

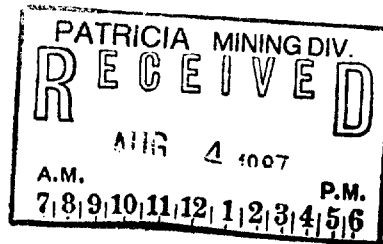


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REPORT
ON
DIAMOND DRILLING
OPAPIMISKAN LAKE PROPERTY
KENORA MINING DIVISION
(PATRICIA PORTION)
ONTARIO
FOR
ORACLE RESOURCES LTD.

VOLUME I



June, 1987

D.J. Corkery, B.Sc.



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1.0 SUMMARY

A recently completed 10,467 foot diamond drilling program on the Opapimiskan Lake property of Oracle Resources Ltd. has intersected new significant gold mineralization and tested extensions and continuity of mineralized zones discovered in the 1985 diamond drill program.

The 138 claim property lies in the North Caribou Lake sedimentary-volcano belt 75 miles north-northwest of Pickle Lake, Ontario. It adjoins the Musselwhite property to the south on which reserves of 2.2 millions tons grading 0.24 ounces gold/ton (Snoppy Lake deposit) and 3.2 million tons grading 0.17 ounces gold/ton (original Musselwhite deposit) have been reported.

The property straddles the axis and much of the west limb of a major north-northwesterly trending synform. The core of the synform is occupied by felsic to intermediate volcanics with minor mafic to ultramafic volcanics and clastic and chemical sediments. The flanks are comprised mainly of mafic volcanics. A major iron formation band which hosts the Musselwhite deposits extends onto the Opapimiskan Lake property where it forms a north-northwesterly plunging antiform.

In 1985, a 5,000 foot diamond drilling program intersected excellent gold values in the hinge area and west limb of the main band of the iron formation. In the 1986-87 diamond drill program, twenty holes were drilled to test extensions and the continuity of these mineralized zones. Several gold intersections were encountered. The shape and orientation of the mineralized zones is not fully understood; further drilling is required to delineate the zones.

An additional ten (10) holes were drilled into the hinge area of the antiform down-plunge from previous drilling. Numerous significant intersections of gold mineralization were encountered in both the banded iron formation and the overlying garnetiferous sediments on the hinge area and west limb near the hinge area. The best 1986-87 gold intercepts of 1.01 ounces per ton over 4.4 feet and 0.21 ounces per ton over 4.5 feet were encountered in the northwesternmost holes drilled in the northwesterly plunging structure.

Further work (including prospecting) is warranted over anomalous gold and arsenic zones encountered in the humus survey which was carried out concurrently with drilling.

A 5,000 foot diamond drill program is recommended to test down-plunge extensions of mineralization on the hinge area and down-dip extensions of the west limb. The recommended program also includes detailed mapping and prospecting on the original 46 claims; and line cutting, geophysical surveys, geological mapping and prospecting on the 92 unsurveyed claims. The estimated cost of the recommended program is \$386,088.

2.0 INTRODUCTION

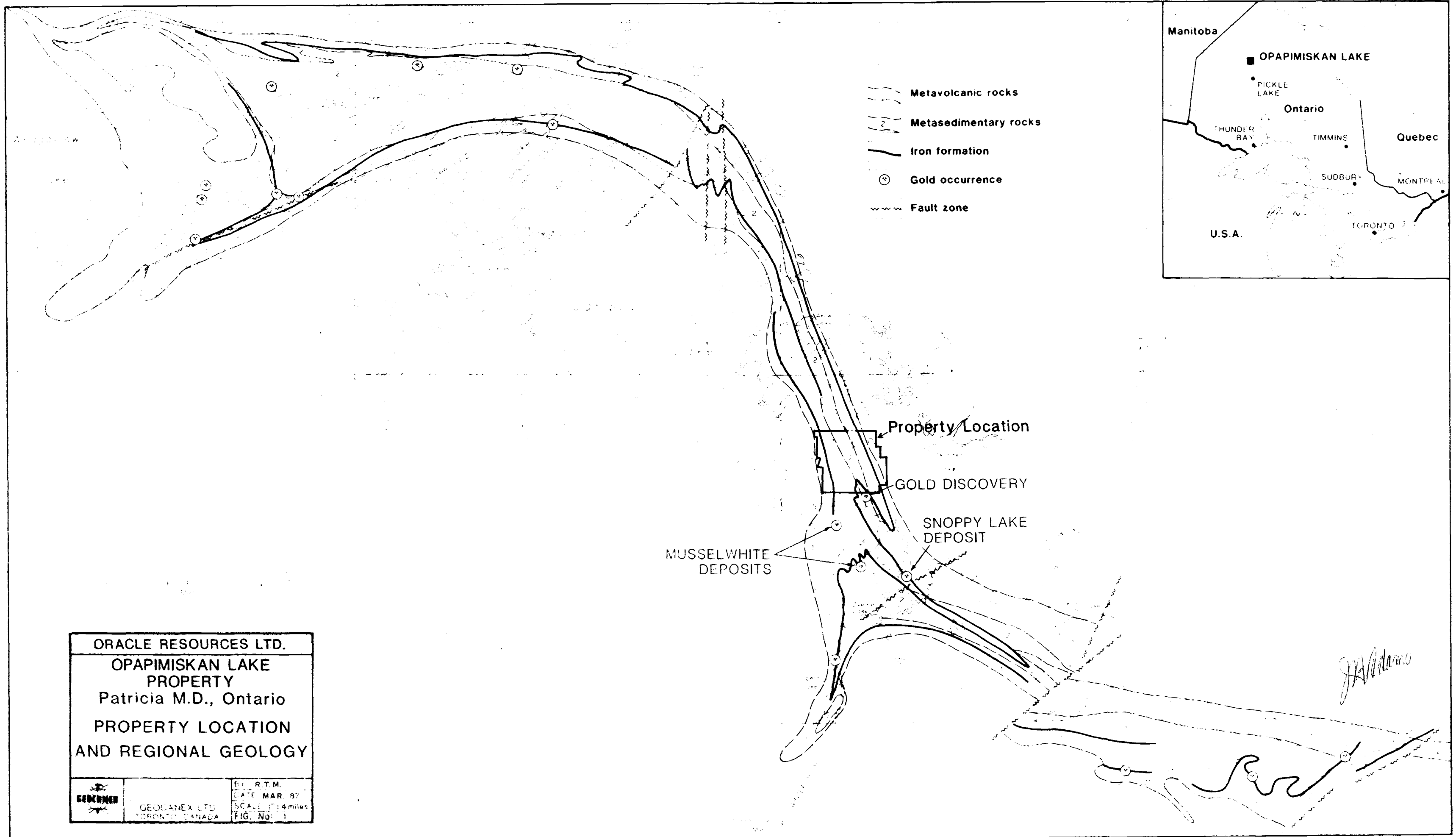
Oracle Resources Ltd. has completed a 10,467 foot (3175 m) diamond drilling program, involving thirty (30) boreholes, on its Opapimiskan Lake Property 75 miles (120 km) north-northwest of Pickle Lake in northwestern Ontario (Fig. No. 1).

This report is a description of the results of the program. Drilling was carried out between September 18, 1986 and January 15, 1987 and was based on the 1985 diamond drilling program described in a separate report (Adams, 1985).

A humus sampling program was conducted over two sections of the property from October 12 to October 19, 1986 to cover geophysical anomalies in potentially favourable areas not tested by diamond drilling.

The property, consisting of a block of 138 unpatented claims, adjoins the Musselwhite property to the south which is owned by a consortium comprised of Dome Explorations, Canadian Nickel Co., Esso Minerals and Lacana Mining Corp. The Musselwhite deposit has reported reserves of 2.2 million tons grading 0.24 ounces of gold/ton (Snoppy Lake) and 3.2 million tons grading 0.17 ounces gold/ton (West Anticline Zone).

Drilling was supervised by Geocanex Ltd. of Toronto and carried out by Langley Drilling Limited of Brampton, Ontario. Personnel involved in the program were:



ORACLE RESOURCES LTD.
 OPAPIMISKAN LAKE
 PROPERTY
 Patricia M.D., Ontario
 PROPERTY LOCATION
 AND REGIONAL GEOLOGY

GEOLANEX LTD.
 TORONTO, CANADA

By R.T.M.
 DATE MAR. 97
 SCALE 1" = 4 miles
 FIG. No. 1

J. Williams

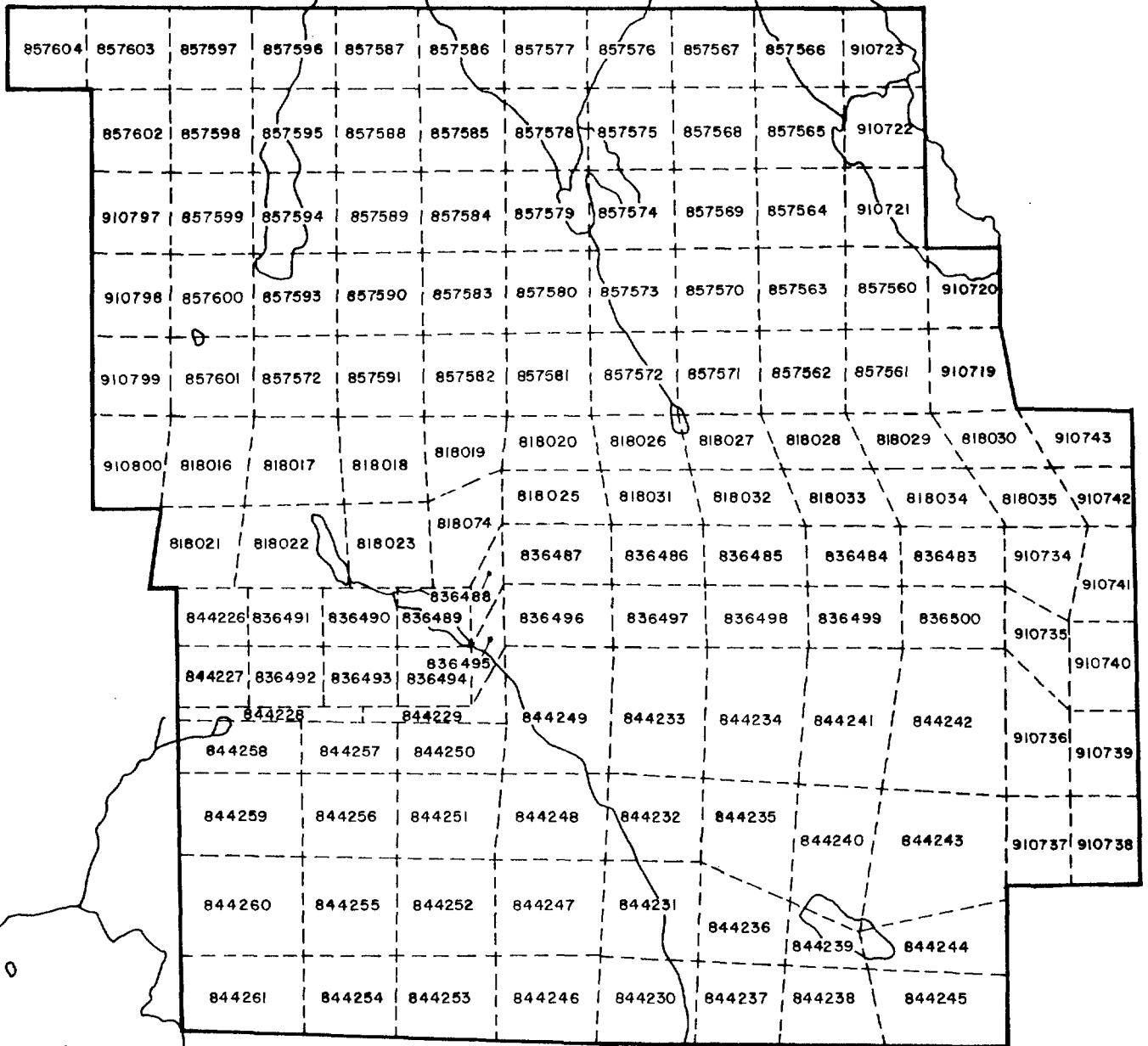
D. Corkery	Project Geologist	Cobourg, Ont.
B. Elliott	Geologist	Oshawa, Ont.
L. Jones	Geologist	Collingwood, Ont.
S. Gilbert	Core Splitter	Pickering, Ont.
S. Shikaze	Core Splitter	Scarborough, Ont.
P. Davie	Soil Sampler	Milton, Ont.
R. Koch	Soil Sampler	Barrie, Ont.
R. Lindsey	Soil Sampler	Thunder Bay, Ont.
G. Zuiderveen	Soil Sampler	Windsor, Ont.

3.0 PROPERTY DESCRIPTION

The Opapimiskan Lake property is comprised of 138 contiguous mining claims in the Patricia Mining District of North-western Ontario (Fig. No. 2). The claims are recorded on the Ministry of Natural Resources Plan No. M2707, Skinner Lake Area. Claim numbers and dates of record are as follows:

<u>Claim Nos.</u>	<u>No. of Claims</u>	<u>Date of Record</u>
PA 844226 to 844229	4	July 16, 1985
PA 844230 to 844261 incl.	32	August 22, 1985
PA 818016 to 818035 incl.	20	August 27, 1985
PA 857560 to 857604 incl.	45	August 27, 1985
PA 836483 to 836500 incl.	18	July 16, 1985
PA 910797 to 910800 incl.	4	November 27, 1986
PA 910734 to 910743 incl.	10	November 27, 1986
PA 910719 to 910723	<u>5</u>	November 27, 1986
TOTAL	<u>138</u>	

The property is presently subject to a joint venture agreement between Van Horne Gold Exploration Inc. and Oracle Resources Ltd.



