.5, subordinate graphitic banding - 132 - 136.5: shear zone; strongly sheared drag-folded sericitic graphitic schist	pyrite	0.5 to 1.0			
142.0	161.0	Argillite (Graphitic Schist) - similar to 26.5 - 98.0 - subordinate leucocratic banding	pyrite	1.0 to 3.0			

EXPLORATI LOG SHEET

PROPERTY MANITOU LAKES, Ontario CLAIM NO. DAY STARTED JAN 26/84 DAY COMPL. JAN 28/84

LOGGED BY M. FOX BEARING 140° AZ ANGLE -45° NTS 52-F-7 HOLE NO. QA-84-2

TOTAL DEPTH 150' PAGE NO. 1 of 3

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON AU
0.0'	9.0'	Overburden					
9.0'	37.0'	Argillite (Graphitic schist) - dark grey to black finely laminated (0.1" to 1" + bands) carbonaceous silty argillite metamorphosed to graphitic schist with planes of schistosity inter secting DDH Axis at a 45° ± angle (indicating near vertical dip) - fine to coarse - grained (0.05" to 0.25") euhedral crystals of pyrite occur scattered uniformly through the section, oriented parallel to compositional layer ing (which coincides with the metamorphic foliation); hairline seams and lenses of pyrite also occur throughout the section, parallel to foliation - total pyrite: 0.5% to 2%	pyrite	0.5 to 2.0	9-12 12-15 15-18 18-21 21-24 24-27 27-30 30-33 33-37		
37.0	64.0	Felsic crystal tuff - light to medium grey thinly laminated fine-grained crystal tuff, darker banding (0.1" thick) gradually increases upsection (?) to 64.0' where there is a gradational transition into a dark grey silty argillite with subordinate lighter colored banding - minor pyrite occurs scattered fairly uniformly through the section both as very fine-grained and coarse grained euhedral cubes along foliation planes and as fine dustings on hairline fractures	pyrite	0.5 to 1.0			

EXPLORATION LOG SHEET

PROPERTY MANITOU LAKES, Ontario CLAIM NO. DAY STARTED Jan. 23, 1984 DAY COMPL.

LOGGED BY M. FOX BEARING 140° AZ ANGLE -45° NTS 52-F-7 HOLE NO. OA-84-2

TOTAL DEPTH 150' PAGE NO. 2 of 3

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON AU
64.0	67.0	Argillite (graphitic schist) - dark grey to black, siliceous, silty argillite, thinly laminated with subordinate lighter colored lamellae (0.1" to 0.2" thick) of slightly coarser grained sediment; schistosity 45° to DDH Axis - occasional hairline silica filled fractures subparallel to compositional layering - slightly more pyrite similar to that described above	pyrite	0.5 to 1.5	64-67		
67.0	70.0	Felsic crystal tuff (sericite schist) - dark to medium grey fine-grained thinly laminated felsic tuff with subordinate lamellae of darker finer-grained material - similar to lower part of 37.0 to 64.0 section described above - 0.1% to 0.5% pyrite as very fine grained dustings to coarse-grained euhedral cubes on compositional partings	pyrite	0.1 to 0.5	67-70		
70.0	71.0	Argillite (Graphitic schist) - similar to 64.0 - 67.0 section described above and represents an upsection (?) transition into fingergrained sediment foliation at approximately 45° to DDH Axis	pyrite	0.5 to 1.0	70.71		
71.0	76.0	Shear Zone (Sheared sericite schist) - very strongly sheared and dragfolded schist: light grey fine grained, cut by occasional quartz stringerd			71-73.5 73.5-76		

EXPLORATI LOG SHEET

PROPERTY MANITOU LAKES, Ontario CLAIM NO. DAY STARTED Jan. 23, 1984 DAY COMPL.

LOGGED BY M. Fox BEARING 140° AZ ANGLE -45° NTS 52-F-7 HOLE NO. QA-84-2

TOTAL DEPTH 150' PAGE NO. 3 of 3

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON AU
		angle of approximately 45°, at right angles to the metamorphic foliation					
76.0	91.0	Felsic Crystal tuff (Sericite schist) - similar to 37.0 - 64.0 section described above, with a gradational upsection transition into argillite - minor very fine grained pyrite	pyrite	0.1 to 0.25			
91.0	150.0	Argillite (Graphitic schist) - similar to 9.0 - 37.0 section described above; predominantly dark grey to black 0.05" to 0.3" thick lamellae of graphitic schist interlaminated with subordinate (20% - 50%) lighter colored lamellae of sericitic schist; occasional cross cutting quartz stringers throughoutsection from 76.0 to 101.0 - pyrite is more abundant in darker colored bands and occurs as fine grained dustings to coarse grained eupedral cubes along graphitic partings planes	pyrite	0.1 to 1.0	91-94 94-97 97-101		
END OF HOLE							

EXPLORATION LOG SHEET

PROPERTY Queen alexandra, Manitou straits CLAIM NO. [redacted] DAY STARTED JAN 29/84 DAY COMPL JAN 30/84

LOGGED BY M. Fox BEARING 140° area ANGLE -45° NTS 52 - F - 7 HOLE NO. QA - 84 - 3

TOTAL DEPTH 104' PAGE NO. 1 of 1

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON Au
0	8.0	Overburden					
8.0	104.0	Felsic Tuff light grey to medium grey, fine grained to aphanitic or glassy felsic tuff, occasional indistinct coarser grains as narrow lighter colored bands; 55.5 - 84: coarser grained more leucocratic bands constitute 40% of the rock; occasional flattened crystal fragments outlining a weak foliation intersecting the DDH axis at 50°, 0.25 - o.5% extremely fine grained disseminated pyrite.	Pyrite	0.25 to 0.5			
END OF HOLE							

EXPLORATION DRILL LOG

PROPERTY Queen Alexandra, Manitou Straits area CLAIM NO. DAY STARTED JAN 31/84 DAY COMPL FEB 2/84

LOGGED BY M. Fox BEARING 140°Az ANGLE -45° NTS 52 - F - 7 HOLE NO. QA - 84 - 4

TOTAL DEPTH 112.0 PAGE NO. 1 of 2

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON Au
0	7.5	Overburden					
7.5	81.5	Felsic Tuff Light to medium grey fine grained to glassy or aphanitic felsic tuff, occasional flattened and elongated crystal fragments and bands of slightly coarser grained lighter colored material outline a weak foliation at approximately 50° to the DDH axis. 0.25 - 0.5% very fine grained disseminated pyrite	Pyrite	0.25 to 0.5			
81.5	86.5	Quartz - Chlorite - Sericite Schist interbanded light to dark greyish - green and greenish yellow quartz - chlorite sericite schist and lenses of Felsic tuff (see description above) 0.5 - 1.5% Pyrite, fine grained	Pyrite	0.5 to 1.5			
86.5	91.0	Shear Zone very strongly sheared zone consisting of chlorite - quartz schist (subordinate sericite) foliation at 45 - 50° to DDH Axis 1.0 0 3.0 % Fine grained pyrite as disseminated evhedral cubes	Pyrite	1.0 to 3.0			

EXPLORATION LOG SHEET

PROPERTY [redacted]een Alexandra, Manitou Straits area CLAIM NO. [redacted] DAY STARTED DAY [redacted]OMPL.

LOGGED BY M. Fox BEARING 140°az ANGLE -45° NTS 52 - F - 7 HOLE NO. Q.A. - 84 - 4

TOTAL DEPTH 112' PAGE NO. 2 of 2

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON Au
91.0	94.0	Quartz Chlorite Sericite Schist similar to 81.5 - 86.5	Pyrite	0.5 to 1.5			
94.0	112.0	Felsic Tuff similar to 7.5 - 81.5	Pyrite	0.25 to 0.5			

COCHRANE OIL AND GAS LIMITED

SECTION 7600+00E
DDH QA-84-1

QUEEN ALEXANDRA CLAIM GROUP
MANITOU STRAITS AREA
KENORA MINING DIVISION
FEBRUARY, 1984

SCALE: 1:500 (1cm : 5m)

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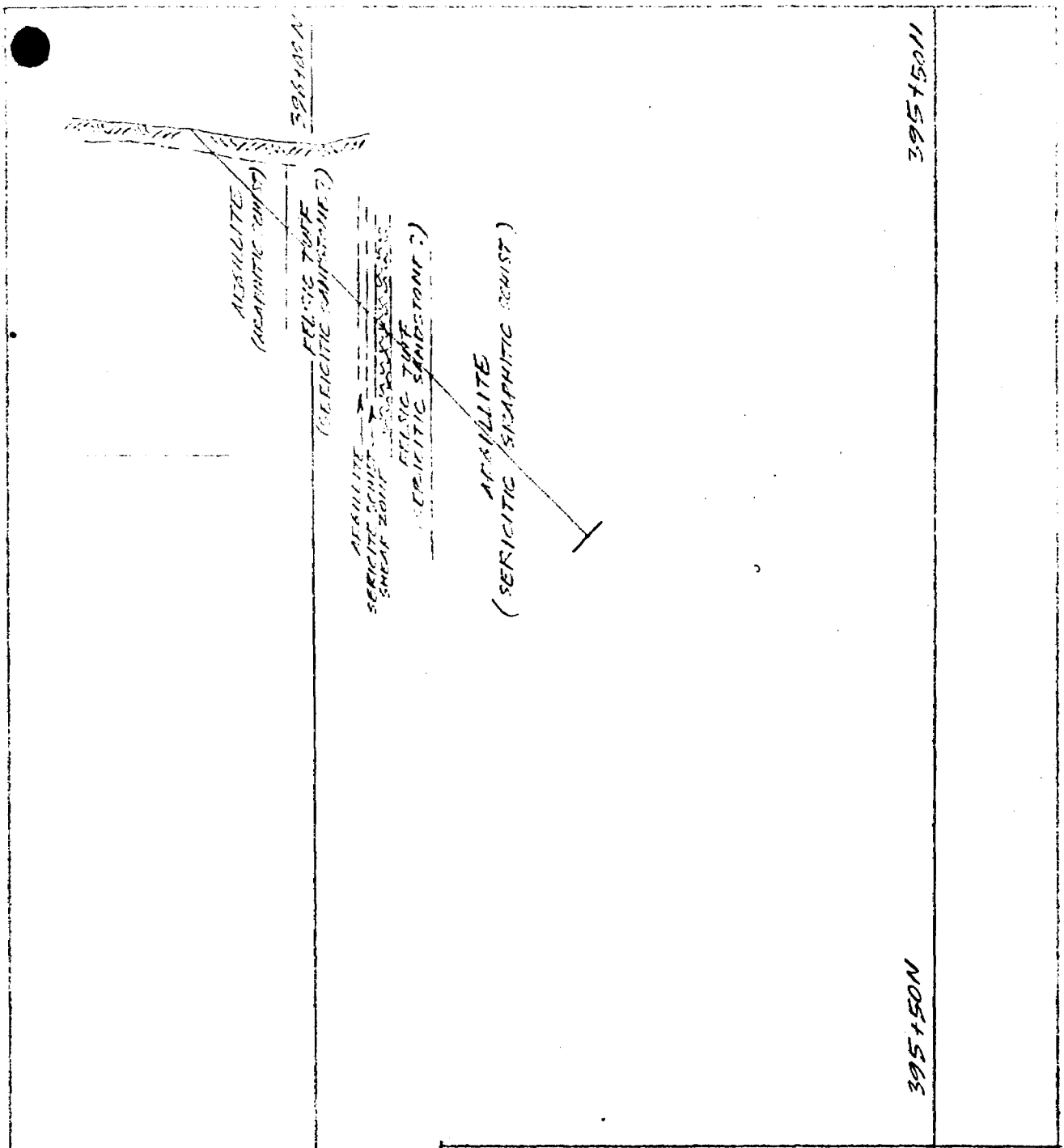

COCHRANE OIL AND GAS LIMITED

SECTION 7500170E
DDH QA-84-2

QUEEN ALEXANDRA CLAIM GROUP
MANITOU STRAITS AREA
KENORA MINING DIVISION
FEBRUARY, 1984

SCALE: 1:500 (1cm:5m)

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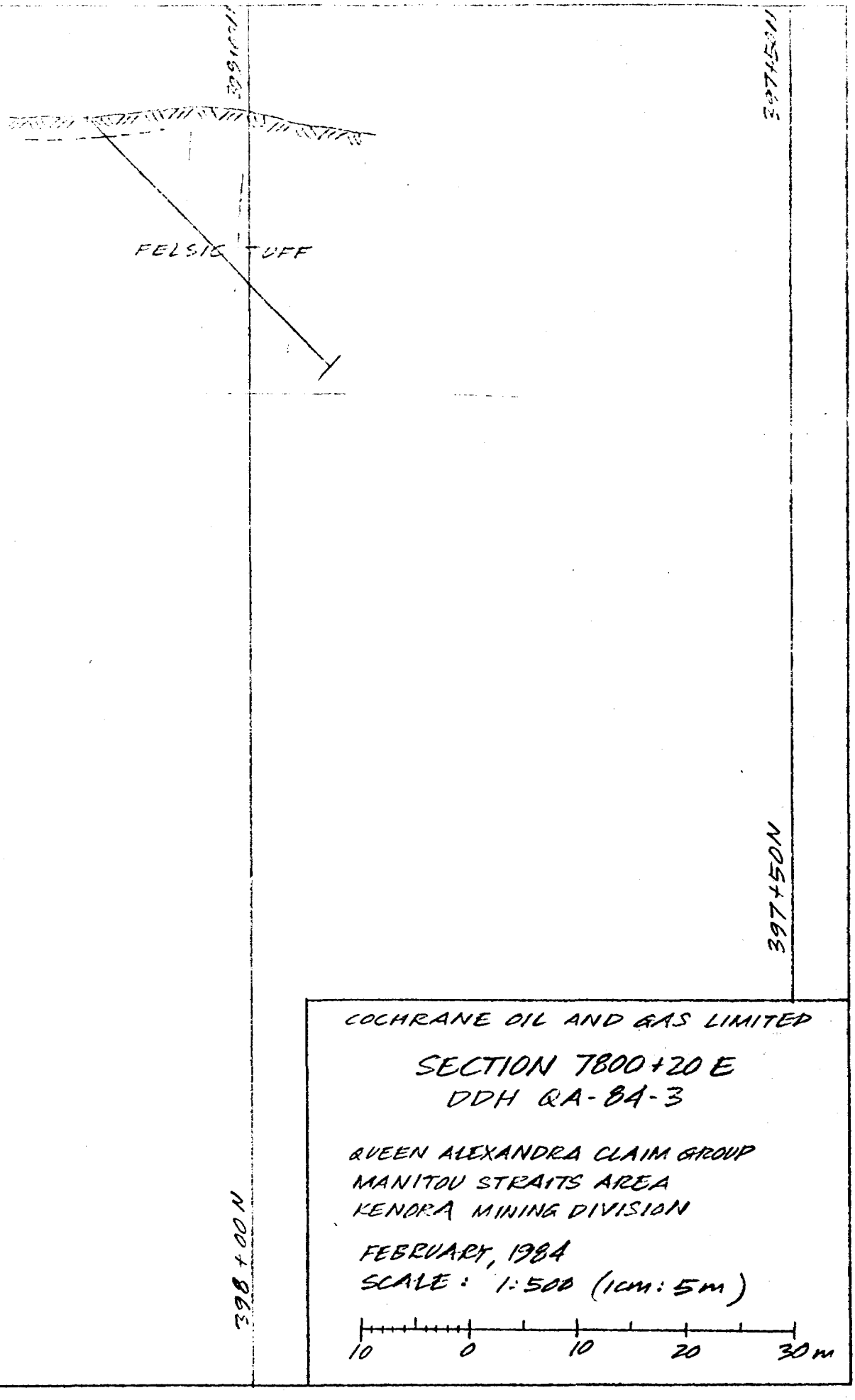

COCHRANE OIL AND GAS LIMITED

SECTION 7800+20 E
DDH QA-84-3

QUEEN ALEXANDRA CLAIM GROUP
MANITOU STRAITS AREA
KENORA MINING DIVISION

FEBRUARY, 1984
SCALE: 1:500 (1cm:5m)

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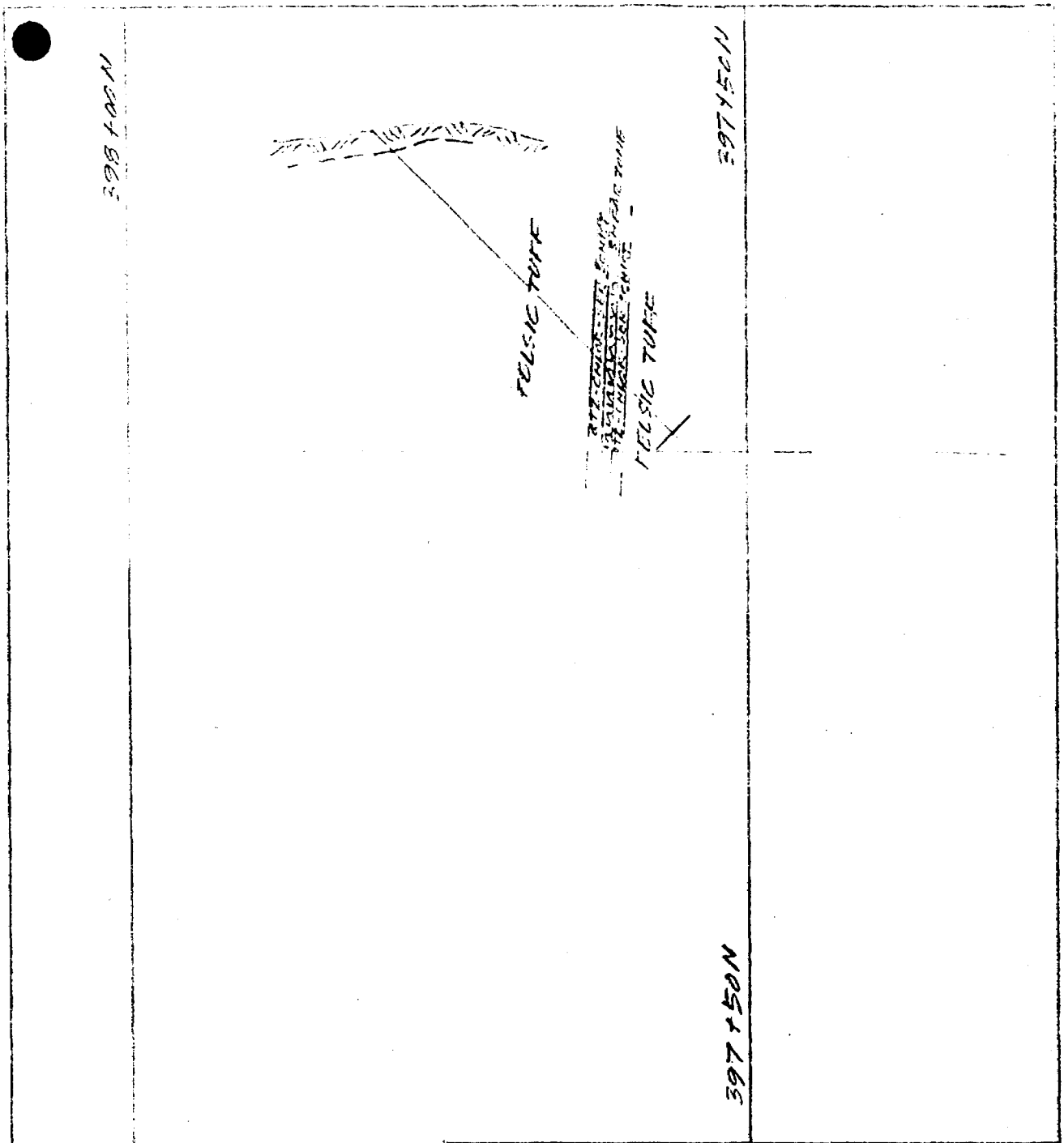

COCHRANE OIL AND GAS LIMITED

SECTION 7800+25E
DDH QA-84-4

QUEEN ALEXANDRA CLAIM GROUP
MANITOU STRAITS AREA
KENORA MINING DIVISION

FEBRUARY, 1984

SCALE: 1:500 (1cm:5m)

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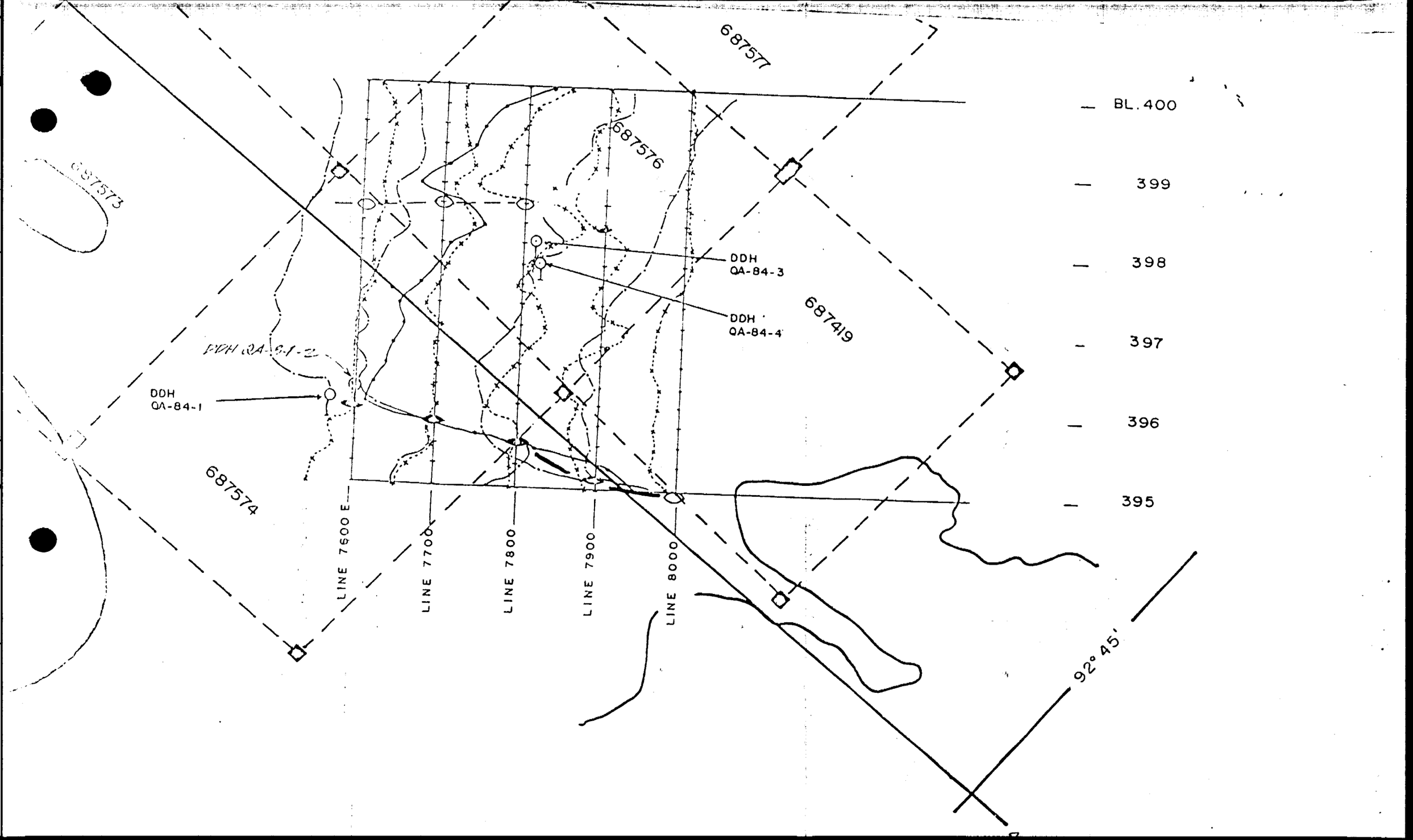
687577
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DDH QA-84-3
DDH QA-84-4
DDH QA-84-2
DDH QA-84-1
LINE 7600 E
LINE 7700
LINE 7800
LINE 7900
LINE 8000
BL. 400
399
398
397
396
395
92° 45'

EXPLORATION LOG SHEET

PROPERTY [redacted] rock extension, Upper Manitou Lake CLAIM NO. [redacted] DAY STARTED FEB 3/84 DAY COMPL FEB 5/84

LOGGED BY M. Fox BEARING 330° AZ ANGLE -45° NTS 52-F-7 HOLE NO. MB-84-1

TOTAL DEPTH 150' PAGE NO. 1 of 2

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON Au
0	21	Overburden					
21.0	72.0	Sandstone Light to medium grey, relatively coarse grained sandstone, sometimes thinly laminated with subordinate (10-20%) Thinly laminated bands of very fine grained black argillite some graphitic partings. foliation at approximately 45° to DDH Axis. coarser grained zones are a little lighter colored.					
72.0	81.5	Argilute Predominantly thinly bedded very fine grained, somewhat graphitic black argillite with subordinate lighter colored sandy bands 70 - 75% dark, silty, argillaceous material; 25 - 30% by volume sandy leucocratic bands 0.25 0.5% fine grained disseminated. grains of pyrite on bedding planes 79.5 - 81.5 transitional into sandstone	Pyrite	0.25 to 0.5			
81.5	116.0	SANDSTONE similar to 21.0 to 72.0 approx 80 - 90 % Felsic sand sized grains with 10 - 20% dark argillaceous banding, minor pyrite (.1% or less) as occasional fine. grained specks usually in argillaceous. bands.					

PROPERTY Old Rock Extension, Upper Manitou Lake CLAIM NO. DAY STARTED DAY COMPL

LOGGED BY M. Fox BEARING 330°az ANGLE -45° NTS 52-F-7 HOLE NO. MB-84-1

TOTAL DEPTH 150.0 PAGE NO. 2 of 2

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON Au
116.0	128.5	Argillite Similar to 72.0 - 81.5 a few more siliceous to cherty medium grey bands.					
128.5	150.0	Sandstone similar to 81.5 - 116.0					
		END OF HOLE.					

PROPERTY Gold Rock Extension, Upper Manitou Lake. CLAIM NO. DAY STARTED FEB 6/84 DAY COMPL FEB 8/84

LOGGED BY M. Fox BEARING 330° az ANGLE -45° NTS 52 F 7 HOLE NO. MB 84 2

TOTAL DEPTH 165' PAGE NO. 1 of 2

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON Au
0	8.0	Overburden					
8.0	18.0	Argillite very fine grained to extremely fine grained thinly laminated black argillite; subordinate (10% by volume) bands of coarser grained sandstone. abundant graphitic partings. foliation at 45° to DDH axis. 12.0 - 18.0 transitional into light to medium grey sandstone.					
18.0	67.0	Sandstone light to medium grey, thinly laminated sandstone. 80% - 90% sand sized felsic grains 10% - 20% Dark argillaceous banding 60.0 - 67.0 coarser grained more leucocratic zone.					
67.0	68.0	Argillite similar to 8.0 - 12.0 dark grey siliceous argillite					
68.0	77.0	Massive sulphide zone 75% - 95% fine grained yellow pyrite in massive aggregated and semi massive blebs Black very fine grained cherty, argillaceous matrix	Pyrite	75% to 95%			
77.0	93.0	Banded Sulphide Zone 15% to 40% (averaging 25%) fine grained yellow pyrite in bands (0.1 - 0.5" thick)	Pyrite	25%			

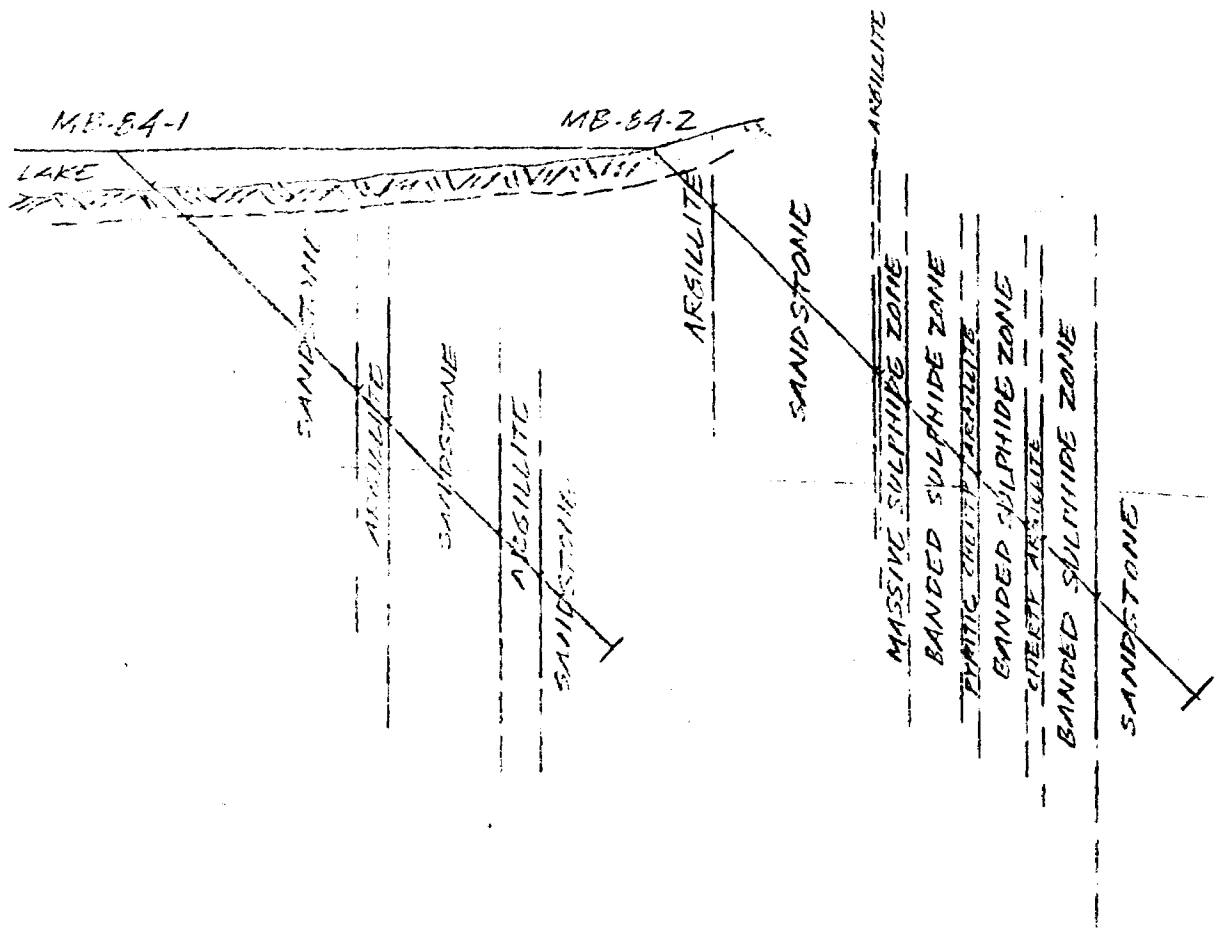
EXPLORATION LOG SHEET

PROPERTY Gold Rock Extension, Upper Manitou Lake. CLAIM NO. DAY STARTED DAY COMPL.

LOGGED BY M. Fox BEARING 330°az ANGLE -45° NTS 52-F-7 HOLE NO. MB - 84 - 2

TOTAL DEPTH 165' PAGE NO. 2 of 2

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON AU
77.0	93.0	concordant with compositional layering of medium grey to black cherty argillite host layering and banding at 45° to DDH Axis.					
continued							
93.0	98.0	Cherty Argillite - Pyritic Dark grey very fine grained to extremely fine grained siliceous. to cherty argillite 5 - 15% fine grained pyrite in banded aggregates, streaks and blebs.	Pyrite	10.0			
98.0	113.0	Banded Sulphide Zone similar to 77-93 10% - 30% fine grained pyrite in bands concordant with compositional layering.	Pyrite	20.0			
113.0	118.0	Cherty Argillite similar to 93.0 - 98.0, but less pyrite	Pyrite	5.0			
118.0	135.0	Banded sulphide zone Similar to 98.0 - 113.0 but less pyrite 123.0 - 175.0 only 1 - 2 % pyrite 125.0 to 135.0 : 5 - 10% pyrite.	Pyrite	10.0 to 15.0			
135.0	165.0	Sandstone similar to 18.0 - 67.0 occasional grains or thin streaks of fine grained pyrite.	Pyrite	0.5			
END OF HOLE.							



MB-84-1 : COLLAR : L-10,700 E, 397+60 N
MB-84-2 : COLLAR : L-10,700 E, 397+95 N

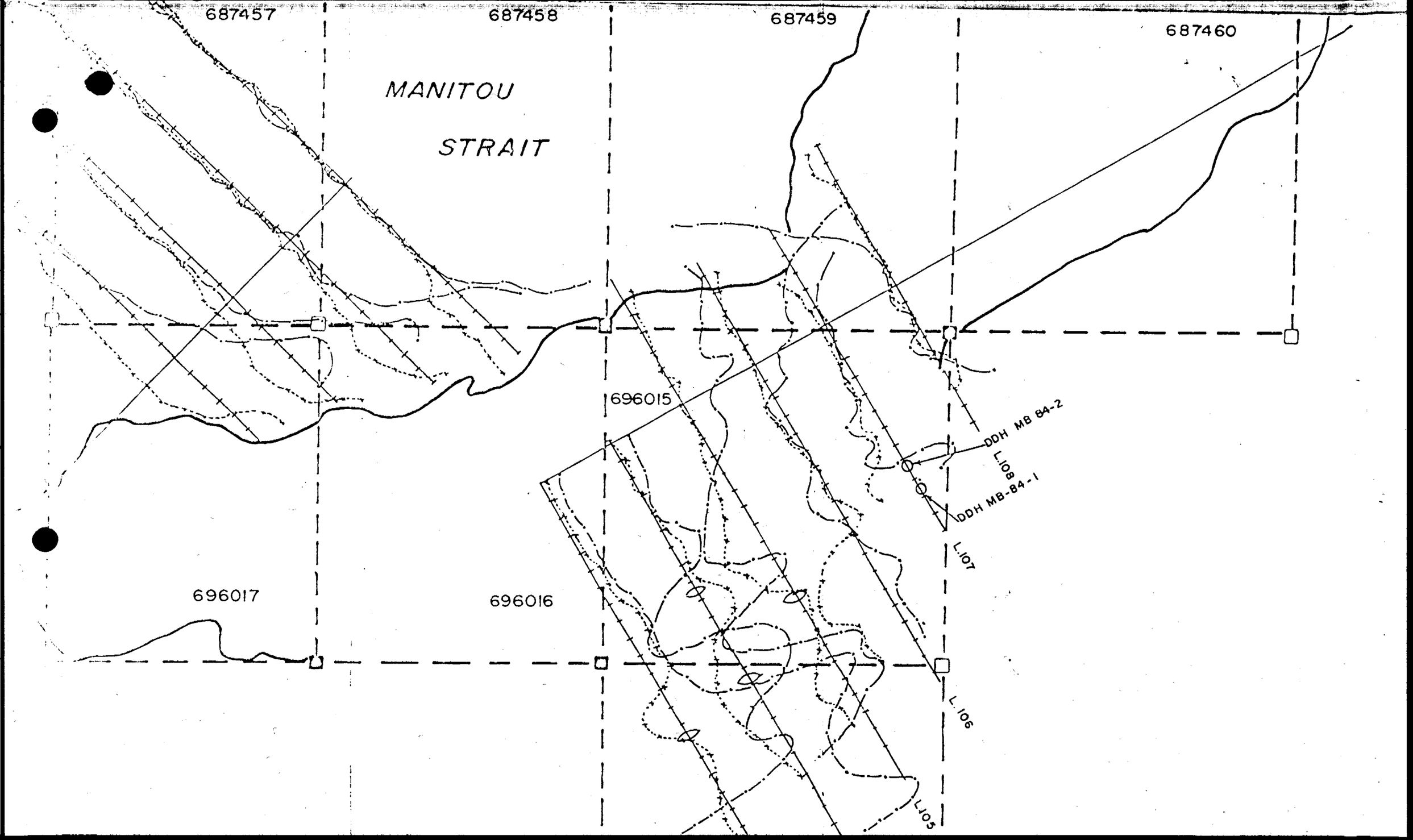
COCHRANE OIL AND GAS LIMITED

SECTION 10,700 E
DDH MB-84-1 AND MB-84-2

GOLD ROCK EXTENSION CLAIM GROUP
UPPER MANITOU LAKE
KENORA MINING DIVISION
FEBRUARY, 1984

SCALE : 1:500 (1cm : 5m)

10 0 10 20 30 m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DDH MB 84-2
L.108
DDH MB-84-1
L.107
L.106
L.105

EXPLORATION LOG SHEET

PROPERTY Gold Rock Extension, upper Manitou Lake. CLAIM NO. DAY STARTED FEB 19/84 DAY COMPL. FEB 20/84

LOGGED BY M. Fox BEARING 050° ANGLE -45° NTS 52 - F - F HOLE NO. GI 84 1

TOTAL DEPTH 142.5' PAGE NO. 1 of 1

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON Au
0	9.5	Overburden					
9.5	126.5	Dacite Light to medium grey fine grained dacite; some microporphyritic sections with whitish feldspar microphenocrysts occasional visible quartz grains, clear to dark grey translucent crystals.					
126.5	142.5	Dacitic Tuff fine grained medium greyishgreen banded Tuff. banding subparallel to DDH axis					
END OF HOLE							

COMMENTS: DDH did not intersect pyritized pinkish dyke exposed at surface Lithologies intersected in drillhole strike subparallel to direction of drill hole; DDH results suggest dyke is faulted off or strikes parallel to enclosing volcanics, almost at 90° to strike direction suggested by jointing.