M. Adams

ORACLE RESOURCES LTD.	
OPAPIMISKAN LAKE PROPERTY	
Patricia M.D., Ont.	
CLAIM SKETCH	
 GEOCANEX LTD TORONTO, CANADA	BY: H.H. / R.T.M. DATE: NOV. 1985 SCALE: 1:2640 FIG. No. 2

4.0 LOCATION, ACCESS AND SERVICES

The property is located in northwestern Ontario (Lat. 52° 41'N, Long. 90° 26'W), 75 miles (120 km) north-northwest of Pickle Lake.

Summer access is best gained by float equipped aircraft to Opapimiskan Lake from air bases at Pickle Lake or Windigo Lake. Winter access is possible via approximately 30 miles of winter road to the Musselwhite deposit on Opapimiskan Lake. The winter road connects with Highway 98, an all-weather gravel road which runs north from Pickle Lake to Windigo Lake. Highway 599, a paved all-weather road, connects Pickle Lake to the Canadian National transcontinental railway line at Savant Lake, 90 miles (145 km) to the south and the Trans-Canada Highway at Ignace, 180 miles (290 km) to the south.

Pickle Lake, a mining and transportation centre with a population of approximately 350, can provide most services and supplies.

5.0 PHYSIOGRAPHY AND VEGETATION

Most of the area is relatively flat woodland with abundant swampy areas. Much of the east half of the property is low-lying and slightly wet. There is a small increase in elevation in the west half, resulting in drier ground. Bedrock exposure is sparse in the east half of the property but moderate in the west.

Much of the property is covered by spruce with a mixture of jackpine, poplar and birch in areas of higher ground and alders, tamarack and balsam in low-lying wet sections.

6.0 PREVIOUS WORK

Gold was discovered on the adjacent Dome-Inco-Esso-Lacana property by the Musselwhite brothers in 1962.

Kenpat Mines Ltd. conducted an exploration program over the property in 1962-1963. The survey consisted of a magnetometer survey, geological mapping, trenching and diamond drilling.

In 1973, the Musselwhite brothers formed a grubstake funded by joint venture partners Dome, Inco, Esso and Lacana. Since that time an intermittent program of geophysical and geochemical surveying, prospecting, geological mapping, trenching and diamond drilling led to the discovery of the "West Anticline Zone" in 1980 (R.S. Hall and D.M. Rigg, 1986).

In 1981, 493217 Ontario Ltd. staked a group of 46 claims to cover aeromagnetic anomalies extending northward above the northern boundary of the Musselwhite property. These claims covered the southern third of the current Oracle Resources Opapmiskan property.

In 1982, electromagnetic and magnetic surveys, geological mapping, soil sampling, prospecting and trenching were completed over the 493217 Ontario Ltd. property. A gold value of .09 ounces per ton over 11 feet was returned from a trench in contorted iron formation in the southeastern section of the property. An assay of .06 ounces per ton gold was obtained from a 2 foot wide sulfide zone near the northwestern boundary of the property.

In 1984 Dome et al developed an exploration decline and crosscut into the West Anticline Zone (Hall and Rigg, 1986). This resulted in the delineation of gold deposits containing 3.2 million tons grading 0.17 ounces/ton (Adams, 1985). Since then, surface drilling has located the Snoppy Lake deposit to the east which has reported reserves of 2.2 million tons grading 0.24 ounces of gold per ton.

In 1984, Koala Resources Ltd. optioned the 493217 Ontario Ltd. property and conducted magnetic surveys on lines 200 feet apart (original lines were 400 feet apart) to refine the structure of the iron formation in the southeastern section of the property.

From 1984 to 1986 the Ontario Geological Survey (O.G.S.) conducted a three year integrated geoscience survey of the North Caribou Lake Belt. In 1985 the O.G.S. released maps on electromagnetic and total field magnetic surveys of the North Caribou Lake Belt.

In 1985, Van Horne Gold Exploration Ltd. acquired the 493217 Ontario Ltd. property and completed a 5,000 foot (12 hole) drilling program. Excellent gold values were encountered in the main iron formation including 42.1 ounces/ton over 0.5 feet, 1.64 ounces/ton over 2.8 feet, 0.312 ounces/ton over 2.6 feet and 0.263 ounces/ton over 1.6 feet.

The discovery of discrepancies in the original staking led to the restaking of the entire block in July and August 1985. The positive results of the drilling program led to the acquisition of additional claims to the north and west bringing the total number of claims to 138.

In 1986, Oracle Resources entered a joint venture with Van Horne Gold Exploration Inc. and conducted the current drill program.

7.0 REGIONAL GEOLOGY AND ECONOMIC MINERALIZATION

The Opapimiskan Lake property lies within the North Caribou Lake volcano-sedimentary belt situated within the Sachigo Subprovince. The property straddles a 2.5-mile wide neck in the belt near its southern end. The belt extends approximately 50 miles to the north and west. Immediately south of the property the belt bifurcates and extends southerly through Libert Lake for 10 miles and east-south-easterly through Neawagank Lake for 30 miles (Fig. No. 1).

In the area of the property the belt is comprised of a central band of clastic metasediments and felsic to intermediate volcanics enclosed on the east and west by mafic volcanics with interbedded oxide and silicate facies iron formation. This entire sequence is bounded on the west by granitic intrusives and on the east by migmatite and granite.

Metasediments are mainly quartzites, greywackes and chemical sediments. Chemical sediments are comprised of interbedded magnetite, chert and mafic tuff, and range from 10 to 100 meters in width. Sulphides occur in sparse concentrations and consist of pyrite, pyrrhotite and arsenopyrite. Gold is associated with the sulphides (Andrews et al, 1981).

Metamorphic grades in the belt range from upper greenschist to middle amphibolite facies.

Structurally the metavolcanic-metasedimentary sequence appears to have been folded into an isoclinal syncline which strikes slightly west of north. The axis of the syncline apparently coincides with the central metasedimentary band. South of the property where the belt bifurcates, minor but intense parasitic folding is evident in the iron formation, indicating a north-northwesterly plunge at 30° to 50° (Thurston et al, 1979).

Economically, gold is the most important metal in the Weagamow-North Caribou belt. Gold mineralization at the Musselwhite deposit is stratabound and occurs on the crest and one limb of a complexly folded band of oxide facies

iron formation. The iron formation is structurally overlain by a thick unit of pelitic metasedimentary rocks and underlain by ultramafic rocks. Gold is believed to have been introduced during the second of three phases of deformation. Best gold mineralization is reported to occur in areas of intense magnetite-destructive alteration to grunerite. Gold mineralization occurs as a) "subvertically dipping, auriferous quartz-pyrrhotite veinlets and lenses" and b) "stratabound zones of disseminated gold mineralization" (Hall and Rigg, 1986).

8.0 PROPERTY GEOLOGY

The property is underlain mainly by mafic volcanics with local ultramafics, sediments, felsic volcanics and oxide facies iron formation. Minor lamprophyre dikes, subconcordant to concordant quartz-feldspar porphyry dikes and at least one large diabase dike intrude these units. All units have been metamorphosed to grades from upper green schist to lower amphibolite facies.

Structurally, the property is dominated by a large north-northwesterly trending synform, the core of which is occupied by felsic to intermediate volcanics with minor mafic and ultramafic volcanics as well as clastic and chemical sediments. The core is flanked to the east and west by mafic volcanics with minor felsic interbeds. At least two bands of banded oxide facies iron formation occur in the central core area. The synform is complicated by the

presence of a smaller north-northwesterly plunging antiform on the western limb of the synform. The antiform is expressed on the property as the nose of a large open fold, the west limb of which has been traced south of the property to the Snoppy Lake and Musselwhite deposits. The northwesterly plunge of this structure has resulted in the iron formation marker beds being thrown into a large tight Z fold.

The antiform contains two bands of iron formation. The thicker outer band has been thrown into a series of parasitic folds on both limbs. Drilling indicates a fold axis which plunges shallowly to the north (20-25°) and a north-northwesterly trending axial plane that dips to the west.

A generalized stratigraphy of the central part of the belt is shown in Table 1. The antiform is cored by mafic volcanics that are cut by a series of quartz, calcite and quartz-calcite veins. The mafics are overlain by the thinner lower band of iron formation. This is overlain by ultramafic volcanics with some mafic to ultramafic zones. The ultramafics are in turn overlain by the main band of iron formation that grades into a pelitic sedimentary unit. This is overlain by mixed felsic volcanoclastics, and mafic volcanics which form the core of the synform.

Rock types on the property are described as follows:

TABLE 1

GENERALIZED STRATIGRAPHIC COLUMN

Proterozoic

Diabase Dikes

Lamprophyre Dikes

Archean

Clastic Sediments and Volcanics

- 1) Arkosic quartzite, rhyolite to dacite flows and tuffs
- 2) Mafic volcanics

Garnetiferous Sediments with Chert-Magnetite Interbeds

Chemical Sediments - upper or main band iron formation

Ultramafic-Mafic Volcanics (and Intrusives?)

Mafic Volcanics

MAFIC VOLCANICS

The mafic volcanics that core the antiform are predominantly basaltic but contain minor andesitic beds. They are medium to dark green to black, generally massive flows with few tuffaceous units. Rocks are comprised of actinolite-tremolite and chlorite with occasional biotite, particularly in tuffaceous horizons.

The mafic volcanic unit above the pelitic sediments is dark green, fine grained, massive and consists essentially of hornblende, actinolite and plagioclase with minor quartz.

LOWER IRON FORMATION

This unit has only been observed in drill core. The iron formation is predominantly oxide facies with some minor sulphide-rich zones. Oxide facies sections are composed of iron-rich bands from a few tenths to one inch thick, interbedded with bands of recrystallized chert. The dark grey iron-rich bands consist of magnetite and grunerite cores with grunerite rims. The unit is interbedded with chlorite schist and narrow bands of mafic volcanics.

ULTRAMAFIC VOLCANICS

These rocks have been identified on the property only in drill core. The main ultramafic unit lies below the upper or main band of iron formation. There are a number of the ultramafic units, however, that occur within both the main iron formation and the pelitic sediments. The rocks are

fine to very fine grained, weakly foliated and pale grey-green with few intervals of dark green mottling. The mineralogy is dominated by tremolite-serpentine with local zones of talc-serpentine schist + carbonate + phlogopite and up to 5% very fine grained disseminated magnetite. Near the contact with the upper or main iron formation band the ultramafic unit generally becomes strongly foliated due to the development of abundant oriented phlogopite crystals. The unit is generally uniform in colour but a few intervals contain abundant dark green ovoid clots of serpentine.

UPPER IRON FORMATION

This unit is exposed in three outcrops on surface and was intersected numerous times in drilling. The band is variable in composition but is generally similar to the lower band. The significant difference between this and the lower unit is the common occurrence of thin interbeds of pelitic sediments in the upper unit. In several drill holes, upper intervals of the main band display weak alteration to grunerite and consist dominantly of magnetite and chert laminae. Pyrrhotite, averaging between trace and 1.0% with locally higher concentrations, occurs as disseminations and blebs within magnetite bands and as fracture fillings with quartz and calcite. Trace pyrite with local higher concentrations occur as fracture fillings and in veinlets. Several zones contain trace arsenopyrite with a few narrow intervals containing up to 0.5%. Drilling has intersected intervals interpreted as sulphide facies iron formation comprised of laminated chert and pyrrhotite. Although interpreted as an original sedimentary feature, the pyrrhotite laminae are possibly the result of sulphidation.

PELITIC SEDIMENTS

The upper or main iron formation band grades into a unit of pelitic sediments. The unit is comprised dominantly of biotite and pink garnet poikiloblasts with varying amounts of quartz and grunerite. Thin interbeds of recrystallized chert and chert-magnetite comprising up to 50% of the rock occur particularly near the contact with the upper or main iron formation. Locally, the unit has abundant relict staurolite and hornblende-rich, garnet-deficient bands.

ARKOSIC QUARTZITES

These rocks have not been intersected in drill holes. This unit does, however, appear to be younger than the garnet biotite schist unit and has been mapped in bedrock in the core area of the syncline (Hodge, 1982). They are fine grained, strongly foliated, brownish grey with equal amounts of quartz and grey feldspar, and minor brown biotite.

FELSIC VOLCANICS

These are found to occur in minor amounts both in mafic volcanics throughout the property and in the pelitic sediments near the synclinal axis. Occasional narrow bands of siliceous, cherty tuff occur as interbeds within the mafic flows. White weathering rhyolitic rocks with the mafic volcanics have been interpreted as tuffaceous bands and/or dikes. These are most common in the western half of

the property. Bands of felsic tuff comprised of quartz-sericite + biotite + feldspar + hornblende were encountered stratigraphically above the pelitic sediments and as interbeds near the top of the sedimentary unit.

LAMPROPHYRE DIKES

Several fine to very fine grained black porphyritic lamprophyre dikes were encountered in drilling.

DIABASE

A large medium to coarse grained diabase dike outcrops south of the small pond immediately north of the antiform. The magnetic signature of the dike indicates it is subconcordant and trends slightly west of the north-northwest trend of the synclinal axis.

9.0 SUMMARY OF PROPERTY GEOPHYSICS

Electromagnetic and magnetic surveys have been conducted over the property (Gillick, 1982 and Burton, 1984). On the western portion of the property is a system of coincident, north-south trending electromagnetic and magnetic anomalies. A broad zone of iron formation which appears to have an en echelon form, suggest possible fracturing, faulting and drag folding.

In the southeastern portion of the property, anomalies represent the northern continuation of the main, highly contorted iron formation which hosts the Musselwhite and Snoppy Lake deposits. The iron formation is actually two complexly folded bands of iron formation with a west dipping axial plane and gentle north-northwest plunge.