EXPLORATION LOG SHEET

PROPERTY Gold rock extension Upper Manitou Lake CLAIM NO. DAY STARTED FEB 20/84 DAY COMPL FEB 22/84

LOGGED BY M. Fox BEARING 306° az ANGLE -45 NTS 52 F 7 HOLE NO. GL 84 2

TOTAL DEPTH 161.0' PAGE NO. 1 of 2

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON Au
0	13.0	Overburden					
13.0	24.0	Dacite Light to medium gray fine grained Dacite, Quartz Microphenocrysts					
24.0	29.0	Dacitic Tuff Fine grained, medium green, occasional banding, grading downhole into flow 0.5% fine grained disseminated pyrite	Pyrite	0.5			
29.0	44.0	Dacite similar to 13.0 - 24.0					
44.0	51.0	Rhyodacite (?) Leucocratic, pinkish-grey very fine-grained, to extremely fine. grained rhyodacite(?) flow 50.0 - 51.0 Dark Pinkish Black Crypto crystalline Chilled contact 2% - 4% fine grained disseminated pyrite along marrow (0.1 - 0.2") White Quartz - filled Fractures intersecting DDH Axis at 45°					
51.0	74.0	Dacitic Tuff similar to 13.0 - 24.0 but finer grained light to medium grey, banding at 45° to DDH Axis					
74.0	80.35	Dacite Similar to 13.0 to 24.0					

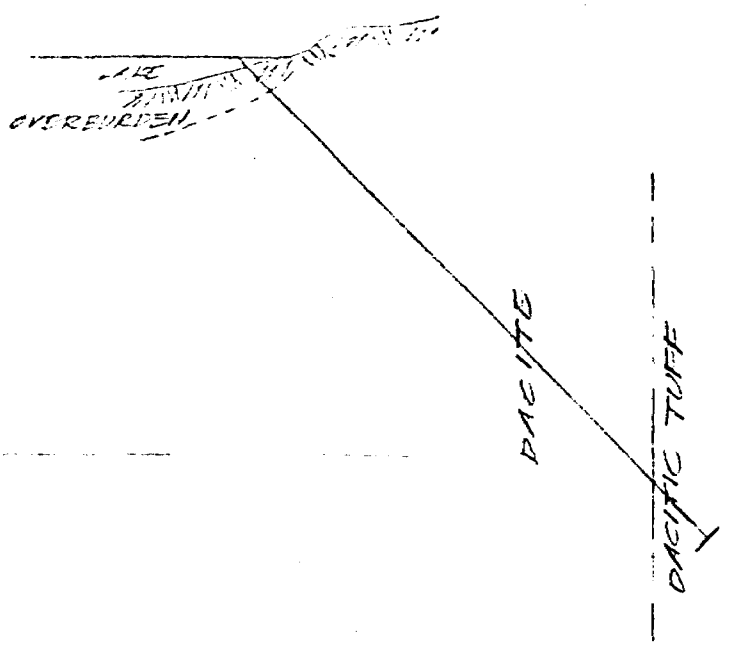
EXPLORATION LOG SHEET

PROPERTY _____ CLAIM NO. _____ DAY STARTED _____ DA COMPL

LOGGED BY BEARING ANGLE _____ NTS _____ HOLE NO. GI 84 2

TOTAL DEPTH 161.0 PAGE NO. 2 of 2

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON AU
80.25	84.25	Rhyodacite (?) chilled flow top (?) Dark greyish - green, glassy chilled flow top or extremely fine grained quenched rhyodacitic flow, two narrow quartz veins 81.5 1½" quartz vein 82.5 1½" quartz vein					
84.25	123.5	Dacite similar to 13.0 - 24.0 occasional microporphyritic sections with leucocratic feldspar microphenocrysts occasional visible quartz grains.					
123.5	128.0	Rhyodacite(?) similar to 80.25 - 84.25					
128.0	136.0	Dacitic Tuff similar to 24.0 - 29.0 indistinct banding at 45° to DDH axis					
136.0	149.5	Dacite similar to 84.25 - 123.5					
149.5	161.0	Dacitic Tuff similar to 128.0 - 136.0					
END OF HOLE							



COCHRANE OIL AND GAS LIMITED

SECTION DDH GI-84-1

(IN PLANE OF DRILL HOLE: 050° Az)

GOLD ROCK EXTENSION CLAIM GROUP
UPPER MANITOU LAKE
KENORA MINING DIVISION
FEBRUARY, 1984
COLLAR: L-10,500+20E, 659+80N

SCALE: 1:500 (1cm : 5m)

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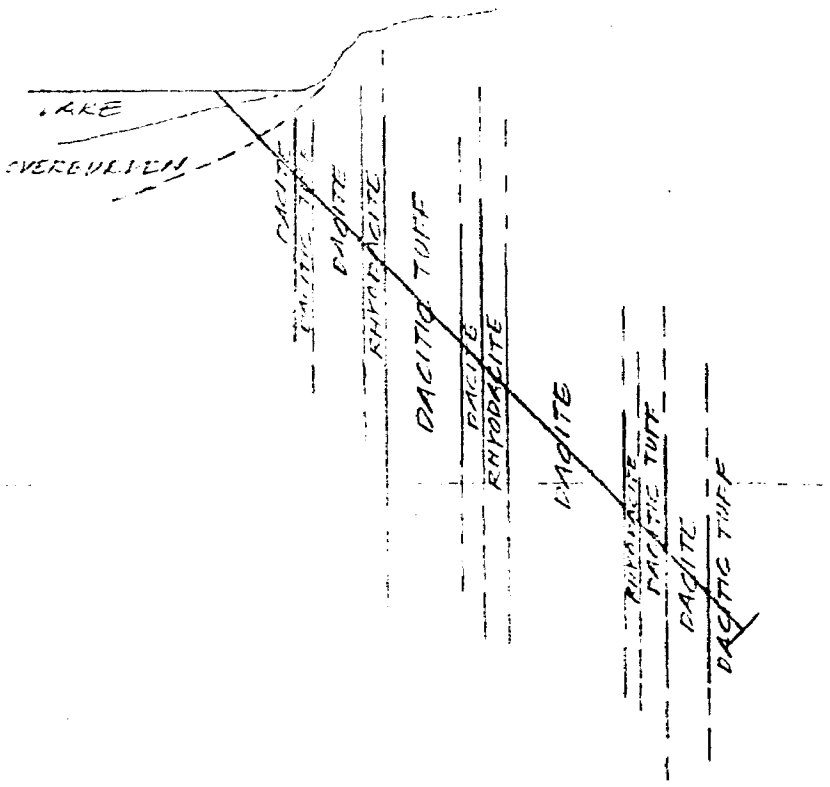

COCHRANE OIL AND GAS LIMITED

SECTION DDH GI-84-2

(IN PLANE OF DRILL HOLE : 306°Az)

GOLD ROCK EXTENSION CLAIM GROUP
UPPER MANITOU LAKE
KENORA MINING DIVISION
FEBRUARY, 1984
COLLAR : L-10,500+20E, 659+80N

SCALE : 1:500 (1cm : 5m)

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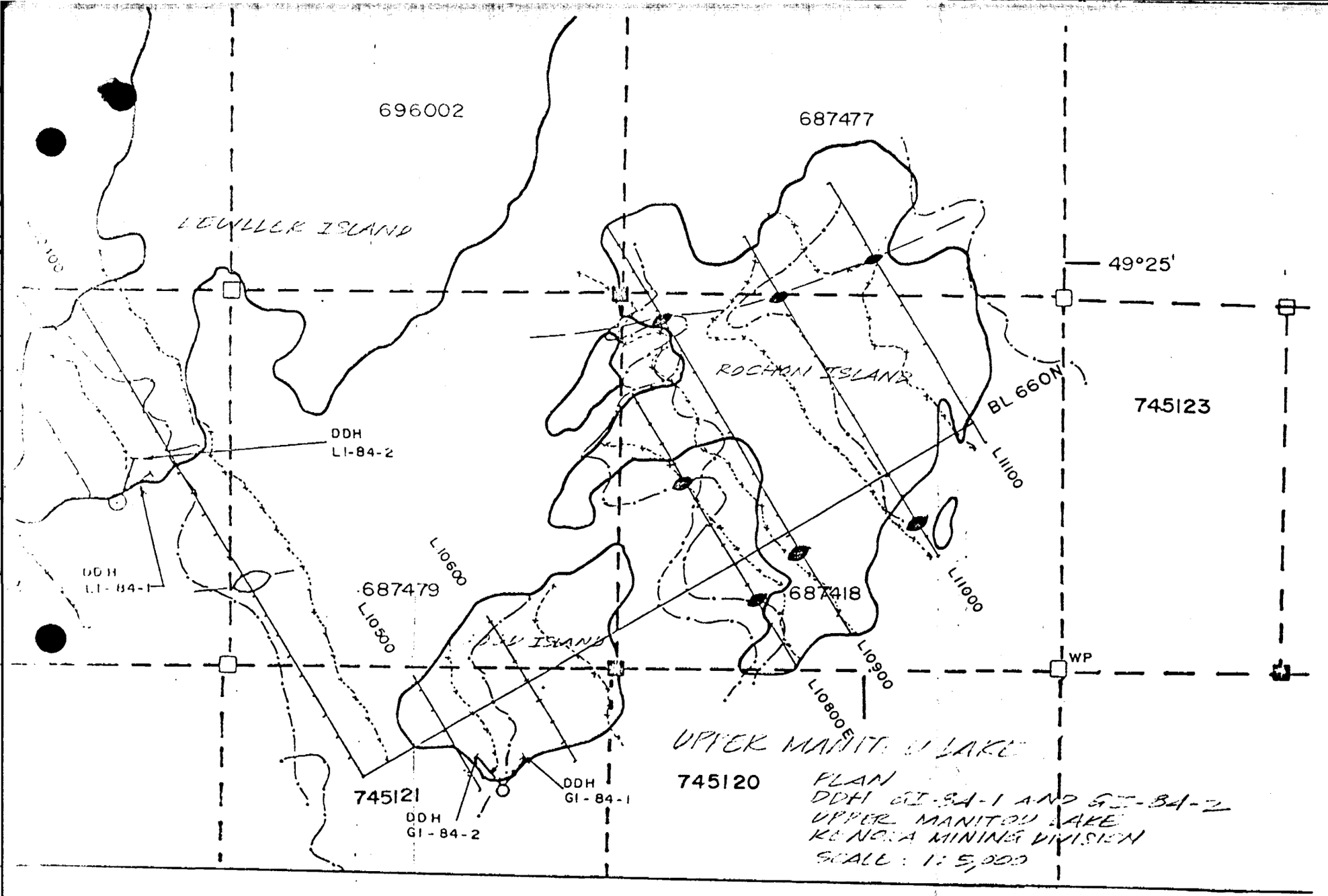


PLAN
DDH G1-84-1 AND G1-84-2
UPPER MANITOU LAKE
KENORA MINING DIVISION
SCALE : 1: 5,000

EXPLORATION LOG SHEET

PROPERTY GOLD ROCK EXTENSION CLAIM NO. DAY STARTED FEB. 9/84 DAY COMPL. FEB 11/84

LOGGED BY M. FOX BEARING 060° ANGLE -45° NTS 52-F-7 HOLE NO. LI-84-1

TOTAL DEPTH 155.5 PAGE NO. 1 of 1

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON AU
0.0	8.5	Overburden					
8.5	74.0	Dacite flow - medium to dark greyish green microporphyritic dacite flow, 20% fine-grained quartz microphenocrysts - very weak indistinct foliation developed at approx. 10° to DDH Axis					
74.0	98.5	Quartz - Chlorite Schist - sheared dacite; alternating thinly laminated bands of dark green chlorite and light to medium grey fine-grained quartz - 0.5 - 1.0% very fine grained disseminated pyrite - foliation subparallel to DDH axis					
98.5	142.0	Dacite flow - similar to 8.5 - 74.0					
142.0	155.5	Quartz-chlorite schist - similar to 74.0 - 98.5 - foliation almost parallel to DDH Axis					
END OF HOLE							
COMMENTS:		Hole appears to have been drilled along strike without intersecting target and is not a valid test of outcropping mineralized zone.					

EXPLORATION LOG SHEET

PROPERTY GOLD ROCK EXTENSION CLAIM NO. DAY STARTED FEB 12/84 DAY COMPL. FEB 14/84

LOGGED BY M. FOX BEARING 018° AZ ANGLE -45° NTS 52-F-7 HOLE NO. LI-84-2

TOTAL DEPTH 145' PAGE NO. 1 of 4

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON AU
0.0	9.0	Overburden					
9.0	20.6	Dacite flow - medium to dark greyish green microporphyritic dacite flow - 20% - 25% by volume very fine grained quartz microphenocrysts in a dark green aphanitic ground mass - weak foliation at 45° to DDH Axis	pyrite	0.25			
20.6	20.7	Quartz stringer - 1.5" quartz stringer at 50° angle to DDH Axis					
20.7	21.3	Chlorite-Quartz Schist sheared dark green dacite; chloritic bands interlaminated with light grey siliceous streaks and bands	pyrite	1.0 to 2.0			
21.3	22.0	Quartz vein - white coarse - grained quartz; no sulphides noted in vein material - 4.5% fine-grained cubic pyrite in narrow lenses and inclusions of sheared silicified dacite					
22.0	26.0	Quartz-Chlorite schist - similar to 20.7 - 21.3; a little more silicified - 3-5%fine grained pyrite along hairline quartz-filled fractures	pyrite	3.0 to 5.0			

EXPLORATION LOG SHEET

PROPERTY GOLD ROCK EXTENSION CLAIM NO. DAY STARTED DAY COMPL.

LOGGED BY M. FOX BEARING ANGLE -45° NTS 52-F-7 HOLE NO. LI-84-2

TOTAL DEPTH 145' PAGE NO. 2 of 4

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON AU
26.0	28.5	Quartz vein - similar to 21.3 - 22.0 but with 3-5% pyrite as very fine-grained disseminations and as bands along hairline quartz filled fractures	pyrite	3.0 to 5.0			
28.5	29.0	Silicified Wallrock (altered dacite) - light to medium grey, fine to medium grained, silicified, pyritized wall rock - approx. 2% fine-grained to medium-grained pyrite in discrete grains and blebs	pyrite	2.0			
29.0	32.0	Quartz vein - similar to 26.0 - 28.5 - 2% - 5% very fine grained to coarse grained pyrite in disseminated grains and blebs - approximately 10-15% by volume dark grey inclusions of silicified wallrock	pyrite	2.0 to 5.0			
32.0	34.9	Silicified Wallrock (altered dacite) - similar to 28.5 - 29.0	Pyrite	2.0			
34.9	35.2	Quartz vein - similar to 29.0 - 32.0	Pyrite	2.0 to 5.0			
35.2	46.5	Altered Dacite - similar to 28.5 - 29.0 and 32.0 - 34.9	Pyrite	0.5 to 3.0			

EXPLORATION LOG SHEET

PROPERTY GOLD ROCK EXTENSION CLAIM NO. _____ DAY STARTED _____ DAY COMPL. _____

LOGGED BY M. FOX BEARING _____ ANGLE -45° NTS 52-F-7 HOLE NO. LI-84-2

TOTAL DEPTH 145' PAGE NO. 3 of 4

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON AU
35.2	46.5	- narrow (0.1 - 0.3") lenses, streaks, and bands of light grey quartz interlaminated with narrow chloritic bands of variably silicified sheared dacite carrying 0.5% - 1.0% pyrite - 41.0 - 46.0: 1 - 3% fine grained disseminated pyrite in more intersely silicified quartz stringer zone - 43.0 : 1" quartz stringer - 45.0 : 1" quartz stringer - 46.0 - 46.5: intensely silicified, bleached wallrock with gradational transition into quartz vein					
46.5	55.0	Quartz vein - white to pink very fine-grained to cryptocrystalline quartz carrying 1.0 - 3.0% coarse-grained, euhedral, disseminated pyrite cubes - numerous hairline fractures filled with later white quartz and fine-grained pyrite - 50.0 - 51.0 bleached, silicified band of pinkish green altered dacite	pyrite	1.0 to 3.0			
55.0	74.0	Altered Dacite - sheared dacite similar to 35.2 - 46.0 - 62.0 - 63.0 : 12" quartz vein, no sulphides - 66.25 - 66.5: 3" quartz vein, no sulphides - 73.5 - 74.0 : silicified, bleached, re-crystallized wallrock adjacent	Pyrite	0.5			

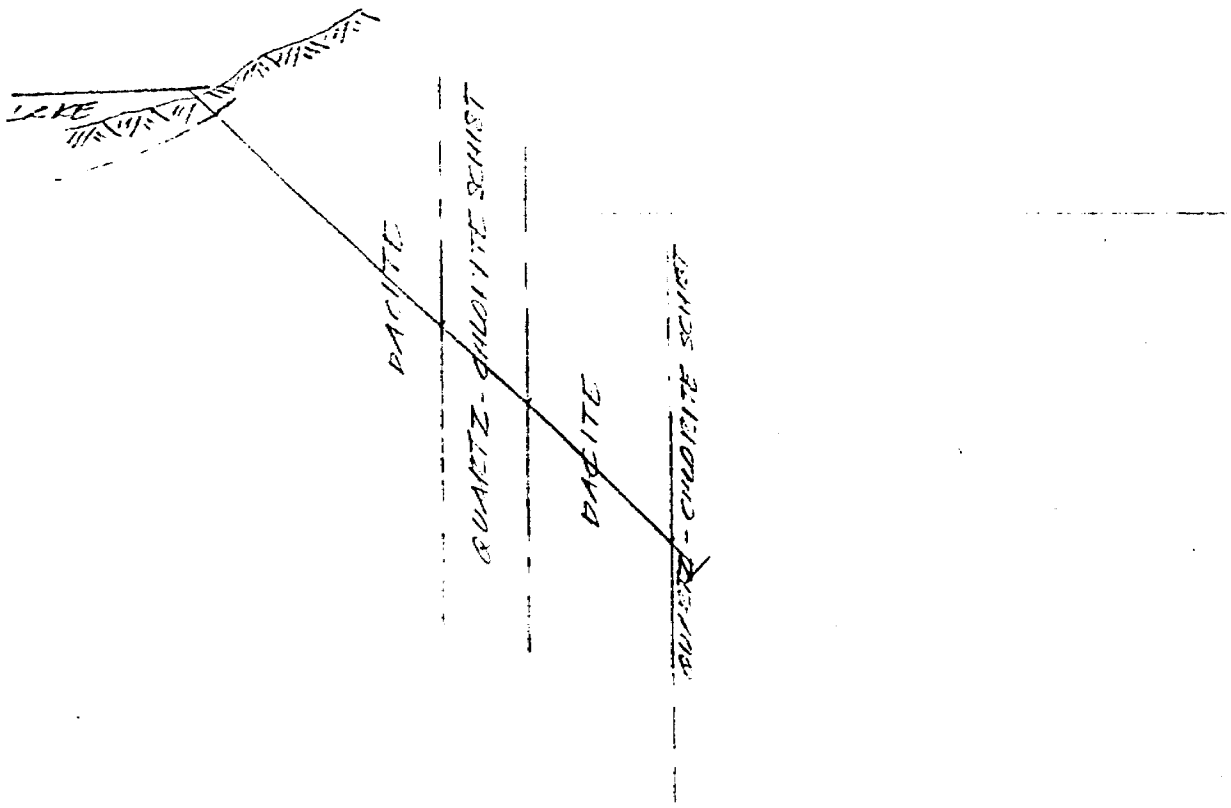
EXPLORAT LOG SHEET

PROPERT GOLD ROCK EXTENSION CLAIM NO. DAY STARTED DAY COMPL.

LOGGED BY M. FOX BEARING ANGLE -45° NTS 52-F-7 HOLE NO. LI-84-2

TOTAL DEPTH 145' PAGE NO. 4 of 4

FOOTAGE FROM	FOOTAGE TO	ROCK CLASSIFICATION	MINERALIZATION TYPE	MINERALIZATION %	ASSAY DATA SAMPLE	ASSAY DATA WIDTH	ASSAY DATA OZ/TON AU
		to quartz vein; carries 1 - 2% fine grained disseminated pyrite					
74.0	79.0	Quartz vein - similar to 46.5 - 55.0	pyrite	0.5 to 2.0			
79.0	84.0	Dacite flow - similar to 9.0 - 20.6	pyrite	0.25			
84.0	87.0	Shear zone - chlorite-quartz schist, zone of weak shearing in dacite flow	pyrite	0.25			
87.0	127.0	Dacite flow - similar to 9.0 - 26.0; 79.0 - 84.0; occasional hairline, quartz-filled fractures with minor pyrite	pyrite	0.25			
127.0	133.0	Dacitic tuff - dark green, aphanitic, occasional elongated lappilli-sized felsic fragment - possibly a chillep flow top					
133.0	150.0	Dacite flow - similar to 87.0 - 127.0	pyrite	0.25 to 0.5			
END OF HOLE							



COCHRANE OIL AND GAS LIMITED

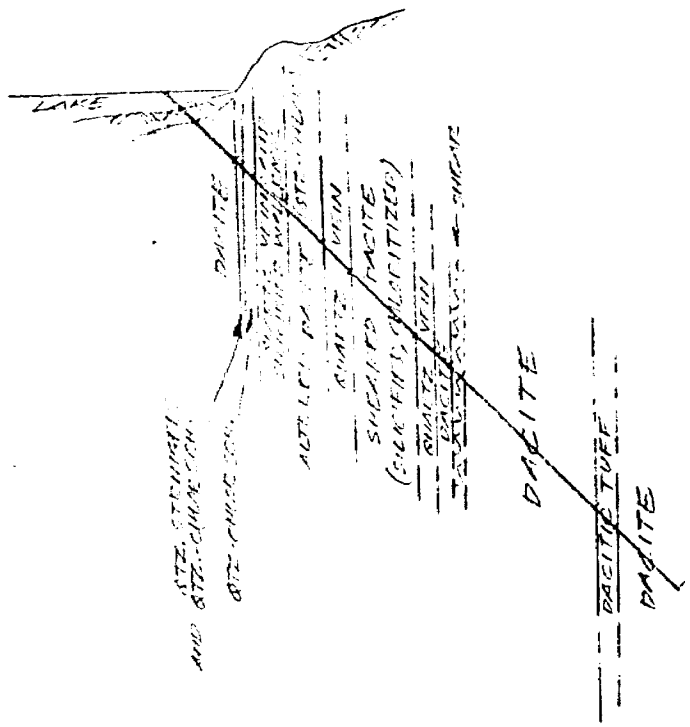
SECTION DDH LI-84-1

(IN PLANE OF DRILL HOLE : 060°Az)

GOLD ROCK EXTENSION CLAIM GROUP
UPPER MANITOU LAKE
KENORA MINING DIVISION
FEBRUARY, 1984

SCALE : 1:500 (1cm : 5m)

10 0 10 20 30m



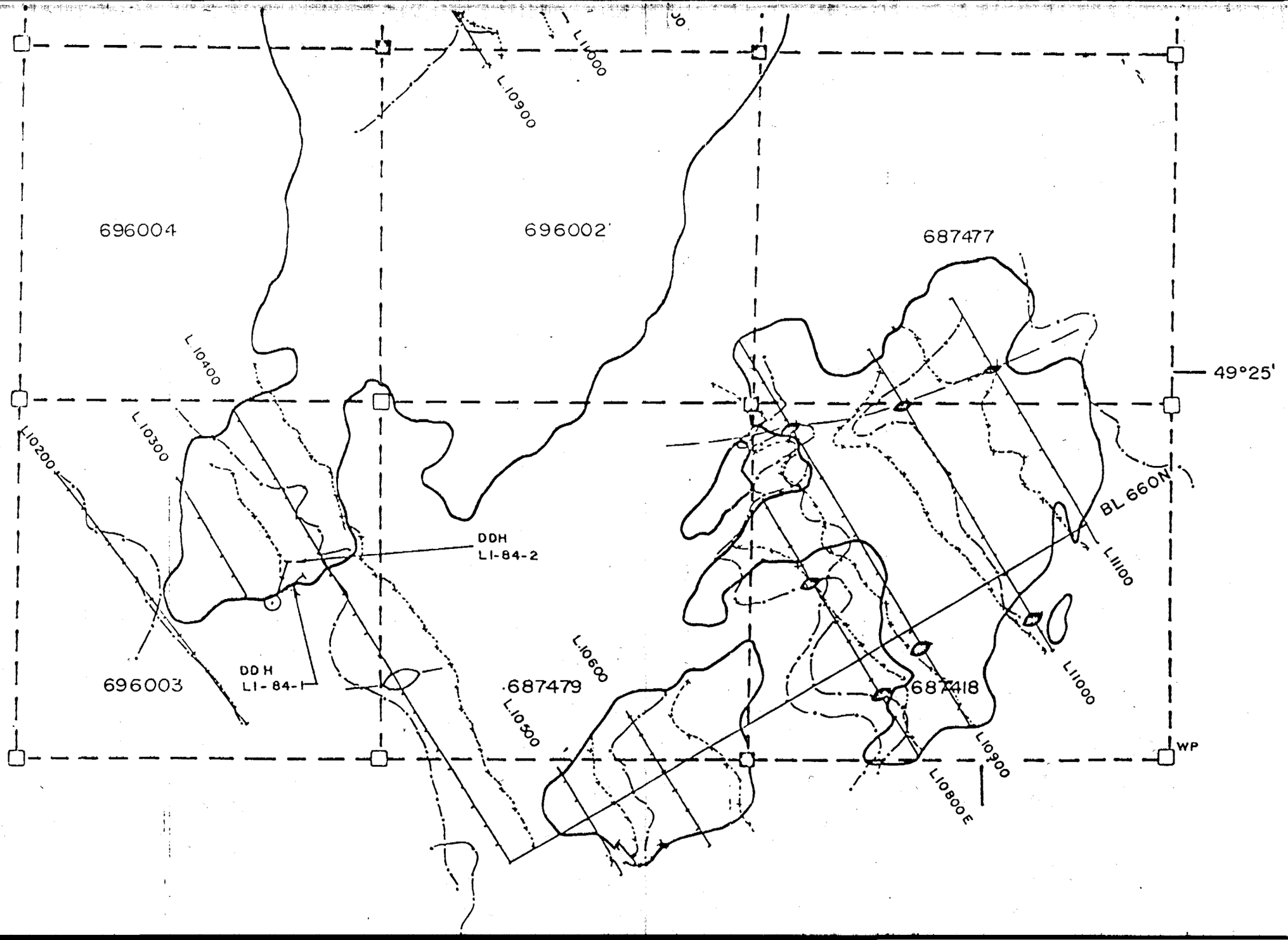
COCHRANE OIL AND GAS LIMITED

SECTION DDH LI-84-2

(IN PLANE OF DRILL HOLE : 018° Az.)

GOLD ROCK EXTENSION CLAIM GROUP
UPPER MANITOU LAKE
KENORA MINING DIVISION
FEBRUARY, 1984
SCALE : 1 : 500 (1cm : 5m)

10 0 10 20 30m


696004
696002
687477
L10900
L11000
L10400
L10300
L10200
49°25'
DDH
LI-84-2
BL 660N
L11100
L11000
696003
DDH
LI-84-1
687479
L10600
L10500
687418
L10900
L10800E
WP

Ministry of Natural Resources
Ontario

Report of Work W 8401 00087 87-
(Geophysical, Geological, Geochemical and Expenditures)

Fred Matthews

The Mi

52F07NW0023 2.6542 HARPER LAKE

900

Type of Survey(s)
geology/geophysical/geochemical

Township or Area
Lower Manitou Lake M2007

Claim Holder(s)
Cochrane Oil & Gas Ltd.

Prospector's Licence No.
T1554

Address
2340 - 1st Avenue N.W., Calgary, Alberta, T2N OB8

Survey Company
Nolin Geo Enterprises Ltd.

Date of Survey (from & to)
14 Day | 6 Mo. | 83 Yr. | 21 Day | 2 Mo. | 84 Yr.

Total Miles of line Cut
79 km

Name and Address of Author (of Geo-Technical report)

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	8 ~~15~~ 64
	Geophysical - Magnetometer	8 ~~15~~ 64
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	1.5 ~~80~~
	Geochemical	6 ~~365~~

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
	SEE ATTACHED LIST	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

see revised work statement

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)
See attached List

Calculation of Expenditure Days Credits

Total Expenditures: $ 7,510.55 ÷ 15 = Total Days Credits: 500.70 ÷ 60 = 8.3 days per claim

687340

Total number of mining claims covered by this report of work: 60

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
1926 ~~1926~~	MARCH 19/84	
	Date Approved as Recorded	Branch Director

Fast Recd MAR 8/84

Date	Recorded Holder or Agent (Signature)
Feb. 21/84	A. Hironaka

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
G. Nolin, Nolin Geo Enterprises Ltd., 540 - 707 - 7th Avenue S.W., Calgary, Alberta T2P OZ2

Date Certified

Certified by (Signature)

1362 (81/9)

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey: Geology

Technical Days			Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
12.6	X	7	88	+	--	=	88	÷	60	=	1.5

Type of Survey: Geophysical

Technical Days			Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
132.57	X	7	928	+	48	=	976	+	60	=	16.3

Type of Survey: Geochemical

Technical Days			Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
52.14	X	7	365	+	--	=	365	÷	60	=	6

Type of Survey:

Technical Days			Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7		+		=		+		=	

NOTE;

1. For a detailed assessment work breakdown refer to Appendix A of the Summer Fall Nolin Geo Enterprises Exploration Report and Appendix A to Addendum 1 of the enclosed report.

2. For a detailed Technical Data Statement on the above program refer to Chapter 7, Addendum 1 and appendix 5C, J of the enclosed report.

E.M. — $\frac{928+48}{2} \div (52) = 9.38$ ~~9 days~~ = 8.15 days.

Mag. — $\frac{928+48}{2} \div (58) = 8.41 \Rightarrow$ 8. = 8.15 days.

Geol. — $12.6 \times 7 \div 36 = 2.45 \Rightarrow$ 2 days

Geochem — $52.14 \times 7 \div 32$ claims $= 11.4$ ~~11 days~~

SCHEDULE "A"

CLAIM DISPOSITION

Cochrane - Sennol J.V.
Kenora Mining Division
NTS 52F-7
Lower Manitou Lake Area Map M2007
Harper Lake Area Map 2592
Boyer Lake Area Map 2582

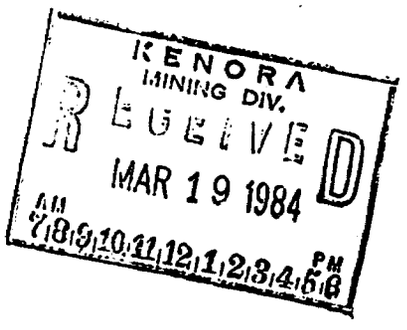
Cochrane Property - 4 Contiguous Blocks - 239 claims total

	CLAIM #	DATE STAKED	DATE RECORDED	MAP
		GLASS REEF MINE GRID - 77 claims		
1.	K687340	February 22, 1983	March 9, 1983	M2007
2.	K687346	"	"	"
3.	K687347	"	"	"
4.	K687348	"	"	"
5.	K687349	"	"	"
6.	K687350	"	"	"
7.	K687352	February 23, 1983	"	"
8.	K687353	"	"	"
9.	K687354	"	"	"
10.	K687355	"	"	"
11.	K687356	"	"	"
12.	K687357	"	"	"
13.	K687358	"	"	"
14.	K687359	"	"	"
15.	K687362	February 26, 1983	"	"
16.	K687363	"	"	"
17.	K687364	"	"	"
18.	K687365	"	"	"
19.	K687366	February 27, 1983	"	"
20.	K687367	"	"	"
21.	K687368	February 26, 1983	"	"
22.	K687369	"	"	"
23.	K687373	February 27, 1983	"	"
24.	K687374	"	"	"
25.	K687375	"	"	"
26.	K687376	"	"	"
27.	K687377	"	"	"
28.	K687378	February 28, 1983	"	"
29.	K687379	"	"	"
30.	K687380	"	"	"

cont..../2

GLASS REEF MINE GRID - cont

31.	K687381	February 27, 1983	"	"
32.	K687384	"	"	"
33.	K687385	"	"	"
34.	K687386	"	"	"
35.	K687387	"	"	"
36.	K687388	"	"	"
37.	K687391	March 1, 1983	"	"
38.	K687392	"	"	"
39.	K687393	February 26, 1983	"	"
40.	K687394	"	"	"
41.	K687395	"	"	"
42.	K687396	"	"	"
43.	K687398	February 25, 1983	"	"
44.	K687399	"	"	"
45.	K687400	"	"	"
46.	K687401	"	"	"
47.	K687402	"	"	"
48.	K687403	"	"	"
49.	K687404	"	"	"
50.	K687405	February 24, 1983	"	"
51.	K687406	"	"	"
52.	K687407	February 25, 1983	"	"
53.	K687408	"	"	"
54.	K687409	February 24, 1983	"	"
55.	K687410	"	"	"
56.	K687411	"	"	"
57.	K687412	"	"	"
58.	K687414	"	"	"
59.	K687415	"	"	"
60.	K687416	"	"	"



Ministry of Natural Resources
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

86-84

MATHEWS

The Mining Act

2.6542

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s)	Township or Area
Geophysical/Geological/Geochemical	M2582 Harper Lake and Boyer Lake
Claim Holder(s) M2592	**Prospector's Licence No.**
Cochrane Oil & Gas Ltd.	T1554
Address	
2340 - 1st Avenue N.W., Calgary, Alberta, T2N OB8	
Survey Company	**Date of Survey (from & to)** Day / Mo. / Yr. — Day / Mo. / Yr.	**Total Miles of line Cut**
Nolin Geo Enterprises Ltd.	14 / 06 / 83 — 21 / 02 / 84	- 28 km
Name and Address of Author (of Geo-Technical report)	
G. Nolin, 1900, 520 - 5th Avenue S.W., Calgary, Alberta	

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical	
	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	- Electromagnetic	7
	- Magnetometer	6
	- Radiometric	
	- Other	
	Geological	.8
	Geochemical	5.6

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
	See Attached List				

RECEIVED
MAR 26 1984
MINING LANDS SECTION

KENORA MINING DIV.
RECEIVED
MAR 19 1984
FIRST RECD
MAR 8/84

See revised work statement

Expenditures (excludes power stripping)

Type of Work Performed	Performed on Claim(s)
Geochemical	Assay and analysis

Calculation of Expenditure Days Credits

Total Expenditures $ 7753.9 ÷ 15 = Total Days Credits 516.93 ÷ 56 = 9.2

Total number of mining claims covered by this report of work: 56

687417 First Received Mar 8/84

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
~~1001.6~~ 1001.6	Mar 19/84	
	Date Approved as Recorded	Branch Director
		X

Date	Recorded Holder or Agent (Signature)
Feb. 21/84	A. Hironaka

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
G. Nolin, 540, 707 - 7th Avenue S.W., Calgary, Alberta, T2P OZ2

Date Certified	Certified by (Signature)

1362 (81/9)

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey

Geophysical - (VLF-EM - CEM-EM MAXMIN-EM MAG)

Technical Days		Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
98.8	X 7 =	691.5	+	45	=	736.5	÷	56	=	13

Type of Survey

Geological

Technical Days		Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
6.6	X 7 =	46	+	--	=	46	÷	56	=	.8

Type of Survey

Geochemical

Technical Days		Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
44.85	X 7 =	314	+	--	=	314	÷	56	=	5.6

Type of Survey

Technical Days		Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X 7 =		+		=		÷		=	

NOTE:

1. For a detailed assessment work breakdown refer to Appendix A of the Summer Fall Nolin Geo Enterprises Exploration Report and Appendix A to Addendum of the enclosed report.

2. For a detailed Technical Data Statement on the above program refer to Chapter 7, Addendum 1 and appendix 5C, J of the enclosed report.

Geochem - 44.85 x 7 ÷ (56-11) = 6.98 ⇒ 7 days.

E.M. -

$\frac{\text{Total Cr.}}{392} \div \frac{\text{No. of Claims}}{47}$

$= 8.34 \Rightarrow 8$ days.

Mag: -

(691.5 - 392) = 299.5 ÷ 23 (33 claims not covered).

$= 13.02 \Rightarrow 13$ days.

Geol. -

6.6 ÷ 52 = 0.88 days.