The magnetic survey was conducted concurrently with the drilling program on a small grid (100 foot spacings) cut for the drill project. No significant changes were indicated from the earlier surveys.

10.0 DIAMOND DRILLING PROGRAM

10.1 Description of Program

The drilling program was carried out by Langley Drilling Ltd. under the supervision of Geocanex Ltd. A total of 10,467 feet was drilled in thirty (30) holes (B.Q. size). Drilling was carried out from September 18, 1986 to December 15, 1986 and from January 10, 1987 to January 15, 1987. Casing was left in all holes.

Drill core was logged, split and stored on site. All iron formation and clastic sediments were sampled. In all other units, zones and features considered favourable for gold mineralization were sampled. These include quartz, calcite and sulphide mineralization, shearing and alteration. Samples were shipped to Couchenour Fire Assaying Ltd. in Couchenour, Ontario where they were fire assayed for gold.

The base line established for the 1985 drill program was extended to 19+00NW at a bearing of N41°W. Two point seven miles of line were cut over the iron formation in the southeast section of the property at a bearing of N49°E with 100 foot spacings. Bore holes were drilled at azimuths of 049° or 129°.

All holes were drilled to intersect the iron formation in the southeast section of the property. Twenty (20) holes were drilled on the east and west limbs to test for extensions and continuity of mineralized zones encountered during the 1985 drilling. Ten (10) holes were drilled to intersect the iron formation at the axial plane of the antiform.

10.2 Discussion of Results

Drawing No. 1 (scale 1" = 100 feet) is a compilation showing assay highlights, surface projections of drill holes and magnetic contours for the 1985 and 1986-87 drill programs in the area of the antiform in the southeast corner of the property (Appendix C). Table II is a summary of assay highlights for the 1986-87 program. Table III contains a short summary for each hole. Diamond drill logs are compiled in Appendix G and drill sections may be found in Appendix C.

Twenty (20) holes were drilled to test zones of significant gold mineralization in the apex and west limb zone encountered in holes drilled in the 1985 diamond drill program.

Hole OP-85-7 tested the eastern half of the fold apex (13+25NW). Three significantly mineralized zones were encountered yielding high gold assays of 42.1 ounce/ton over 0.5 feet, 0.08 ounces/ton over 3.3 feet, 0.043 ounces/ton over 15.0 feet and 0.046 ounces/ton over 5.0 feet. Holes OP-86-1, 2, 3, 4, 17 and 19 were drilled to test these zones. Hole OP-86-2 yielded two gold assays of 0.08 ounces/ton over 5.0 feet and 5 assays of 0.06 ounces/ton over 5.4, 5.0, 4.0 and 1.0 feet. Hole OP-86-3 yielded high gold assays of 0.06 ounces/ton over 5.0 feet and 0.05 ounces/ton over 5.0 feet. Hole OP-86-19 yielded an assay of 0.07 ounces/ton gold over 5.0 feet. Numerous intersections assayed over 0.01 ounces of gold per ton.

In 1985, hole OP-85-8 was drilled in the west limb and intersected gold values of 1.64 ounces/ton over 2.8 feet and 0.072 ounces/ton over 4.4 feet. Holes OP-86-5, 6, 7, 8, 9 were drilled to test this anomalous mineralization. Hole OP-86-6 encountered gold intersections assayed at 0.09 ounces/ton over 3.2 feet and 0.14 ounces/ton over 4.5 feet. Hole OP-86-7 intersected mineralization assayed at 0.16 ounces/ton gold over 3.0 feet.

Hole OP-85-9 was also drilled to test the west limb of the antiform through a probable parasitic fold. Abundant gold mineralization was encountered including intersections assayed at 0.263 ounces/ton over 1.6 feet, 0.086 ounces/ton over 1.5 feet and 0.312 ounces/ton over 2.6 feet. Holes OP-86-10, 11, 12, 13, 14 were drilled to test this mineralization. OP-86-11 yielded a zone assayed at 0.06 ounces/ton gold over 5.0 feet.

Hole OP-85-6 was drilled to test the east limb in a zone of parasitic folding. It yielded numerous intercepts of significant gold mineralization including 0.102 ounces/ton over 3.9 feet and 0.105 ounces/ton over 3.9 feet. Holes OP-86-15, 16 and 21 were drilled to test this mineralization. OP-86-21 intersected a zone assayed at 0.16 ounces/ton over 5.0 feet.

Hole OP-86-18 was drilled to complete a fence between OP-86-5 and OP-86-19 as well as to further test high gold intersections encountered near the apex in holes OP-85-5, 7 and 8. No significant gold zones were encountered.

Ten (10) holes were drilled into the hinge zone to intersect the main iron formation at the axial plane of the antiform. The holes were OP-86-20, 22 to 28 and OP-87-1 and 2. Nineteen (19) samples yielded gold values equal to or above 0.05 ounces/ton, while 9 samples yielded assays equal to or above 0.10 ounces/ton. The highest gold intersections were 1.01 ounces/ton over 4.4 feet (OP-87-2) and 0.21 ounces/ton over 2.7 feet (OP-87-28). Of those samples yielding values of 0.10 ounces/ton gold or better, seven were in banded iron formation.

Although the shape and orientation of the mineralized zones is not fully understood, three possible zones are indicated. The first is roughly parallel to the axial plane in the west limb. The zone includes gold assays of 1.01 ounces/ton over 5.0 feet (OP-87-2) and 0.21 ounces/ton over 4.5 feet and (OP-86-28).

The second zone is subparallel to the axial plane within the apex of the antiform. In this zone, hole OP-86-23 yielded intersections which assayed 0.21 ounces of gold/ton across 2.7 feet and 0.17 ounces of gold/ton across 5.0 feet. Hole OP-86-20 encountered a gold intersection which assayed 0.17 ounces/ton across 2.0 feet. OP-86-26 yielded an intersection of 0.11 ounces/ton gold across 5.0 feet.

The third zone appears as a cluster in the west limb near the apex. The cluster includes gold intersections assayed at 0.16 ounces/ton across 1.0 feet (OP-87-2), 0.14 ounces/ton across 1.6 feet (OP-86-22), 0.12 ounces/ton across 2.7 feet (OP-87-2). It also includes intersections in hole OP-87-24 assayed at 0.96 ounces/ton gold over 3.6 feet and 0.45 ounces/ton gold over 1.4 feet (both rechecked at trace).

As mentioned, the shape and orientation of mineralized zones is not fully understood. However, computer modelling may help to clarify this.

Two samples in Hole OP-86-24 which initially yielded gold assays of 0.96 ounces per ton and 0.46 ounces per ton were reassayed (pulp) and returned assays of trace. Possible explanations for this are the occurrence of gold in discrete grains or laboratory error.

In the 1986-87 drill program, 69% of gold intersections of 0.05 ounces per ton gold or greater were encountered in banded iron formation, 23% in garnetiferous sediments and 8% ultramafic or ultramafic to mafic volcanics.

The higher gold intersections in the banded iron formation generally had low sulphide content (typically 0.5-2% pyrrhotite and trace to 1% pyrite.). Sulphides most commonly occurred as wisps, veinlets or stringers with iron-rich bands or in quartz-calcite veins. Grunerite is a common alteration product of the mineralized banded iron formation.

11.0 GEOCHEMICAL SOIL SAMPLING

11.1 Description of Program

A humus sampling program was conducted over 2 sections of the Opapimiskan Lake property concurrent with the drilling program. Sampling was carried out over geophysical anomalies in both the west and east sections of the property and included the antiform containing the main iron formation in the southeast corner.

TABLE II

SUMMARY OF SIGNIFICANT 1986-1987 DIAMOND DRILLING RESULTS -
OPAPIMISKAN LAKE PROPERTY

<u>Hole No.</u>	<u>From</u>	<u>To</u>	<u>Interval</u>	<u>Au(oz./ton)</u>	<u>Rock Type</u>
OP-86-1	NSV				
OP-86-2	102.1	103.1	1.0	0.06	UMM
	521.1	525.5	4.0	0.06	UMM
	639.8	645.2	5.4	0.06	BIF
	622.2	672.2	10.0	0.07	BIF
	700.0	705.0	5.0	0.08	BIF
	795.5	800.5	5.0	0.06	BIF
OP-86-3	125.0	130.0	5.0	0.05	BIF
	252.6	257.6	5.0	0.06	BIF
OP-86-4	NSV				
OP-86-5	NSV				
OP-86-6	33.1	36.3	3.2	0.09	GM
	51.9	56.4	4.5	0.14	GM
OP-86-7	126.7	129.7	3.0	0.16	BIF
OP-86-8-10	NSV				
OP-86-11	56.8	61.8	5.0	0.06	GM
OP-86-12	NSV				
OP-86-13-18	NSV				
OP-86-19	47.3	52.3	5.0	0.07	BIF
OP-86-20	77.5	82.0	4.5	0.06	BIF
	117.4	119.4	2.0	0.17	BIF
OP-86-21	254.0	259.0	5.0	0.16	GM
OP-86-22	80.8	83.4	2.6	0.15	BIF
	229.0	234.0	5.0	0.06	BIF
	244.0	249.0	5.0	0.07	BIF
OP-86-23	308.0	320.7	12.7	0.11	BIF
Including (	308.0	313.0	5.0	0.17	BIF)
Including (	318.0	320.7	2.7	0.21	BIF)
	337.1	338.6	1.5	0.06	BIF
OP-86-24	43.0	47.0	4.0	0.08	BIF
	237.0	240.6	3.6	0.96	BIF
				(check trace)	
	244.8	246.2	1.4	0.46	UM
				(check trace)	
OP-86-25	194.0	199.0	5.0	0.09	BIF
OP-86-26	NSV				

TABLE II
(Continued)

SUMMARY OF SIGNIFICANT 1986-1987 DIAMOND DRILLING RESULTS -
OPAPIMISKAN LAKE PROPERTY

<u>Hole No.</u>	<u>From</u>	<u>To</u>	<u>Interval</u>	<u>Au(oz./ton)</u>	<u>Rock Type</u>
OP-86-27	247.0	352.0	5.0	<u>0.11</u>	BIF
OP-86-29	78.5	83.0	4.5	<u>0.21</u>	GM
	127.0	129.0	2.0	<u>0.05</u>	GM
OP-87-1	66.0	71.0	5.0	0.06	GM
OP-87-2	63.6	68.0	4.4	<u>1.01</u>	GM
	167.0	169.7	2.7	<u>0.06</u>	BIF
	172.7	173.7	1.0	<u>0.12</u>	BIF
	214.3	215.3	1.0	<u>0.16</u>	BIF
	320.3	324.3	4.0	<u>0.08</u>	BIF

UMM = ultramafic to mafic volcanics
 BIF = banded oxide facies iron formation
 GM = garnetiferous metasediments
 UM = ultramafic volcanics
 NSV = no significant values

Gold values underlined are greater than 0.10 oz. Au/ton.

TABLE III
HOLE SUMMARIES

Drill Hole Number	Grid Location	Length (feet)	Summary Description	Assay Highlights			Description
				Intersection (feet)	Width (feet)	oz. Au/ton	
OP-86-1	12+10NW, 1+00SW	428	Banded iron formation (65%) and ultramafic volcanic with two lamprophyre dikes and garnet-biotite schist near end of hole. Iron formation is weak to highly contorted with sulphides concentrated in contortions. Minor brecciation and shearing.				
OP-86-2	12+10NW 2+00SW	818	Ultramafic to mafic volcanics (57%), banded iron formation (38%), pelitic sediments (5%) and one lamprophyre dike. Volcanics dominate the upper half of hole while iron formation dominates the lower half. Banding in iron formation is often contorted and contains sulphides. Abundant quartz and calcite + sulphides veinlets.	102.1 to 103.1	1.0	.06	calcite filled fractures in volcanics.
				521.2 to 525.2	4.0	.06	quartz veins in iron formation, 5-7% sulphides.
				639.8 to 645.2	5.4	.06	iron formation with .05-1.0% sulphides.
				662.2 to 667.2	5.0	.08	contorted iron formation, 2-5% sulphides.
				667.2 to 672.2	5.0	.06	same as above.
				700.0 to 705.0	5.0	.08	contorted iron formation, 3-5% pyrrhotite.
				795.5 to 800.5	5.0	.05	pelitic sediments, trace - 0.5% sulphides.

TABLE III
HOLE SUMMARIES
(Continued)

Drill Hole Number	Grid Location	Length (feet)	Summary Description	Assay Highlights			Description
				Intersection (feet)	Width (feet)	oz. Au/ton	
OP-86-3	13+00NW, 2+48NE	378	Banded iron formation (66%), mafic to ultramafic volcanics (30%) and garnetiferous sediments (13%) and two lamprophyre dikes. Common contorted banding in iron formation with increased sulphides. Minor brecciation and shearing	125.0 to 257.6	5.0	.06	iron formation 0.5-1.0% pyrrhotite.
				252.6 to 257.6	5.0	.06	iron formation 0.5-1.0% pyrrhotite.
OP-86-4	13+04NW, 2+00SW	526	Ultramafic to mafic volcanics (67%) and banded iron formation (32%) with minor greywacke and one lamprophyre dike. Weak to minor band contortions in iron formations. Minor brecciation				
OP-86-5	14+00NW, 5+00SW	259	Banded iron formation (40%), ultramafic volcanics (35%) and garnetiferous sediments (25%). Iron formation often contorted with few zones of pyrrhotite and pyrite as wisps and blebs.				