SCHEDULE "A"

CLAIM DISPOSITION

Cochrane - Sennol J.V.
Kenora Mining Division
NTS 52F-7
Lower Manitou Lake Area Map M2007
Harper Lake Area Map 2592
Boyer Lake Area Map 2582

Cochrane Property - 4 Contiguous Blocks - 239 claims total

	CLAIM #	DATE STAKED	DATE RECORDED	MAP
	GOLD ROCK EXTENSION AND QUEEN ALEXANDRA GRIDS - 136 claims			
1	K687480	February 28, 1983	March 9, 1983	M2007
2	K687492	February 26, 1983	"	"
3	K687493	"	"	"
4	K687495	February 27, 1983	"	"
5	K687501	February 26, 1983	"	"
6	K687502	"	"	"
7	K687503	"	"	"
8	K687511	February 25, 1983	"	"
9	K687512	"	"	"
10	K687520	February 22, 1983	"	"
11	K687521	February 24, 1983	"	"
12	K687534	February 22, 1983	"	"
13	K687537	February 23, 1983	"	"
14	K687538	"	"	"
15	K687544	February 24, 1983	"	"
16	K687545	February 23, 1983	"	"
17	K687546	"	"	"
18	K687548	February 24, 1983	"	"
19	K687549	February 28, 1983	"	"
20	K687550	"	"	"
21	K687570	March 2, 1983	"	"
22	K687573	"	"	"
23	K687574	March 3, 1983	"	"
24	K687576	"	"	2592
25	K687579	"	"	"
26	K687419	"	"	"
27	K696015	March 12, 1983	March 17, 1983	2582
28	K696016	"	"	"
29	K696017	"	"	"
30	K696019	"	"	"
31	K696021	"	"	"

cont.../2

GOLD ROCK EXTENSION AND QUEEN ALEXANDRA GRIDS - cont

32	K696022	"	"	"
33	K696023	"	"	"
34	K687432	March 9, 1983	"	2582
35	K687433	"	"	"
36	K687434	"	"	"
37	K687435	"	"	"
38	K687436	"	"	"
39	K687437	"	"	"
40	K687438	"	"	"
41	K687439	"	"	"
42	K687440	"	"	"
43	K687441	"	"	"
44	K687442	"	"	"
45	K687443	March 10, 1983	"	"
46	K687444	"	"	"
47	K687445	"	"	"
48	K687446	"	"	"
49	K687447	"	"	"
50	K687448	"	"	"
51	K687450	"	"	"
52	K687451	"	"	"
53	K687453	March 11, 1983	"	"
54	K687459	"	"	"
55	K687460	"	"	"
56	K687461	"	"	"

Ministry of Natural Resources
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

85-84

Fred Matthews

The Mining Act

2.6542

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s)	Township or Area
Geochemical/Geophysical/Geological	Boyer Lake M2582

Claim Holder(s)	Prospector's Licence No.
Cochrane Oil & Gas Ltd.	T1554

Address: 2340 - 1st Avenue N.W., Calgary, Alberta, T2N 0B8

Survey Company	Date of Survey (from & to)	Total Miles of line Cut
Nolin Geo Enterprises Ltd.	29 9 83 (Day Mo. Yr.) 15 2 84 (Day Mo. Yr.)	- 30 km

Name and Address of Author (of Geo-Technical report): . Nolin, 1900, 520 - 5th Avenue S.W., Calgary, Alberta

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical	
	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	- Electromagnetic	15
	- Magnetometer	14.6
	- Radiometric	
	- Other	
	Geological	18
	Geochemical	25

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
	SEE ATTACHED SCHEDULE				

RECEIVED
MAR 26 1984
MINING LANDS SECTION

see work revised Statement

KENORA MINING DIV.
RECEIVED
MAR 19 1984
AM 7 8 9 10 11 12 1 2 3 4 5 PM

Expenditures (excludes power stripping)

Type of Work Performed: Geochemical assays

Performed on Claim(s): See Attached List

Calculation of Expenditure Days Credits

Total Expenditures: $ 13,023.35 ÷ 15 = Total Days Credits: 868 ÷ 14 = 62

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work: 14

687462 Fiest Received Mar 8/84

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
1884.4	Mar 19/84	
	Date Approved as Recorded	Branch Director

Date	Recorded Holder or Agent (Signature)
Feb. 21/84	A. Hironaka

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: G. Nolin, 540, 707 - 7th Avenue S.W., Calgary, Alberta T2P 0Z2

	Date Certified	Certified by (Signature)
	Feb 20, 1984	

1362 (81/9)

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey
Geochemical

Technical Days			Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
40.6	X	7	284	+	68	=	352	+	14	=	25

Type of Survey
Geophysical MAG, VLF-EM

Technical Days			Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
39	X	7	399	+	15	=	414	+	14	=	29.6

Type of Survey
Geology

Technical Days			Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
36	X	7	253	+	-	=	253	+	14	=	18

Type of Survey

Technical Days			Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X	7		+		=		+		=	

NOTE:

1. For a detailed assessment work breakdown refer to Appendix A of the Summer Fall Nolin Geo Enterprises Exploration Report and Appendix A to Addendum 1 of the enclosed report.
2. For a Detailed Technical Data Statement on the above program refer to Chapter 7, Addendum 1 and Appendix 5C, J of the enclosed report.

Geoph (Mag. + VLF) reduced because of ERROR in calculations.

Line cutting

39 x 7 = 273 + 15

= 288 ÷ 14

= 20.6 days

or 10 days E.M. + 10 days Mag.

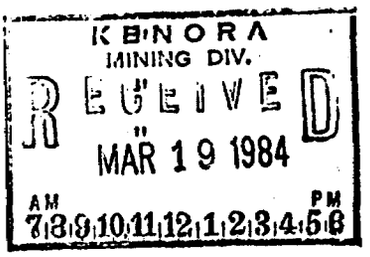
SCHEDULE "A"

CLAIM DISPOSITION

Cochrane - Sennol J.V.
Kenora Mining Division
NTS 52F-7
Lower Manitou Lake Area Map M2007
Harper Lake Area Map 2592
Boyer Lake Area Map 2582

Cochrane Property - 4 Contiguous Blocks - 239 claims total

	CLAIM #	DATE STAKED	DATE RECORDED	MAP
		GIANT MINE GRID - 14 claims		
1	K687462	March 14, 1983	March 17, 1983	2582
2	K687463	"	"	"
3	K687464	"	"	"
4	K687465	"	"	"
5	K687466	"	"	"
6	K687467	"	"	"
7	K687468	"	"	"
8	K687469	"	"	"
9	K687470	"	"	"
10	K687471	"	"	"
11	K687472	"	"	"
12	K687473	"	"	"
13	K687474	"	"	"
14	K687475	"	"	"



Ministry of Natural Resources
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

84-84

The Mining Act

2.6542

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

F. MATTHEWS

Type of Survey(s)	Township or Area M2582
Geophysical/Geochemical	Harper and Boyer Lake
Claim Holder(s) M2592	**Prospector's Licence No.**
Cochrane Oil & Gas Ltd.	T1554
Address	
2340 - 1st AVenue N.W., Calgary, Alberta, T2N 0B8	
Survey Company	**Date of Survey (from & to)** Day / Mo. / Yr. — **Total Miles of line Cut**
Nolin Geo Enterprises Ltd.	14 06 83 — 21 02 84 — 9 km
Name and Address of Author (of Geo-Technical report)	
G. Nolin, 1900, 520 - 5th Avenue S.W., Calgary, Alberta	

Credits Requested per Each Claim in Columns at right

		Days per Claim
Special Provisions For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	7
	- Magnetometer	6
	- Radiometric	
	- Other	
	Geological	3
	Geochemical	6
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

SEE ATTACHED SCHEDULE

RECEIVED
MAR 2 6 1984
MINING LANDS SECTION

KENORA MINING DIV. RECEIVED FIRST RECD MARCH 8/8 MAR 19 1984 AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

Expenditures (excludes power stripping)

Type of Work Performed	
Geochemical assays	
Performed on Claim(s)	
See attached schedule	

Calculation of Expenditure Days Credits

Total Expenditures: $ 403.80 ÷ 15 = Total Days Credits: 27

12 = 2.25 days per claim

Total number of mining claims covered by this report of work: 12

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

696001 First Received Mar 8/84

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
291	March 19/84	
	Date Approved as Recorded	Branch Director

See work Reused Statement

Date	Recorded Holder or Agent (Signature)
Feb. 21/84	A. Hironaka

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying		
G. Nolin, Nolin Geo Enterprises Ltd., 540, 707 - 7th Avenue S.W., Calgary, Alberta, T2P 0Z2	Date Certified	Certified by (Signature)

1362 (81/9)

Assessment Work Breakdown

Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey
Geochemical

Technical Days		Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
10.3	X 7 =	72	+	---	=	72	÷	12	=	6

Type of Survey
Geophysical

Technical Days		Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
20.7	X 7 =	145	+	10.5	=	155.5	÷	12	=	13

Type of Survey
Geology

Technical Days		Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
5	X 7 =	35	+	-	=	35	÷	12	=	3

Type of Survey

Technical Days		Technical Days Credits		Line-cutting Days		Total Credits		No. of Claims		Days per Claim
	X 7 =		+		=		÷		=	

NOTE:

1. For a detailed assessment work breakdown refer to Appendix A of the Summer Fall Nolin Geo Enterprises Exploration Report and Appendix A to Addendum 1 of the enclosed report.

2. For a Detailed Technical Data Statement on the above prrogram refer to Chapter 7, Addendum 1 and Appendix 5C, J of the enclosed report.

- E.M. + Geol. approved.

- Mag. - Total Cr. 72 ÷ 8 = 9

- Geochem. - 10.3 x 7 ÷ 3 = 24 days.

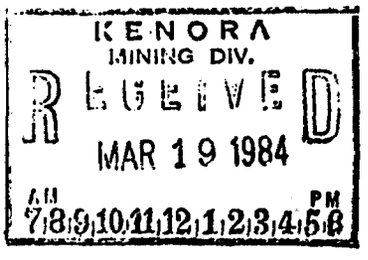
SCHEDULE "A"

CLAIM DISPOSITION

Cochrane - Sennol J.V.
Kenora Mining Division
NTS 52F-7
Lower Manitou Lake Area Map M2007
Harper Lake Area Map 2592
Boyer Lake Area Map 2582

Cochrane Property - 4 Contiguous Blocks - 239 claims total

	CLAIM #	DATE STAKED	DATE RECORDED	MAP
		LEUILLER ISLAND GRID - 12 claims		
1	K687476	March 15,. 1983	March 17, 1983	2582-2592
2	K687477	"	"	2592
3	K687478	"	"	2592-2582
4	K687479	"	"	2592
5	K696001	"	"	"
6	K696002	"	"	"
7	K696003	"	"	"
8	K696004	"	"	"
9	K696005	"	"	"
10	K696031	"	"	"
11	K696032	"	"	"
12	K696033	"	"	"



1984 11 01

Your File: 84-84,85-84,86-84 & 87-84
Our File: 2.6542

Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5-80
Kenora, Ontario
P9N 3X9

Dear Madam:

RE: Notice of Intent dated October 9, 1984
Geophysical (Electromagnetic and Magnetometer), Geological, Geochemical and Data for Assaying Survey on Mining Claims K 687340 et al in the Areas of Harper Lake, Boyer Lake and Lower Manitou Lake

---

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

L.D. LgA.

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-4888

D. Kinvig:mc

cc: Cochrane Oil & Gas Limited
2340 - 1st Avenue S W
Calgary, Alberta
T2N 0B8

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

cc: Resident Geologist
Kenora, Ontario

Encl.

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File: 2.6542

Date: 1984 10 09

Mining Recorder's Report of Work No.: 84-84

Recorded Holder: COCHRANE OIL & GAS LTD

Township or Area: BOYER LAKE AND HARPER LAKE AREAS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	K 687476 696001 to 03 inclusive 696005 696031 to 33 inclusive
Electromagnetic _____ days	
Magnetometer 9 days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
Man days [X] Airborne [ ]	
Special provision [ ] Ground [X]	
[ ] Credits have been reduced because of partial coverage of claims.	
[ ] Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

[X] not sufficiently covered by the survey [ ] Insufficient technical data filed

K 687477 to 79 inclusive
696004

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—60:

628 (83/6)

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File 2.6542

Date 1984 10 09

Mining Recorder's Report of Work No. 84,85,86 & 87

Recorded Holder
COCHRANE OIL & GAS LTD

Township or Area
BOYER LAKE, HARPER LAKE & LOWER MANITOU LAKE AREAS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	$28691.60 SPENT ON SAMPLE ASSAYS ON MINING CLAIMS:
Electromagnetic _____ days	K 687462 to 75 inclusive
Magnetometer _____ days	687480
Radiometric _____ days	687492-93
Induced polarization _____ days	687495
Other _____ days	687501 to 03 inclusive
Section 77 (19) See "Mining Claims Assessed" column	687511-12
Geological _____ days	687520-21
Geochemical _____ days	687537-38
Man days ☐ Airborne ☐	687544 to 46 inclusive
Special provision ☐ Ground ☐	687548 to 50 inclusive
☐ Credits have been reduced because of partial coverage of claims.	687573-74
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	687576
	687579
	687419
	696015 to 17 inclusive
	696019
	696021 to 23 inclusive
	687432 to 34 inclusive
	687439 to 45 inclusive
	687451
	687453
	687459-60
	687340
	687346 to 50 inclusive
	687352 to 54 inclusive
	687357 to 59 inclusive
	687362 to 64 inclusive
	687366 to 69 inclusive
	K 687373 to 75 inclusive
	687379 to 81 inclusive
	687385 to 88 inclusive
	696002 to 04 inclusive
	1913 ASSESSMENT WORK DAYS ARE ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—60.

828 (83/6)

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File: 2.6542

Date: 1984 10 09

Mining Recorder's Report of Work No.: 86-84

Recorded Holder: COCHRANE OIL & GAS LTD

Township or Area: BOYER LAKE AND HARPER LAKE AREAS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological 0.8 days Geochemical _____ days Man days [X] Airborne [ ] Special provision [ ] Ground [X] [ ] Credits have been reduced because of partial coverage of claims. [ ] Credits have been reduced because of corrections to work dates and figures of applicant.	K 687480 687492-93 687495 687501 to 03 inclusive 687511-12 687520-21 687537-38 687544 to 46 inclusive 687548 to 50 inclusive 687570 687573-74 687576 687579 687419 696015 to 17 inclusive 696019 696021 to 23 inclusive 687432 to 45 inclusive 687450-51 687453 687459 to 61 inclusive

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

[X] not sufficiently covered by the survey [ ] Insufficient technical data filed

K 687534
687446 to 48 inclusive

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—60:

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File 2.6542

Date 1984 10 09

Mining Recorder's Report of Work No. 86-84

Recorded Holder: COCHRANE OIL & GAS LTD

Township or Area: BOYER LAKE & HARPER LAKE AREAS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	K 687480 687492-93 687495 687501 to 03 inclusive 687511-12 687537-38 687544 to 46 inclusive 687548 to 50 inclusive 687570 687573-74 687576 687579 687419
Electromagnetic _____ days	
Magnetometer 13 days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
Man days [X] Airborne [ ]	
Special provision [ ] Ground [X]	
[ ] Credits have been reduced because of partial coverage of claims.	
[ ] Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

[X] not sufficiently covered by the survey [ ] Insufficient technical data filed

K 687520-21
687534
696015 to 17 inclusive
696019
696021 to 23 inclusive
687432 to 48 inclusive
687450-51
687453
687459 to 61 inclusive

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—60:

828 (83/6)

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File 2.6542

Date 1984 10 09

Mining Recorder's Report of Work No. 87-84

Recorded Holder: COCHRANE OIL & GAS LTD

Township or Area: LOWER MANITOU LAKE

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic 8.15 days Magnetometer ____ days Radiometric ____ days Induced polarization ____ days Other ____ days Section 77 (19) See "Mining Claims Assessed" column Geological ____ days Geochemical ____ days Man days [X] Airborne [ ] Special provision [ ] Ground [X] [ ] Credits have been reduced because of partial coverage of claims. [ ] Credits have been reduced because of corrections to work dates and figures of applicant.	K 687340 687346 to 50 inclusive 687352 to 59 inclusive 687362 to 69 inclusive 687373 to 76 inclusive 687378 to 81 inclusive 687385 to 88 inclusive 687391 to 95 inclusive 687398 to 410 inclusive

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

[X] not sufficiently covered by the survey [ ] Insufficient technical data filed

K 687377
687384
687396
687411-12
687414 to 16 inclusive

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77 (19) — 60:

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File 2.6542

Date 1984 10 09

Mining Recorder's Report of Work No. 87-84

Recorded Holder
COCHRANE OIL & GAS LTD

Township or Area
LOWER MANITOU LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	K 687340 687346 to 50 inclusive 687352 to 59 inclusive 687362 to 69 inclusive 687373 to 81 inclusive 687385 to 88 inclusive 687391 to 95 inclusive 687398 to 412 inclusive 687414 to 16 inclusive
Electromagnetic _____ days	
Magnetometer 8.15 days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ days	
Man days ☒ Airborne ☐	
Special provision ☐ Ground ☒	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

☒ not sufficiently covered by the survey ☐ Insufficient technical data filed

K 687384
687396

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—60:

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File 2.6542

Date 1984 10 09

Mining Recorder's Report of Work No. 86-84

Recorded Holder
COCHRANE OIL & GAS LTD

Township or Area
BOYER LAKE AND HARPER LAKE AREAS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical 7 days Man days [X] Airborne [ ] Special provision [ ] Ground [X] [ ] Credits have been reduced because of partial coverage of claims. [ ] Credits have been reduced because of corrections to work dates and figures of applicant.	K 687480 687492-93 687495 687501 to 03 inclusive 687511-12 687520-21 687537-38 687544 to 46 inclusive 687548 to 50 inclusive 687573-74 687576 687579 687419 696015 to 17 inclusive 696019 696021 to 23 inclusive 687432 to 34 inclusive 687439 to 45 inclusive 687451 687453 687459-60

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

[X] not sufficiently covered by the survey [ ] Insufficient technical data filed

K 687534
687570
687435 to 38 inclusive
687446 to 48 inclusive
687450
687461

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—60:

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File 2.6542

Date 1984 10 09

Mining Recorder's Report of Work No. 87-84

Recorded Holder: COCHRANE OIL & GAS LTD

Township or Area: LOWER MANITOU LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	K 687340 687346 to 50 inclusive 687352 to 59 inclusive 687362 to 69 inclusive 687373 to 76 inclusive 687378 to 81 inclusive 687384 to 88 inclusive 687409
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological 2 days	
Geochemical _____ days	
Man days [X] Airborne [ ]	
Special provision [ ] Ground [X]	
[ ] Credits have been reduced because of partial coverage of claims.	
[ ] Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

[X] not sufficiently covered by the survey [ ] Insufficient technical data filed

K 687377
687391 to 96 inclusive
687398 to 408 inclusive
687410 to 12 inclusive
687414 to 16 inclusive

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—60:

828 (83/6)

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File: 2.6542

Date: 1984 10 09

Mining Recorder's Report of Work No.: 87-84

Recorded Holder: COCHRANE OIL & GAS LTD

Township or Area: LOWER MANITOU LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	K 687340 687346 to 50 inclusive 687352 to 54 inclusive 687357 to 59 inclusive 687362 to 64 inclusive 687366 to 69 inclusive 687373 to 75 inclusive 687379 to 81 inclusive 687385 to 88 inclusive
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical 11 days	
Man days [X] Airborne [ ]	
Special provision [ ] Ground [X]	
[ ] Credits have been reduced because of partial coverage of claims.	
[ ] Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

[X] not sufficiently covered by the survey [ ] Insufficient technical data filed

K 687355-56
687365
687376 to 78 inclusive
687384
687391 to 96 inclusive
687398 to 412 inclusive
687414 to 16 inclusive

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—60:

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File: 2.6542

Date: 1984 10 09

Mining Recorder's Report of Work No.: 86-84

Recorded Holder: COCHRANE OIL & GAS LTD

Township or Area: BOYER LAKE AND HARPER LAKE AREAS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic 8 days Magnetometer ____ days Radiometric ____ days Induced polarization ____ days Other ____ days Section 77 (19) See "Mining Claims Assessed" column Geological ____ days Geochemical ____ days Man days ☒ Airborne ☐ Special provision ☐ Ground ☒ ☐ Credits have been reduced because of partial coverage of claims. ☐ Credits have been reduced because of corrections to work dates and figures of applicant.	K 687480 687492-93 687495 687501 to 03 inclusive 687511-12 687520-21 687537-38 687544 to 46 inclusive 687548 to 50 inclusive 687570 687573-74 687576 687579 687419 696015 to 17 inclusive 696019 696021 to 23 inclusive 687432 to 35 inclusive 687439 to 45 inclusive 687451 687453 687459-60

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

☒ not sufficiently covered by the survey ☐ Insufficient technical data filed

K 687534
687436 to 38 inclusive
687446 to 48 inclusive
687450
687461

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—60:

0228 (83/6)

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File: 2.6542

Date: 1984 10 09

Mining Recorder's Report of Work No.: 85-84

Recorded Holder: COCHRANE OIL AND GAS LTD

Township or Area: BOYLER LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	K 687462 to 75 inclusive
Electromagnetic 10 days	
Magnetometer 10 days	
Radiometric ____ days	
Induced polarization ____ days	
Other ____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological 18 days	
Geochemical 25 days	
Man days [X] Airborne [ ]	
Special provision [ ] Ground [X]	
[X] Credits have been reduced because of partial coverage of claims.	
[ ] Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

[ ] not sufficiently covered by the survey [ ] Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—60:

828 (83/6)

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File 2.6542

Date 1984 10 09

Mining Recorder's Report of Work No. 84-84

Recorded Holder: COCHRANE OIL & GAS LTD

Township or Area: BOYER LAKE AND HARPER LAKE AREAS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	K 696002 to 04 inclusive
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical 24 days	
Man days [X] Airborne [ ]	
Special provision [ ] Ground [X]	
[ ] Credits have been reduced because of partial coverage of claims.	
[ ] Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

[X] not sufficiently covered by the survey [ ] Insufficient technical data filed

K 687476 to 79 inclusive
696001
696005
696031 to 33 inclusive

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—60:

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File 2.6542

Date 1984 10 09

Mining Recorder's Report of Work No. 84-84

Recorded Holder: COCHRANE OIL & GAS LTD

Township or Area: BOYER LAKE AND HARPER LAKE AREAS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic 7 days Magnetometer ____ days Radiometric ____ days Induced polarization ____ days Other ____ days Section 77 (19) See "Mining Claims Assessed" column Geological 3 days Geochemical ____ days Man days [X] Airborne [ ] Special provision [ ] Ground [X] [ ] Credits have been reduced because of partial coverage of claims. [ ] Credits have been reduced because of corrections to work dates and figures of applicant.	K 687476 to 79 inclusive 696001 to 05 inclusive 696031 to 33 inclusive

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

[ ] not sufficiently covered by the survey [ ] Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—60:

Ministry of Natural Resources

Ontario

Oct 31/84

~~Oct 24/84~~

1984 10 09

Your File: 84-84,85-84,86-84 & 87-84
Our File: 2.6542

Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

Dear Madam:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

D.K.D. Kinvig:mc

Encls.

cc: Cochrane Oil & Gas Limited
2340 - 1st Avenue S W
Calgary, Alberta
T2N 0B8

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

Ministry of Natural Resources

Ontario

Notice of Intent

for Technical Reports

1984 10 09

2.6542/84-84,85-84,86-84 & 87-84

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

COCHRANE OIL & GAS LTD.

Suite 2100, FIRST CANADIAN CENTRE
350 - 7th Avenue S.W.
Calgary, Alberta T2P 3N9
Telephone: (403) 233-7100

September 19, 1984

Ministry of Natural Resources
Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

ATTENTION: S.E. Yundt
Director
Land Management Branch

Dear Sir:

RE: Geophysical (Electromagnetic and Magnetometer) and Data for Assaying submitted on Mining Claims K 687340 et al in the Areas of Boyer Lake, Harper Lake and Lower Manitou Lake
Your File No. 2.6542

Further to your letter of July 6, 1984 in connection with the above noted matter we now enclose herewith, in duplicate, the duly amended plans for the above mentioned Magnetometer and Electromagnetic surveys.

We would point out that some of the plans have been replaced while others have been supplemented with a figure B setting out the post dated values.

Also enclosed herewith please find the requested copies of cancelled cheques showing proof of expenditures for the assay costs.

We trust that this meets with your approval.

Yours very truly,

COCHRANE OIL & GAS LTD.

Per: M.R. Naish

MRN:dme

Enclosures

cc: Mining Recorder
Kenora, Ontario

The First Canadian Bank

Bank of Montreal

Shell Centre
400 - 4 Avenue S.W.
Calgary, Alta. T2P 0J4

Current Account

November 16 19 83 No. 863

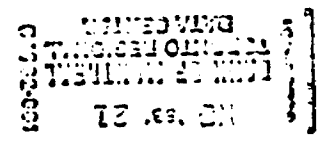
Pay to the order of Barringer Magenta Limited $ 11,790.70*

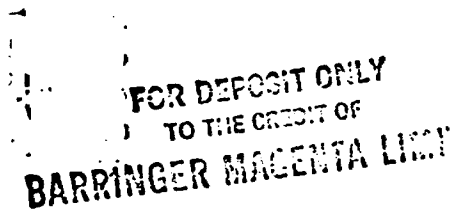
THE SUM 11790 DOLS 70 CTS /100 Dollars

Inv. 9425, 9426, 9440,
9453, 9486, 9379,
9458

COCHRANE OIL & GAS LTD.

⑈06439⑈00 1⑈ 1000⑈ 739⑈ ⑈000 11790 70⑈




FOR DEPOSIT ONLY
TO THE CREDIT OF
BARRINGER MAGENTA LIMI

COCHRANE OIL & GAS LTD.

No. 1165

April 27 1984

PAY TO THE ORDER OF Barringer Magenta Ltd. $ 17,237.50*

REGISTERED A38N81161 17237 DOLS 50 CTS DOLLARS

Inv. #9538, 9539, 9540

BANK OF MONTREAL
400 - 4TH AVE. S.W.
CALGARY, ALBERTA T2P 0J4

COCHRANE OIL & GAS LTD.

per

⑈06439⑈001⑆ 1000⑈739⑈ ⑈0001723750⑈

FOR DEPOSIT ONLY
TO THE CREDIT OF
BARRINGER MAGENTA (UNITED)

MY '84 03
BANK OF MONTREAL
TORONTO REGIONAL
DATA CENTER
04962-001

The First Canadian Bank

Bank of Montreal

Shell Centre
400 - 4 Avenue S.W.
Calgary, Alta. T2P 0J4

Current Account

January 4 1984 No. 919

Pay to the order of Barringer Magenta Limited $ 396.60*

REGISTERED 38N81151 396 DOLS 60 CTS /100 Dollars

Inv. #9511

COCHRANE OIL & GAS LTD.

⑈06439⑈001⑈ ⑆000⑈739⑈ ⑈0000039660⑈

FOR DEPOSIT ONLY
TO THE CREDIT OF
BARRINGER MAGENTA LIMITED

JA '84 13
BANK OF MONTREAL
CALGARY REGIONAL
05669-001

JA '84 13
BANK OF MONTREAL
CALGARY REGIONAL
05669-001

JA '84 12
BANK OF MONTREAL
CALGARY REGIONAL
05669-001

September 5, 1984 File : 2.6542

REGISTERED

Cochrane Oil & Gas Limited
2340 - 1st Avenue S.W.
Calgary, Alberta
T2N 0B8

Dear Sirs:

RE: Geophysical (Electromagnetic & Magnetometer) Survey and Data for Assaying submitted on Mining Claims K 687340 et al in the Areas of Boyer Lake, Harper Lake and Lower Manitou Lake.

Enclosed is a copy of our letter dated July 6, 1984 requesting additional information for the above-mentioned survey.

Unless you can provide the required data by September 14, 1984 the mining recorder will be directed to cancel the work credits recorded on March 19, 1984.

For further information, please contact Mrs. S. Hurst at 416/965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-6918

Encl:

S. Hurst:sc

cc: Nolin Geo Enterprises Limited
Suite 540
707 - 7th Avenue S.W.
Calgary, Alberta
T2P 0Z2
Attn: Mr. Gary Nolin.

cc: Mining Recorder
Kenora

July 6, 1984 File: 2.6542

Cochrane Oil & Gas Ltd
2340 - 1st Avenue N.W.
Calgary, Alberta
T2N 0B8

Dear Sirs:

RE: Geophysical (Electromagnetic and Magnetometer) and Data for Assaying submitted on Mining Claims K 687340 et al in the Areas of Boyer Lake, Harper Lake and Lower Manitou Lake

---

Enclosed are plans, in duplicate, for the above-mentioned Magnetometer and Electromagnetic surveys. On the Magnetometer plans, please plot profiles or have the data contoured. On the Electromagnetic plans please plot the raw reading at each station.

In addition, we require signed receipts or cancelled cheques for $28,691.60 as proof of expenditures for the assay costs.

When submitting the above information, please quote file 2.6542.

For further information, please contact Mr. Ray Pichette at (416)965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-4888

D. Kinvig:mc

cc: Nolin Geo Enterprises Ltd
Suite 540
707 - 7th Avenue S.W.
Calgary, Alberta
T2P 0Z2
Attention: Mr. Gary Nolin

cc: Mining Recorder
Kenora, Ontario

Ontario | Ministry of Natural Resources

Geotechnical Report Approval

File 26542

Mining Lands Comments

- What [illegible] are [illegible] [illegible] survey?
" [illegible] Geochemical survey?
- [illegible] assay values [illegible]?
[illegible]

☑ To: Geophysics MR. BARLOW [illegible]

Comments

VLF MaxMin CEM need readings plotted
check units for Mag maps

☑ Approved ☑ Wish to see again with corrections | Date May 14/84 | Signature R Barlow

☑ To: Geology - Expenditures MR. KUSTRA

Comments

☑ Approved ☐ Wish to see again with corrections | Date April 26/84 | Signature C Kustra

☑ To: Geochemistry DR. FORTESCUE.

Comments

☑ Approved ☐ Wish to see again with corrections | Date April 25th /84 | Signature [illegible] Fortescue

☐ To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

1593 (81/10)

1984 03 30

Your File: 84 to 87 inclusive
Our File: 2.6542

Mr. Wade Mathew
Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5160
Kenora, Ontario
P9N 3X9

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic and Magnetometer), Geological, Geochemical and Data for Assaying Survey submitted on Mining Claims K 687340 et al in the Areas of Harper Lake, Boyer Lake and Lower Manitou Lake.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-6918

A. Barr:mc

cc: Cochrane Oil and Gas Ltd
2340 1st Avenue N.W.
Calgary, Alberta
T2N 0B8

cc: G. Nolin
540 707 7th Avenue S.W.
Calgary, Alberta
T2P 0Z2

NOLIN GEO ENTERPRISES LTD.
540 - 707 - 7th Avenue S. W.,
Calgary, Alberta T2P OZ2.

403

21st February, 1984.

Mining Recorder,
Kenora District,
Box 5080,
KENORA, Ontario,
P9N 3X9.

RECEIVED
MAR 2 6 1984
MINING LANDS SECTION

Attention: Mr. Wade Matthews,
Mining Recorder.

Dear Sir:-

resubmitted as 84-84 85-84 86-84 87-84

Re: Manitou Lakes Project
Assessment Credit under Section
77 - 19 of the Ontario Mining
Act (1983 Edition).

I wish to recommend that the enclosed report be considered and forwarded as a Geoscientific Exploration Study over this large area which is hard to access and difficult to work. We wish to consider the drilling as a separate project and have enclosed covering documents.

This recommendation is based on the large expenditures Cochrane Oil & Gas Ltd. has made as well as their conscientiousness in ensuring the proper exploration and development of the area, often using expensive state of the art equipment and services including computer interpretation and drafting where geologically meaningful.

Respectfully submitted,

NOLIN GEO ENTERPRISES LTD.,

Per: _____
Gary A. Nolin,
P. Geol.

KENORA MINING DIV. RECEIVED MAR 8 1984 4.00 pm AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

GAN/mn

Encl.

Back up for Expenditures

	CR	
0.00		*
2,000.00		+
2,000.00		+
12,537.00		+
28,845.50		+
1,400.00		+
7,525.00		+
136.95		+
403.56		+
1,741.50		+
1,741.50		-
28,753.50		+
396.60		+
17,092.73		+
6,947.50		+
4,007.50		+
6,282.50		+
33,387.00		+
30,393.00		+
46,131.00		+
228,239.34		*

RECEIVED
MAR 26 1984
MINING LANDS SECTION

JUN 10 1983

NOLIN GEO ENTERPRISES LTD.

540, 707 - 7TH AVENUE S.W.
CALGARY, ALBERTA T2P 0Z2
TELEPHONE (403) 264-2742

Cochrane Oil & gas
2340 - 1st. ave NW
Calgary Alta. T2N OB8

Attention: Mr. Geoge Isfan

Re: Manitou Lakes Project

Dear sir,

Enclosed please find the Manitou Lakes Project summer program included with a copy of the OMEP application and supporting documentatiom. Also please find a copy of an inventory of the eqipment in your wharehouse, as well as a list of equipment we are taking with us from your wharehouse.

You will notice that staking costs total $ 28,907.40, also $2,000.00 has been paid to J. Hansen for an airborne survey TRIDEM interpretation, in addition $2,000.00 was paid to Mr. T. Dundas for his magnetic and geologic interpretation. From the $33,000.00 recieved from Cochrane a balance of $92.60 remains, its is therefore important that an addition $20,000.00 be transfered to Sennol - Cochrane account as soon as possible. Looking forward to a sucessful exploration season, will depart Saturday June 12, 1983. We will contact you from the field.

Yours Respectfully

Gary Nolin P. Geo.

AUG 21 1983

#MAN-02

NOLIN GEO ENTERPRISES LTD.

1900, 520 - 5TH AVENUE S.W.
CALGARY, ALBERTA T2P 3R6
TELEPHONE (403) 264-2742

I N T E R I M

I N V O I C E

August 23, 1983

TO: Cochrane Oil & Gas Ltd.
2340 - 1 Avenue N.W.
Calgary, Alberta
T2N 0B8

RE: Manitou Lakes Project
Phase I Summer 1983

We invoice you as follows:

T. Dundas Geophysicist June 12 - June 24, 1983
13 days (which includes 4 days travel time)
@ $350.00 per day.....$ 4,550.00

G. Nolin Geologist in-field management
2 days @ $350.00 per day.....$ 700.00

One Senior Geophysical Technician
13 days @ $175.00 per day.....$ 2,275.00

One Field Assistant
9 days @ $125.00 per day.....$ 1,125.00

Vehicle Mileage Calgary/Dryden Return
3400 kilometers @ $.40 per kilometer.....$ 1,360.00

Vehicle Mileage In Area
600 kilometers @ $.40 per kilometer.....$ 240.00

One 14 Foot Boat with 15 H.P. Motor + Gas
9 days @ $35.00 per day.....$ 315.00

Field and Camp Expenses + Food
37 man days @ $35.00 per day.....$ 1,295.00

One Geonics VLF EM Unit
13 days @ $22.00 per day.....$ 286.00

AUG 24 1983

#MAN-02

NOLIN GEO ENTERPRISES LTD.

1900, 520 - 5TH AVENUE S.W.
CALGARY, ALBERTA T2P 3R6
TELEPHONE (403) 264-2742

I N T E R I M

I N V O I C E

August 23, 1983

TO: Cochrane Oil & Gas Ltd.
RE: Maintou Lakes Project
Phase I Summer 1983

One Geometrics Proton Mag	
13 days @ $22.00 per day	$ 286.50
Motel Accomodations	
2 nights @ $36.75 per night	$ 73.50
1 night @ $31.50 per night	$ 31.50
TOTAL DUE THIS INVOICE	$12,537.00
From $10,000.00 Cash Advance of June 16, 1983	($ 8,500.00)
SUB-BALANCE	$ 4,037.00
From $15,000.00 Cash Advance of July 29, 1983	($ 4,037.00)
GRAND BALANCE	$ 0.00

Gary A. Nolin, P.Geol.

AUG 24 1983

#MAN-03

NOLIN GEO ENTERPRISES LTD.

1900, 520 - 5TH AVENUE S.W.
CALGARY, ALBERTA T2P 3R6
TELEPHONE (403) 264-2742

I N T E R I M

I N V O I C E

August 23, 1983

TO: Cochrane Oil & Gas Ltd.
2340 - 1 Avenue N.W.
Calgary, Alberta
T2N 0B8

RE: Manitou Lakes Project
Phase II Summer 1983

We invoice you as follows:

G. Nolin Geologist Field Management
2 days @ $350.00 per day.....$ 700.00
(travel time no charge)

Albert Von Hoff Geologist June 28 - July 17, 1983
20 days @ $350.00 per day.....$ 7,000.00
Air fare Calgary/Dryden return.....$ 441.00

J. Hansen Geophysicist Field Reconnaissance
2 days @ $350.00 per day.....$ 700.00
(travel time no charge)

One Senior Geological Technician
20 days @ $175.00 per day.....$ 3,500.00

Two Field Assistants
16 days @ $125.00 per day.....$ 4,000.00

One Field Assistant
19 days @ $125.00 per day.....$ 2,375.00

Two Vehicles Calgary/Dryden Return
6800 kilometers @ $.40 per kilometer.....$ 2,720.00

Two Boats One With 15 H.P. Motor, One With 35 H.P. + Gas
19 days @ $70.00 per day.....$ 1,330.00

Two Geonics VLF EM Units
19 days @ $22.00 per day.....$ 836.00

AUG 24 1983

#MAN-03

NOLIN GEO ENTERPRISES LTD.

1900, 520 - 5TH AVENUE S.W.
CALGARY, ALBERTA T2P 3R6
TELEPHONE (403) 264-2742

I N T E R I M

I N V O I C E

August 23, 1983

TO: Cochrane Oil & Gas Ltd.
RE: Manitou Lakes Project
Phase II Summer 1983

Two Geometrics Proton Mags
19 days @ $22.00 per day.....$ 836.00

Fixed Wing Air Transport With Swan Air
as per attached invoice.....$ 1,082.50

Field Camp + Food Expenses
95 man days @ $35.00 per day.....$ 3,325.00

Additional Boat, Lodge and Motel Costs
no charge.....$ 0.00

TOTAL.....$28,845.50

Remaining From $15,000.00 Cash Advance of July 29, 1983.....($10,963.00)

P L E A S E R E M I T.....BALANCE NOW DUE THIS INVOICE...$17,882.50

Gary A. Nolin, P.Geol.