TABLE III
HOLE SUMMARIES
(Continued)

Drill Hole Number	Grid Location	Length (feet)	Summary Description	Assay Highlights			Description
				Intersection (feet)	Width (feet)	oz. Au/ton	
OP-86-6	14+00NW, 6+01SW	305	Interbedded banded iron formation and clastic sediments with ultramafics volcanics (15%). Few zones of increased sulphides. Several quartz and calcite veinlets.	33.1 to 36.3	3.2	.09	garnetiferous sediment, trace pyrite.
				51.9 to 56.4	4.5	.14	garnetiferous sediment, trace - 0.5% pyrrhotite.
OP-86-7	13+04NW, 6+00SW	339	Banded iron formation, garnetiferous sediments, mafic and ultramafic volcanics and one lamprophyre dike. Low to moderately contorted bands. Common boudinaging. Many quartz, calcite + sulphide sediments.	126.7 to 129.7	3.0	.16	iron formation 0.5-1.0% pyrrhotite trace pyrite.
OP-86-8	12+00NW, 4+98SW	297	Ultramafic volcanics (66%) with banded iron formation (31.1%) and 1/2 - 1 foot interbeds of siltstone and mudstone. Iron formation banding often contorted with increased sulphide. Minor brecciation and abundant quartz and calcite veinlets.				

TABLE III
HOLE SUMMARIES
(Continued)

Drill Hole Number	Grid Location	Length (feet)	Summary Description	Assay Highlights			Description
				Intersection (feet)	Width (feet)	oz. Au/ton	
OP-86-9	12+01NW, 4+98SW	199	Dominated by ultramafic volcanics (78%) with banded iron formation. 4.1 foot zone of silicified volcanics with 7-10% pyrrhotite. One iron formation contains 6-7% sulphide in fractures and veinlets.				
OP-86-10	12+00NW, 9+00SW	339	Garnetiferous metasediment (35%), banded iron formation (30%) with mafic and ultramafic and felsic volcanics, argillaceous quartzite, and one lamprophyre dike.				
OP-86-11	11+03NW, 8+98SW	289	Banded iron formation (40%) and garnetiferous sediment (40%) with ultramafic to felsic volcanics and one lamprophyre dike.	56.8 to 61.8	5.0	.06	garnetiferous sediment 10-15% stauro- lite, trace pyrite.
OP-86-12	11+00NW, 10+00SW	335	Band iron formation (40%), garnetiferous sediment (40%) with ultramafic to intermediate volcanics.				

TABLE III
HOLE SUMMARIES
(Continued)

Drill Hole Number	Grid Location	Length (feet)	Summary Description	Assay Highlights			Description
				Intersection (feet)	Width (feet)	oz. Au/ton	
OP-86-13	10+00NW, 9+95SW	299	Banded iron formation (45%), garnetiferous sediment (25%) with ultramafic, mafic to intermediate and felsic volcanics.				
OP-86-14	9+00NW, 8+99SW	269	Ultramafic to mafic volcanics (55%), banded iron formation (32%), garnetiferous sediments, mafic to intermediate volcanics, two lamprophyre dikes and a shear zone in mafic to ultramafic volcanic with 5% pyrite and 1% pyrrhotite.				
OP-86-15	8+00NW, 1+00NE	309	Ultramafic volcanics (70%), banded iron formation (12%) and garnetiferous sediments (18%). Few highly contorted zones with increased sulphides. Quartz-calcite veining, some with minor tourmaline.				
OP-86-16	9+03NW, 0+97NE	297	Garnetiferous sediments (42%), banded iron formation (21%), ultramafic to mafic volcanics (37%). Contorted banding, abundant quartz, calcite veinlets, minor brecciation.				

TABLE III
HOLE SUMMARIES
(Continued)

Drill Hole Number	Grid Location	Length (feet)	Summary Description	Assay Highlights			Description
				Intersection (feet)	Width (feet)	oz. Au/ton	
OP-86-17	13+99NW, 2+00NE	249	Banded iron formation (72%), garnetiferous sediments (19%), ultramafic to mafic volcanics (9%) and one lamprophyre dike. Folding and banding contortions with increased sulphides, minor shearing and brecciations. Quartz, calcite and sulphide veinlets.				
OP-86-18	14+00NW, 2+99SW	298	Ultramafic volcanics (56%), banded iron formation (38%), with minor garnetiferous sediments and mafic to intermediate tuff. Contorted banding, folding, abundant quartz-calcite + feldspar + sulphide. Several veinlets have alteration haloes.				
OP-86-19	14+00NW, 0+98SW	249	Dominantly banded iron formation (93%) with minor ultramafic to mafic volcanics and garnetiferous sediments, one lamprophyre dike. Minor shearing, contorted banding and abundant quartz, calcite + sulphide veinlets.	47.3 to 52.3	5.0	.07	iron formation minor shearing, quartz sulphide veinlets.

TABLE III
HOLE SUMMARIES
(Continued)

Drill Hole Number	Grid Location	Length (feet)	Summary Description	Assay Highlights			Description
				Intersection (feet)	Width (feet)	oz. Au/ton	
OP-86-20	15+00NW, 1+98NE	248	Banded iron formation (60%), garnetiferous sediments (27%), mafic volcanics (12%) with one lamprophyre dike. Abundant quartz veinlets. Folding and minor brecciation.	117.4 to 119.4	2.0	.17	irregular quartz veining with 0.5 - 1% pyrrhotite in iron formation.
OP-86-21	10+03NW, 0+97NE	298	Garnetiferous sediments (47%), banded iron formation (29%) with ultramafic to mafic and mafic to intermediate volcanics. Folding, contorted banding, many quartz and calcite veinlets.	254.0 to 259.0	5.0	.16	garnetiferous sediment abundant chert bands, trace sulphides.
OP-86-22	15+02NW, 1+04SW	279	Banded iron formation (76%), garnetiferous sediment (22%) with minor mafic flow and one lamprophyre dike. Folded, contorted bands. Boudinaged chert bands. Sulphides occur as stringers and disseminations.	80.8 to 83.4	2.6	.14	narrow bands with 1-2% pyrite in iron formation.
				229.0 to 234.0	5.0	.06	iron formation with trace - 0.5% pyrite as stringers and disseminations.
				244.0 to 249.0	5.0	.07	same as above.

TABLE III
HOLE SUMMARIES
(Continued)

Drill Hole Number	Grid Location	Length (feet)	Summary Description	Assay Highlights			Description
				Intersection (feet)	Width (feet)	oz. Au/ton	
OP-86-23	16+03NW, 1+53SW	348	Banded iron formation (57%), garnetiferous sediments (38%) and minor ultramafic and mafic volcanics. Minor folding and brecciation. Many quartz, calcite + sulphide veinlets. Trace disseminated arsenopyrite.	308.0 to 313.0	5.0	.17	iron formation with narrow pyrrhotite stringers.
				318.0 to 320.7	2.7	.21	iron formation with quartz veinlets with trace - 0.5% pyrrhotite.
				337.1 to 338.6	1.5	.06	quartz vein in iron formation.
OP-86-24	14+99NW, 3+00SW	278	Banded iron formation (65%), ultramafic volcanics (27%) with minor garnetiferous sediments. Folding, contorted bands, minor brecciation. Abundant calcite, quartz + sulphide veinlets. Sulphide also as stringers.	43.0 to 47.0	4.0	.08	calcite veinlets, trace pyrite, epidotic fracture in lean iron formation.
				237.0 to 240.6	3.6	.96 (rerun trace)	iron formation, 0.5 - 1% sulphide, few quartz veinlets.
				244.8 to 246.2	1.4	.46 (rerun trace)	1/4" calcite-hematite veinlet in ultramafic volcanics.

TABLE III
HOLE SUMMARIES
(Continued)

Drill Hole Number	Grid Location	Length (feet)	Summary Description	Assay Highlights			Description
				Intersection (feet)	Width (feet)	oz. Au/ton	
OP-86-25	15+93NW, 2+98NE	347	Banded iron formation (45%), garnetiferous sediments (32%) with ultramafic volcanics and minor argillite and one lamprophyre dike. Folding, quartz veins. Many pyrrhotite wisps and stringers in iron formation. Few zones of increased pyrite in iron formation.	194.0 to 199.0	5.0	.09	iron formation contorted banding, .5-3% pyrite.
OP-86-26	17+00NW, 1+02SW	298	Garnetiferous sediments (38%), banded iron formation (32%), ultramafic volcanics (22%) with minor mafic volcanics and argillite. Shearing, weak to moderately contorted banding, many fine pyrrhotite stringers.				
OP-86-27	17+00NW, 2+98NE	397	Banded iron formation (47%), garnetiferous sediments (38%) with minor mafic and ultramafic volcanics and one lamprophyre dike. Contorted band, minor brecciation, many fine pyrrhotite and pyrite wisps.	347.0 to 352.0	5.0	.11	trace pyrite and pyrrhotite in iron formation.

TABLE III
HOLE SUMMARIES
(Continued)

Drill Hole Number	Grid Location	Length (feet)	Summary Description	Assay Highlights			Description
				Intersection (feet)	Width (feet)	oz. Au/ton	
OP-86-28	18+00NW, 2+39SW	496	Banded iron formation (40%), garnetiferous sediment (44%), mafic volcanics, minor ultramafic volcanics and one lamprophyre. Moderately contorted, minor shearing. Many quartz, calcite + pyrrhotite veinlets. Sulphide (dominantly pyrrhotite) as wisps and stringers and narrow bands.	78.5 to 83.0	4.5	.21	garnetiferous sediment, 0.5 - 1% sulphide, quartz-calcite veinlets with alteration.
				127.0 to 129.0	2.0	.05	garnetiferous sediment, quartz, quartz-calcite veinlets with 2 - 4% pyrite.
OP-87-1	15+00NW, 3+97SW	498	Ultramafic to mafic volcanics (55%), banded iron formation (20%), garnetiferous sediment (15%), a possible ultramafic intrusive. 6.0 feet possible sulphide facies iron formation (or replacement). 3.5 feet of brecciated, calcite infilled, and chloritized iron formation. Many quartz, calcite + sulphide veinlets.	66.0 to 71.0	5.0	.06	garnetiferous sediments, trace sulphide, few calcite filled fractures.

TABLE III
HOLE SUMMARIES
(Continued)

Drill Hole Number	Grid Location	Length (feet)	Summary Description	Assay Highlights			Description
				Intersection (feet)	Width (feet)	oz. Au/ton	
0P-87-2	15+99NW, 2+50SW	498	Banded iron formation (36%), garnetiferous sediment (24%) <u>±</u> units of possible sulphide facies iron formation, chert beds (or replacement), 45 feet of possible ultramafic intrusive, minor mafic volcanics and one lamprophyre dike. Brecciation, contorted zones with increased sulphides, many quartz <u>±</u> calcite <u>±</u> sulphide facies.	63.6 to 68.0	4.4	1.01	garnetiferous sediment, well banded, 20-25% quartz bands, trace sulphides.
				167.0 to 169.7	2.7	.06	iron formation, 0.5-1% pyrrhotite and pyrite.
				172.7 to 173.7	1.0	.12	7-10% pyrrhotite and pyrite in contorted zone in iron formation.
				214.3 to 215.3	1.0	.16	quartz vein with 3-5% pyrite and pyrrhotite at contacts in iron formation.
				320.3 to 324.3	4.0	.08	iron formation with 0.5-1.0% pyrrhotite.

The sampling in the west end covered magnetic anomalies which indicate possible fracturing, faulting and drag folding of an iron formation. The second section sampled straddled the synclinal axis. The sampling here covered the antiformal structure containing the gold bearing iron formation.

A total of 753 samples were analyzed. Samples were collected at 100 foot intervals along picket lines. Mull samples were taken in areas where it was not possible to obtain humus. Samples were collected with a grub hoe at depths ranging up to 0.6 m and placed in gusseted wet-strength kraft sample bags. Soil sample cards were used to record sample type, depth, colour, relief, drainage, slope direction, sample composition, vegetation and contamination. Samples were dried and sent to Bondar-Clegg & Co. Ltd. of Ottawa, where they were sieved to minus 100 mesh, briquetted and shrink-wrapped, then analyzed for gold (1 ppb detection limit) by instrumental neutron activation analysis (I.N.A.A.).

The results are shown on the Geochemical Soil Survey Maps (Drawings No. 1, 2). Laboratory reports listing the analytical results are compiled in Appendix E. Frequency histograms and statistical determinations, including standard deviation, mean, median and kurtosis for both arithmetic and logarithmic distributions were prepared by Bondar-Clegg & Co. Ltd. for all 753 samples. These data are shown in Appendix F.

The highest I.N.A.A. determination for gold from the humus samples was 21 ppb (Line 12N/37+00W) and for arsenic, 173.0 ppm (Line 24N/49+00E).

11.2 Discussion of Results

Drawings No. 13 and 14 are contoured maps of gold and arsenic values obtained from the geochemical soil survey. The gold values from humus sampling were generally low with no distinctive pattern of high values despite the known presence of gold mineralization in bedrock. A spot high of 21 ppb occurs at L12N,37+00W. A low but well defined zone occurs in the northwest corner of the western segment (including 7 ppb at L40N,37+00W and 5 ppb at L44N,36+00W) which parallels the geology and is 400 down ice of a known gold showing (1,852 ppb over 2.0 feet). OP-85-12 encountered anomalous gold values below the showing. A minor zone of slightly elevated values (3 to 5 ppb) occurs 50-150 feet west of multiple magnetic highs which possibly represent bands of iron formation (L16N,10W and L24N,31W). In 1982, soil sampling encountered an anomaly of 80 ppb between these magnetic highs.

Anomalous arsenic values were obtained from several localities. Although these typically were in swampy areas, not all swampy areas yielded anomalous arsenic. A zone of slightly elevated arsenic values occurs between the trench in the northwest corner and the low but well defined gold zone previously described. As with the gold, the zone is parallel to the geology and is down ice from the trench (16 ppm at L40N,35+00W; 18 ppm at L44W,34+00W).