AUG 24 1983

#MAN-01

NOLIN GEO ENTERPRISES LTD.

1900, 520 - 5TH AVENUE S.W.
CALGARY, ALBERTA T2P 3R6
TELEPHONE (403) 264-2742

I N V O I C E

August 23, 1983

TO: Cochrane Oil & Gas Ltd.
2340 - 1 Avenue N.W.
Calgary, Alberta
T2N 0B8

RE: Manitou Lakes Project
Summer 1983

We invoice you as follows:

4 days in Calgary pre-project management and organization
@ $350.00 per day.....$1,400.00

Maps - reports - phone calls - liaison with geophysicists on geophysical interpretation, government and company officials in preparation of forms and paper work
.....no charge.....$ 0.00

TOTAL.....$1,400.00

From $10,000.00 Cash Advance of June 16, 1983.....($1,400.00)

BALANCE DUE THIS INVOICE.....$ 0.00

E.G. Nolin

Gary A. Nolin, P.Geol.

BARRINGER MAGENTA LIMITED

304 CARLINGVIEW DRIVE
METROPOLITAN TORONTO
REXDALE, ONTARIO
CANADA M9W 5G2
PHONE: 416-675-3870
TELEX: 06-989183

SERVICES FOR THE EARTH AND ENVIRONMENTAL SCIENCES

DATE: Septmber 15, 1983
PROJECT: 104.51
PERIOD COVERED:

Nolin Geo Enterprises,
540-707-7 Ave.S.W.
CALGARY, Alberta
T2P 0Z2

SALES ORDER:
PROGRESS BILLING:
SHIPPING REPORT:
WORK REPORT: 83-5376(0467)
FED. SALES TAX: exempt
ONT. SALES TAX: exempt

TERMS: NET 30 days

AUTHORITY: G. Nolin

MAN/dew

TO:

430 humus samples analysed for Au, Ag, As, Hg, Sb @ $ 17.50	$7,525.00	
Total invoice		$7,525.00

INVOICE № 9440

BARRINGER MAGENTA LIMITED

304 CARLINGVIEW DRIVE
METROPOLITAN TORONTO
REXDALE, ONTARIO
CANADA M9W 5G2
PHONE: 416-675-3870
TELEX: 06-989183

SERVICES FOR THE EARTH AND ENVIRONMENTAL SCIENCES

DATE: October 21, 1983

PROJECT: 104.51

PERIOD COVERED:

SALES ORDER:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: 83-5458

FED. SALES TAX: exempt

ONT. SALES TAX: exempt

Nolin Geo Enterprises,
540-707-7 Ave.S.W.
CALGARY, Alberta

TERMS: NET 30 days

AUTHORITY: G. Nolin

TO:

MANITOU

11	Gold assays	@ $ 9.25	$ 101.75	
11	Rock sample preparation	3.20	35.20	
	Total invoice			$ 136.95

INVOICE № 9486

NOLIN GEO ENTERPRISES LTD.

1900, 520 - 5TH AVENUE S.W.
CALGARY, ALBERTA T2P 3R6
TELEPHONE (403) 264-2742

INVOICE November 9, 1983

In Account With

Cochrane Oil & Gas Ltd.
2340 - 1 Avenue N.W.
Calgary, Alberta
T2N 0B8

Attention: Mr. George Isfan
President

RE: Manitou Lakes Project
Field Supervision and Project Management

With regards to the above captioned project, we invoice you as follows:

October 7, 1983 to October 12, 1983

..... N O C H A R G E .....

Expenses

- as per attached receipts.....$403.56

TOTAL AMOUNT DUE THIS INVOICE:.....$403.56

NOLIN GEO ENTERPRISES LTD.

Gary A. Nolin, P.Geol.
President

PAID

Cheque 870 006

Date 28/11/83

403 56

NOLIN GEO ENTERPRISES LTD.

1900, 520 - 5TH AVENUE S.W.
CALGARY, ALBERTA T2P 3R6
TELEPHONE (403) 264-2742

INTERIM

INVOICE

November 24, 1983

TO: Cochrane Oil & Gas Ltd.
2340 - 1 Avenue N.W.
Calgary, Alberta
T2N 0B8

Attention: Mr. George Isfan

RE: Manitou Lakes Project
Giant Claims Grid

We invoice you as follows:

T. Macleod, Geologist, September 27, 1983 to October 20, 1983
26 days (which includes 4 days travel time and 3 days report and map preparation) @ $350.00 per day
.....$ 9,100.00

One Senior Geological Technician/Junior Geologist
23 days (which includes 4 days travel) @ $175.00 per day
.....$ 4,025.00

One Senior Prospector/Geological Technician
18 days (which includes 2 days travel) @ $175.00 per day
.....$ 3,150.00

One Junior Field Assistant
18 days (which includes 2 days travel) @ $125.00 per day
.....$ 2,250.00

Vehicle Mileage Calgary/Dryden Return (truck)
3400 kilometers @ $.40 per kilometer
.....$ 1,360.00

Vehicle Mileage Calgary/Dryden Return (4 x 4 Jeep)
3400 kilometers @ $.40 per kilometer
.....$ 1,360.00

Paid Sept. CN Acct Nov 25/83 C.P.T.

NOLIN GEO ENTERPRISES LTD.

1900, 520 - 5TH AVENUE S.W.
CALGARY, ALBERTA T2P 3R6
TELEPHONE (403) 264-2742

INTERIM INVOICE
TO: Cochrane Oil & Gas Ltd.
RE: Manitou Lakes Project
Giant Claims Grid

Vehicle Mileage In Area
1000 kilometers @ $.40 per kilometer
.....$ 400.00

One 18' Canoe with 2 PH Motor + Gas
19 days @ $25.00 per day
.....$ 475.00

One 14' Boat with 15HP Motor + Gas
10 days @ $35.00 per day
.....$ 350.00

Field, Travel and Camp Expenses + Food
82 man days @ $35.00 per day
.....$ 2,870.00

Two Geonics VLF-EM Units
19 days @ $22.00 per day (each)
.....$ 836.00

Two Geometrics Proton Mags
19 days @ $22.00 per day (each)
.....$ 836.00

Fixed Wing Air Transport With Swan Air (as per attached invoice)
.....$ 1,741.50

Additional Boat, Lodge, Motel, Telephone Calls, and Project Management
.....N O C H A R G E.....$ 0.00

.....P L E A S E R E M I T B A L A N C E D U E.....$28,753.50

Respectively Submitted:

Gary A. Nolin, P.Geol.

Swanair LTD.

BOX 297, DRYDEN, ONTARIO
Telephone (807) 223-4524
Roy E. Swanson, President

DATE: Oct 18/82

M Nolan Geophysical Enterprises
540 - 707 7th Ave SW.
Calgary T2P 0Z2

2% per month on overdue accounts

DATE		CHARGE	PAID	BALANCE
Oct 6	8419	144.00		
9	8425	100.00		
15	8438	320.00		
17	8444	617.50		
18	8452	180.00		
~~Sept 29~~	~~380~~			1361.50
	Sept balance	380.00		
				1741.50
			Paid Nov. 7/83	
			Nolan 800	
			# 216.	

DRYDEN PRINTING SHOP, DRYDEN, ONT. S3-0

BARRINGER MAGENTA LIMITED

304 CARLINGVIEW DRIVE
METROPOLITAN TORONTO
REXDALE, ONTARIO
CANADA M9W 5G2
PHONE 416-675-3870
TELEX 06-989183

SERVICES FOR THE EARTH AND ENVIRONMENTAL SCIENCES

DATE: November 29, 1983

PROJECT: 104.51

PERIOD COVERED:

SALES ORDER:
PROGRESS BILLING:
SHIPPING REPORT:
WORK REPORT: 83-5467
FED. SALES TAX: exempt
ONT. SALES TAX: exempt

Nolin Geo Enterprises,
540-707-7 Ave.S.W.
CALGARY, Alberta
T2P 0Z2

TERMS: NET 30 days

AUTHORITY: G. Nolin

TO:

44	Au analyses	@ $ 5.50	$ 242.00	
6	Ag analyses	2.30	13.80	
44	Rock sample preparation	3.20	140.80	
	Total invoice			$ 396.60

INVOICE № 9511

NOLIN GEO ENTERPRISES LTD.

1900, 520 - 5TH AVENUE S.W.
CALGARY, ALBERTA T2P 3R6
TELEPHONE (403) 264-2742

COPY

I N V O I C E

January 11, 1984

IN ACCOUNT WITH:

Cochrane Oil & Gas Ltd.
2340 - 1 Avenue N.W.
Calgary, Alberta
T2N 0B8

ATTENTION: Mr. George Isfan
President

RE: Manitou Lakes Project Report
Summer and Fall 1983

With regards to the Manitou Lakes Project Report, Nolin Geo Enterprises Ltd. invoices you as follows:

G. Nolin, Geologist, Interprelation and Report	
10 days @ $350.00 per day	$ 3,500.00
G. Nolin, Geologist, Administration and Report	
5 days.....N O C H A R G E	$ 0.00
T. Dundas, Geophysicist, Interprelation and Report	
10 days @ $350.00 per day	$ 3,500.00
T. Dundas, Geophysicist, Interprelation and Report	
5 days.....N O C H A R G E	$ 0.00
Junior Geologist/Senior Technician	
10 days @ $175.00 per day	$ 1,750.00
Junior Geologist/Senior Technician	
5 days.....N O C H A R G E	$ 0.00
SUB-TOTAL	$ 8,750.00

...

NOLIN GEO ENTERPRISES LTD.

1900, 520 - 5TH AVENUE S.W.
CALGARY, ALBERTA T2P 3R6
TELEPHONE (403) 264-2742

January 11, 1984
I N V O I C E
IN ACCOUNT WITH:
Cochrane Oil & Gas Ltd.
RE: Manitou Lakes Project Report
Summer and Fall 1983

Computer Plotting and Analysis
Murex Computer Services Ltd., Invoice #83-011
.....as per copy attached.....$ 6,500.00

Drafting Services
Alliance Drafting Services Inc., Invoice #12580
.....as per copy attached.....$ 126.00

Audrey Law, Independent Draftsperson
.....as per copy attached.....$ 780.00

Report Binders and Map/Document Boxes
Third Party Billing From Black Gold Oil & Gas Ltd.
.....as per copy attached.....$ 136.34

Reproduction
Petro-Tech Printing Ltd., Invoices #D6391, #D7286, #D7333, #D7331, and #D7486
.....as per copies attached.....$ 800.39

P L E A S E R E M I T.....GRAND TOTAL THIS INVOICE..$17,092.73

NOLIN GEO ENTEPRISES LTD.

Gary A. Nolin, P.Geol.
President

(1)

MUREX COMPUTER SERVICES LTD.

Invoice

SUITE 540, 707-7 AVENUE S.W. CALGARY, ALBERTA T2P OZ2 TELEPHONE 403 266-4222

NOLIN GEO ENTERPRISES LTD.
540 - 707 - 7th. Ave S.W.
Calgary

ATTN: Gary Nolin

NUMBER: 83-011

DATE Jan 6th/84

TERMS: NET 30 DAYS.

DATE	CUSTOMER ORDER #	DESCRIPTION	UNIT AMOUNT	TOTAL
		Re: Plotting Manitou Lakes Project		
		Data input and editing - Technician 10 day	$150.00	$1,500.00
		Computer time - input etc. 30 hrs.	$ 50.00	$1,500.00
		Plotter paper 4 rolls	$200.00	$ 800.00
		Plotter time 25 hrs.	$100.00	$2,500.00
		Word Proc. (report) - Time + materials		$ 200.00
		TOTAL		$6,500.00
			TOTAL	

ALLIANCE DRAFTING
SERVICES INC
540-707-7 AVE SW

ORDER NO. NOLAN GEO ENT. DATE JAN 3 19 84

SOLD TO NOLAN GEO ENTERPRISES

ADDRESS

SHIP TO

ADDRESS

WHEN SHIP	HOW SHIP	TERMS	BUYER	SALESMAN

		TO DRAFTING SERVICES FOR			
		MINNOW LAKE AREA			
		JAN 2 1100-600 7 HRS @			
		18/HR.		126	00
		TOTAL		126	00

12580

SIGNATURE

D22

NOV 20, 1983

INVOICE TO NOLIN GEO ENTERPRISES LTD
ATT: GARY NOLIN

DRAFTING CHARGES FOR
MANITOU LAKE PROSPECT

52 HOURS AT $15.00
$780.00

AUDREY LAW
1417 HUNTERBROOK RD NW
CAL, ALTA
274-6387

BLACK GOLD OIL & GAS LTD.

1900, 520 - 5TH AVENUE S.W
CALGARY, ALTA. T2P 3R
TELEPHONE: (403) 262-247

I N V O I C E

January 9, 1984

IN ACCOUNT WITH:

Nolin Geo Enterprises Ltd.
1900, 520 - 5th Avenue S.W.
Calgary, Alberta
T2P 3R6

RE: Grand & Toy Limited charges paid on your behalf as per your requested order for 8 map/document cases and 8 2" brown binders ...invoice copies attached...

8 map/document cases.....	$ 64.26
8 2" brown binders.....	$ 72.08
TOTAL DUE THIS INVOICE.....	$136.34

DATE 11-28/83

PETRO-TECH PRINT. .G LTD.

621 - 4th AVENUE S.W., CALGARY, ALBERTA T2P 0K2

NOLIN GEO ENTERPRISES LTD.
1900 520 - 5 AVE SW
T2P 3R6

1399

PHONE 266-1651

TIME REQUIRED	DATE	TIME	P.O. NO.

No. of Originals	No. Prints of each	DESCRIPTION			Sq. Ft. EACH	TOTAL Sq. Ft.	UNIT PRICE	TOTAL
1	8	DRIPRINTS	Blue / Black (circled)	Plasticoat / Prefold		132.0		25 0[illegible]
		SEPIAS	Single Coat / Albanized / Mylar	Reverse / Face Up				
		FILM	Neg. / Pos. / Hispeed	Reverse / Face Up				
		XEROX 2080	Bond / Vellum	Reverse / Face Up				
		FRAME	With Overlay	Without				
		BINDING	Staple	Cerlox				
		ELECTRO COPIES OTHERS	8½ x 11 / 8½ x 14 / 11 x 17	Bond / Stock Supplied				

REMARKS OR INSTRUCTIONS Paid Nov 28, 1983 [illegible]

Sub-Total	25 0[illegible]
F.S.T	2 2[illegible]
TOTAL	27 3[illegible]

"Where Service Makes a World of Difference"

INVOICE **D** 6391

TERMS NET 30 DAYS

DATE: Jan 3/83

PETRO-TECH PRINT..G LTD.

621 - 4th AVENUE S.W., CALGARY, ALBERTA T2P 0K2

Nolin Geo Enterprises LTd.
1900 - 520 - 5 Ave S W.
T2P - 3R0.

13409

PHONE
266-1651 -
273-599

TIME REQUIRED | DATE Attn Gary | TIME, Nolin | P.O. NO.

No. of Originals	No. Prints of each	DESCRIPTION			Sq. Ft. EACH	TOTAL Sq. Ft.	UNIT PRICE	TOTAL
2	10	DRIPRINTS	Blue / (Black)	Plasticoat / (Prefold)		3220		77.2
2	4	SEPIAS	Single Coat / (Albanized) / (Mylar)	(Reverse)		128.8		161.00
2	1			Face Up 003		32.2		96.60
		FILM	Neg. / Pos. / Hispeed	Reverse / Face Up				
		XEROX 2080	Bond / Vellum	Reverse / Face Up				
2	1	FRAME	With Overlay	(Without)				40.00
2	4	BINDING	Staple	Cerlox		Tests		4.00
		ELECTRO COPIES OTHERS	8½ x 11 / 8½ x 14 / 11 x 17	Bond / Stock Supplied				255

REMARKS OR INSTRUCTIONS

Thanks Kindly. Melinda Leach Jan. 8/84

Sub-Total	338.85
G.S.T.	34.10
TOTAL	412.51

"Where Service Makes a World of Difference"

INVOICE D 7286

TERMS NET 30 DAYS

DATE: Jan. 4/85

PETRO-TECH PRINTING LTD.

621 - 4th AVENUE S.W., CALGARY, ALBERTA T2P 0K2

Kilin Geo Enterprises Ltd.
1900, 520 - 5 Ave. S.W.
T2P - 326

PHONE 266-1651

13519

TIME REQUIRED	DATE	TIME	P.O. NO.

No. of Originals	No. Prints of each	DESCRIPTION			Sq. Ft. EACH	TOTAL Sq. Ft.	UNIT PRICE	TOTAL
1	10	DRIPRINTS	Blue / (Black)	Plasticoat / (Prefold)	24	240		58.50
1	2 / 1	SEPIAS	Single Coat / (Albanized) / (Mylar)	(Reverse) / Face Up	48.8 / 24.4			68.32 / 73.20
		FILM	Neg. / Pos. / Hispeed	Reverse / Face Up				
		XEROX 2080	Bond / Vellum	Reverse / Face Up				
1	3	(FRAME) / BINDING	With Overlay / Staple	(Without) / Cerlox	2 feet			12.00 / 4.68
		ELECTRO COPIES OTHERS	8½ x 11 / 8½ x 14 / 11 x 17	Bond / Stock Supplied				#20.25

REMARKS OR INSTRUCTIONS

Thanks Kirsti, Melissa Jan. 8/85

Sub-Total	216.05
G.S.T.	19.45
TOTAL	2355

"Where Service Makes a World of Difference"

PAID

INVOICE D 7333

TERMS NET 30 DAYS

DATE Jan. 4/84

PETRO-TECH PRINT. G LTD.

621 - 4th AVENUE S.W., CALGARY, ALBERTA T2P 0K2

Nolin Geo Enterprises Ltd.
1900 520 - 5 Ave SW
T2P-3R6

PHONE 266-1651

1399

TIME REQUIRED	DATE	TIME	P.O. NO.
		8:00	

No. of Originals	No. Prints of each	DESCRIPTION			Sq. Ft. EACH	TOTAL Sq. Ft.	UNIT PRICE	TOTAL
1 - 10		DRIPRINTS	Blue / (Black)	Plasticoat / (Prefold)		100.0		20.00
1 - 2		SEPIAS	Single Coat / (Albanized) / (Mylar)	(Reverse) / Face Up		30.2		28.28
1 - 1					10.1			30.30
		FILM	Neg. / Pos. / Hispeed	Reverse / Face Up				
		XEROX 2080	Bond / Vellum	Reverse / Face Up				
1 - 3		(FRAME)	With Overlay	(Without)				12.00
					2 Test			4.00
		BINDING	Staple	Cerlox				
		ELECTRO COPIES OTHERS	8½ x 11 / 8½ x 14 / 11 x 17	Bond / Stock Supplied				

REMARKS OR INSTRUCTIONS

Nolin Geo. Ltd. #25
Jan 8/84

Thanks Kindly

Sub-Total	94.58
P.S.T.	8.55
TOTAL	103.00

"Where Service Makes a World of Difference"

PAID

INVOICE D 7331

TERMS NET 30 DAYS

DATE Jan 9/84

PETRO-TECH PRINT. G LTD.

621 - 4th AVENUE S.W., CALGARY, ALBERTA T2P 0K2

NOCIN ENTERPRISES LTD.
1700 - 320 - 5 Ave. S.W.
T2P - 3K6

PHONE 266-1651

1399

RECEIVED JAN 9 1984

TIME REQUIRED	DATE	P.O. NO.

No. of Originals	No. Prints of each	DESCRIPTION			Sq. Ft. EACH	TOTAL Sq. Ft.	UNIT PRICE	TOTAL
1	6	DRIPRINTS	Blue / (Black)	Plasticoat / Prefold		98.4		19.68
		SEPIAS	Single Coat Albanized Mylar	Reverse / Face Up				
		FILM	Neg. / Pos. / Hispeed	Reverse / Face Up				
		XEROX 2080	Bond / Vellum	Reverse / Face Up				
		FRAME	With Overlay	Without				
		BINDING	Staple	Cerlox				
		ELECTRO COPIES OTHERS	8½ x 11 / 8½ x 14 / 11 x 17	Bond / Stock Supplied				

REMARKS OR INSTRUCTIONS

Nocin Ent Ltd #255
Jan 8/84

Sub-Total	19.68
F.S.T.	1.97
TOTAL	21.65

"Where Service Makes a World of Difference"

INVOICE D 7486

TERMS NET 30 DAYS

BARRINGER MAGENTA LIMITED

304 CARLINGVIEW DRIVE
METROPOLITAN TORONTO
REXDALE, ONTARIO
CANADA M9W 5G2
PHONE: 416-675-3870
TELEX: 06-989183

SERVICES FOR THE EARTH AND ENVIRONMENTAL SCIENCES

DATE: December 30, 1983

PROJECT: 104.51

PERIOD COVERED:

SALES ORDER:
PROGRESS BILLING:
SHIPPING REPORT:
WORK REPORT: 83-0715(5468)
FED. SALES TAX: exempt
ONT. SALES TAX: ex empt

Nolin Geo Enterprises,
540-707-7 Ave.S.W.
CALGARY, Alberta
T2P 0Z2

TERMS: NET 30 days

AUTHORITY: G. Nolin

TO:

397	Au,Ag,As,Hg,Sb analyses	@ $ 15.50	$6,153.50	
397	sample preparation	2.00	794.00	
	Total invoice			$6,947.50

MANITOU.

INVOICE № 9539

BARRINGER MAGENTA LIMITED

304 CARLINGVIEW DRIVE
METROPOLITAN TORONTO
REXDALE, ONTARIO
CANADA M9W 5G2
PHONE: 416-675-3870
TELEX: 06-989183

SERVICES FOR THE EARTH AND ENVIRONMENTAL SCIENCES

DATE: December 30, 1983

PROJECT: 104.51

PERIOD COVERED:

SALES ORDER:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: 83-0791(5507)

FED. SALES TAX: exempt

ONT. SALES TAX: exempt

- Nolin Geo Enterprises,
  540-707-7 Ave.S.W.
- CALGARY, Alberta
  T2P 0Z2
-

TERMS: NET 30 days

AUTHORITY: G. Nolin

TO:

229	Au,Ag,As,Hg,Sb	analyses @ $ 15.50	$3,549.50	
229	Sample preparation	2.00	458.00	
	Total invoice			$4,007.50

MANITOW

INVOICE № 9538

BARRINGER MAGENTA LIMITED

304 CARLINGVIEW DRIVE
METROPOLITAN TORONTO
REXDALE, ONTARIO
CANADA M9W 5G2
PHONE: 416-675-3870
TELEX: 06-989183

SERVICES FOR THE EARTH AND ENVIRONMENTAL SCIENCES

DATE: December 30, 1983

PROJECT: 104.51

PERIOD COVERED:

SALES ORDER:
PROGRESS BILLING:
SHIPPING REPORT:
WORK REPORT: 83-0792(5487)
FED. SALES TAX: exempt
ONT. SALES TAX: exempt

- Nolin Geo Enterprises,
  540-707-7 Ave.S.W.
- CALGARY, Alberta
  T2P 0Z2
-

TERMS: NET 30 days

AUTHORITY: G. Nolin

TO:

359	Au,Ag,As,Hg,Sb analyses	@ $ 15.50	$5,564.50	
359	sample preparation	2.00	718.00	
	Total invoice			$6,282.50

MANITOU

INVOICE № 9540

JAN 17 '84

NOLIN GEO ENTERPRISES LTD.

1900, 520 - 5TH AVENUE S.W.
CALGARY, ALBERTA T2P 3R6
TELEPHONE (403) 264-2742

I N V O I C E

January 15, 1984

IN ACCOUNT WITH:

Cochrane Oil & Gas Ltd.
2340 - 1 Avenue N.W.
Calgary, Alberta
T2N 0B8

Attention: Mr. George Isfan
President

RE: Manitou Lakes Winter 1984 Exploration Program

With regards to the Manitou Lakes 1984 Exploration Program as captioned above, Nolin Geo Enterprises Ltd. invoices you as follows:

G. Nolin, Geologist, Pre-Project Preparation and Ongoing Management
4 days @ $350.00 per day.....$ 1,400.00

M. Fox, Senior Project Geologist
January 9 to January 15, 1984
7 days @ 350.00 per day.....$ 2,450.00

T. Dundas, Geophysicist
January 15, 1984
1 day @ $350.00 per day.....$ 350.00

T. Dundas, Air Canada Flight Tickets
Calgary/Dryden/Calgary
Total.....$ 461.00

4 Senior Geophysical/Geological Technicians
7 days @ $175.00 per day.....$ 4,900.00

2 Field Assistants
7 days @ $125.00 per day.....$ 1,750.00

2 Alpine Double Track Snow Mobiles
January 9 to February 9, 1984
1st month @ $1,800.00 per month.....$ 3,600.00

NOLIN GEO ENTERPRISES LTD.

1900, 520 - 5TH AVENUE S.W.
CALGARY, ALBERTA T2P 3R6
TELEPHONE (403) 264-2742

I N V O I C E
IN ACCOUNT WITH
Cochrane Oil & Gas Ltd.
Attention: Mr. George Isfan
RE: Manitou Lakes Winter 1984 Exploration Program

2 Alpine Snow Mobiles - Insurance, Gas & Oil 30 days @ $15.00 per day	$ 900.00
3 Single Track Skandic-Type Snow Mobiles January 9 to February 9, 1984 1st month @ $1,400.00 per month	$ 4,200.00
1 Winkie Drill 1 month @ $2,000.00 per month	$ 2,000.00
3 Skandic-Type Snow Mobiles, Insurance, Gas & Oil 30 days @ $10.00 per day	$ 900.00
3 Heavy Duty Sleighs 1 month @ $160.00 per month	$ 480.00
2 Snow Mobile Trailers 1 month @ $270.00 per month	$ 540.00
1 Snow Mobile Trailer 3 days @ $20.00 per day	$ 60.00
1 Arctic Camp Including Fuel Oil, Generator, Insurance on all Equipment 1 month @ $3,000.00 per month	$ 3,000.00
Food and Field Expendable Material and Equipment 50 man days @ $45.00 per day	$ 2,250.00
2 Geonics VLF-EM Units 7 days @ $22.00 per day	$ 308.00
2 Geometric Proton Mags 7 days @ $22.00 per day	$ 308.00
1 Crone Shook Back EM System 7 days @ $50.00 per day	$ 350.00
1 APEX MaxMin System - stand by rate 1 month @ $1,500.00 per month	$ 1,500.00

NOLIN GEO ENTERPRISES LTD.

1900, 520 - 5TH AVENUE S.W.
CALGARY, ALBERTA T2P 3R6
TELEPHONE (403) 264-2742

I N V O I C E
IN ACCOUNT WITH
Cochrane Oil & Gas Ltd.
Attention: Mr. George Isfan
RE: Manitou Lakes Winter 1984 Exploration Program

Vehicle Mileage Calgary/Dryden
1 Jeep and 1 Truck
3400 kilometers @ $.40 per kilometer.....$ 1,360.00

Vehicle Mileage in Area
800 kilometers @ $.40 per kilometer.....$ 320.00

P L E A S E R E M I T.....GRAND TOTAL THIS INVOICE $33,387.00

FEB 2 1984

NOLIN GEO ENTERPRISES LTD.

1900, 520 - 5TH AVENUE S.W.
CALGARY, ALBERTA T2P 3R6
TELEPHONE (403) 264-2742

I N V O I C E February 1, 1984

IN ACCOUNT WITH:

Cochrane Oil & Gas Ltd.
2340 - 1 Avenue N.W.
Calgary, Alberta
T2N 0B8

ATTENTION: Mr. George Isfan
President

RE: Manitou Lakes Winter 1984 Exploration Program
Period for Billing January 16, 1984 to January 31, 1984

With regards to the Manitou Lakes 1984 Exploration Program as captioned above, Nolin Geo Enterprises Ltd. invoices you as follows:

G. Nolin, Geologist, Pre-Project Preparation and Ongoing Management
2 days @ $350.00 per day.....$ 700.00

M. Fox, Senior Project Geologist
January 16 to January 31
16 days @ $350.00 per day.....$ 5,600.00

T. Dundas, Geophysicist
January 16 to January 22
7 days @ $350.00 per day.....$ 2,450.00

4 Senior Geophysical/Geological Technicians
January 16 to January 31
16 days @ $175.00 per day.....$11,200.00

1 Field Assistant
January 16 to January 31
16 days @ $125.00 per day.....$ 2,000.00

1 Field Assistant
8 days @ $125.00 per day.....$ 1,000.00

NOLIN GEO ENTERPRISES LTD.

1900, 520 - 5TH AVENUE S.W.
CALGARY, ALBERTA T2P 3R6
TELEPHONE (403) 264-2742

February 1, 1984

I N V O I C E

IN ACCOUNT WITH
Cochrane Oil & Gas Ltd.
ATTENTION: Mr. George Isfan
RE: Manitou Lakes Winter 1984 Exploration Program
Period for Billing January 16, 1984 to January 31, 1984

Food and Field Expendable Material and Equipment	
111 man days @ $45.00 per day	$ 4,995.00
2 Geonics VLF-EM Units	
January 16 to January 31	
16 days @ $22.00 per day	$ 704.00
2 Geometric Proton Mags	
January 16 to January 31	
16 days @ $22.00 per day	$ 704.00
1 Crone Shook Back EM System	
January 16 to January 31	
16 days @ $50.00 per day	$ 800.00
1 Vehicle Mileage in Area	
600 Kilometers @ $.40 per kilometer	$ 240.00
P L E A S E R E M I T.....GRAND TOTAL THIS INVOICE..	$30,393.00

NOLIN GEO ENTERPRISES LTD.

Gary A. Nolin, P.Geol.
President

NOLIN GEO ENTERPRISES LTD.
540 - 707 - 7th Avenue S.W.,
Calgary, Alberta T2P OZ2.

I N V O I C E

February 21, 1983

IN ACCOUNT WITH:

Cochrane Oil & Gas Ltd.,
2340 - 1st Avenue N.W.,
CALGARY, Alberta,
T2N OB8

ATTENTION: Mr. George Isfan,
President.

RE: Manitou Lakes Winter 1984 Exploration Program
Period for Billing February 1, 1984 to February 21, 1984.

With regards to the Manitou Lakes 1984 Exploration Program as captioned above, Nolin Geo Enterprises Ltd. invoices you as follows:

G. Nolin, Geologist, Friday Feb. 10 to Friday Feb. 17 - 8 field days Sat. Feb. 18 to Mon. Feb. 20 Interpretation and report writing - 3 days	$ 3,850.00
M. Fox, Senior Project Geologist Feb. 1 to Feb. 21 21 days at $350.00 per day	7,350.00
T. Dundas, Geophysicist Feb. 18 - 19 2 days at $350.00 per day	700.00
2 Senior Geophysicists Feb. 1 to Feb. 17 2 x 17 days at $175.00 per day	5,950.00

...../2

2 Senior Geophysical Technicians Feb. 1 to Feb. 21	$ 7,350.00
1 Field Assistant Feb. 4 - Feb. 21 17 x $125.00 per day	2,125.00
1 Field Assistant Feb. 11 - Feb. 21 10 x $125.00 per day	1,250.00
1 Field Assistant Feb. 14 - Feb. 17 4 x $125.00 per day	500.00
Food and Field Expendible material and equipment 2 Geonics VLF - EM Feb. 1 to Feb. 17 21 days @ $22.00 per day	748.00
2 Mags - Feb. 1 to 17	748.00
1 Crone Shoot Back EM System Feb. 1 to Feb. 17	1,020.00
2 Alpine Snowmobiles monthly rental $1,800.00 or $600.00 weekly	3,600.00
2 Skandic Snowmobiles $1,400.00 per month or $350.00 weekly	2,800.00
1 APEX Max Min EM system standby rate 1 month at $1,500.00 per month or $500.00 per week	1,500.00
1 Arctic camp including fuel, Generator, chain saws	3,000.00

...../3

Food and Field Expendible material payment on account	$ 3,000.00
Vehicle mileage in area 800 km @ .40 per km	320.00
2 snowmobile trailers 1 month at $270.00 per month 2 heavy duty sleighs 1 month at $160.00 per month	320.00
PLEASE REMIT GRAND TOTAL THIS INVOICE	$ 46,131.00

NOLIN GEO ENTERPRISES LTD.

Gary A. Nolin, P. Geol.,
President.

UKIK LAKE M-2668

BUNYAN LAKE M-2618

BARKER BAY - M. 2570

MANG LAKE - M.2463

GRAVEL FILE 137297

GRAVEL F 137297 S 19

GRAVEL F 137297

LEUILLER

QUEEN ALEXANDRA

THIS PEZ-TECK

NOT PEZ-TECK

GLASS REEF

Wawopus Lake

Butterfly Lake

Pothole Lake

Osipasinni L.

Little Merrill L.

Kamini Lake

Sandpiper Pt

Olson Bay

Nomiwi L.

Harper Lake

Mitchell Lake

Upper Manitou Lake

Jonas Lake

Kirkby Lake

Uphill Lake

Scattergood Bay

Ponto Lake

Noonan Lake

Montumeg Lake

Jonnar Lake

Trouter Lake

Doyle Lake

Island 734948

Manitou 440370

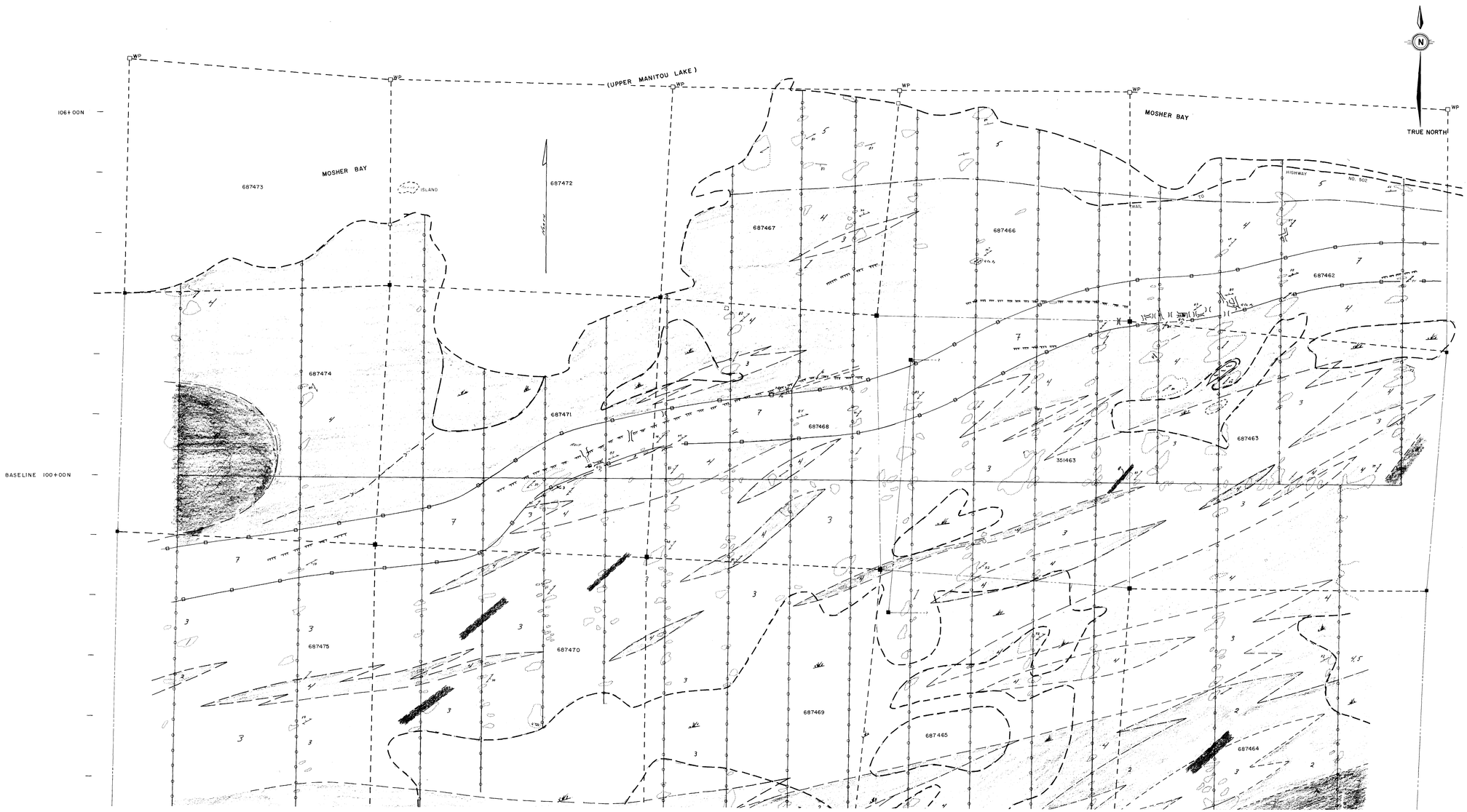
Rector 364418

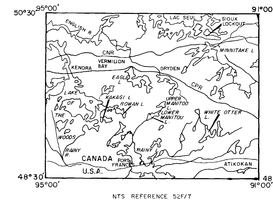
93°00' 59' 58' 57' 56' 55' 54' 53' 52' 51' 50' 49' 48' 47' 46' 92°45'

49°15'

52F07NW0023 2.6542 HARPER LAKE

200



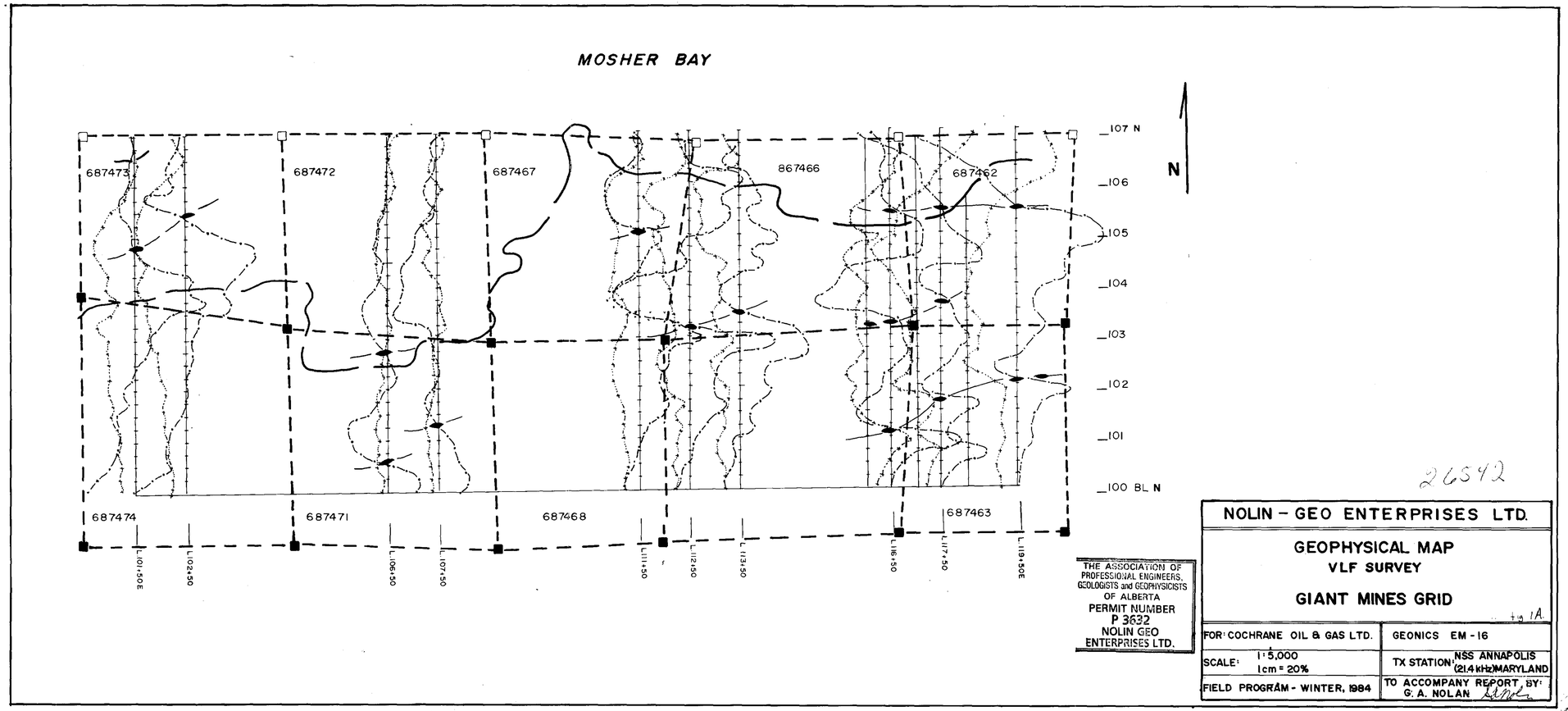


NTS REFERENCE 52F/7

LEGEND

ARCHEAN

- 1a ANDESITIC FLOWS; 1b VOLCANIC CONGLOMERATE
- 2 GREYWACKE SILTSTONE
- 3 POLYMICTIC CONGLOMERATE; SANDSTONE, SILTSTONE
- 4 ARKOSIC SANDSTONE; SILTSTONE; MINOR LITHIC EQUIVALENTS
- 5 ARGILLITE; SILTSTONE
- 6 BRANDED IRON FORMATION
- 7 SHEARED EQUIVALENTS OF UNITS 2 THROUGH 6 (INCL.):
  - 7a QUARTZ - BIOTITE - CHLORITE SCHIST;
  - 7b QUARTZ - SERICITE - BIOTITE SCHIST;
  - 7c QUARTZ - SERICITE - CHLORITE SCHIST;
- QUARTZ AND QUARTZ FELDSPAR PORPHYRY - INTRUSIVE CONTACT -
- BIOTITE - CHLORITE ISOGRAD
- GRID LINE
- CLAIM LINE
- TOWNSHIP LINE
- 710307 CLAIM NUMBER
- CLAIM POST
- WP WITNESS POST
- STATION
- FAULT
- CONDUCTOR
- OUTCROP EXPOSURE
- BEDDING (INCLINED, VERTICAL, DIP UNKNOWN)
- FOLIATION (INCLINED; VERTICAL, DIP UNKNOWN)
- SCHISTOCITY (INCLINED)
- Q Co QUARTZ AND QUARTZ - CALCITE VEIN
- GEOLOGICAL CONTACT (KNOWN; INFERRED, GRADIATIONAL
- TRENCH
- ADIT
- SHAFT
- FOOT OF STEEP INCLINE (BARBS POINT UPHILL)
- MARSH
- Fe IRON
- Co CALCITE
- Q QUARTZ
- Py PYRITE



THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS and GEOPHYSICISTS OF ALBERTA
PERMIT NUMBER
P 3632
NOLIN GEO ENTERPRISES LTD.

26542

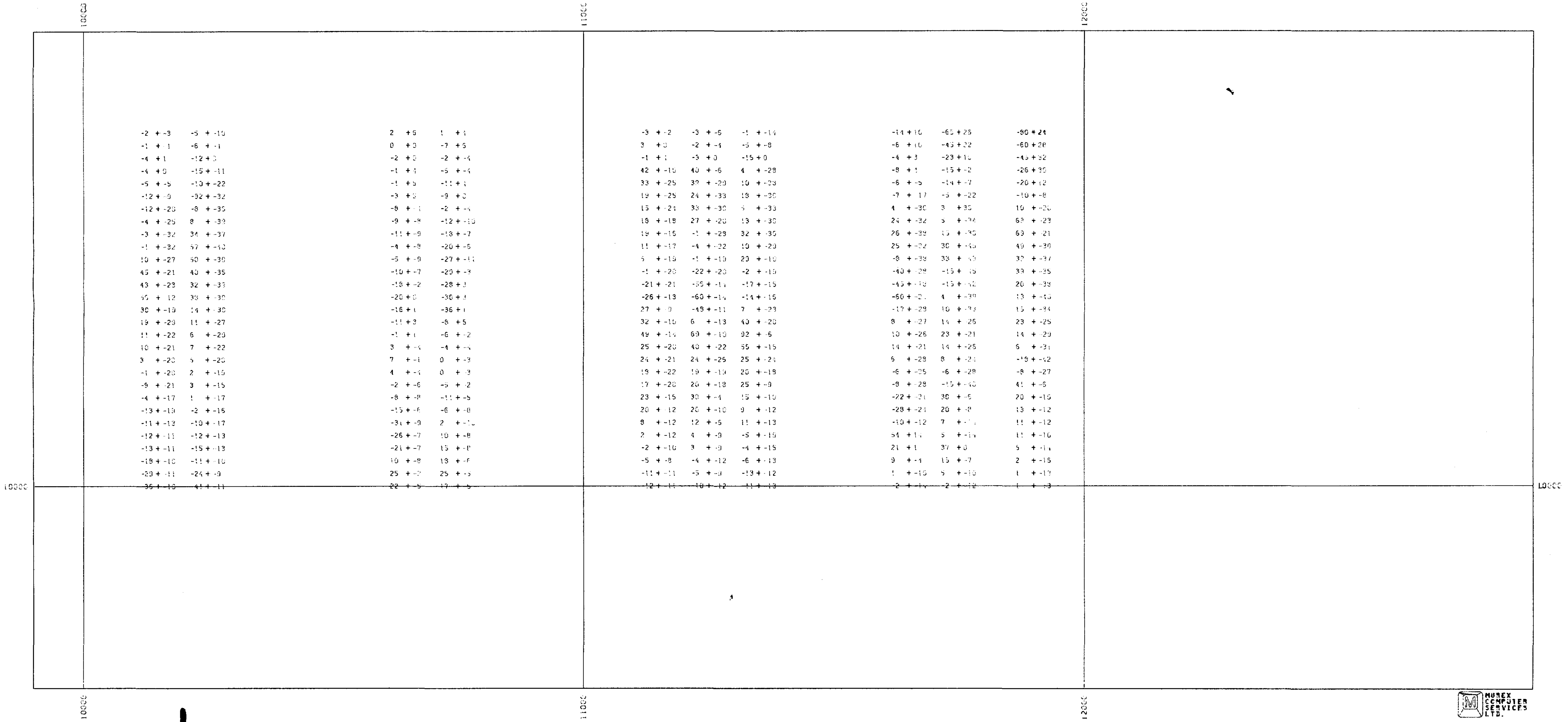
NOLIN - GEO ENTERPRISES LTD.

GEOPHYSICAL MAP
VLF SURVEY
GIANT MINES GRID

fig 1A.

FOR: COCHRANE OIL & GAS LTD.	GEONICS EM - 16
SCALE: 1 : 5,000 1cm = 20%	TX STATION: NSS ANNAPOLIS (21.4 kHz) MARYLAND
FIELD PROGRAM - WINTER, 1984	TO ACCOMPANY REPORT, BY: G. A. NOLAN

(2)



SCALE 1:5000

0 100 200 300 400 500 meters

COCHRANE OIL and GAS

2.6542

VLF DATA - GIANT

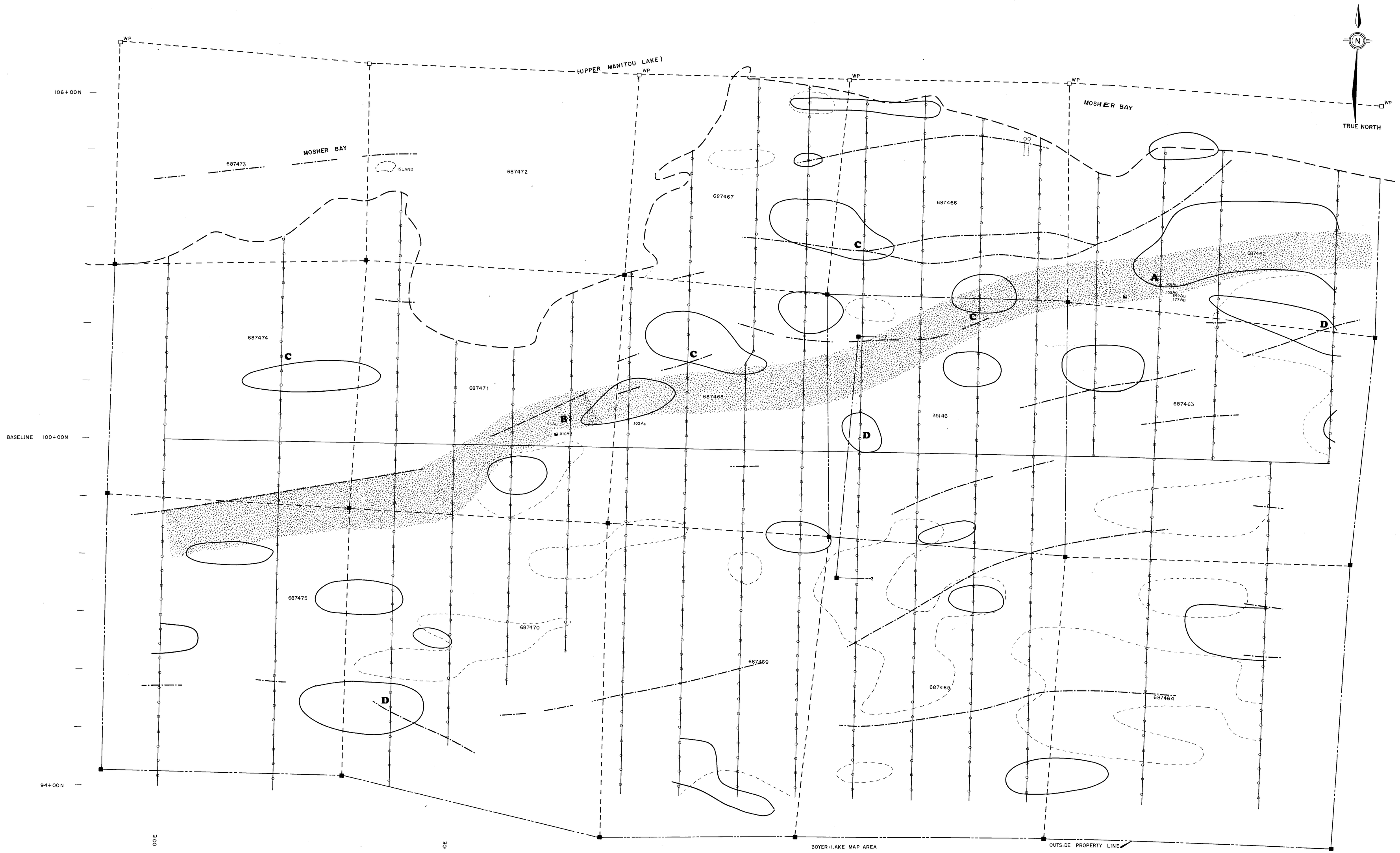
TO ACCOMPANY REPORT BY:

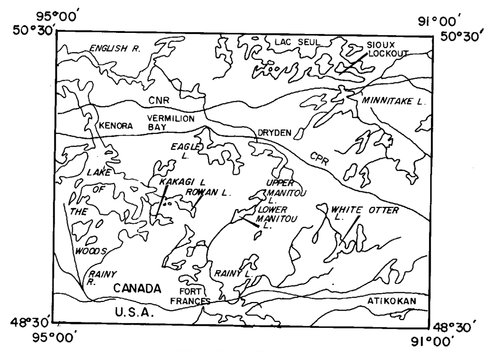
1B

MUREX COMPUTER SERVICES LTD.

52F07NW0023 2.6542 HARPER LAKE

230





LEGEND

ARCHEAN

- 1 — 1a ANDESITIC FLOWS; 1b VOLCANIC CONGLOMERATE
- 2 — GREYWACKE SILTSTONE
- 3 — POLYMICTIC CONGLOMERATE; SANDSTONE, SILTSTONE
- 4 — ARKOSIC SANDSTONE; SILTSTONE; MINOR LITHIC EQUIVALENTS
- 5 — ARGILLITE; SILTSTONE
- 6 — BRANDED IRON FORMATION
- 7 — SHEARED EQUIVALENTS OF UNITS 2 THROUGH 6 (INCL.):
  - 7a QUARTZ - BIOTITE - CHLORITE SCHIST;
  - 7b QUARTZ - SERICITE - BIOTITE SCHIST;
  - 7c QUARTZ - SERICITE - CHLORITE SCHIST;
- 8 — QUARTZ AND QUARTZ FELDSPAR PORPHYRY
- INTRUSIVE CONTACT
- BIOTITE - CHLORITE ISOGRAD
- GRID LINE
- CLAIM LINE
- TOWNSHIP LINE
- 710307 CLAIM NUMBER
- CLAIM POST
- WP WITNESS POST
- STATION
- FAULT
- CONDUCTOR
- OUTCROP EXPOSURE
- BEDDING (INCLINED, VERTICAL, DIP UNKNOWN)
- FOLIATION (INCLINED; VERTICAL, DIP UNKNOWN)
- SCHISTOCITY (INCLINED)
- Q Ca QUARTZ AND QUARTZ - CALCITE VEIN
- GEOLOGICAL CONTACT (KNOWN; INFERRED, GRADATIONAL)
- TRENCH
- ADIT
- SHAFT
- FOOT OF STEEP INCLINE (BARBS POINT UPHILL)
- MARSH
- Fe IRON
- Ca CALCITE
- Q QUARTZ
- Py PYRITE
- VALID CLAIM POST AND LINE

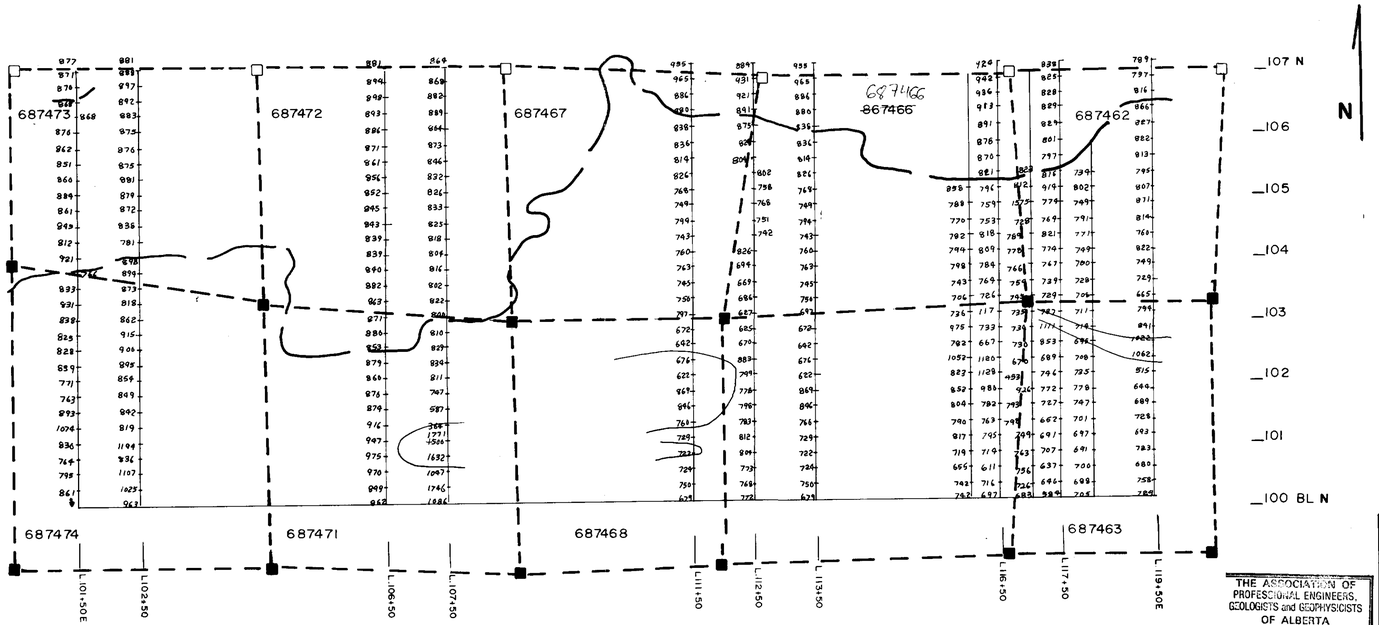
NOTE: ONLY EXTERNAL BOUNDARY LINES ARE SHOWN

- LAPSED CLAIM POST
- ARSENIC ↑3.0 ppm
- MERCURY ↑200 ppb

SCALE: 1: 2000

0 25 50 75 100 METERS

MOSHER BAY



THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS and GEOPHYSICISTS OF ALBERTA
PERMIT NUMBER
P 3632
NOLIN GEO ENTERPRISES LTD.

26542

NOLIN - GEO ENTERPRISES LTD.

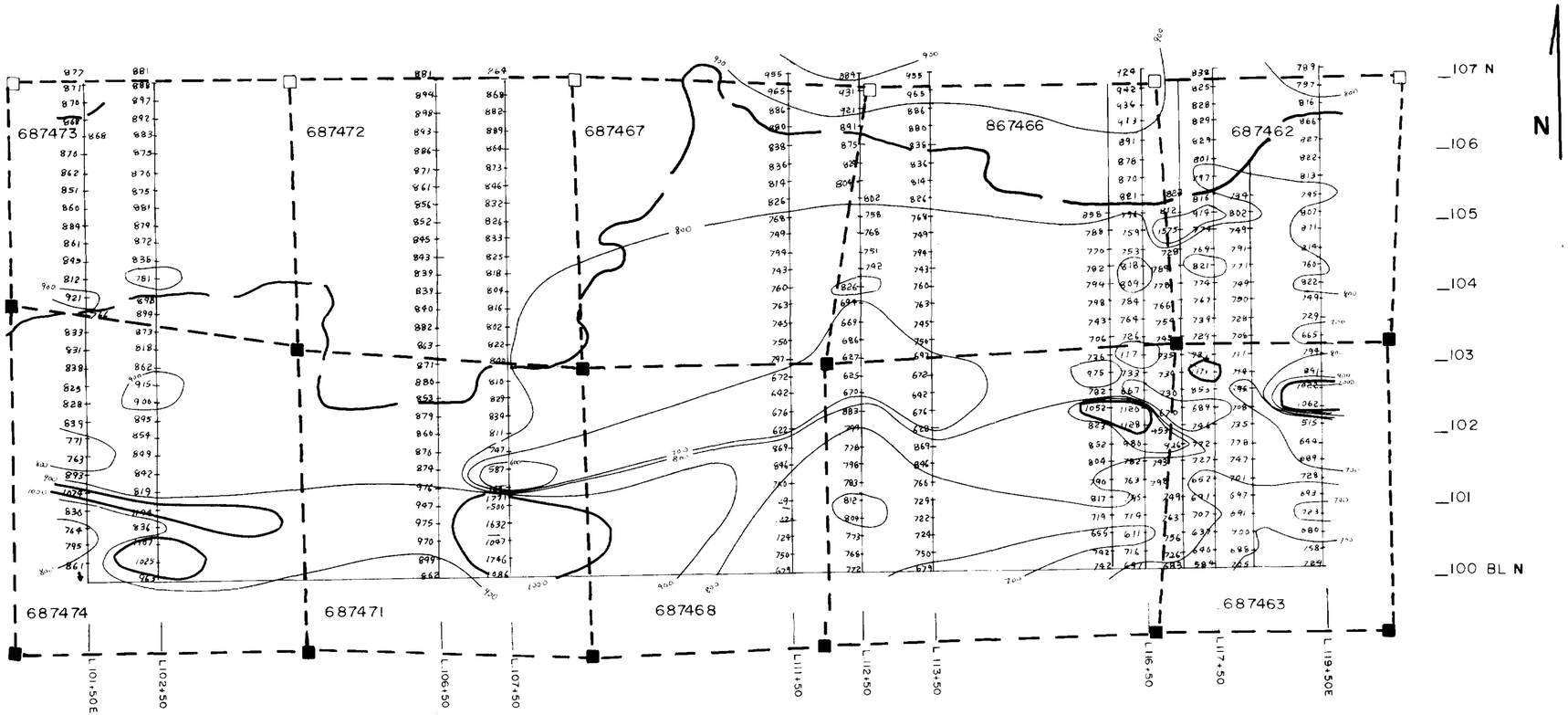
GEOPHYSICAL MAP
MAGNETOMETER SURVEY
Values
GIANT MINES GRID

Fig 2A

FOR: COCHRANE OIL & GAS LTD.	GEOMETRICS PROTON PRECESSION G816 MAGNETOMETER
SCALE: 1:5,000	
FIELD PROGRAM - WINTER, 1984	TO ACCOMPANY REPORT BY: G. A. NOLAN

(2)

MOSHER BAY

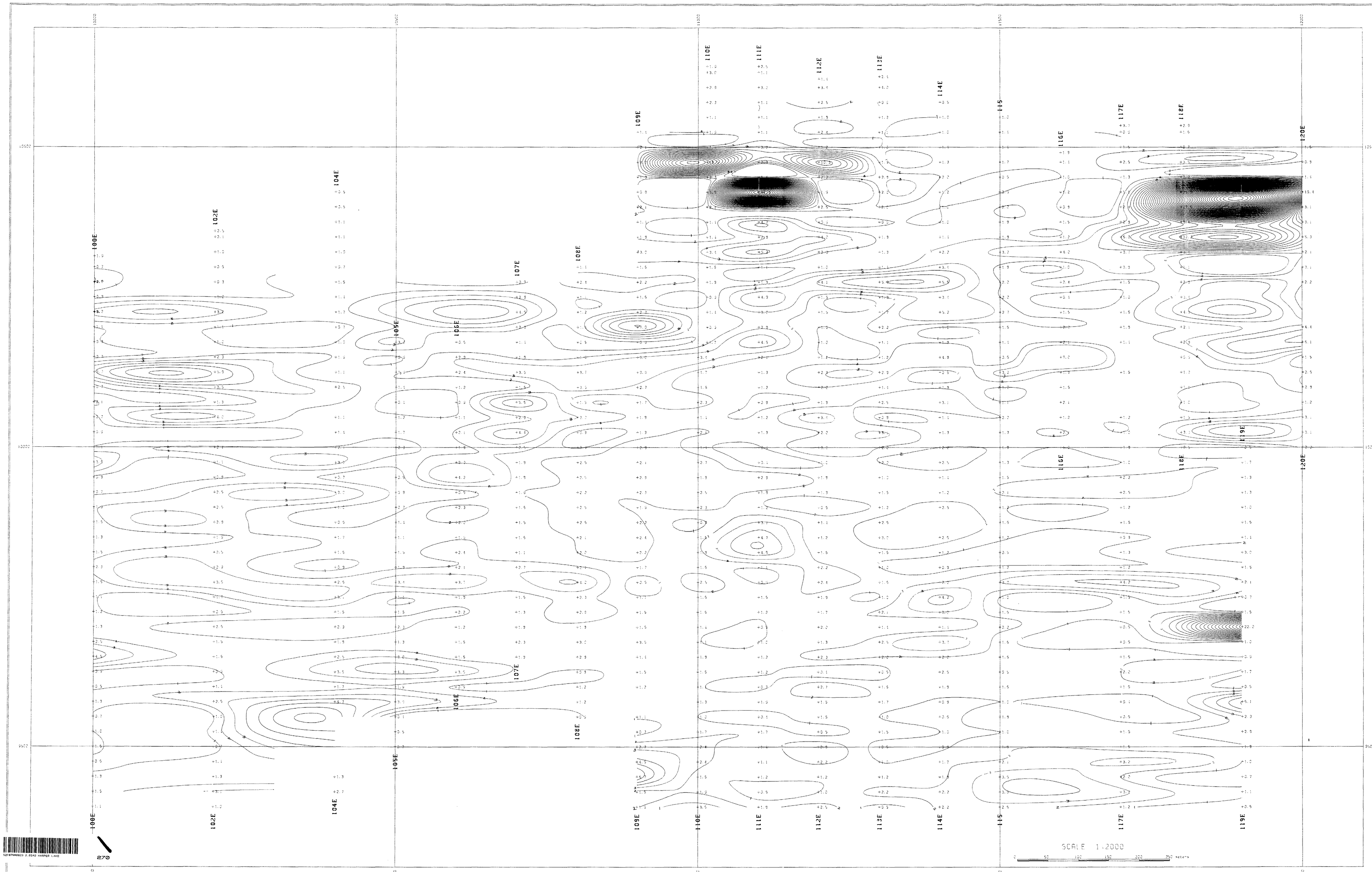


NOLIN – GEO ENTERPRISES LTD.

GEOPHYSICAL MAP
MAGNETOMETER SURVEY
CTK
GIANT MINES GRID

Fig 2A

FOR: COCHRANE OIL & GAS LTD.	GEOMETRICS PROTON PRECESSION G816 MAGNETOMETER
SCALE: 1"=400'	
FIELD PROGRAM-WINTER, 1984	TO ACCOMPANY REPORT BY: G. A. NOLAN



LEGEND

LEVEL 1 0.0 - 2.0

LEVEL 2 2.0 - 3.0

LEVEL 3 3.0 - 4.0

LEVEL 4 4.0 - 9000.0

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PERMIT HOLDER
P 8082
NOLIN GEO ENTERPRISES LTD.

COCHRANE OIL & GAS

GIANT PROSPECT

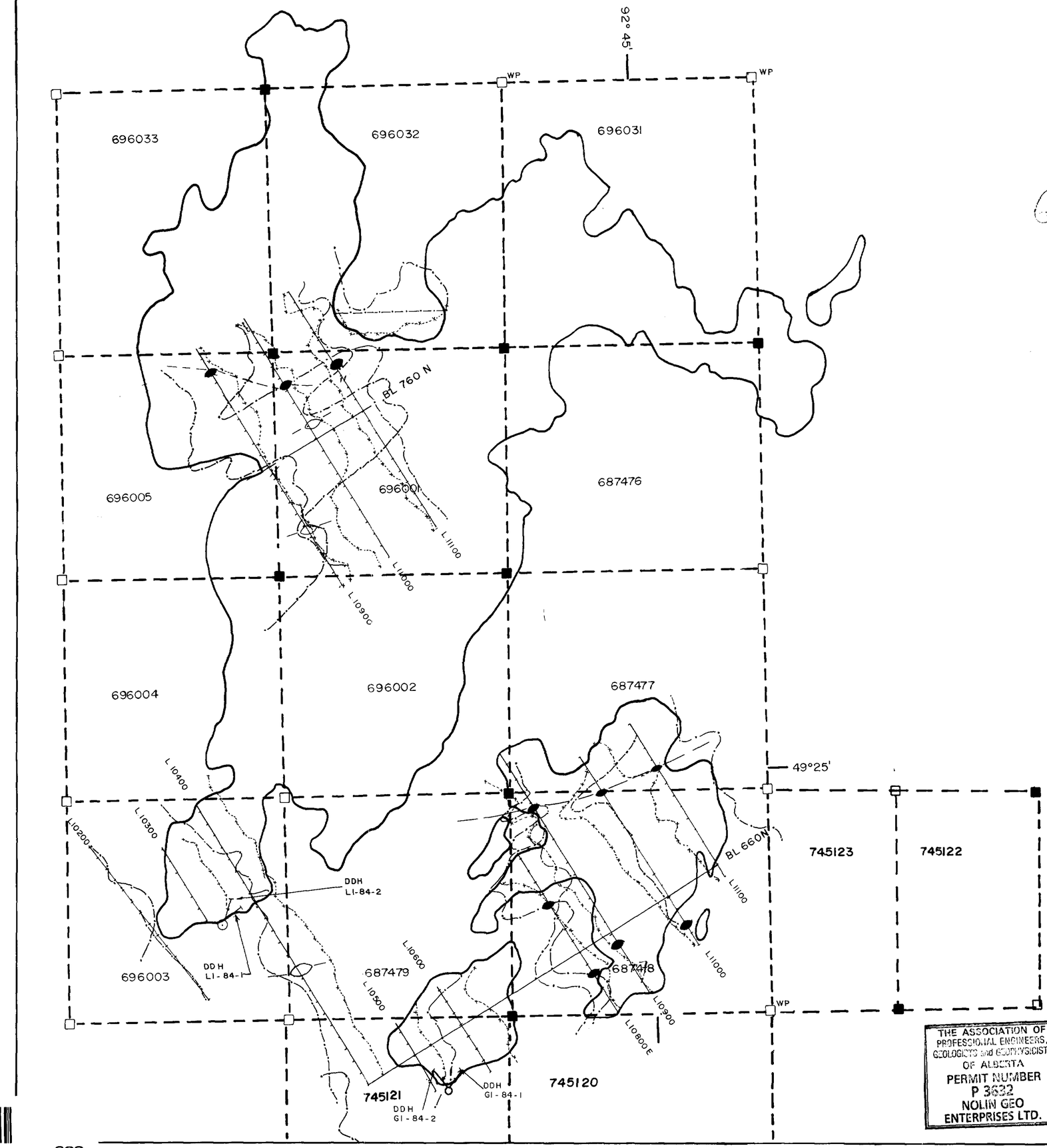
ARSENIC IN SOILS

TO ACCOMPANY REPORT BY

FIG #3

NOLIN GEO ENTERPRISES LTD.

270



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NOLIN - GEO ENTERPRISES LTD.

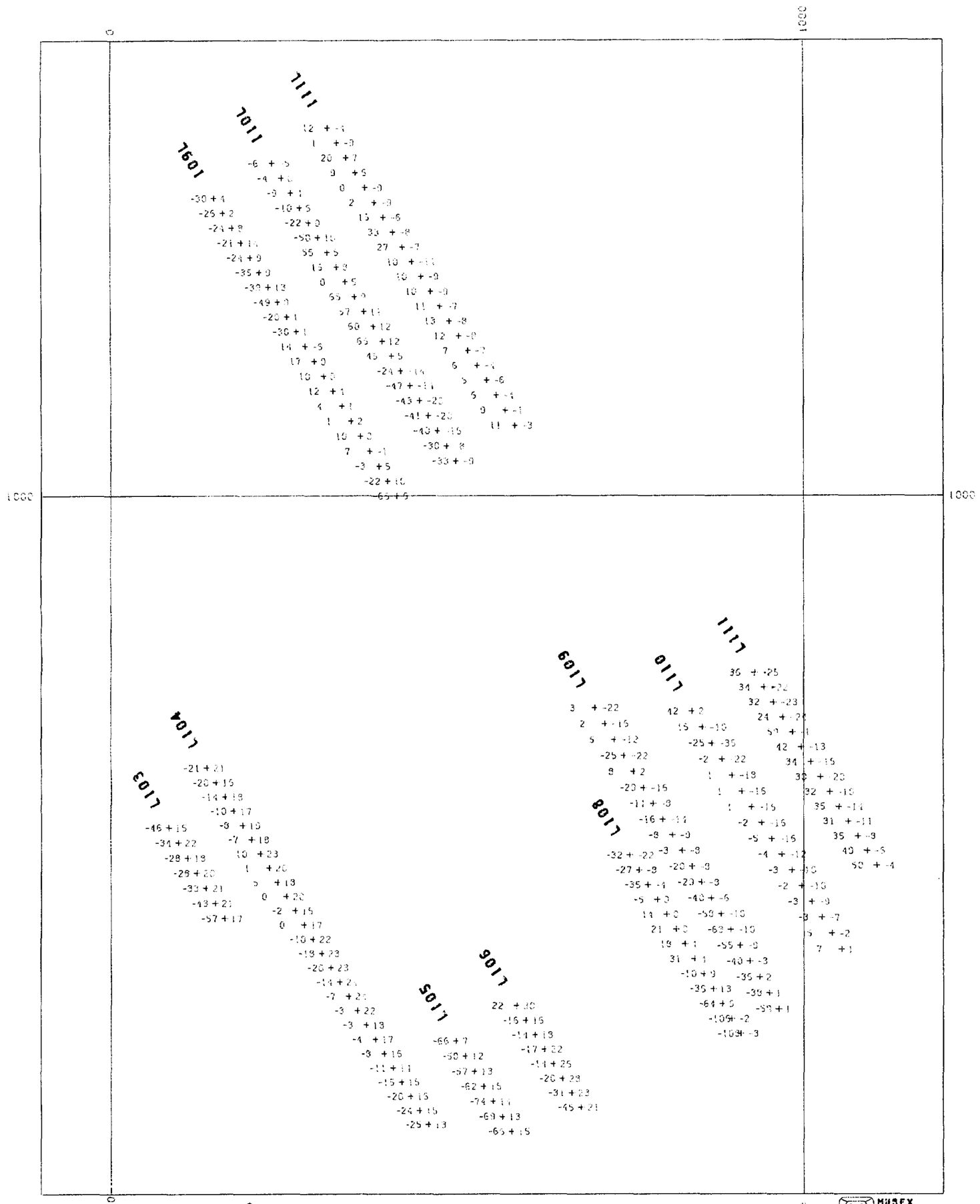
GEOPHYSICAL MAP
VLF SURVEY

GOLD ROCK EXTENSION - LEUILLER ISLAND GRID
(LEUILLER, GOLD & ROCHON ISLAND AREAS)

FOR: COCHRANE OIL & GAS LTD.	GEONICS EM-16
SCALE: 1:5000 1cm = 20%	TX STATION: NSS ANNAPOLIS (21.4 kHz) MARYLAND
FIELD PROGRAM - WINTER, 1984	TO ACCOMPANY REPORT BY: G. A. NOLAN

Fig. 2A

26542



SCALE 1:5000

0 100 200 300 400 500 meters

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PERMIT NUMBER
P 3632
NOLIN GEO ENTERPRISES LTD.