An anomalous zone yielding 71.6 ppm at L4N,39+00W, and 105 ppm at L8N,38+00W is not associated with anomalous gold.

Anomalous gold and arsenic values from the humus surveys merit further investigation to determine the source of the metals.

12.0 CONCLUSIONS

Drilling to test several significant gold intersections from holes drilled in the 1985 program has yielded numerous new gold intercepts. The structure of the antiform is now fairly well understood, however, the controls on the distribution of gold mineralization in the structure is not and will require further drilling.

Several areas of gold mineralization occur in the hinge area and adjacent west limb of the antiform, down plunge from the 1985 drilling. The best 1986-87 gold intercepts of 1.01 ounces per ton over 4.4 feet and 0.21 ounces per ton over 4.5 feet were encountered in the northwesternmost holes drilled in the northwesterly plunging structure.

In addition to diamond drilling in the antiform area further work including prospecting is warranted over anomalous gold and arsenic zones encountered in the humus sampling survey.

13.0 RECOMMENDATIONS

A 5,000 foot diamond drill program is recommended to test down-plunge extensions in the hinge area as well as down-dip extensions of intersections on the west limb near the hinge area. Linecutting, geophysical surveys, geological mapping and prospecting on the 92 claims in the northern part of the property, not covered by previous surveys, are also recommended. Detailed mapping and prospecting is also recommended on the original 46 claims.

14.0 ESTIMATED COST OF RECOMMENDED PROGRAM

Linecutting: 92 claims @ \$320/claim	\$ 29,440
Geophysics: VLF-EM and magnetometer surveys, 92 claims @ \$375/claim	34,500
Geological mapping and prospecting: 92 claims @ \$350/claim	32,200
Detail mapping and prospecting on original claims: 46 claims @ \$350/claim	16,100
Diamond drilling: B.Q., 5,000 feet @ \$35/foot	175,000
Contingencies 20%	<u>57,460</u>
Total	<u><u>\$344,700</u></u>

Respectfully submitted,



Daniel J. Corkery, B.Sc.
Geocanex Ltd.

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APPENDIX A
CERTIFICATE OF QUALIFICATIONS

CERTIFICATE OF QUALIFICATIONS

THIS IS TO CERTIFY THAT:

I am a resident of Cobourg, Ontario.

I am a graduate of Brock University, St. Catharines, Ontario with a Bachelor of Science degree (Geology).

I have worked continuously as an exploration geologist since 1984, in gold exploration in Northwestern Ontario.

I supervised the drilling program on the Opapimiskan Lake property, from September 8, 1986 to January 15, 1987.

The statements contained in this report, and conclusions reached, are based upon the study of all relevant assessment work records of the Ontario Geological Survey, and geological reports and maps published by the Ontario Ministry of Natural Resources.

In this report, I have disclosed all relevant descriptive and interpretive material, which is, to the best of my knowledge, necessary to gain a complete understanding of the viability of the project and the recommendations.

DATED THIS *29* DAY OF *June, 1987*



D. J. Corkery, B.Sc.
Geologist

APPENDIX B
REPORT OF WORK

APPENDIX C

DRILL SECTIONS, SURFACE PLAN, SOIL SURVEY MAPS

APPENDIX D
ASSAY CERTIFICATES



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Oracle Resources Ltd. H. J. Hodge.

ASSAY CERTIFICATE

Date: Oct. 10-86

Sample No.	Description	oz/ton Au	oz/ton Ag
5001	D.D.	Trace	
02		Tr	
03		Tr	
04		Tr	
05		Tr	
06		Tr	
07		Tr	
08		Tr	
09		Tr	
10		Tr	
11		Tr	
12		Tr	
13		Tr	
14		Tr	
15		.01	
16		Trace	
17		.01	
18		.01	
19		Trace	
20		.01	
21		.01	
22		.01	
23		Trace	
24		.01	

Assayer: J.W. Beck



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"

Oracle Resources Ltd. H. J. Hodge.

ASSAY CERTIFICATE

Date: Oct. 10-86

Sample No.	Description	oz/ton Au	oz/ton Ag
5025	D.D.	Trace	
26		Tr	
27		Tr	
28		Tr	
29		Tr	
30		Tr	
31		Tr	
32		Tr	
33		Tr	
34		Tr	
35		Tr	
36		Tr	
37		Tr	
38		Tr	
39		Tr	
40		Tr	
41		Tr	
42		Tr	
43		Tr	
44		Tr	
45		Tr	
46		Tr	
47		Tr	
48		Tr	

Assayer: J.W. Beck



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341

J.W. Beck, Assayer,
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"Assaying for over 30 Years"
Oracle Resources Ltd. H. J. Hodge.

ASSAY CERTIFICATE

Date: Oct. 10-86

Sample No.	Description	oz/ton Au	oz/ton Ag
5049	D.D.	Trace	
50		Tr	
51		Tr	
52		Tr	
53		Tr	
54		Tr	
55		Tr	
56		.01	
57		Trace	
58		Tr	
59		Tr	
60		Tr	
61		Tr	
62		Tr	
63		Tr	
64		Tr	
65		Tr	
66		Tr	
67		Tr	
68		Tr	
69		.01	
70		Trace	
71		Tr	
72		Tr	

Assayer: J.W. Beck



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Phone: Bus. 727-2220
Res. 662-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Oracle Resources

ASSAY CERTIFICATE

Date: October 17, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
5081	D. D.	Trace	
82		Tr	
83		Tr	
84		.02	
85		Tr	
86		.06	
87		Tr	
88		Tr	
89		T ⁿ	
90		Tr	
91		Tr	
92		.04	
93		Tr	
94		Tr	
95		Tr	
96		Tr	
97		Tr	
98		Tr	
99		Tr	
5100		Tr	
01		Tr	
02		Tr	
03		.04	
04		.02	

Assayer: _____



COCHENOUR FIRE ASSAYING LTD.

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Res. 662-3341

J.W. Beck, Assayer,
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"Assaying for over 30 Years"
Oracle Resources

ASSAY CERTIFICATE

Date: October 17, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
5105	D. D.	Trace	
06		Tr	
07		Tr	
08		Tr	
09		Tr	
10		Tr	
11		.02	
12		.06	
13		Tr	
14		Tr	
15		.04	
16		.02	
17		Tr	
18		.02	
19		.02	
20		Tr	
21		.02	
22		Tr	
23		.04	
24		Tr	
25		.02	
26		.02	
27		.02	
28		.02	

Assayer: _____



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341

J.W. Beck, Assayer,
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"Assaying for over 30 Years"
Oracle Resources

ASSAY CERTIFICATE

Date: October 17, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
5129	D. D.	Trace	
30		.02	
31		Tr	
32		.02	
33		Tr	
34		Tr	
35		.06	
36		Tr	
37		Tr	
38		.02	
39		.02	
40		.08	
41		.06	
42		.02	
43		Tr	
44		Tr'	
45		.02	
46		.02	
47		.02	
48		.02	
49		.08	
50		.02	
51		Tr	
52		.01	

Assayer: _____



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3347

J.W. Beck, Assayer,
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"Assaying for over 30 Years"
Oracle Resources

ASSAY CERTIFICATE

Date: October 17, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
5153	D. D.	.02	
54		Trace	
55		.02	
56		Tr	
57		.02	
58		.02	
59		.02	
60		.02	
61		.02	
62		.04	
63		.02	
64		.02	
65		.04	
66		.04	
67		Tr	
68		.02	
69		.02	
70		.04	
71		.04	
72		.06	
73		Tr	
74		Tr	
75		Tr	
76		Tr	

Total Assays for October 17, 1986 - 96

Assayer: _____



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Oracle Resources

ASSAY CERTIFICATE

Date: October 21, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
5177	D. D.	Trace	
78		.02	
79		Tr	
80		Tr	
81		.04	
82		TR	
83		Tr	
84		Tr	
85		Tr	
86		Tr	
87		Tr	
88		Tr	
89		Tr	
90		.03	
91		.02	
92		.05	
93		Tr	
94		Tr	
95		.02	
96		Tr	
97		Tr	
98		.02	
99		Tr	
5200		.Tr	

Assayer: 



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341

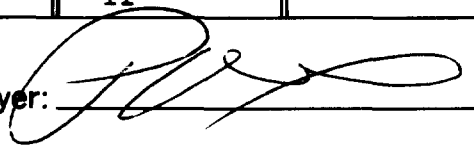
J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Oracle Resources

ASSAY CERTIFICATE

Date: October 21, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
5201	D. D.	Trace	
02		Tr	
03		Tr	
04		Tr	
05		Tr	
06		Tr	
07		Tr	
08		.02	
09		Tr	
10		Tr	
11		Tr	
12		Tr	
13		Tr	
14		Tr	
15		Tr	
16		.04	
17		.02	
18		Tr	
19		Tr	
20		.04	
21		.06	
22		.04	
23		.04	
24		Tr	

Assayer: 



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Oracle Resources Ltd.

ASSAY CERTIFICATE

Date: October 17, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
5081	D. D.	Trace	
82		Tr	
83		Tr	
84		.02	
85		Tr	
86		.06	
87		Tr	
88		Tr	
89		Tr	
90		Tr	
91		Tr	
92		.04	
93		Tr	
94		Tr	
95		Tr	
96		Tr	
97		Tr	
98		Tr	
99		Tr	
5100		Tr	
01		Tr	
02		Tr	
03		.04	
04		.02	

Assayer: 



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341

J.W. Beck, Assayer,
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"Assaying for over 30 Years"
Oracle Resources Ltd.

ASSAY CERTIFICATE

Date: Oct. 17, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
5105	D. D.	Trace	
066		Tr	
07		Tr	
08		Tr	
09		Tr	
10		Tr	
11		.02	
12		.06	
13		Tr	
14		Tr	
15		.04	
16		.02	
17		Tr	
18		.02	
19		.02	
20		Tr	
21		.02	
22		Tr	
23		.04	
24		Tr	
25		.02	
26		.02	
27		.02	
28		.02	

Assayer: 



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Oracle Resources Ltd.

ASSAY CERTIFICATE

Date: October 17, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
5129	D. D.	Trace	
30		.02	
31		Tr	
32		.02	
33		TR	
34		TR	
35		.06	
36		Tr	
37		Tr	
38		.02.	
39		.02	
40		.08	
41		.06	
42		.02	
43		Tr	
44		Tr	
45		.02	
46 8		.02	
47		.02	
48		.02	
49		.08	
50		.02	
51		Tr	
52		.04	

Assayer: 



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341

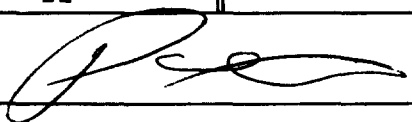
J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Oracle Resources Ltd.

ASSAY CERTIFICATE

Date: October 17, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
5153	D. D.	.02	
54		Trace	
55		.02	
56		Tr	
57		.02	
58		.02	
59		.02	
60		.02	
61		.02	
62		.04	
63		.02	
64		.02	
65		.04	
66		.04	
67		Tr	
68		.02	
69		.02	
70		.04	
71		.04	
72		.06	
73		Tr	
74		Tr	
75		Tr	
76		Tr	

Assayer: 



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Phone: Bus. 727-2220
Res. 662-3341

J.W. Beck, Assayer,
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"Assaying for over 30 Years"
Oracle Resources.

ASSAY CERTIFICATE

Date: Oct. 24-86

Sample No.	Description	oz/ton Au	oz/ton Ag
5243	D.D.	Trace	
44		Tr	
45		Tr	
46		Tr	
47		Tr	
48		Tr	
49		Tr	
50		Tr	
51		Tr	
52		Tr	
53		Tr	
54		Tr	
55		.01	
56		Trace	
57		Tr	
58		Tr	
59		Tr	
60		Tr	
61		.02	
62		Trace	
63		Tr	
64		Tr	
65		Tr	
66		Tr	

57

Assayer: J.W. Beck



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Res. 662-3341

J.W. Beck, Assayer,
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"Assaying for over 30 Years"
Oracle Resources.

ASSAY CERTIFICATE

Date: Oct. 24-86

Sample No.	Description	oz/ton Au	oz/ton Ag
5267	D.D.	Trace	
68		Tr	
69		Tr	
70		Tr	
71		Tr	
72		Tr	
73		Tr	
74		Tr	
75		.03	
76		.01	
77		Trace	
78		Tr	
79		Tr	
80		Tr	
81		.02	
82		Trace	
83		Tr	
84		Tr	
85		Tr	
86		Tr	
87		Tr	
88		Tr	
89		Tr	
90		Tr	

Assayer: J.W. Beck



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-222C
Res. 662-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Oracle Resources.

ASSAY CERTIFICATE

Date: Oct. 24-86

Sample No.	Description	oz/ton Au	oz/ton Ag
5291	D.D.	Trace	
92		Tr	
93		Tr	
94		Tr	
95		Tr	
96		Tr	
97		Tr	
98		.01	
99		Trace	
5300		Tr	
01		Tr	
02		Tr	
03		Tr	
04		Tr	
05		Tr	
06		Tr	
07		Tr	
08		Tr	
09		Tr	
10		Tr	
11		.02	
12		.01	
13		Trace	
14		Tr	
15		Trace	

Assayer: J.W. Beck



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341

J.W. Beck, Assayer,
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"Assaying for over 30 Years"
Oracle Resources.