COCHRANE OIL and GAS

MEUILLER ISLAND

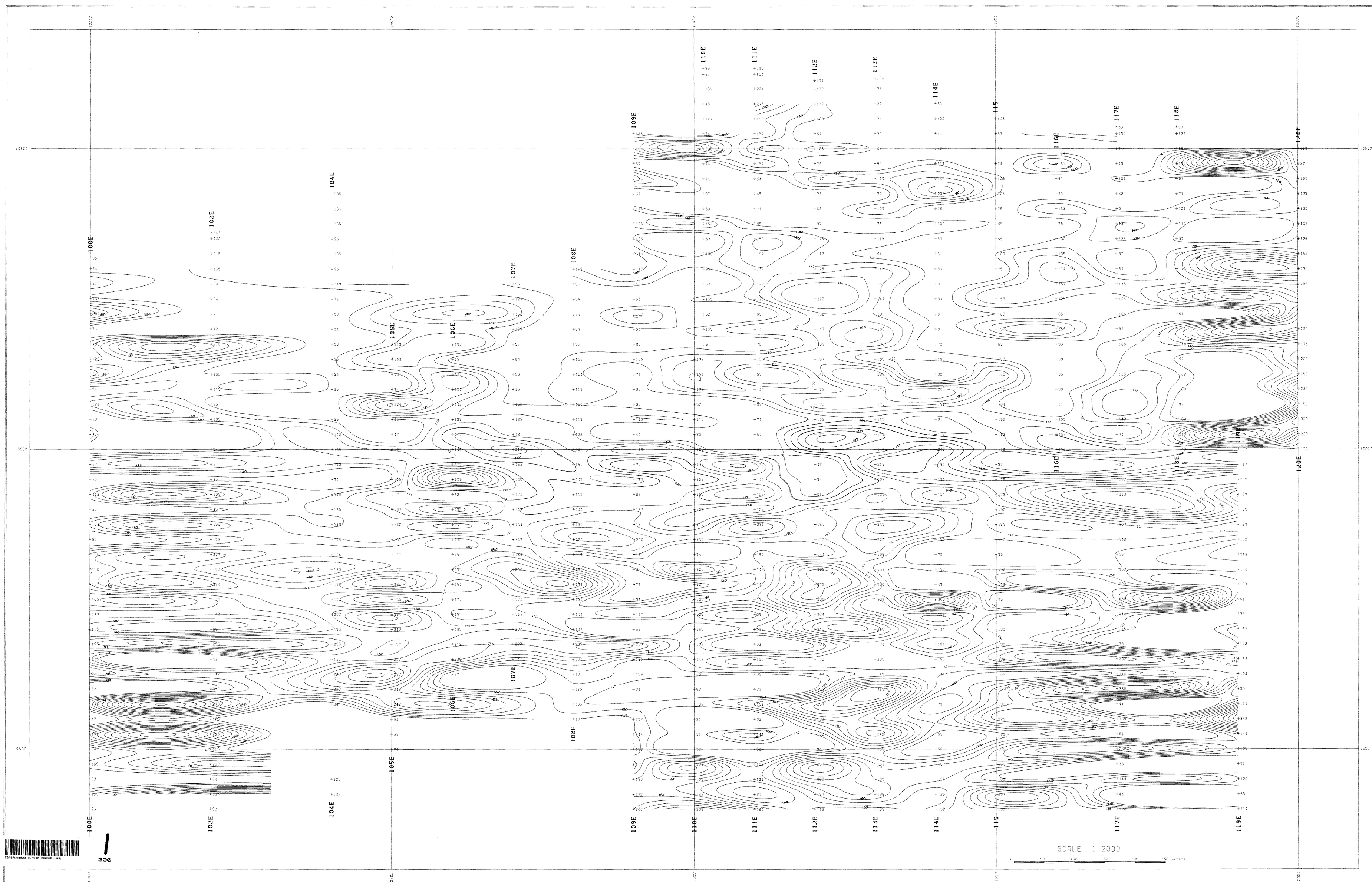
VLF VALUES - NSS

TO ACCOMPANY REPORT BY:

3

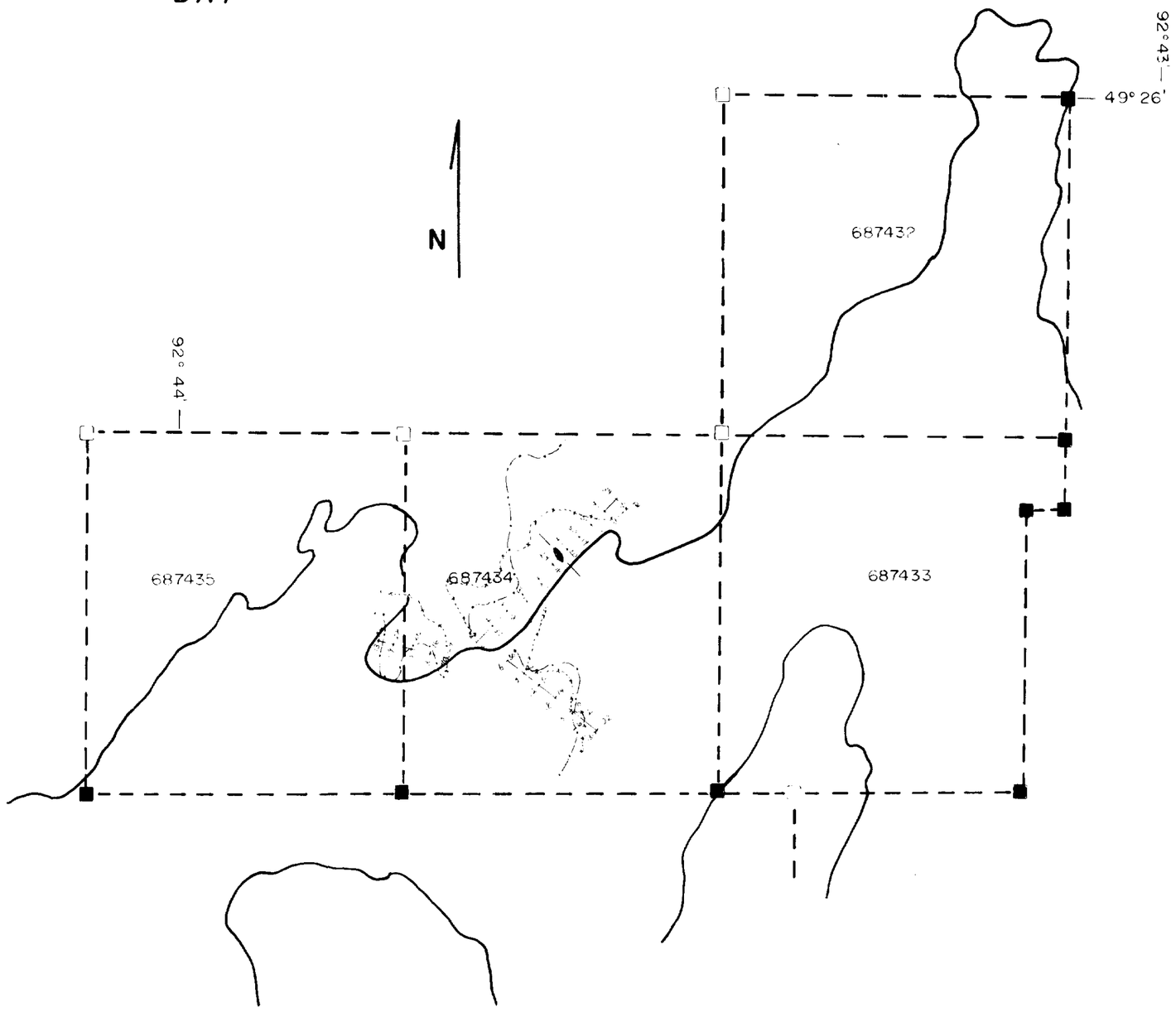
MUREX COMPUTER SERVICES LTD.

MUREX COMPUTER SERVICES LTD.


SCALE 1:2000
0 50 100 150 200 250 meters
LEGEND
LEVEL 1 0.0 - 135.0
LEVEL 2 135.0 - 150.0
LEVEL 3 150.0 - 175.0
LEVEL 4 175.0 - 1000.0
THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS OF ALBERTA
PERMIT NUMBER P 2552
NORWEGO ENTERPRISES LTD.
2552
COCHRANE OIL & GAS
GIANT PROSPECT
MERCURY IN SOILS
TO ACCOMPANY REPORT BY
#4
MINES LEASERS SURVEYORS LTD.

TRAFALGAR

BAY



NOLIN - GEO ENTERPRISES LTD.

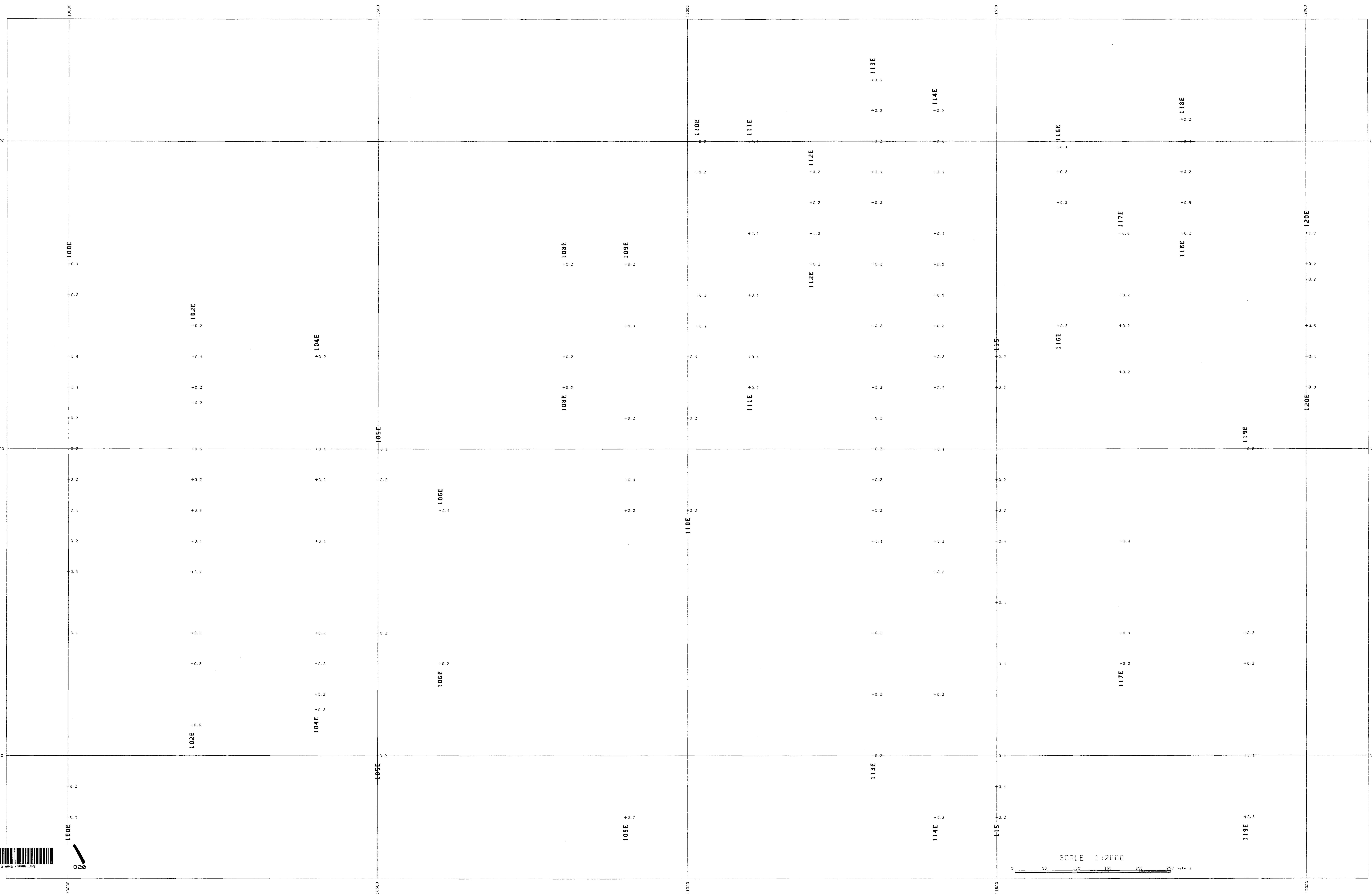
GEOPHYSICAL MAP 2.6542

VLF SURVEY

GOLD ROCK EXTENSION - LEUILLER ISLAND GRID

(TRAFALGAR BAY AREA) 52F/8E

FOR: COCHRANE OIL & GAS LTD.	GEONICS EM-16
SCALE: 1:5,000 1cm = 20%	TX STATION: NSS ANNAPOLIS (21.4kHz) MARYLAND
FIELD PROGRAM - WINTER, 1984	TO ACCOMPANY REPORT BY C.A. NOLAN



LEGEND

LEVEL 1	0.0	- 0.2
LEVEL 2	0.2	- 0.3
LEVEL 3	0.3	- 0.4
LEVEL 4	0.4	- 100.0

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COCHRANE OIL & GAS

GIANT PROSPECT

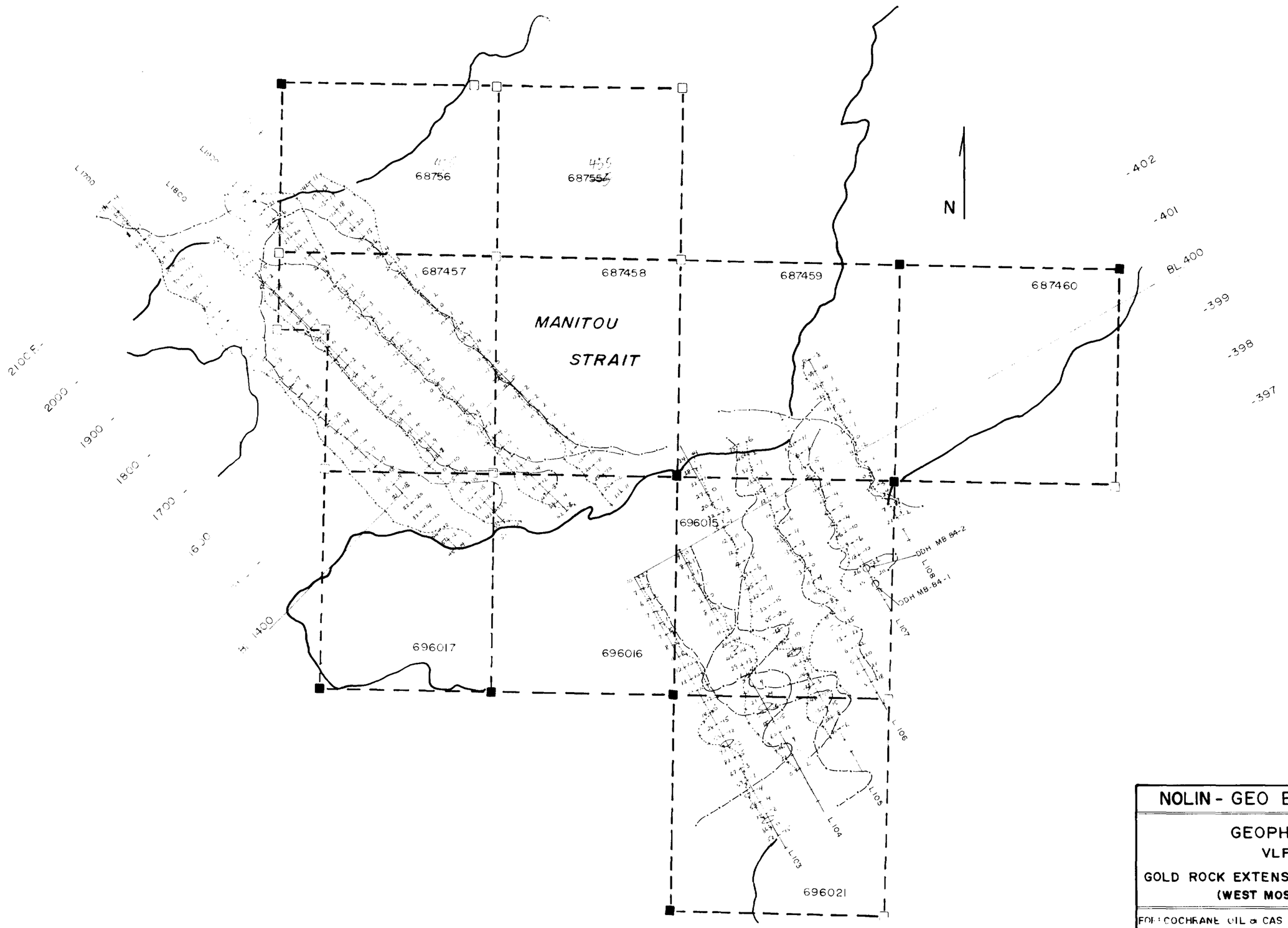
SILVER IN SOILS

26542

TO ACCOMPANY REPORT BY: Sandi

5

MUREX COMPUTER SERVICES LTD.



NOLIN - GEO ENTERPRISES LTD.

GEOPHYSICAL MAP

VLF SURVEY

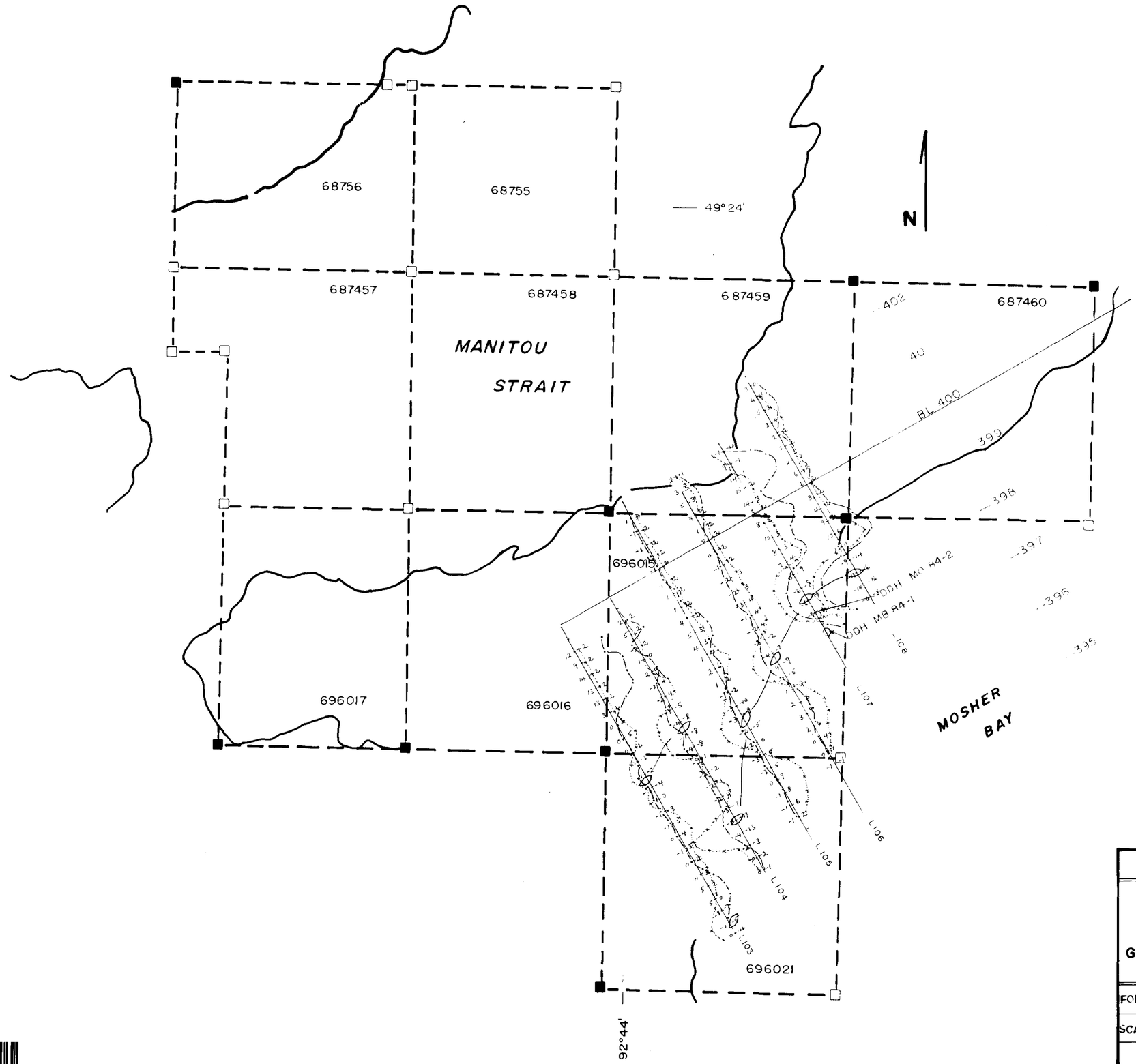
GOLD ROCK EXTENSION - LEUILLER ISLAND GRID

(WEST MOSHER BAY AREA)

FOR: COCHRANE OIL & GAS LTD.	GEONICS EM-16
SCALE: 1cm = 20%	TX STATION: NSS ANNAPOLIS (21.4 kHz) MARYLAND
FIELD PROGRAM - WINTER, 1984	TO ACCOMPANY REPORT BY: G.A. NOLAN


COCHRANE OIL & GAS
GIANT PROSPECT
VLF PROFILES
TO ACCOMPANY REPORT BY:
6
LEGEND
THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS and GEOPHYSICISTS OF ALBERTA
PERMIT NUMBER P 3632
NOLIN GEO ENTERPRISES LTD.
MUREX COMPUTER SERVICES LTD.
SCALE 1:2000
0 50 100 150 200 250 meters
10500
10000
9500
100E
102E
104E
105E
106E
107E
108E
109E
110E
111E
112E
113E
114E
115
116E
117E
118E
119E
120E

340

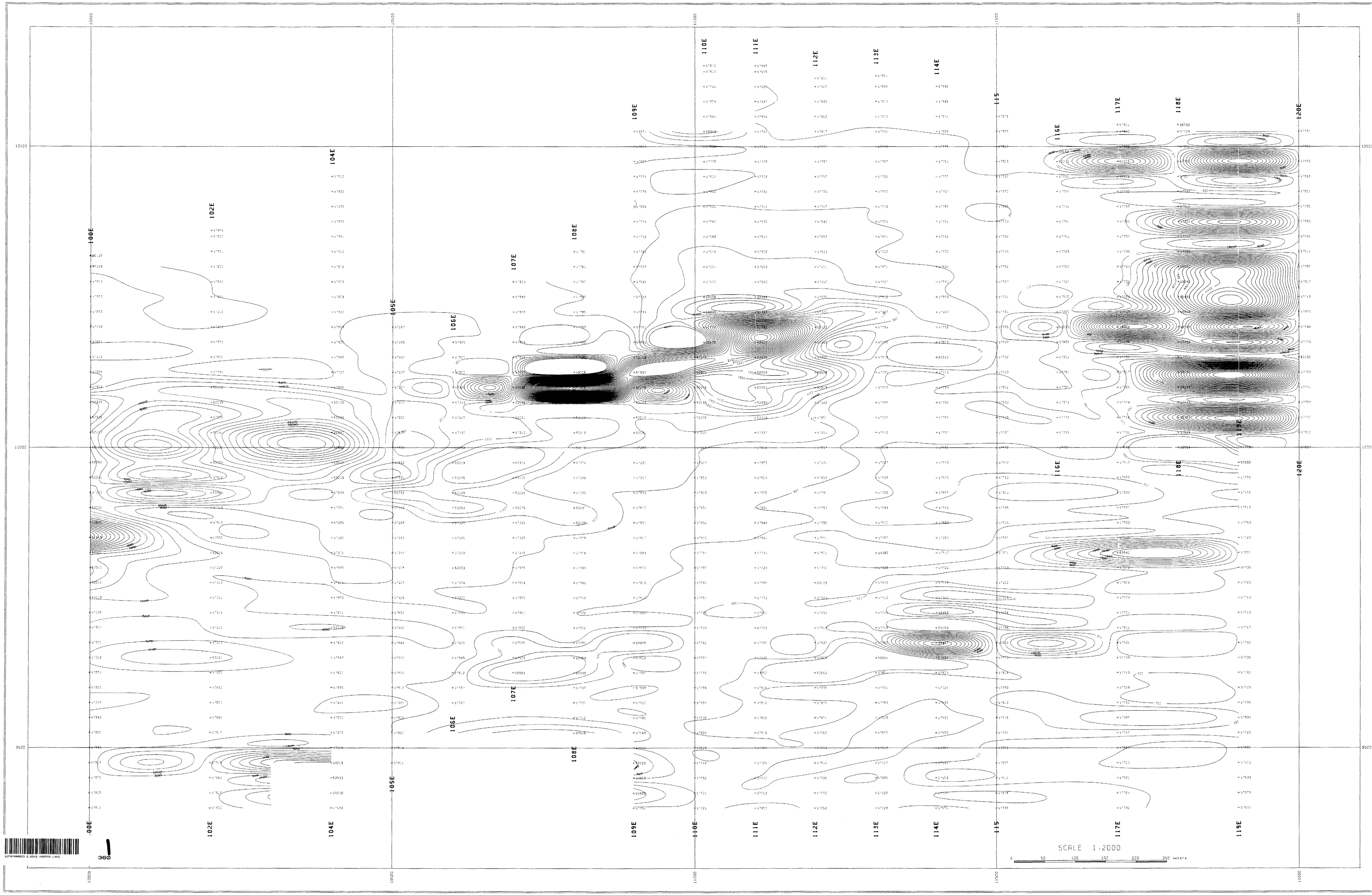


NOLIN – GEO ENTERPRISES LTD.

GEOPHYSICAL MAP
MAX MIN II SURVEY
GOLD ROCK EXTENSION – LEUILLER ISLAND GRID
(WEST MOSHER BAY AREA)

Fig 6A

FOR: COCHRANE OIL & GAS LTD.	APEX MAX MIN II
SCALE: 1:5,000 1cm.= 10%	TX FREQUENCY 1777 Hz TX RX SEPARATION 100m



LEGEND

LEVEL 1 97000.0 99500.0

LEVEL 2 95000.0 97000.0

LEVEL 3 92000.0 95000.0

LEVEL 4 90500.0 70000.0

THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS AND GEOPHYSICISTS OF ALBERTA

COCHRANE OIL & GAS

GIANT PROSPECT

MAGNETIC MAP

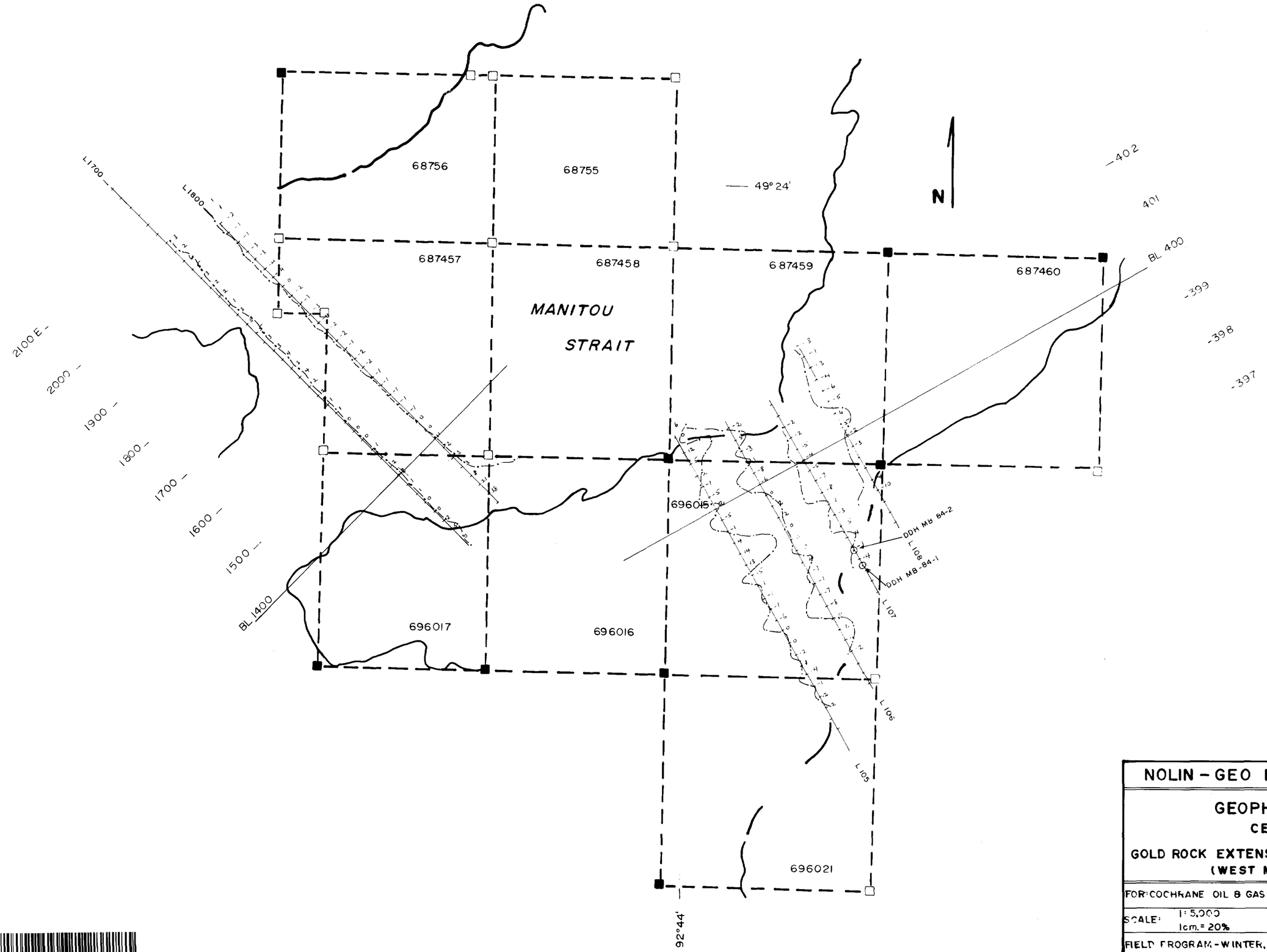
TO ACCOMPANY REPORT BY.

7

HUNTEC (70) LTD.

SOFTWARE(C) 2.0042 HARPER LAKE

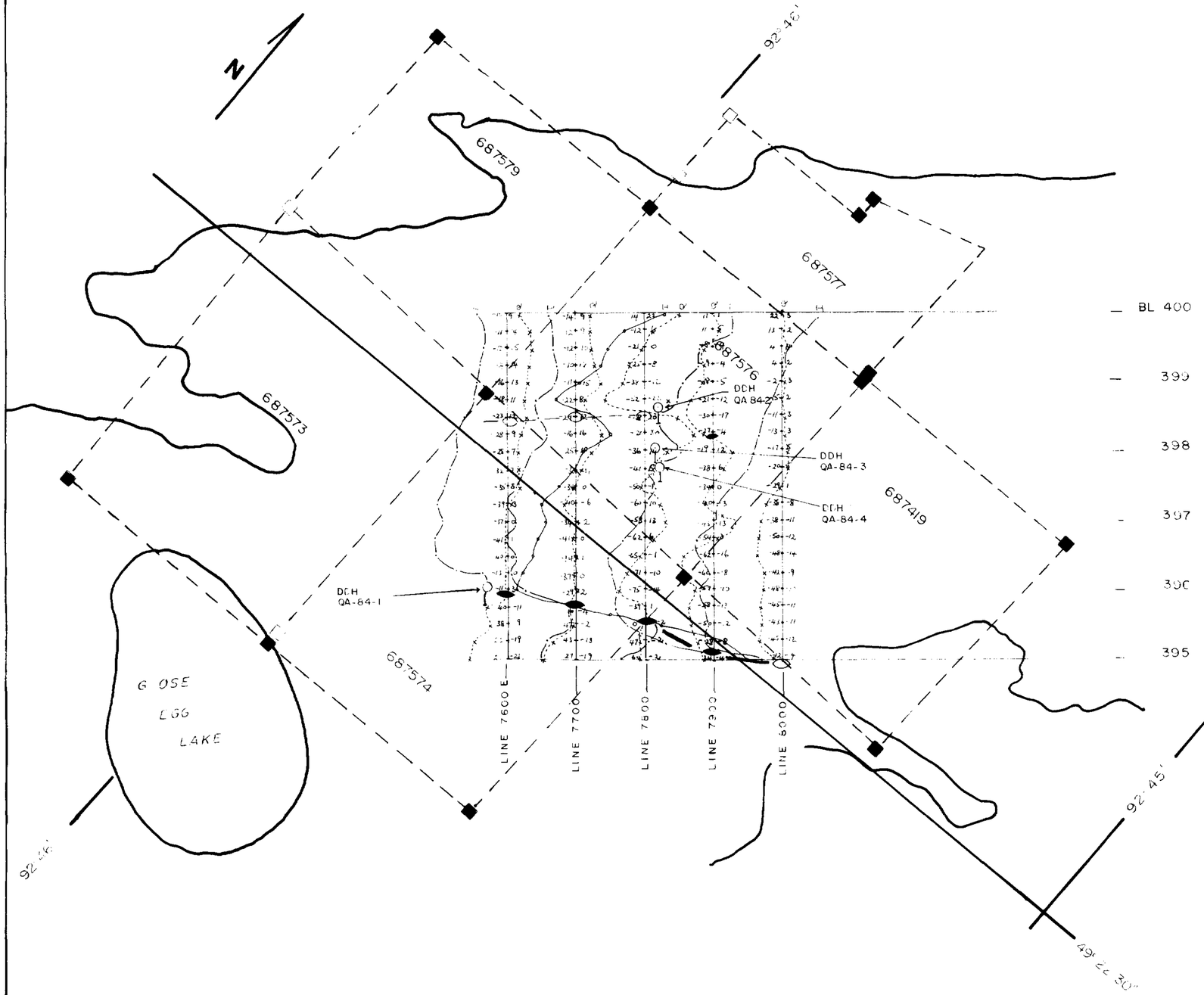
360



NOLIN - GEO ENTERPRISES LTD.	
GEOPHYSICAL MAP CEM SURVEY GOLD ROCK EXTENSION - LEUILLER ISLAND GRID (WEST MOSHER BAY AREA)	
FOR: COCHRANE OIL & GAS LTD.	CRONE GEOPHYSICS LTD CEM
SCALE: 1:5,000 1cm. = 20%	TX FREQUENCY 5010 Hz RX TX SEPARATION 50M.
FIELD PROGRAM - WINTER, 1984	TO ACCOMPANY REPORT BY: B. A. NOLAN

HARPER LAKE MAP AREA
PLAN NO. 2592
TOPOGRAPHIC SERIES 52F7
KENORA MINING DIVISION

BOYER LAKE MAP AREA
PLAN NO. M2582
TOPOGRAPHIC SERIES 52F7
KENORA MINING DIVISION



NOLIN - GEO ENTERPRISES LTD.

GEOPHYSICAL MAP

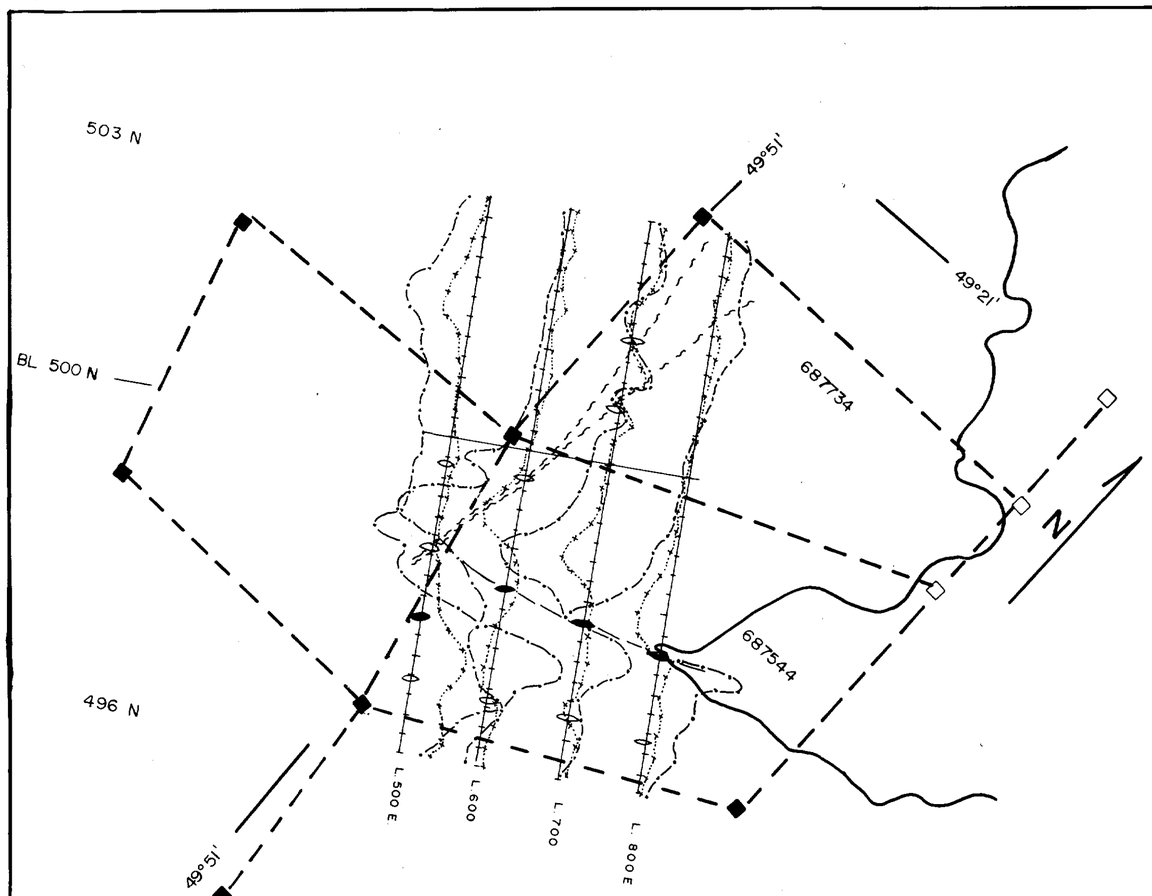
VLF SURVEY

QUEEN ALEXANDER MINE GRID

(GOOSE EGG LAKE AREA)

FOR: COCHRANE OIL & GAS LTD.	GEONICS EM-16
SCALE: 1:5,000 1cm = 20%	TX STATION: NSS ANNAPOLIS (21.4 Khz) MARYLAND
FIELD PROGRAM - WINTER, 1984	TO ACCOMPANY REPORT BY: G. A. NOLAN

As | Sb
Hg | Ag
THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS and GEOPHYSICISTS OF ALBERTA
PERMIT NUMBER P 3022
NOLIN GEO ENTERPRISES LTD.
SCALE 1:5000
GOLD ROCK EXTENSION
Hg-As-Sb-Ag SOIL SURVEY
26542
TO ACCOMPANY REPORT BY:
#9



26542

THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS and GEOPHYSICISTS OF ALBERTA
PERMIT NUMBER
P 3632
NOLIN GEO ENTERPRISES LTD.