ASSAY CERTIFICATE

Date: Oct. 24-86

Sample No.	Description	oz/ton Au	oz/ton Ag
5316	D.D.	Trace	
17		Tr	
18		.01	
19		Trace	
20		Tr	
21		Tr	
22		Tr	
23		Tr	
24		Tr	
25		Tr	
26		Tr	
27		.02	
28		Trace	
29		Tr	
30		Tr	
31		Tr	
32		Tr	
33		Tr	
34		Tr	
35		Tr	
36		Tr	
37		Tr	
38		Tr	
39		Tr	
40		Trace	

Assayer: _____

J.W. Beck



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341

J.W. Beck, Assayer,
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"Assaying for over 30 Years"
Oracle Resources

ASSAY CERTIFICATE

Date: November 5, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
5341	D. D.	Trace	
42		Tr	
43		Tr	
44		.09	
45		Tr	
46		.01	
47		.01	
48		Tr	
49		Tr	
50		Tr	
51		.14	
52		.01	
53		Tr	
54		Tr	
55		Tr	
56		Tr	
57		.01	
58		Tr	
59		Tr	
60		Tr	
61		Tr	
62		Tr	
63		Tr	
64		Tr	

Assayer: J.W. Beck



COCHENOUR FIRE ASSAYING LTD.

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Res. 662-3341

J.W. Beck, Assayer,
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"Assaying for over 30 Years"
Oracle Resources

ASSAY CERTIFICATE

Date: November 5, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
5365	D. D.	Trace	
66		Tr	
67		Tr	
68		Tr	
69		Tr	
70		Tr	
71		Tr	
72		Tr	
73		TR	
74		Tr	
75		Tr	
76		Tr	
77		Tr	
78		Tr	
79		Tr	
80		Tr	
81		Tr	
82		Tr	
83		Tr	
84		Tr	
85		Tr	
86		Tr	
87		Tr	
88		Tr	

Assayer: J.W. Beck



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Oracle Resources

ASSAY CERTIFICATE

Date: November 5, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
5389	D. D.	Trace	
90		Tr	
91		Tr	
92		Tr	
93		Tr	
94		Tr	
95		Tr	
96		Tr	
97		Tr	
98		Tr	
99		Tr	
5400		Tr	
01		Tr	
02		Tr	
03		.02	
04		Tr	
05		Tr	
06		Tr	
07		Tr	
08		Tr	
09		Tr	
10		Tr	
11		Tr	
12		Tr	

Assayer: J.W. Beck



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J.W. Beck, Assayer,
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Oracle Resources

ASSAY CERTIFICATE

Date: November 5, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
5413	D. D.	Trace	
14		Tr	
15		Tr	
16		Tr	
17		Tr	
18		Tr	
19		.02	
20		Tr	
21		Tr	
22		Tr	
23		Tr	
24		.16	
25		.01	
26		Tr	
27		Tr	
28		Tr	
29		Tr	
30		Tr	
31		Tr	
32		Tr	
33		Tr	
34		Tr	
35		Tr	
36		Tr	

Assayer: J. W. Beck



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Oracle Resources

ASSAY CERTIFICATE

Date: November 5, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
5437	D. D.	Trace	
38		Tr	
39		Tr	
40		Tr	
41		Tr	
42		Tr	
43		Tr	
44		Tr	
45		Tr	
46		Tr	
47		Tr	
48		Tr	
49		Tr	
50		Tr	
51		Tr	
52		Tr	
53		Tr	
54		Tr	
55		Tr	
56		Tr	
57		Tr	
58		Tr	
59		Tr	
60		Tr	

Assayer: J.W. Beck



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J.W. Beck, Assayer,
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Oracle Resources

ASSAY CERTIFICATE

Date: November 5, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
5461	D. D.	Trace	
62		Tr	
63		.01	
64		Tr	
65		Tr	
66		Tr	
67		Tr	
68		Tr	
69		Tr	
70		Tr	
71		Tr	
72		Tr	
73		Tr	
74		.01	
75		Tr	
76		Tr	
77		Tr	
78		Tr	
79		Tr	
80		Tr	
81		Tr	
82		Tr	
83		Tr	
84		Tr	

Assayer: J.W. Beck



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-222C
Res. 662-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Oracle Resources

ASSAY CERTIFICATE

Date: November 5, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
5485	D . D.	Trace	
86		Tr	
87		Tr	
88		Tr	
89		Tr	
90		Tr	
91		Tr	
92		Tr	
93		Tr	
94		Tr	
95		Tr	
96		Tr	
97		Tr	
98		Tr	
99		Tr	
5500		Tr	
6601		Tr	
02		Tr	
03		Tr	
04		Tr	
05		Tr	
06		Tr	
Total assays for November 5, 1986 - 166			

Assayer: J.W. Beck



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Oracle Resources

ASSAY CERTIFICATE

Date: November 18, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
6622	D. D.	Trace	
23		Tr	
24		Tr	
25		Tr	
26		Tr	
27		Tr	
28		Tr	
29		Tr	
30		Tr	
31		Tr	
32		Tr	
33		Tr	
34		Tr	
35		Tr	
36		Tr	
37		Tr	
38		Tr	
39		Tr	
40		Tr	
41		Tr	
42		Tr	
43		Tr	
44		Tr	
45		Tr	

Assayer: J.W. Beck



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Oracle Resources

ASSAY CERTIFICATE

Date: November 18, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
6646	D. D.	Trace	
47		Tr	
48		Tr	
49		Tr	
50		Tr	
51		Tr	
52		Tr	
53		Tr	
54		.02	
55		Trace	
56		.02	
57		Trace	
58		Tr	
59		Tr	
60		Tr	
61		.02	
62		Trace	
63		Tr	
64		Tr	
65		Tr	
66		Tr	
67		.01	
68		.04	
69		Trace	

Assayer: J.W. Beck



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3344

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Oracle Resources

ASSAY CERTIFICATE

Date: November 18, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
6670	D. D.	Trace	
71		Tr	
72		Tr	
73		Tr	
74		Tr	
75		Tr	
76		.04	
77		Tr	
78		Tr	
79		Tr	
80		Tr	
81		Tr	
82		Tr	
83		Tr	
84		Tr	
85		Tr	
86		Tr	
87		Tr	
88		Tr	
89		Tr	
90		Tr	
91		Tr	
92		Tr	
93		Tr	

Assayer: J.W. Beck



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Oracle Resources

ASSAY CERTIFICATE

Date: November 18, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
6694	D. D.	Trace	
95		Tr	
96		.06	
97		Trace	
98		Tr	
99		Tr	
6700		Tr	
01		Tr	
02		Tr	
03		Tr	
04		Tr	
05		Tr	
06		Tr	
07		Tr	
08		Tr	
09		Tr	
10		Tr	
11		Tr	
12		Tr	
13		Tr	
14		.03	
15		.03	
16		Trace	
17		.02	

Assayer: J.W. Beck



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Res. 662-3341

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"Assaying for over 30 Years"

ASSAY CERTIFICATE

Date: Nov. 19-86

Sample No.	Description	oz/ton Au	oz/ton Ag
6718	D. D.	.02	
19		Trace	
20		.01	
21		Trace	
22		.02	
23		Trace	
24		.01	
25		Trace	
26		Tr	
27		Tr	
28		Tr	
29		Tr	
30		Tr	
31		Tr	
32		Tr	
33		.02	
34		Trace	
35		Tr	
36		Tr	
37		Tr	
38		Tr	
39		Tr	
40		Tr	
41		Tr	

Total assays for nov. 19-1986 120

Assayer: J.W. Beck



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Oracle Resources Ltd.

ASSAY CERTIFICATE

Date: Nov. 20th -86

Sample No.	Description	oz/ton Au	oz/ton Ag
6801	D.D.	Trace	
02		Tr	
03		Tr	
04		Tr	
05		Tr	
06		Tr	
07		Tr	
08		Tr	
09		Tr	
10		Tr	
11		Tr	
12		TR	
13		Tr	
14		Tr	
15		Tr	
16		Tr	
17		Tr	
18		Tr	
19		Tr	
6823		Tr	
6829		Tr	
30		Tr	
31		.02	
32		Trace	

Assayer: J.W. Beck



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"Assaying for over 30 Years"
Oracle Resources Ltd.

ASSAY CERTIFICATE

Date: Nov. 20-86

Sample No.	Description	oz/ton Au	oz/ton Ag
6833	D.D.	Trace	
34		Tr	
35		Tr	
36		Tr	
37		Tr	
38		Tr	
39		Tr	
40		Tr	
41		Tr	
42		Tr	
43		Tr	
44		Tr	
45		Tr	
46		Tr	
47		Tr	
48		Tr	
49		Tr	
50		Tr	
51		Tr	
52		Tr	
53		Tr	
54		Tr	
55		Tr	
56		Tr	

Assayer: J.W. Beck



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ASSAY CERTIFICATE

Date: November 21, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
6820	D. D.	Trace	
21		Tr	
22		Tr	
68 24		Tr	
25		Tr	
26		Tr	
27		Tr	
28		Tr	
6862		.01	
63		.03	
664		.02	
65		Tr	
66		Tr	
67		.01	
68		.01	
69		Tr	
70		Tr	
71		Tr	
72		Tr	
73		Tr	
74		Tr	
75		Tr	
76		Tr	
77		Tr .01	

Assayer: J.W. Beck



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ASSAY CERTIFICATE

Date: November 27, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
6742	D. D.	Trace	
43		Tr	
44		Tr	
45		Tr	
46		Tr	
47		Tr	
48		Tr	
49		Tr	
50		Tr	
51		Tr	
52		Tr	
53		.01	
54		Tr	
55		.04	
56		.02	
57		Tr	
58		Tr	
59		.01	
60		Tr	
661		.02	
62		Tr	
63		Tr	
64		Tr	
65		Tr	

Assayer: *J.W. Beck*



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ASSAY CERTIFICATE

Date: November 27, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
6766	D. D.	Trace	
67		.03	
68		Tr	
69		.02	
70		Tr	
71		Tr	
72		.01	
73		.01	
74		Tr	
75		Tr	
76		.02	
77		.02	
78		Tr	
79		Tr	
80		Tr	
81		Tr	
82		Tr	
83		Tr	
84		Tr	
85		Tr	
86		Tr	
87		Tr	
88		Tr	
89		Tr	

Assayer: J.W. Beck



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ASSAY CERTIFICATE

Date: November 27, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
6790	D. D.	Trace	
91		.01	
92		Tr	
93		.02	
94		Tr	
95		.01	
96		Tr	
97		Tr	
98		Tr	
99		Tr	
6800		Tr	
16601		Tr	
02		Tr	
03		Tr	
04		Tr	
05		Tr	
06		Tr	
07		Tr	
08		Tr	
09		Tr .01	
10		Tr	
11		Tr	
12		Tr	
13		Tr	

Assayer: J.W. Beck



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ASSAY CERTIFICATE

Date: November 27, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
16614	D. D.	Trace	
15		Tr	
16		Tr	
17		.04	
18		Tr	
19		Tr	
20		Tr	
21		Tr	
22		Tr	
23		Tr	
24		Tr	
25		Tr	
26		Tr	
27		.01	
28		.03	
29		Tr	
30		Tr	
31		Tr	
32		.02	
33		Tr	
34		Tr	
35		Tr	
36		Tr	
37		Tr	

Assayer: J.W. Beck.



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ASSAY CERTIFICATE

Date: November 27, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
16638	D. D.	.01	
39		.01	
40		Trace	
41		Tr	
42		Tr	
43		Tr	
44		Tr	
45		Tr	
46		Tr	
47		Tr	
48		Tr	
49		Tr	
50		Tr	
51		.01	
52		Tr	
53		Tr	
54		Tr	
55		Tr	
56		Tr	
57		Tr	
58		Tr	
59		Tr	
60		Tr	
61		Tr	

Assayer: J.W. Beck



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ASSAY CERTIFICATE

Date: November 27, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
16662	D. D.	Trace	
63		Tr	
64		Tr	
65	NO SAMPLE		
66		Tr	
67		Tr	
68		Tr	
69		Tr	
70		Tr	
71		.03	
72		.01	
73		Tr	
74		Tr	
75		.01	
76		Tr	
77		Tr	
78		Tr	
79		.01	
Total assays for November 27, 1986 - 137			

Assayer: J.W. Beck.



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ASSAY CERTIFICATE

Date: December 3, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
6893	D. D.	Trace	
94		Tr	
95		Tr	
96		Tr	
97		Tr	
98		.07	
99		.03	
6900		Tr	
01		Tr	
02		Tr	
03		.01	
04		Tr	
05		.02	
06		Tr	
07		Tr	
08		Tr	
09		Tr	
10		Tr	
11		.02	
12		Tr	
13		.01	
14		.01	
15		Tr	
16		.01	

Assayer: J.W. Beck



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ASSAY CERTIFICATE

Date: December 3, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
6917	D. D.	.01	
18		Trace	
19		Tr	
20		.02	
21		Tr	
22		.01	
23		Tr	
24		Tr	
25		Tr	
26		.01	
27		.01	
28		.02	
29		Tr	
30		Tr	
31		Tr	
32		Tr	
33		.01	
34		.02	
35		Tr	
36		Tr	
37		.03	
38		.02	
39		.01	
40		Tr	

Assayer: J.W. Beck



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-334

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Oracle Resources

ASSAY CERTIFICATE

Date: December 9, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
6968	D. D.	Trace	
69		Tr	
70		.01	
71		.01	
72		Tr	
73		Tr	
74		Tr	
75		.01	
76		Tr	
77		Tr	
78		Tr	
79		Tr	
80		.01	
81		.02	
82		Tr	
83		Tr	
84		Tr	
85		Tr	
86		Tr	
87		Tr	
88		.01	
89		Tr	
90		Tr	
91		Tr	

Assayer: J.W. Beck



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341

J.W. Beck, Assayer,
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"Assaying for over 30 Years"
Oracle Resources

ASSAY CERTIFICATE

Date: December 9, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
6944	D. D.	Trace	
45		Tr	
46		Tr	
47		Tr	
48		Tr	
49		Tr	
50		.02	
51		.01	
52		Tr	
53		.01	
54		Tr	
55		Tr	
56		Tr	
57		.01	
58		Tr	
59		Tr	
60		Tr	
61		Tr	
62		Tr	
63		Tr	
64		Tr	
65		.01	
66		Tr	
67		Tr	

Assayer: J.W. Beck



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3347

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Oracle Resources

ASSAY CERTIFICATE

Date: December 12, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
16448	D. D.	Trace	
49		.01	
50		Tr	
51		Tr	
52		Tr	
53		Tr	
54		Tr	
55		Tr	
56		Tr	
57		Tr	
58		Tr	
59		Tr	
60		Tr	
61		Tr	
62		Tr	
63		Tr	
64		Tr	
65		Tr	
66		Tr	
67		Tr	
68		Tr	
69		Tr	
70		Tr	
71		Tr	

Assayer: J.W. Beck



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341

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ASSAY CERTIFICATE

Date: December 12, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
16472	D. D.	Trace	
73		Tr	
74		Tr	
75		Tr	
76		Tr	
77		Tr	
78		Tr	
79		Tr	
80		Tr	
81		Tr	
82		Tr	
83		Tr	
84		Tr	
85		Tr	
86		.01	
87		Tr	
88		Tr	
89		Tr	
90		Tr	
91		Tr	
92		Tr	
93		Tr	
94		Tr	
95		Tr	

Assayer: J.W. Beck



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ASSAY CERTIFICATE

Date: December 12, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
16496	D. D.	Trace	
97		Tr	
98		Tr	
99		.02	
16500		.02	
01		.02	
02		.02	
03		Tr	
04		Tr	
05		Tr	
06		Tr	
07		Tr	
08		Tr	
09		.02	
10		.02	
11		.17	
12		Tr	
13		.21	
14		.01	
15		Tr	
16		Tr	
17		Tr	
18		.01	
19		.06	

Assayer: J.W. Beck

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Oracle Resources

ASSAY CERTIFICATE

Date: December 12, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
16520	D. D.	Trace	
21		Tr	
16746		Tr	
47		Tr	
48		Tr	
49		Tr	
50		Tr	
51		Tr	
52		Tr	
53		t ^r	
54		Tr	
55		Tr	
56		Tr	
57		Tr	
58		Tr	
59		Tr	
60		Tr	
61		Tr	
62		Tr	
63		Tr	
64		Tr	
65		Tr	
66		Tr	
67		TR	

Assayer: J.W. Beck

COCHENOUR FIRE ASSAYING LTD.

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Res. 662-334



J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Oracle Resources

ASSAY CERTIFICATE

Date: December 12, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
16768	D. D.	Trace	
69		Tr	
70		Tr	
71		Tr	
72		Tr	
73		Tr	
74		Tr	
75		Tr	
76		Tr	
77		Tr	
78		.01	
79		.02	
80		Tr	
81		Tr	
82		.02	
83		Tr	
84		Tr	
85		Tr	
86		Tr	
87		Tr	
88		Tr	
89		.02	
90		.16	
91		Tr	

Assayer: *J.W. Beck*



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ASSAY CERTIFICATE

Date: December 12, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
16792	D. D.	Trace	
93		Tr	
94		Tr	
95		Tr	
96		Tr	
97		Tr	
98		Tr	
	Total assays for December 12, 1986 - 127		

Assayer: *J.W. Beck*



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ASSAY CERTIFICATE

Date: Dec 13, 1986.

Sample No.	Description	oz/ton Au	oz/ton Ag
16680	D.D.	Trace	
81		.01	
82		.01	
83		Trace	
84		Tr	
85		Tr	
86		Tr	
87		Tr	
88		Tr	
89		Tr	
90		Tr	
91		Tr	
92		Tr	
93		Tr	
94		Tr	
95		Tr	
96		Tr	
97		Tr	
98		Tr	
99		Tr	
16700		Tr	
01		Tr	
02		Tr	
03		Tr	

Assayer: J.W. Beck.



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ASSAY CERTIFICATE

Date: Dec. 13, 1986.

Sample No.	Description	oz/ton Au	oz/ton Ag
16704	D.D.	Trace	
05		Tr	
06		Tr	
07		Tr	
08		Tr	
09		Tr	
10		Tr	
11		Tr	
12		Tr	
13		Tr	
14		Tr	
15		.01	
16		Tr	
17		Tr	
18		.02	
19		.01	
20		Trace	
21		Tr	
22		Tr	
23		Tr	
24		Tr	
25		Tr	
26		Tr	
27		Tr	

Assayer: _____



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ASSAY CERTIFICATE

Date: Dec. 13, 1986.

Sample No.	Description	oz/ton Au	oz/ton Ag
16728	D.D.	Trace	
29		.01	
30		Trace	
31		.01	
32		Trace	
33		Tr	
34		Tr	
35		Tr	
36		Tr	
37		Tr	
38		Tr	
39		Tr	
40		Tr	
41		Tr	
42		Tr	
43		Tr	
44		.03	
45		Trace	
6993		Tr	
94		Tr	
95		Tr	
96		Tr	
97		Tr	
98		Tr	

Assayer: J.W. Beck

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ASSAY CERTIFICATE

Date: December 13, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
6999	D. D.	Trace	
7000		Tr	
16401		Tr	
02		Tr	
03		Tr	
04		Tr	
05		.14	
06		.01	
07		.01	
08		Tr	
09		Tr	
10		Tr	
11		Tr	
12		Tr	
13		Tr	
14		Tr	
15		Tr	
16		Tr	
17		Tr	
18		Tr	
19		Tr	
20		Tr	
21		Tr	
22		Tr	

Assayer: J.W. Beck



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ASSAY CERTIFICATE

Date: December 13, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
16423	D. D.	Trace	
24		Tr	
25		Tr	
26		Tr	
27		Tr	
28		Tr	
29		Tr	
30		Tr	
31		Tr	
32		Tr	
33		Tr	
34		Tr	
35		Tr	
36		.01	
37		.06	
38		.01	
39		Tr	
40		.07	
41		.04	
42		.02	
43		.01	
44		Tr	
45		Tr	
46		Tr	

Assayer: J.W. Beck



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ASSAY CERTIFICATE

Date: December 13, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
16447	D. D.	.02	
15622		Trace	
23		Tr	
24		Tr	
25		Tr	
16779		Tr	
16800		Tr	
01		Tr	
02		Tr	
03		Tr	
04		Tr	
05		Tr	
06		Tr	
07		Tr	
08		.06	
09		.01	
10		Tr	
11		Tr	
12		Tr	
13		Tr	
14		Tr	
15		Tr	
16		Tr	
17		.17	

Assayer: J.W. Beck



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J.W. Beck, Assayer,
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ASSAY CERTIFICATE

Date: December 13, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
16818	D. D.	.01	
19		Trace	
20		.02	
21		.01	
22		.02	
23		Tr	
24		Tr	
25		.03	
26		Tr	
27		Tr	
28		Tr	
29		Tr	
30		Tr	
31		Tr	
32		Tr	
33		Tr	
34		Tr	
35		Tr	
36		Tr	
37		Tr	
38		Tr	
39		Tr	
40		Tr	
41		Tr	

Assayer: J.W. Beck



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ASSAY CERTIFICATE

Date: December 13, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
16842	D. D.	Trace	
43		.02	
44		Tr	
45		Tr	
46		Tr	
47		Tr	
48		Tr	
49		.01	
50		Tr	
51		Tr	
52		Tr	
53		.08	
54		Tr	
55		Tr	
56		Tr	
57		Tr	
58		.01	
59		Tr	
60		Tr	
61		Tr	
62		Tr	
63		Tr	
64		Tr	
65		Tr	

Assayer: J.W. Beck



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ASSAY CERTIFICATE

Date: December 13, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
16866	D. D.	Trace	
67		Tr	
68		Tr	
69		Tr	
70		Tr	
71		Tr	
72		Tr	
73		Tr	
74		Tr	
75		.02	
76		.01	
77		Tr	
78		Tr	
79		Tr	
80		Tr	
81		Tr	
82		Tr	
83		Tr	
84		Tr	
85		Tr	
86		Tr	
87		Tr	
88		Tr	
89		Tr	

Assayer: J.W. Beck

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Res. 662-3341



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Oracle Resources

ASSAY CERTIFICATE

Date: December 13, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
16890	D. D.	Trace	
91		Tr	
92		Tr	
93		Tr	
94		Tr	
95		.94	
96		.46	
97		Tr	
98		Tr	
99		Tr	
16900		,01	
	Total assays for December 13, 1986 - 226		
16513	Rerun from December 12, 1986	.23	

Assayer: J.W. Beck



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ASSAY CERTIFICATE

Date: December 17, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
16526	D. D.	.01	
27		.01	
28		Trace	
29		Tr	
30		Tr	
31		.02	
32		Tr	
33		Tr	
34		.01	
35		Tr	
36		Tr	
37		.03	
38		Tr	
39		Tr	
40		Tr	
41		Tr	
42		Tr	
16552	16543 - 51 One day delay in transport.	Tr	
53		Tr	
54		Tr	
55		Tr	
56		.03	
57		Tr	
58		Tr	

59

Assayer: J.W. Beck



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ASSAY CERTIFICATE

Date: December 17, 1986

Oracle Resources

Sample No.	Description	oz/ton Au	oz/ton Ag
16559	D. D.	Trace	
60		Tr	
61		Tr	
62		.09	
63		.01	
64		Tr	
65		Tr	
66		Tr	
67		Tr	
68		Tr	
69		Tr	
70		Tr	
71		Tr	
72		.02	
73		Tr	
74		Tr	
75		Tr	
76		.02	
77		Tr	
78		Tr	
79		Tr	
80		.02	
81		Tr	
82		Tr	

Assayer: J.W. Beck



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ASSAY CERTIFICATE

Date: December 17, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
16583	D. D.	Trace	
84		Tr	
85		Tr	
86		Tr	
87		.01	
88		Tr	
89		.01	
90		Tr	
91		.01	
92		Tr	
93		Tr	
94		Tr	
95		Tr	
96		Tr	
Total assays for December 17, 1986 - 62			

Assayer: J.W. Beck

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Oracle Resources

ASSAY CERTIFICATE

Date: December 18, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
16543	D. D.	Trace	
44		Tr	
45		Tr	
46		Tr	
47		Tr	
48		Tr	
49		Tr	
50		Tr	
51		Tr	
Total assays for December 18, 1986 - 9			

Assayer: J.W. Beck.



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"Assaying for over 30 Years"

ASSAY CERTIFICATE

Date: December 24, 1986

Oracle Resources

Sample No.	Description	oz/ton Au	oz/ton Ag
16597	D. D.	Trace	
98		Tr	
99		Tr	
16600		Tr	
19001		.02	
02		Tr	
03		Tr	
04		Tr	
05		Tr	
06		Tr	
07		Tr	
08		Tr	
09		Tr	
10		Tr	
11		Tr	
12		Tr	
13		Tr	
14		Tr	
15		Tr	
16		Tr	
17		Tr	
18		Tr	
19		Tr	
20		.02	

Assayer: J.W. Beck



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Oracle Resources

ASSAY CERTIFICATE

Date: December 24, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
19021	D. D.	.01	
22		.02	
23		Trace	
24		Tr	
25		Tr	
26		Tr	
27		Tr	
28		Tr	
29		Tr	
30		.01	
31		.02	
32		,01	
33		Tr	
34		.01	
35		.01	
36		.02	
37		.02	
38		Tr	
39		Tr	
40		.01	
41		.03	
42		.02	
43		Tr	
44		Tr	

Assayer: J.W. Beck.



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Oracle Resources

ASSAY CERTIFICATE

Date: December 24, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
19045	D. D.	Trace	
19046		Tr	
47		Tr	
48		Tr	
49		.03	
50		Tr	
51		Tr	
19079		Tr	
80		Tr	
81		Tr	
82		Tr	
83		.04	
84		Tr	
85		.03	
19134		.04	
35		.04	
36		.03	
37		Tr	
38		Tr	
39		Tr	
40		Tr	
41		Tr	
42		Tr	
43		Tr	

Assayer: J.W. Beck



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Res. 662-3341

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"Assaying for over 30 Years"
Oracle Resources

ASSAY CERTIFICATE

Date: December 24, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
19144	D. D.	Trace	
45		Tr	
46		Tr	
47		Tr	
48		Tr	
19182		Tr	
83		Tr	
84		Tr	
85		Tr	
86		Tr	
87		Tr	
88		.21	
89		Tr	
90		Tr	
91		.02	
19200		Tr	
01		Tr	
02		Tr	
03		Tr	
04		Tr	
05		Tr	
06		.04	
07		Tr	
08		Tr	

Assayer: Jw Beck



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Oracle Resources

ASSAY CERTIFICATE

Date: December 24, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
19209	D. D.	Trace	
10		.04	
11		Tr	
12'		Tr	
13		Tr	
14		Tr	
15		.01	
16		.01	
17		Tr	
18		Tr	
19		Tr	
20		.01	
21		Tr	
22		Tr	
23		.01	
24		.02	
25		Tr	
26		Tr	
27		.01	
28		.02	
29		Tr	
30		.02	
31		.01	
32		Tr	

Assayer: J.W. Beck



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Oracle Resources

ASSAY CERTIFICATE

Date: December 24, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
19233	D. D.	.01	
34		Trace	
	Total assays for December 24, 1986 - 122		

Assayer: *J.W. Beck*



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Oracle Resources

ASSAY CERTIFICATE

Date: December 29, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
19052	D. D.	Trace	
53		Tr	
54		.01	
55		Tr	
56		.01	
57		.01	
58		Tr	
59		Tr	
60		Tr	
61		Tr	
62		Tr	
63		Tr	
64		.01	
65		Tr	
66		Tr	
67		Tr	
68		Tr	
69		Tr	
70		Tr	
71		Tr	
72		Tr	
73		Tr	
74		Tr	
75		Tr	

Assayer: John W. Beck



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Oracle Resources

ASSAY CERTIFICATE

Date: December 29, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
19076	D. D.	Trace	
77		Tr	
78		Tr	
19086		Tr	
87		Tr	
88		.01	
89		Tr	
90		Tr	
91		Tr	
92		Tr	
93		Tr	
94		Tr	
95		Tr	
96		Tr	
97		Tr	
98		.01	
99		.01	
19100		Tr	
01		Tr	
02		Tr	
03		Tr	
04		Tr	
05		.01	
06		Tr	

Assayer: John W. Beck



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Oracle Resources

ASSAY CERTIFICATE

Date: December 29, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
19107	D. D.	.01	
08		.01	
09		Trace	
10		Tr	
11		Tr	
12		.02	
13		.01	
14		Tr	
15		Tr	
16		.01	
17		Tr	
18		.01	
19		Tr	
20		Tr	
21		Tr	
22		Tr	
23		Tr	
24		Tr	
25		Tr	
26		Tr	
27		Tr	
28		Tr	
29		Tr	
30		Tr	

Assayer: John W. Beck



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Oracle Resources

ASSAY CERTIFICATE

Date: December 29, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
19131	D.D.	Trace	
32		.02	
33		.01	
19149		.02	
50		.01	
51		Tr	
52		Tr	
53		.01	
54		Tr	
55		Tr	
56		Tr	
57		Tr	
58		Tr	
59		Tr	
60		Tr	
61		Tr	
62		Tr	
63		Tr	
64		.01	
65		Tr	
66		Tr	
67		Tr	
68		Tr	
69		Tr	

Assayer: *John W. Beck*

COCHENOUR FIRE ASSAYING LTD.