NOLIN – GEO ENTERPRISES LTD.

GEOPHYSICAL MAP
VLF SURVEY
QUEEN ALEXANDER MINE GRID
(CARLETON LAKE AREA)

fig 9A

FOR: COCHRANE OIL & GAS LTD	GEONICS EM-16
SCALE: 1:5,000 1cm = 20%	TX STATION: NSS ANNAPOLIS (21.4kHz) MARYLAND
FIELD PROGRAM - WINTER, 1984	TO ACCOMPANY REPORT BY G. A. NOLAN

500E	600E	700E	800E
-10 + -1	-3 + 3	8 + 5	8 + 1
-15 + -2	-3 + 2	9 + 8	13 + 2
-17 + 5	-1 + 1	11 + 8	10 + 2
-20 + -6	0 + 1	11 + 10	10 + 1
-25 + -11	-3 + 1	-1 + 0	12 + 4
-34 + -14	-5 + 5	-5 + -2	10 + 1
-34 + -15	-4 + 0	2 + -4	11 + 3
-23 + -5	-4 + 2	8 + 6	5 + 2
-22 + 4	-6 + 3	14 + 10	5 + 4
-17 +	-5 + 3	-5 + -1	2 + 2
-17 +	-6 + 0	4 + 7	0 + 0
-13 +	-9 + 0	-10 + -2	-3 + -2
-15 + 1	-12 + 1	-10 + -2	-3 + -1
-14 + 4	-31 + -8	-12 + -2	-4 + -4
-17 + 2	-19 + -2	-14 + -3	-4 + -4
-15 + 3	-57 + 10	-20 + -4	-6 + -2
-10 + 2	-61 + -17	-32 + -13	-12 + -3
-31 + -1	-41 + -2	-47 + 17	-14 + -5
-14 + 4	-26 + 2	-30 + -5	-23 + -12
-15 + 5	-19 + 1	-14 + 2	-30 + -15
5 + 8	-10 + 2	-7 + 2	-43 + 13
32 + 9	-12 + -4	23 + 3	-5 + 3
70 + 19	-16 + -5	27 + 5	43 + 4
74 + 25	-11 + -5	11 + 3	20 + 2
52 + 22	-6 + -7	4 + -3	21 + 5
43 + 16	8 + 7	7 + 0	14 + 5
26 + 18	2 + 4	8 + 7	15 + 5
20 + 22	-6 + 2	5 + 5	9 + 3
11 + 15	-6 + 2	0 + 2	5 + 1

SCALE 1:5000

0 100 200 300 400 500 meters

COCHRANE OIL and GAS

HARLTON LAKE 2.6592

VLF VALUES - NS

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NOLIN GEO ENTERPRISES LTD.

TO ACCOMPANY REPORT BY: Sand

9B

MUREX COMPUTER SERVICES LTD.

420

MUREX COMPUTER SERVICES LTD.

DELO ROCK EXTENSION - [illegible]

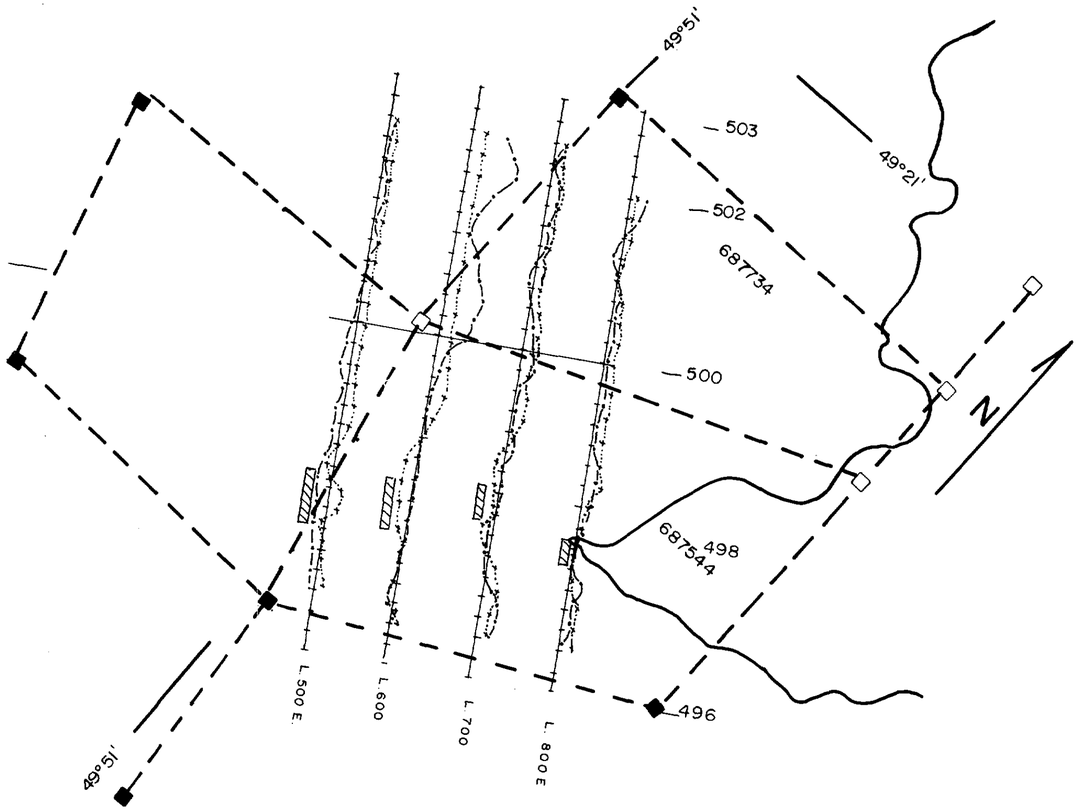
VLF PROFILES

TO ACCOMPANY REPORT BY:

CLARK GEOPHYSICAL SERVICES LTD.	# 10

SCALE 1:5000

THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS AND GEOPHYSICISTS OF ALBERTA
PERMIT NUMBER P 3632
NOLIN GEO ENTERPRISES LTD.



CONDUCTOR
(SHOWING ESTIMATED WIDTH)

THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS and GEOPHYSICISTS OF ALBERTA
PERMIT NUMBER
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NOLIN GEO ENTERPRISES LTD.

2.6542

NOLIN – GEO ENTERPRISES LTD.	
GEOPHYSICAL MAP MAX MIN SURVEY QUEEN ALEXANDER MINE GRID (CARLETON LAKE AREA) Fig 10A	
FOR COCHRANE OIL & GAS LTD.	APEX MAX MIN-II
SCALE: 1:5,000 1cm = 20%	TX FREQUANCY 1777 Hz TX RX SEPARATION
FIELD PROGRAM - WINTER 84	TO ACCOMPANY REPORT BY G. A. NOLAN

500E		600E		700E		800E	
2	+2	7	+2	1	+2		
1	+2	10	+2	-1	+2		
1	+2	11	+2	2	+2	5	+1
2	+2	5	+2	2	+2	5	+0
2	+2	3	+2	1	+2	-1	+0
1	+2	2	+2	1	+1	-3	+0
2	+2	5	+2	-1	+1	-1	+-1
0	+2	6	+2	-2	+1	-1	+1
0	+2	8	+2	0	+1	0	+1
-1	+2	7	+2	1	+2	1	+2
-1	+2	6	+2	2	+2	0	+2
-1	+2	1	+1	3	+2	0	+2
-3	+2	0	+2	0	+2	1	+2
-1	+2	-1	+3	0	+3	0	+2
-2	+3	-1	+1	0	+2	0	+2
-2	+2	0	+0	1	+-1	2	+2
-2	+3	-2	+-4	-1	+-3	2	+3
-3	+-2	-1	+-4	0	+2	2	+1
-3	+3	-1	+-4	-1	+-2	1	+0
-2	+3	-2	+-4	-2	+-3	0	+0
-3	+1	-1	+-2	-2	+-1	-1	+1
-1	+0	-2	+-2	-1	+2	4	+1
-1	+1	-2	+-2	3	+3	1	+3
-1	+2	-3	+-1	4	+2	2	+2
2	+3	-3	+0	3	+2	0	+3

SCALE 1:5000

0 100 200 300 400 500 metres

COCHRANE OIL and GAS

HARLTON LAKE 2.6542

MAX-MIN VALUES

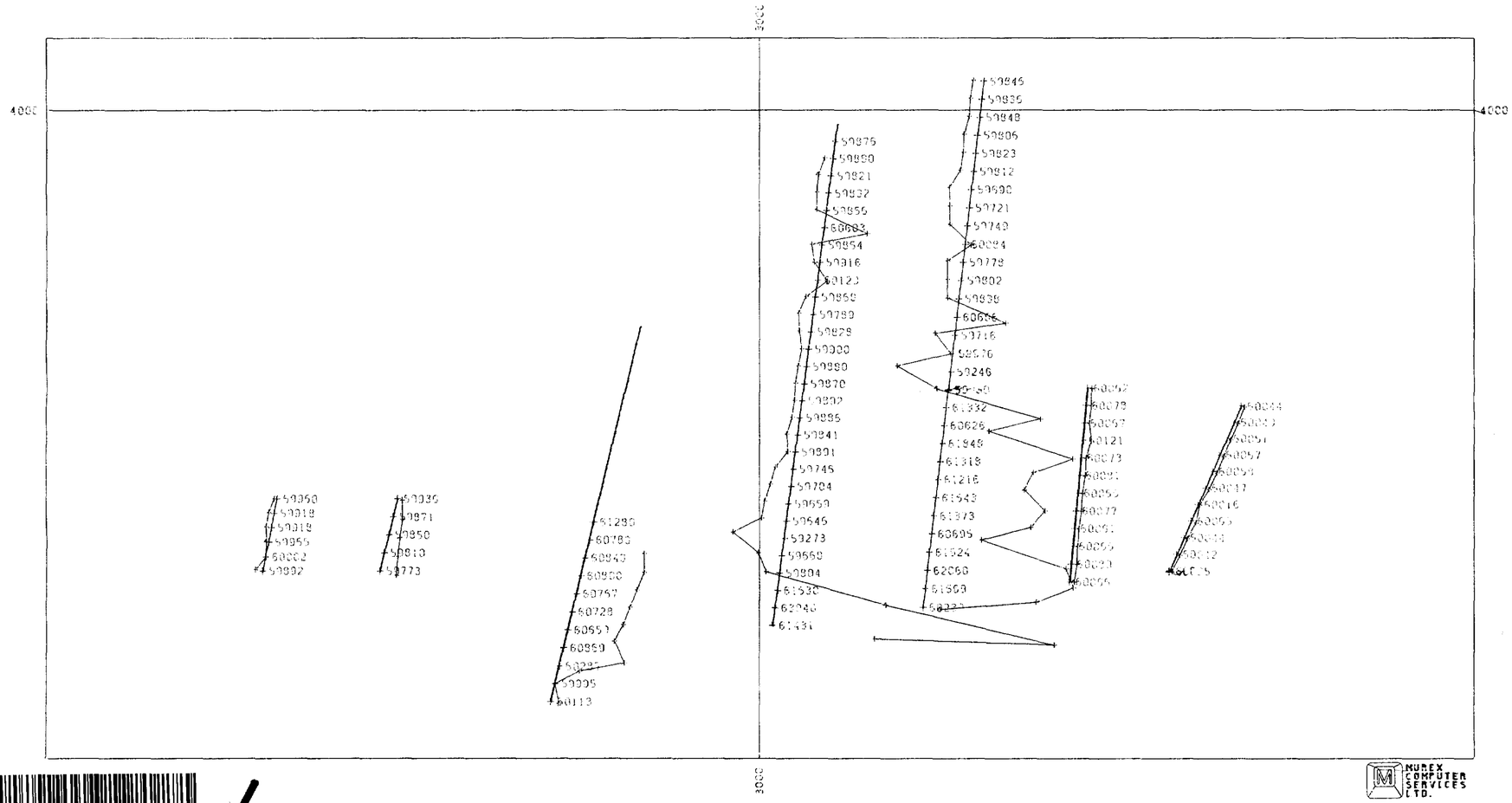
THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS and GEOPHYSICISTS OF ALBERTA
PERMIT NUMBER
P 3632
NOLIN GEO ENTERPRISES LTD.

TO ACCOMPANY REPORT BY:

10B

MUREX COMPUTER SERVICES LTD.

MUREX COMPUTER SERVICES LTD.



LEGEND

LEVEL 1	57000.0 @ 59500.0
LEVEL 2	59500.0 @ 60000.0
LEVEL 3	60000.0 @ 60500.0
LEVEL 4	60500.0 @ 70000.0

SCALE 1:5000

0 100 200 300 400 500 meters

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PERMIT NUMBER P 3632
NOLIN GEO ENTERPRISES LTD.

COLD ROCK EXTENSION

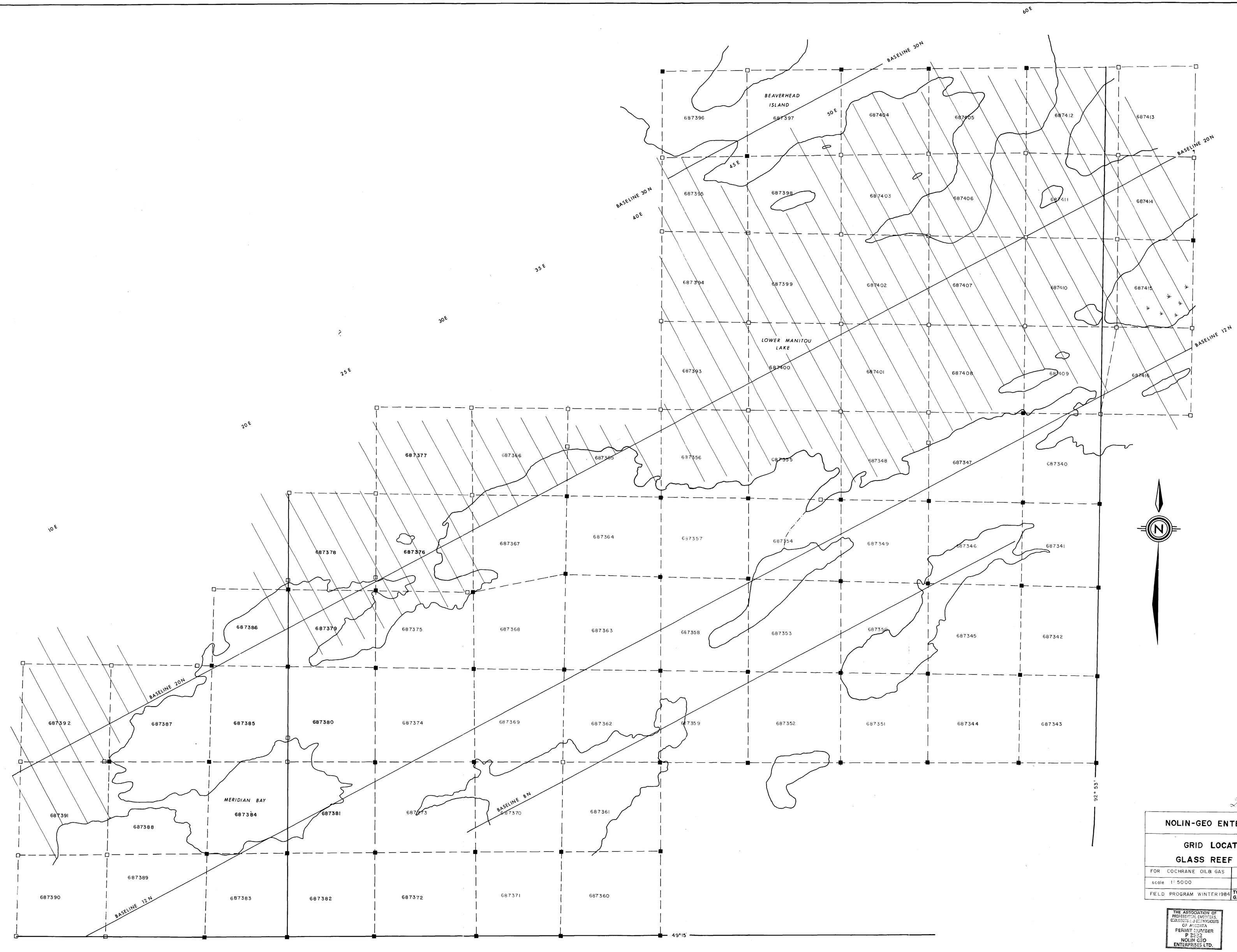
MAGNETIC SURVEY

TO ACCOMPANY REPORT BY: Nolin

11

MUREX COMPUTER SERVICES LTD.

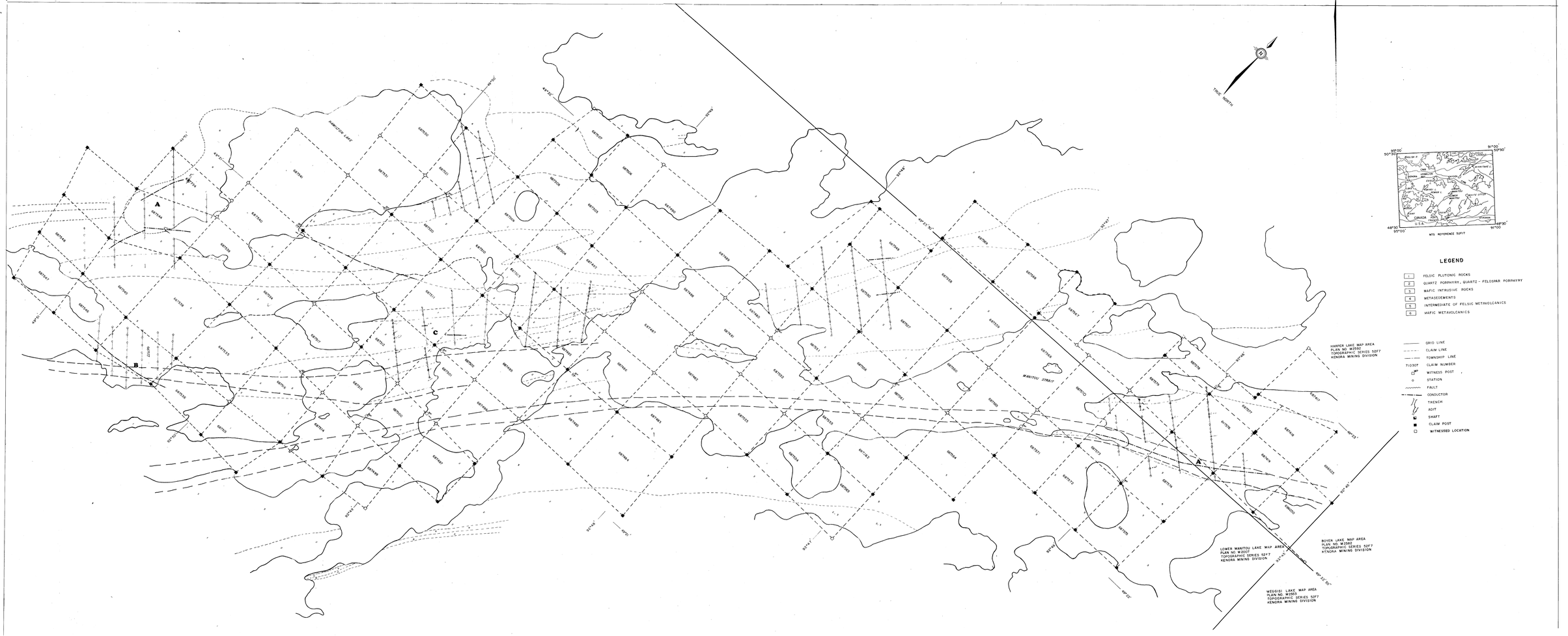
MUREX COMPUTER SERVICES LTD.

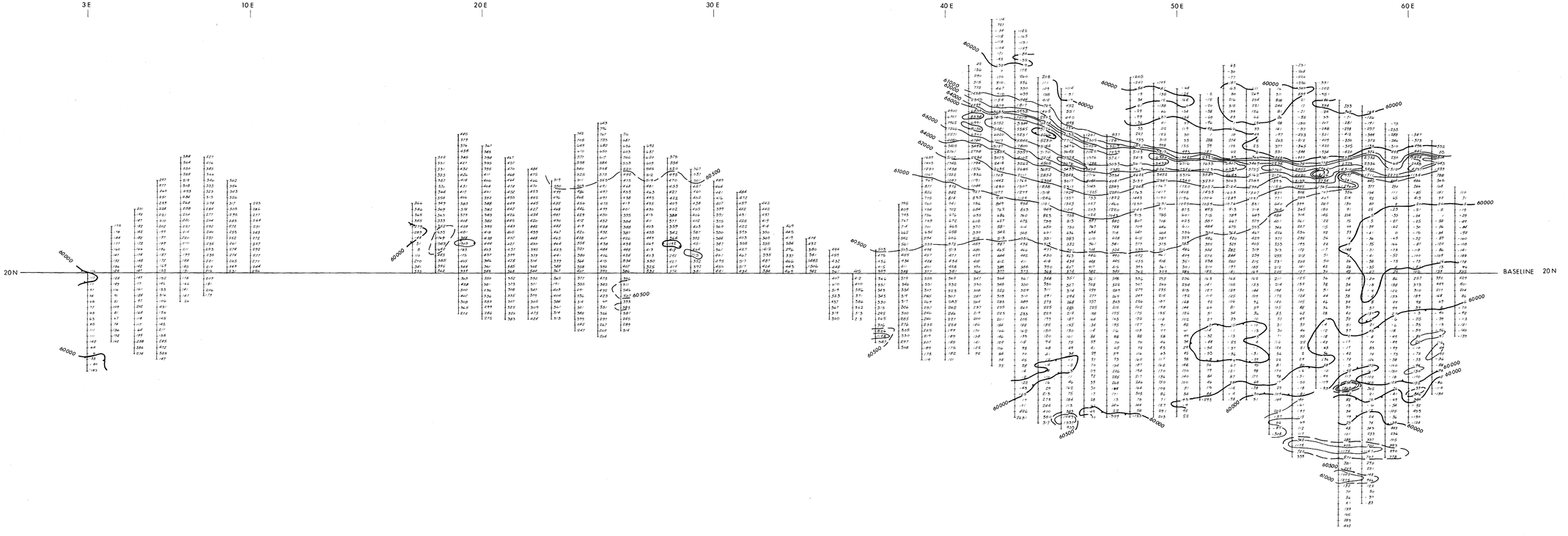


2552

NOLIN-GEO ENTERPRISES LTD.	
GRID LOCATION MAP GLASS REEF MINE GRID	Fig #4
FOR COCHRANE OILS GAS	
scale 1:5000	
FIELD PROGRAM WINTER 1984	TO ACCOMPANY REPORT BY G.A. NOLIN

THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS & GEOPHYSICISTS OF ALBERTA
PERMIT NUMBER P 3032
NOLIN GEO ENTERPRISES LTD.


TRUE NORTH
HAMILTON LAKE
MANITOU STRAIT
A
B
C
49°30'
95°00'
91°00'
50°30'
NTS REFERENCE 52F/7
LEGEND
1 FELSIC PLUTONIC ROCKS
2 QUARTZ PORPHYRY, QUARTZ - FELDSPAR PORPHYRY
3 MAFIC INTRUSIVE ROCKS
4 METASEDEMENTS
5 INTERMEDIATE OF FELSIC METAVOLCANICS
6 MAFIC METAVOLCANICS
GRID LINE
CLAIM LINE
TOWNSHIP LINE
CLAIM NUMBER
WITNESS POST
STATION
FAULT
CONDUCTOR
TRENCH
ADIT
SHAFT
CLAIM POST
WITNESSED LOCATION
HARPER LAKE MAP AREA
PLAN NO. M3500
TOPOGRAPHIC SERIES 52F7
KENORA MINING DIVISION
LOWER MANITOU LAKE MAP AREA
PLAN NO. M3000
TOPOGRAPHIC SERIES 52F7
KENORA MINING DIVISION
BOYER LAKE MAP AREA
PLAN NO. M3562
TOPOGRAPHIC SERIES 52F7
KENORA MINING DIVISION
MEGISI LAKE MAP AREA
PLAN NO. M3525
TOPOGRAPHIC SERIES 52F7
KENORA MINING DIVISION



2642

NOLIN-GEO ENTERPRISES LTD.

GEOPHYSICAL MAP
MAGNETIC SURVEY
GLASS REEF MINE GRID Fig 12A

FOR COCHRANE OIL & GAS LTD.	GEOMETRICS G816 MAGNETOMETER
SCALE: 1" = 200'	PROTON PRECESSION
FIELD PROGRAM, WINTER 1984	TO ACCOMPANY REPORTS BY G.A. NOLAN

THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS AND GEOPHYSICISTS OF ALBERTA
PERMIT NUMBER P 2637
NOLIN GEO ENTERPRISES LTD.

As | Sb
Hg | Ag

SCALE 1:5000

0 100 200 300 400 500 meters

THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS AND GEOPHYSICISTS OF ALBERTA
PERMIT NUMBER
P 2332
NOLIN GEO ENTERPRISES LTD.

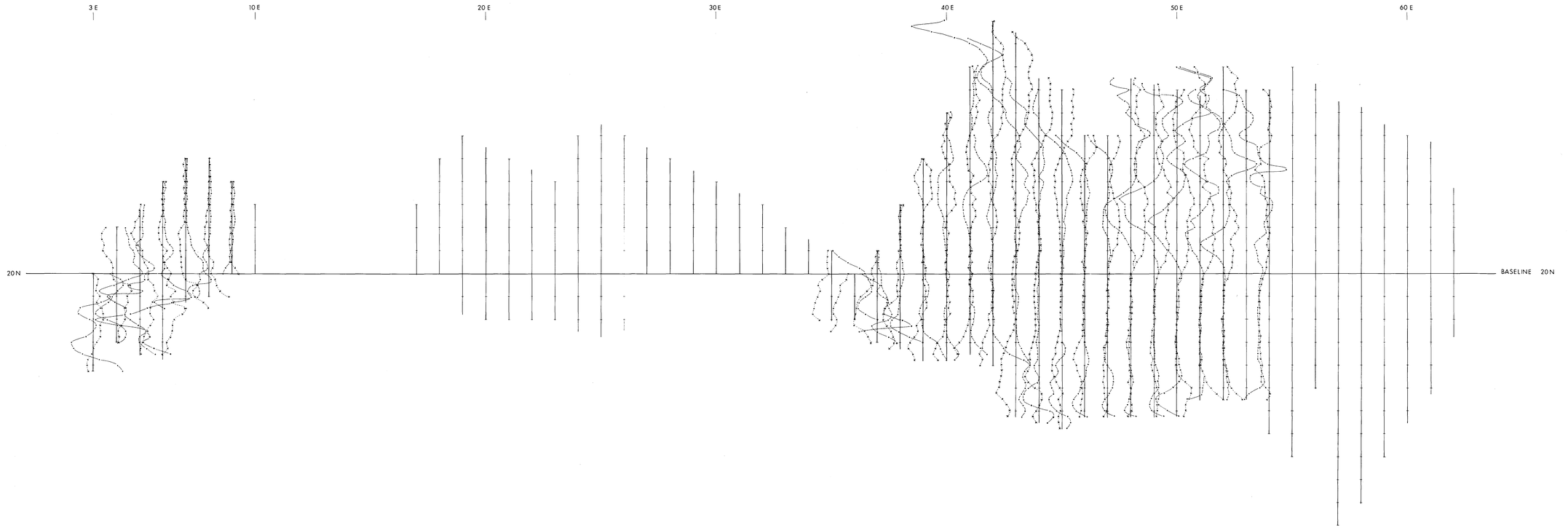
CARLTON LAKE

Hg-As-Sb-Ag SOIL SURVEY

TO ACCOMPANY REPORT BY:

#13

MUREX COMPUTER SERVICES LTD.



NOLIN GEO ENTERPRISES LTD.

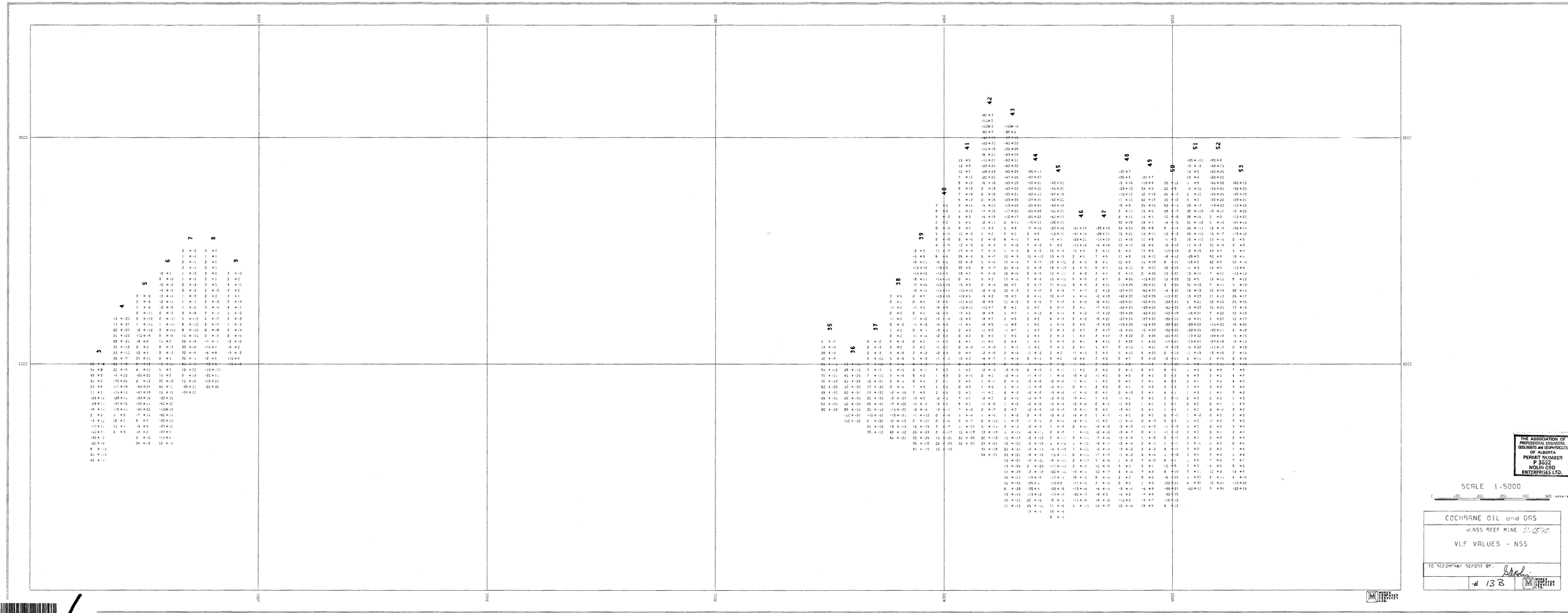
GEOPHYSICAL MAP
VLF SURVEY
GLASS REEF MINE GRID

Fig 18A

FOR COCHRANE OIL & GAS LTD.	GEONICS EM - 16
SCALE : 1:5000	TX STATION NSS ANNAPOLIS 21.4 kHz MARYLAND
FIELD PROGRAM WINTER 1984	TO ACCOMPANY REPORT BY G. A. NOLAN

2634-2

THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS and GEOPHYSICISTS OF ALBERTA
PERMIT NUMBER P 2503
NOLIN GEO ENTERPRISES LTD.



THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS and GEOPHYSICISTS OF ALBERTA
PERMIT NUMBER P 3022
NOLIN GEO ENTERPRISES LTD.

SCALE 1:5000

0 100 200 300 400 500 metres

COCHRANE OIL and GAS

WASS REEF MINE 21-5-40

VLF VALUES - NSS

TO ACCOMPANY REPORT BY:

13B

NOLIN GEOPHYSICAL SERVICES LTD.

SCALE 1:5000

0 100 200 300 400 500 meters

THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS and GEOPHYSICISTS OF ALBERTA
PERMIT NUMBER
P 3632
NOLIN GEO ENTERPRISES LTD.

SENNOL RESOURCES

CARLTON LAKE 2.6542

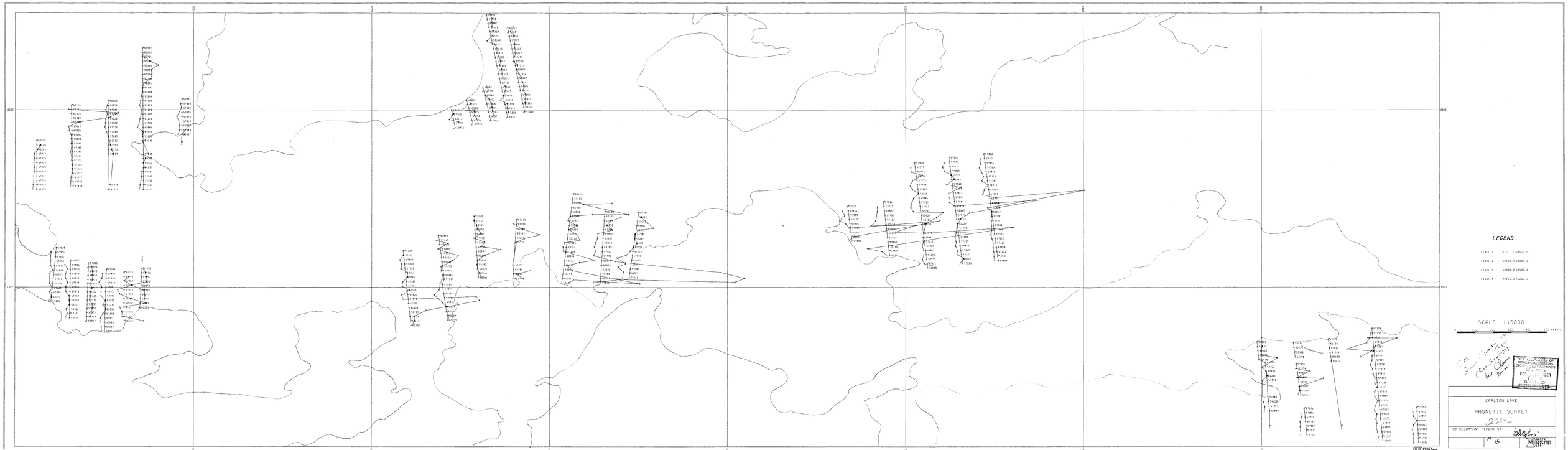
VLF PROFILES

TO ACCOMPANY REPORT BY:

14

MUREX COMPUTER SERVICES LTD.

530



LEGEND

LEVEL 1 0.0 - 59500.0

LEVEL 2 59500.0 62000.0

LEVEL 3 62000.0 69500.0

LEVEL 4 69500.0 72000.0

SCALE 1:5000

0 100 200 300 400 500 meters

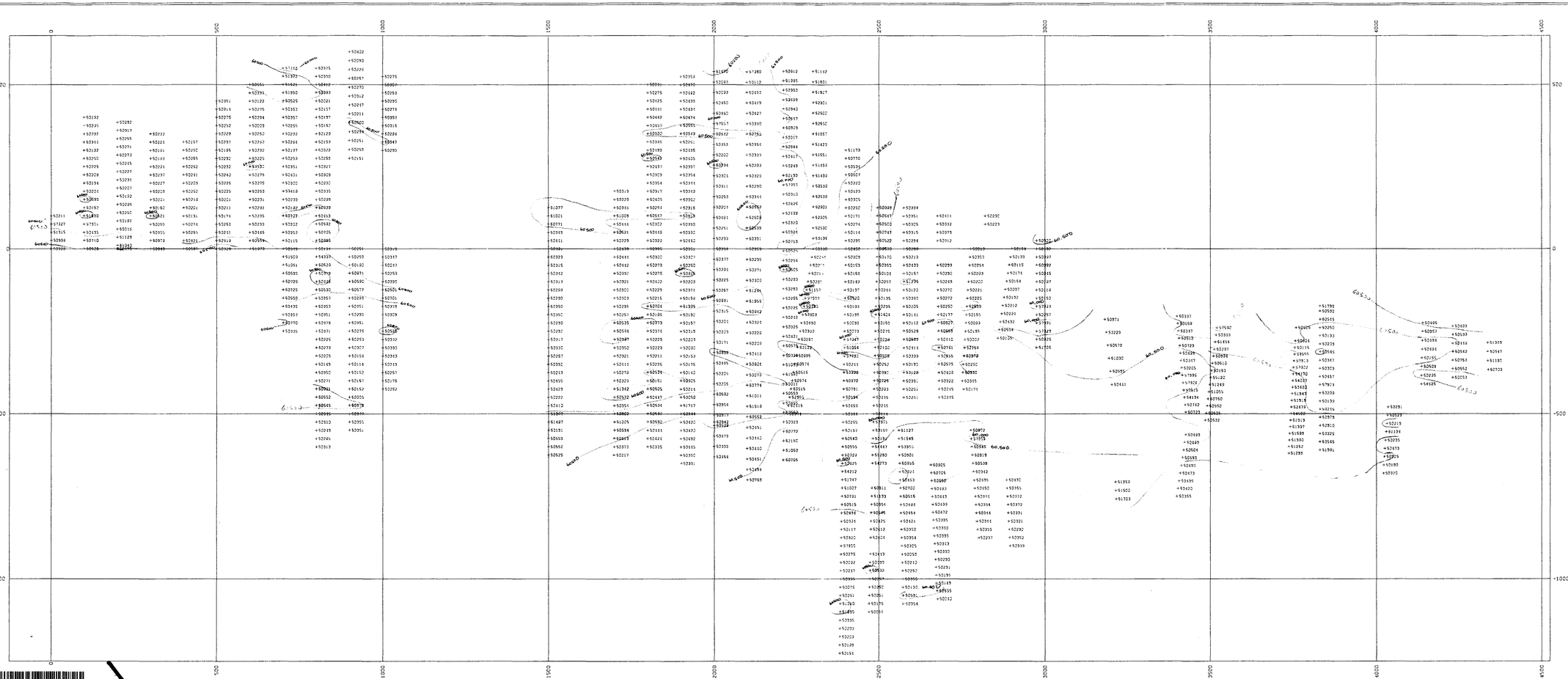
CARLTON LAKE

MAGNETIC SURVEY

2654

IP RECOMPANY REPORT BY:

M 15



LEGEND

LEVEL 1	59000.0 59500.0
LEVEL 2	59500.0 60000.0
LEVEL 3	60000.0 60500.0
LEVEL 4	60500.0 61000.0

SCALE 1:5000

0 100 200 300 400 500 meters

THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS & GEOPHYSICISTS OF ALBERTA
PERMIT NUMBER P 5552
HUNTING GEOSURVEYS LTD.

MANITOU LAKES

MAGNETIC SURVEY

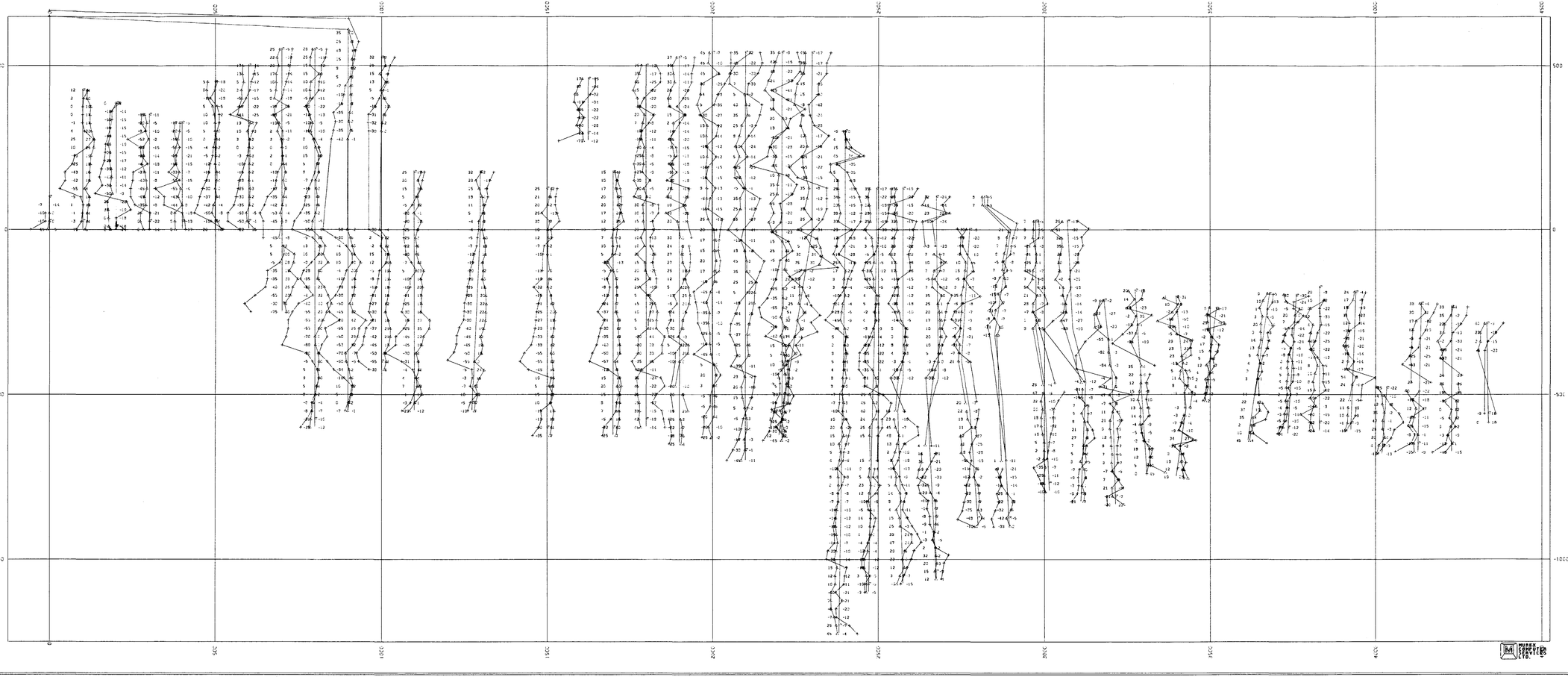
26542

TO ACCOMPANY REPORT BY:

26

HUNTING GEOSURVEYS LTD.

16



SCALE 1:5000

0 100 200 300 400 500 meters

THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS and GEOPHYSICISTS OF ALBERTA
PERMIT NUMBER P 3632
NOLIN GEO ENTERPRISES LTD.

MANITOU LAKES

VLF - GLASS BAY

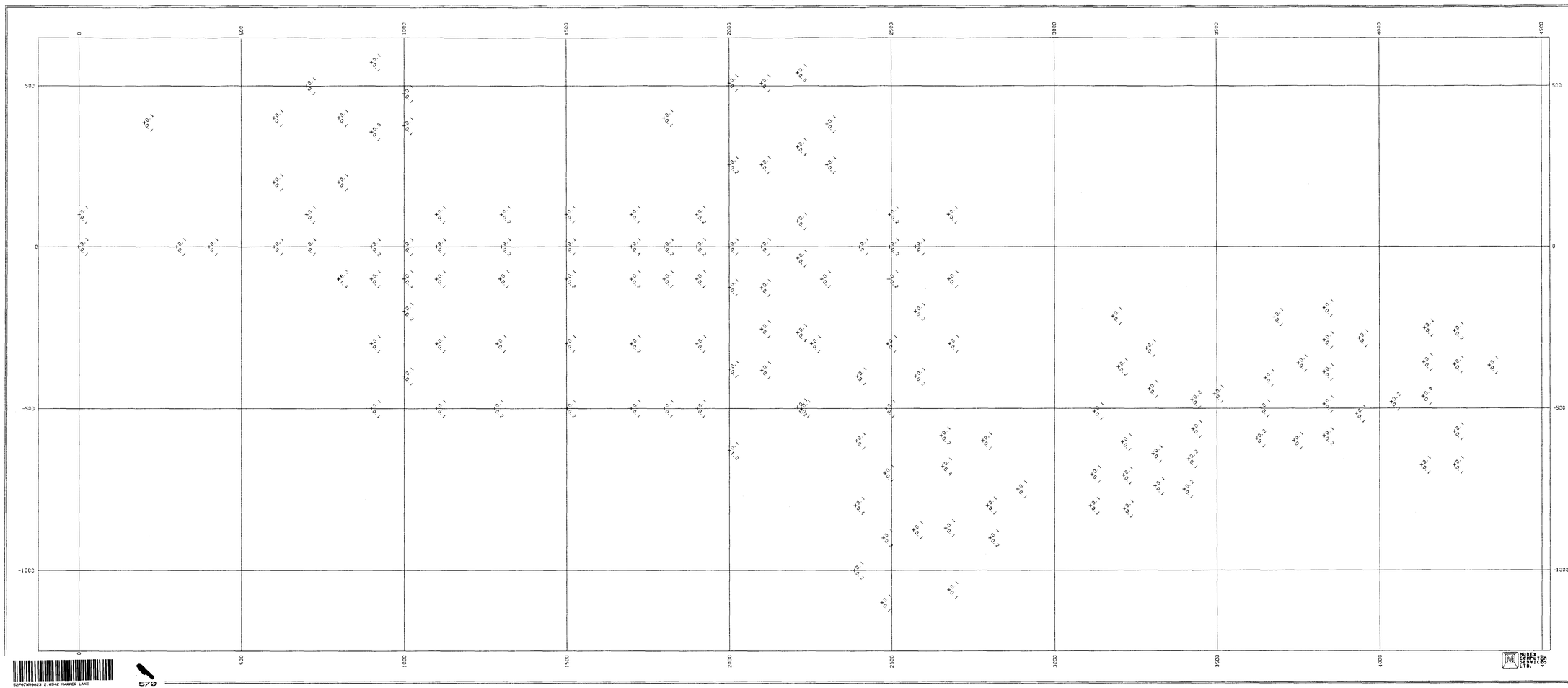
2.5542

TO ACCOMPANY REPORT BY:

25

MUREX COMPUTER SERVICES LTD.

17



LEGEND

LEVEL 1	0.0	- 0.1
LEVEL 2	0.1	- 0.2
LEVEL 3	0.2	- 0.3
LEVEL 4	0.3	- 100.0

SCALE 1:5000

0 100 200 300 400 500 Meters

THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS AND GEOPHYSICISTS OF ALBERTA
PERMIT HOLDER
P 3932
NOLIN GEO ENTERPRISES LTD.

MANITOU LAKES

ANTIMONY SILVER MAP

ng Topo 26542

TO ACCOMPANY REPORT BY:

#18

MAGEE GEOSERVICES LTD.

570


LEGEND
LEVEL 1 0.0 - 0.1
LEVEL 2 0.1 - 0.2
LEVEL 3 0.2 - 0.3
LEVEL 4 0.3 - 100.0
SCALE 1:5000
0 100 200 300 400 500 meters
THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS and GEOPHYSICISTS OF ALBERTA
PERMIT NUMBER P 3632
NOLIN GEO ENTERPRISES LTD.
26542
MANITOU LAKES
ANTIMONY - SILVER MAP
w Topo
TO ACCOMPANY REPORT BY:
#19 18A
MUREX COMPUTER SERVICES LTD.
52F07NW0023 2.6542 HARPER LAKE
580

LEGEND

LEVEL 1	0.0 - 150.0
LEVEL 2	150.0 - 195.0
LEVEL 3	195.0 - 220.0
LEVEL 4	220.0 - 1000.0

SCALE 1:5000

0 100 200 300 400 500 meters

THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS and GEOPHYSICISTS OF ALBERTA
PERMIT NUMBER P 3332
NOLIN GEO ENTERPRISES LTD.

26542

MANITOU LAKES

MERCURY - GLASS BAY

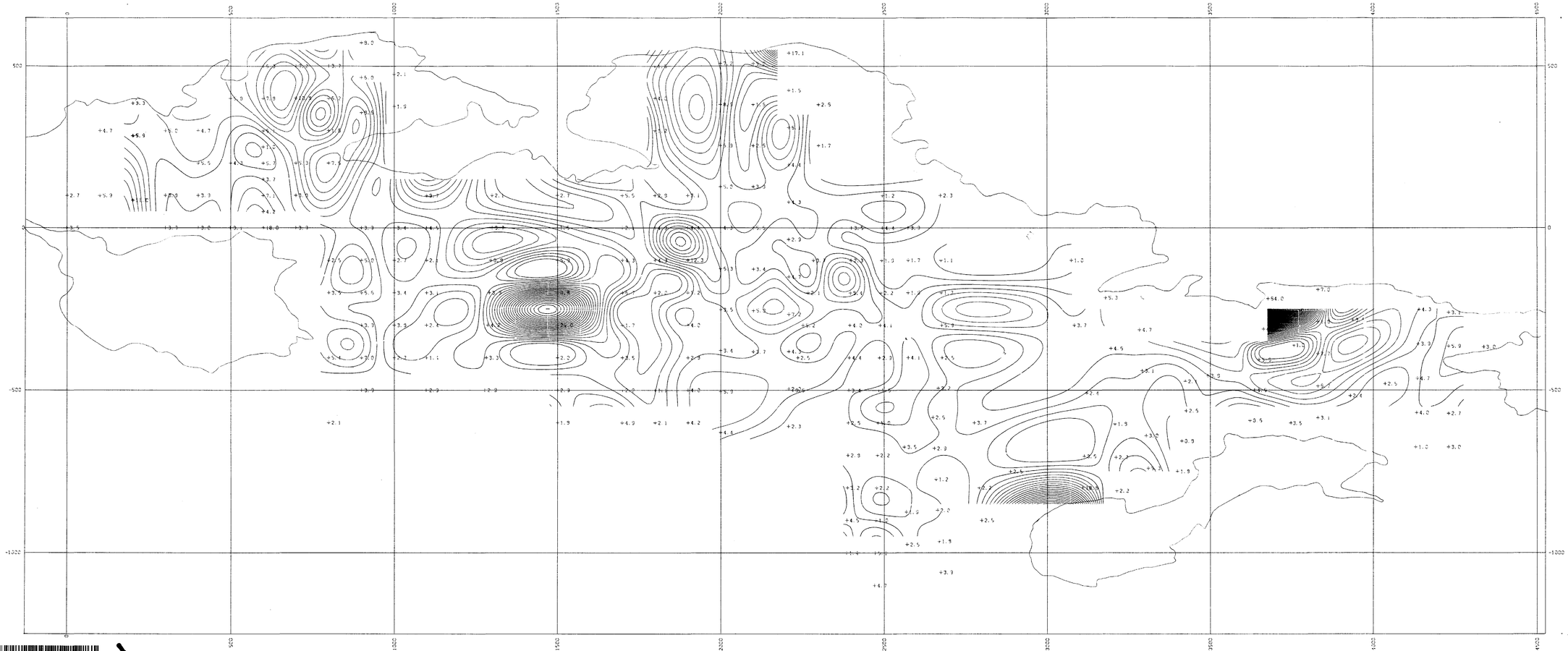
TO ACCOMPANY REPORT BY: SANolin

#18 19

MUREX COMPUTER SERVICES LTD.

52F07NW0023 2.6542 HARPER LAKE

590



LEGEND

LEVEL 1	0.0 - 2.3
LEVEL 2	2.3 - 4.7
LEVEL 3	4.7 - 10.5
LEVEL 4	10.5 - 100.0

SCALE 1:5000

0 100 200 300 400 500 meters

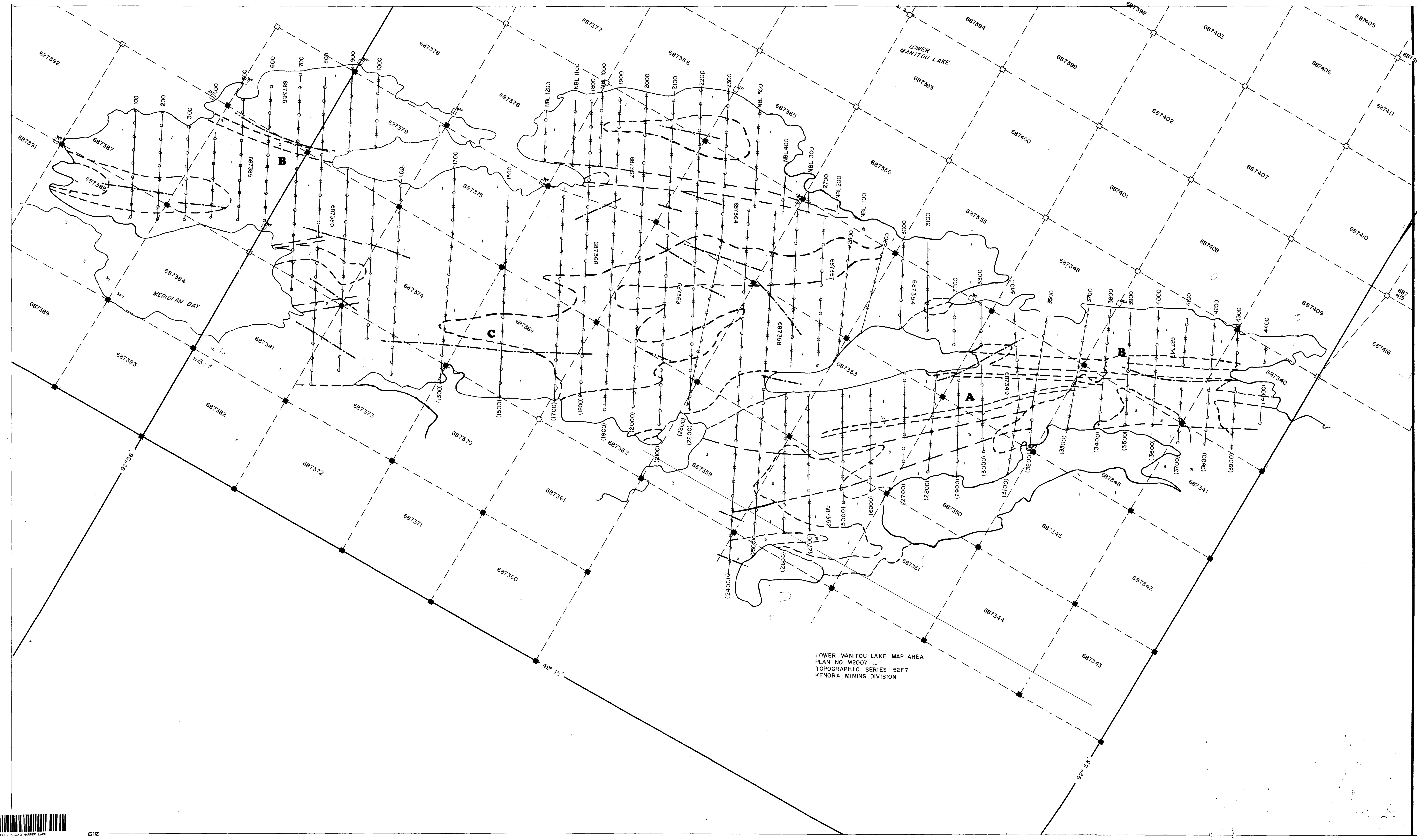
MANITOU LAKES

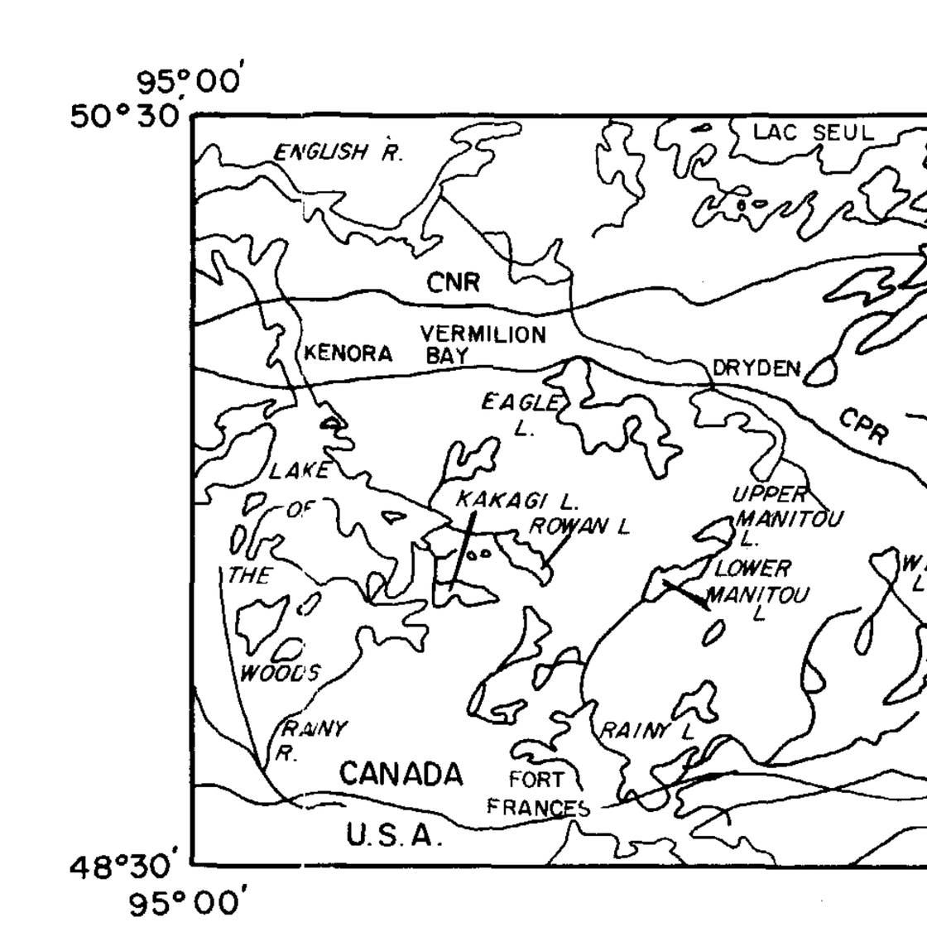
ARSENIC - GLASS BAY

TO ACCOMPANY REPORT BY:

#17

MINEX GEOPHYSICAL SERVICES LTD.





NTS REFERENCE 52F/7

LEGEND

1	FELSIC PLUTONIC ROCKS
2	QUARTZ PORPHYRY, QUARTZ - FELDSPAR PORPHYRY
3	MAFIC INTRUSIVE ROCKS
4	METASEDEMENTS
5	INTERMEDIATE OF FELSIC METAVOLCANICS
6	MAFIC METAVOLCANICS

GRID LINE
CLAIM LINE
TOWNSHIP LINE
710307 CLAIM NUMBER
WP WITNESS POST
STATION
FAULT
CONDUCTOR
TRENCH
ADIT
SHAFT
CLAIM POST
WITNESSED LOCATION

SCALE: 1: 5000
0 100 200 300 METERS

NOLIN-GEO ENTERPRISES LTD.

COMPOSITE MAP
RECONNAISSANCE GEOLOGY
GLASS REEF MINE
MANITOU LAKES PROJECT

FOR: COCHRANE OIL & GAS LTD. #21
SCALE: 1: 5000 | DATE: OCTOBER 1983
FIELD PROGRAM: OCTOBER 1983 | GEOLOGY BY:

Geol. assessed.

610


KE M-2668
Turtlepond Lake - M.2663
MEGGISI LAKE - M.2553
NG LAKE - M.2463
LEUILLER
STAKED
GOLD ROCK EXTENSION
GIANT
QUEEN ALEXANDRA
JOE GEDDES
GIANT
LEUILLER
GLASS REEF
GOLD ROCK EXTENSION
QUEEN ALEXANDRA
Cochrane - Sennol J.V.
Kenora Mining Division
NTS 52F-7
Lower Manitou Lake Area Map M2007
Harper Lake Area Map 2592
Boyer Lake Area Map 2582
26542.

NTS REFERENCE 52F/7

LEGEND

ARCHEAN

- 1 1a ANDESITIC FLOWS; 1b VOLCANIC CONGLOMERATE
- 2 GREYWACKE SILTSTONE
- 3 POLYMICTIC CONGLOMERATE; SANDSTONE, SILTSTONE
- 4 ARKOSIC SANDSTONE; SILTSTONE; MINOR LITHIC EQUIVALENTS
- 5 ARGILLITE; SILTSTONE
- 6 BRANDED IRON FORMATION
- 7 SHEARED EQUIVALENTS OF UNITS 2 THROUGH 6 (INCL.): 7a QUARTZ - BIOTITE - CHLORITE SCHIST; 7b QUARTZ - SERICITE - BIOTITE SCHIST; 7c QUARTZ - SERICITE - CHLORITE SCHIST;
- QUARTZ AND QUARTZ FELDSPAR PORPHYRY - INTRUSIVE CONTACT -
- BIOTITE - CHLORITE ISOGRAD

- GRID LINE
- CLAIM LINE
- TOWNSHIP LINE
- 710307 CLAIM NUMBER
- CLAIM POST
- WP WITNESS POST
- STATION
- FAULT
- CONDUCTOR
- OUTCROP EXPOSURE
- BEDDING (INCLINED, VERTICAL, DIP UNKNOWN)
- FOLIATION (INCLINED, VERTICAL, DIP UNKNOWN)
- SCHISTOCITY (INCLINED)
- Q Ca QUARTZ AND QUARTZ - CALCITE VEIN
- GEOLOGICAL CONTACT (KNOWN, INFERRED, GRADIATIONAL
- TRENCH
- ADIT
- SHAFT
- FOOT OF STEEP INCLINE (BARBS POINT UPHILL)
- MARSH
- Fe IRON
- Ca CALCITE
- Q QUARTZ
- Py PYRITE
- VALID CLAIM POST AND LINE

NOTE: ONLY EXTERNAL BOUNDARY LINES ARE SHOWN

- LAPSED CLAIM POST

SCALE: 1: 2000

0 25 50 75 100 METERS

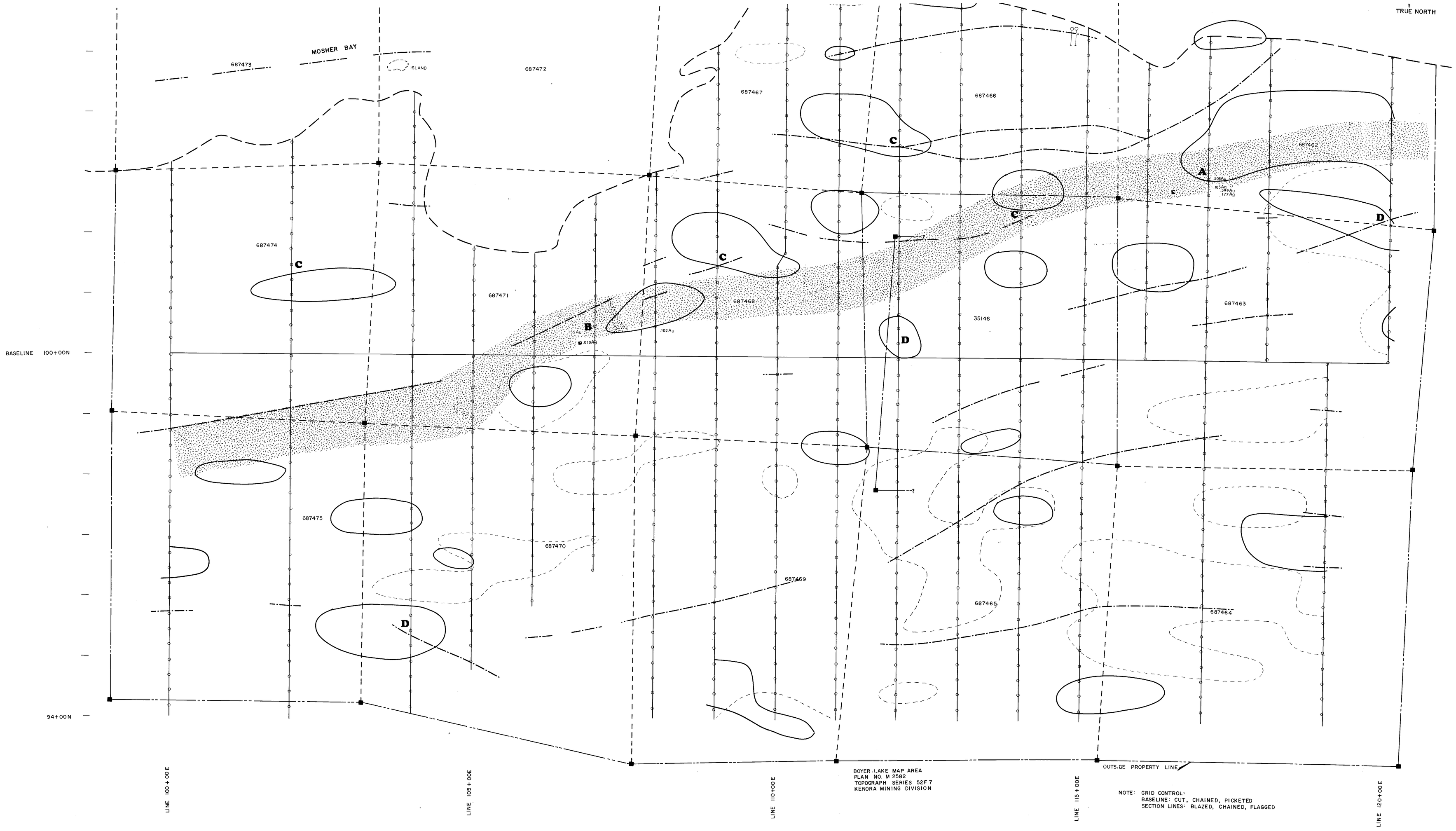
NOLIN-GEO ENTERPRISES LTD.

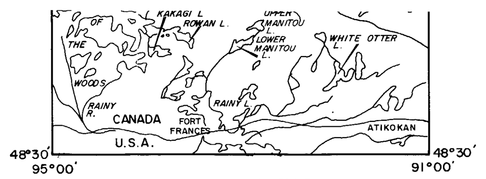
GEOLOGICAL MAP
MANITOU LAKES PROJECT
GIANT MINES GRID

FOR: COCHRANE OIL & GAS LTD #1

SCALE: 1: 2000	DATE: OCTOBER 1983
FIELD PROGRAM: OCTOBER 1983	GEOLOGY BY: W. MacLEOD

210





NTS REFERENCE 52F/7

LEGEND

ARCHEAN

- 1 — 1a ANDESITIC FLOWS; 1b VOLCANIC CONGLOMERATE
- 2 — GREYWACKE SILTSTONE
- 3 — POLYMICTIC CONGLOMERATE; SANDSTONE, SILTSTONE
- 4 — ARKOSIC SANDSTONE; SILTSTONE; MINOR LITHIC EQUIVALENTS
- 5 — ARGILLITE; SILTSTONE
- 6 — BRANDED IRON FORMATION
- 7a 7b 7c — SHEARED EQUIVALENTS OF UNITS 2 THROUGH 6 (INCL.):
  - 7a QUARTZ - BIOTITE - CHLORITE SCHIST;
  - 7b QUARTZ - SERICITE - BIOTITE SCHIST;
  - 7c QUARTZ - SERICITE - CHLORITE SCHIST;
- 8 — QUARTZ AND QUARTZ FELDSPAR PORPHYRY
- INTRUSIVE CONTACT
- BIOTITE - CHLORITE ISOGRAD
- GRID LINE
- CLAIM LINE
- TOWNSHIP LINE
- 710307 CLAIM NUMBER
- CLAIM POST
- WP WITNESS POST
- STATION
- FAULT
- CONDUCTOR
- OUTCROP EXPOSURE
- BEDDING (INCLINED, VERTICAL, DIP UNKNOWN)
- FOLIATION (INCLINED; VERTICAL, DIP UNKNOWN)
- SCHISTOCITY (INCLINED)
- QCa QUARTZ AND QUARTZ - CALCITE VEIN
- GEOLOGICAL CONTACT (KNOWN; INFERRED, GRADATIONAL)
- TRENCH
- ADIT
- SHAFT
- FOOT OF STEEP INCLINE (BARBS POINT UPHILL)
- MARSH
- Fe IRON
- Co CALCITE
- Q QUARTZ
- Py PYRITE
- VALID CLAIM POST AND LINE

NOTE: ONLY EXTERNAL BOUNDARY LINES ARE SHOWN

- LAPSED CLAIM POST
- ARSENIC ≥3.0 ppm
- MERCURY ≥200 ppb

SCALE: 1: 2000

0 25 50 75 100 METERS

BOYER LAKE MAP AREA
PLAN NO. M 2582
TOPOGRAPH SERIES 52F 7
KENORA MINING DIVISION

NOTE: GRID CONTROL:
BASELINE: CUT, CHAINED, PICKETED
SECTION LINES: BLAZED, CHAINED, FLAGGED

NOLIN-GEO ENTERPRISES LTD.

COMPOSITE MAP
MANITOU LAKES PROJECT
GIANT MINES GRID

FOR: COCHRANE OIL & GAS LTD.	#2
SCALE: 1: 2000	DATE: OCTOBER 1983
FIELD PROGRAM: OCTOBER 1983	GEOLOGY BY:

26542

92° 43'

92° 44'

92° 45'

49° 26'

49° 25'

49° 24'

49° 23'

TRUE NORTH

95°00' 50°30' 91°00' 50°30' 48°30' 95°00' 91°00' 48°30'

NTS REFERENCE 52F/7

LEGEND

- 1 FELSIC PLUTONIC ROCKS
- 2 QUARTZ PORPHYRY, QUARTZ - FELDSPAR PORPHYRY
- 3 MAFIC INTRUSIVE ROCKS
- 4 METASEDEMENTS
- 5 INTERMEDIATE OR FELSIC METAVOLCANICS
- 6 MAFIC METAVOLCANICS

- GRID LINE
- CLAIM LINE
- TOWNSHIP LINE
- 710307 CLAIM NUMBER
- WP WITNESS POST
- STATION
- FAULT
- CONDUCTOR
- TRENCH
- ADIT
- SHAFT
- CLAIM POST

SCALE: 1: 5000

0 100 200 300 METERS

2.6542

NOLIN-GEO ENTERPRISES LTD.

COMPOSITE MAP
RECONNAISSANCE GEOLOGY
GOLD ROCK EXTENSION GRID
MANITOU LAKES PROJECT

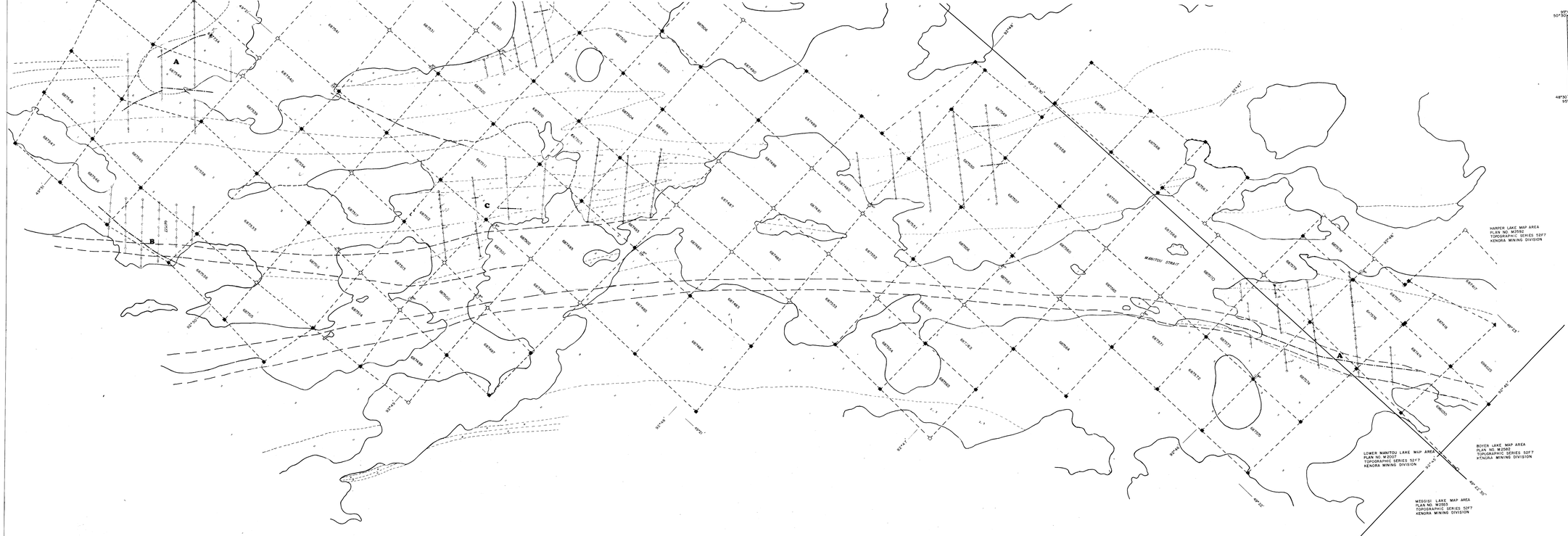
FOR: COCHRANE OIL & GAS LTD. # 8

SCALE: 1: 5000	DATE: OCTOBER 1983
FIELD PROGRAM: OCTOBER 1983	GEOLOGY BY: Dr. VONHOF

Geol. assessed.

HARPER LAKE MAP AREA
PLAN NO. 2592
TOPOGRAPHIC SERIES 52F7
KENORA MINING DIVISION

BOYER LAKE MAP AREA
PLAN NO. M2582
TOPOGRAPHIC SERIES 52F7
KENORA MINING DIVISION



LEGEND

1. FELSIC PLUTONIC ROCKS
2. QUARTZ PORPHYRY, QUARTZ - FELDSPAR PORPHYRY
3. MAFIC INTRUSIVE ROCKS
4. METASEDEMENTS
5. INTERMEDIATE OF FELSIC METAVOLCANICS
6. MAFIC METAVOLCANICS

- GRID LINE
- CLAIM LINE
- TOWNSHIP LINE
- 710307 CLAIM NUMBER
- WITNESS POST
- STATION
- FAULT
- CONDUCTOR
- TRENCH
- ADIT
- SHAFT
- CLAIM POST
- WITNESSED LOCATION

SCALE 1 5000
0 100 200 300 METERS

NOLIN-GEO ENTERPRISES LTD.

COMPOSITE MAP
RECONNAISSANCE GEOLOGY
QUEEN ALEXANDER MINES GRID
MANITOU LAKES PROJECT

FOR: COCHRANE OIL & GAS LTD. Dec 12, 1983

SCALE - 1:5000	DATE: OCTOBER 1983
FIELD PROGRAM-OCTOBER 1983	GEOLOGY BY: Dr. VON HOF

26542