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Res. 662-3341



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"Assaying for over 30 Years"
Oracle Resources

ASSAY CERTIFICATE

Date: December 29, 1986

Sample No.	Description	oz/ton Au	oz/ton Ag
19170	D. D.	.01	
71		.11	
72		.01	
73		.02	
74		.03	
75		Trace	
76		Tr	
77		Tr	
78		Tr	
79		Tr	
80		Tr	
81		Tr	
19192		Tr	
93		.02	
94		.02	
95		.01	
96		.02	
97		.02	
98		Tr	
99		.05	
Total assays for December 29, 1986 - 116			

Assayer: John W. Beck



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Phone: Bus. 727-2220
Res. 662-3341

J.W. Beck, Assayer,
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"Assaying for over 30 Years"
Geocanex - Oracle Resources - OPAP

ASSAY CERTIFICATE

Date: January 21, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
19235	D. D.	Trace	
36		Tr	
37		Tr	
38		Tr	
39		Tr	
40		.01	
41		Tr	
42		.01	
43		.01	
44		.03	
45		.06	
46		.01	
47		.01	
48		Tr	
49		Tr	
50		Tr	
51		.01	
52		Tr	
53		Tr	
54		Tr	
55		Tr	
56		Tr	
57		Tr	
58		Tr	

Assayer: J.W. Beck

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ASSAY CERTIFICATE

Date: January 21, 1987

Geocanex - Oracle Resources - OPAP

Sample No.	Description	oz/ton Au	oz/ton Ag
19259	D. D.	Trace	
60		Tr	
61		Tr	
62		Tr	
63		Tr	
64		Tr	
65		Tr	
66		Tr	
67		Tr	
68		Tr	
69		Tr	
70		Tr	
71		Tr	
72		Tr	
73		Tr	
74		Tr	
75		Tr	
76		Tr	
77		Tr	
78		Tr	
79		Tr	
80		Tr	
81		Tr	
82 XXX		Tr	

Assayer: J.W. Beck



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Geocanex - Oracle Resources - OPAP

ASSAY CERTIFICATE

Date: January 21, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
19283	D. D.	Trace	
84		Tr	
85		Tr	
86		Tr	
87		Tr	
88		Tr	
89		Tr	
90		Tr	
91		Tr	
92		Tr	
93		Tr	
94		Tr	
95		Tr	
96		.02	
97		Tr	
98		Tr	
99		Tr	
19300		.03	
01		Tr	
02		Tr	
03		Tr	
04		Tr	
05		Tr	
06		Tr	

Assayer: J.W. Beck



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ASSAY CERTIFICATE

Date: January 21, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
19307	D. D.	Trace	
08		Tr	
09		Tr	
10		Tr	
11		Tr	
12		Tr	
13		Tr	
14		Tr	
15		Tr	
16		Tr	
17		Tr	
18		Tr	
19		Tr	
20		Tr	
21	TO FOLLOW		
22		.02	
23		Tr	
24		Tr	
25		.01	
26		Tr	
27		Tr	
28		Tr	
29		.04	
30		Tr	

Assayer: J.W. Beck



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ASSAY CERTIFICATE

Date: January 21, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
19331	D. D.	.02	
32		Trace	
33		Tr	
34		Tr	
35		Tr	
36		Tr	
37		.06	
38		.03	
39		.12	
40		Tr	
41		.04	
42		Tr	
43		Tr	
44		Tr	
45		Tr	
46		Tr	
47		Tr	
48		Tr	
49		Tr	
50		Tr	
51		Tr	
52		.16	
53		.02	
54		Tr	

Assayer: J.W. Beck



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ASSAY CERTIFICATE

Date: January 21, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
19355	D. D.	Trace	
56		Tr	
57		Tr	
58		.01	
59		Tr	
60		Tr	
61		Tr	
62		Tr	
63		Tr	
64		.02	
65		Tr	
66		Tr	
67		Tr	
68		Tr	
69		Tr	
70		Tr	
71		.02	
72		.08	
73		Tr	
74		Tr	
75		Tr	
76		Tr	
77		Tr	
78		Tr	

Assayer: J.W. Beck

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ASSAY CERTIFICATE

Date: January 21, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
19379	D. D.	Trace	
80		Tr	
81		Tr	
82		Tr	
83		Tr	
84		Tr	
85		Tr	
86		Tr	
87		.01	
88		.02	
89		.02	
90		.01	
91		.01	
92		.01	
93		.01	
94		Tr	
95		.01	
96		.01	
97		.03	
98		.02	
	Total assays for January 21, 1987 - 163		

Assayer: J.W. Beck



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J.W. Beck, Assayer,
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"Assaying for over 30 Years"

ASSAY CERTIFICATE

Date: January 22, 1987

Geocanex - Oracle Resources - OPAP

Sample No.	Description	oz/ton Au	oz/ton Ag
19399	D. D.	Trace	
19400		Tr	
01		Tr	
02		Tr	
03		Tr	
04		Tr	
05		Tr	
06		Tr	
07		Tr	
08		Tr	
09		Tr	
10		.01	
11		Tr	
12		Tr	
13		Tr	
14		Tr	
15		Tr	
16		Tr	
17		Tr	
18		.01	
19		Tr	
19321	Reported as 'to follow' on January 21, 1987	1.01	(rerun = .96)
	Total assays for January 22, 1987 - 22		

Assayer: J.W. Beck

APPENDIX E
SOIL SAMPLE ANALYTICAL CERTIFICATES



REPORT: 016-4786

PROJECT: OPAP

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB
L40N-26W		3.4	<1	L20N-33W		2.5	5
L40N-25W		2.1	<1	L20N-32W		8.6	<1
L40N-24W		3.1	<1	L20N-31W		2.1	<1
L40N-23W		2.2	1	L20N-30W		0.7	<1
L40N-22W		3.1	<1	L20N-29W		2.0	2
L40N-21W		2.9	<1	L20N-28W		1.2	<1
L40N-20W		1.9	<1	L20N-27W		1.5	2
L36N-22W		2.0	<1	L20N-26W		1.7	<1
L36N-21W		1.7	1	L20N-25W		2.5	1
L36N-20W		2.1	<1	L20N-24W		2.8	<1
L28N-56W		1.8	<1	L20N-23W		2.6	2
L28N-55W		2.0	2	L20N-22W		2.1	<1
L28N-54W		2.6	<1	L20N-21W		2.3	<1
L28N-53W		48.0	<1	L20N-20W		1.2	1
L28N-52W		2.3	<1	L16N-19E		12.0	<2
L28N-51W		2.6	<1	L16N-20E		10.0	<1
L28N-50W		4.9	<1	L16N-21E		35.0	<2
L28N-49W		1.9	2	L16N-22E		42.0	2
L28N-48W		3.8	<1	L16N-23E		14.0	<2
L20N-56W		5.7	3	L16N-24E		1.7	<1
L20N-55W		3.0	<1	L16N-25E		0.6	<1
L20N-54W		2.0	<1	L16N-26E		1.2	2
L20N-53W		4.1	<1	L16N-27E		2.6	<1
L20N-52W		3.1	<1	L16N-30E		1.7	<1
L20N-51W		3.4	<1	L16N-31E		1.7	<1
L20N-50W		17.0	<1	L16N-32E		1.1	<1
L20N-49W		57.2	<2	L16N-33E		0.7	<1
L20N-48W		5.5	<1	L16N-34E		1.0	<1
L20N-47W		8.1	<2	L16N-35E		1.1	<1
L20N-46W		0.9	1	L16N-36E		1.0	<1
L20N-45W		19.0	<1	L16N-37E		0.6	<1
L20N-44W		10.0	<1	L16N-38E		1.4	<1
L20N-43W		4.2	2	L16N-39E		1.9	<1
L20N-42W		0.8	<1	L16N-40E		5.7	<1
L20N-41W		2.5	<2	L16N-41E		17.0	<1
L20N-38W		1.7	<1	L16N-42E		1.4	<1
L20N-37W		1.7	<1	L16N-43E		1.4	2
L20N-36W		1.2	<1	L16N-44E		1.6	3
L20N-35W		2.2	2	L16N-45E		11.0	<1
L20N-34W		2.0	<1	L16N-46E		6.9	<1



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SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB
L16N-47E		3.3	<1	L8N-29W		1.4	1
L16N-48E		5.5	3	L8N-28W		1.8	<1
L16N-49E		6.1	<1	L8N-27W		2.6	<1
L16N-50E		7.6	<1	L8N-26W		1.7	<2
L16N-51E		20.0	<1	L8N-25W		2.0	<1
L16N-52E		62.7	<2	L8N-24W		1.7	<3
L16N-53E		2.4	<1	L8N-23W		1.4	2
L16N-54E		1.5	<1	L8N-22W		3.4	<1
L16N-55E		6.5	<1	L8N-21W		1.7	2
L16N-56E		1.2	<1	L8N-20W		1.2	<1
L16N-57E		1.5	2	L4N-43W		4.1	<1
L16N-58E		1.4	<1	L4N-42W		7.5	<1
L16N-58+50E		1.3	<1	L4N-41W		4.3	<1
L8N-56W		4.2	<1	L4N-40W		5.3	<1
L8N-55W		1.3	<1	L4N-39W		71.6	<1
L8N-54W		<0.5	<1	L4N-38W		3.6	2
L8N-53W		1.8	<1	L4N-37W		2.4	<1
L8N-52W		2.7	<1	L4N-36W		3.0	<1
L8N-51W		0.8	<1	L4N-35W		2.1	<1
L8N-50W		<0.5	<1	L4N-34W		1.9	<1
L8N-49W		2.1	<1	L4N-33W		1.7	<1
L8N-48W		3.0	<1	L4N-32W		1.3	<1
L8N-47W		0.9	<1	L4N-31W		1.6	<1
L8N-46W		3.1	2	L4N-29W		2.1	<1
L8N-45W		51.6	<1	L4N-28W		3.0	<1
L8N-44W		18.0	<1	L4N-27W		2.4	<1
L8N-43W		2.3	<1	L4N-26W		2.0	<1
L8N-42W		4.2	2	L4N-25W		2.4	<1
L8N-41W		5.9	<1	L4N-24W		3.1	<1
L8N-40W		24.0	<1	L4N-23W		1.5	<1
L8N-39W		13.0	<1	L4N-22W		2.5	<1
L8N-38W		105.0	<2	L4N-21W		2.3	<1
L8N-37W		5.4	<1	L4N-20W		2.0	<1
L8N-36W		0.8	<1				
L8N-35W		3.1	<1				
L8N-34W		1.2	<1				
L8N-33W		1.7	<1				
L8N-32W		1.1	<1				
L8N-31W		5.2	<1				
L8N-30W		1.5	<1				



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SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB
L44N-20E		2.9	<1	L24N-46W		17.0	<1
L44N-21E		2.3	1	L24N-45W		13.0	<1
L44N-22E		1.3	1	L24N-44W		18.0	<1
L44N-23E		1.7	<1	L24N-43W		2.0	2
L44N-24E		3.9	<1	L24N-42W		2.6	<2
L44N-25E		1.9	<1	L24N-41W		3.5	11
L44N-26E		3.4	<1	L24N-40W		2.6	<1
L44N-27E		9.3	<1	L24N-39W		1.2	1
L44N-28E		9.0	<1	L24N-38W		10.0	<1
L44N-29E		3.0	<1	L24N-37W		3.6	<1
L44N-31E		6.2	<1	L24N-36W		2.6	3
L44N-32E		19.0	<1	L24N-35W		2.4	4
L44N-33E		13.0	<1	L24N-34W		2.2	1
L44N-34E		22.0	<1	L24N-33W		1.3	<1
L44N-35E		12.0	<1	L24N-32W		2.0	<1
L44N-36E		4.8	<1	L24N-31W		2.2	<1
L44N-37E		6.4	3	L24N-30W		1.6	<1
L44N-38E		2.1	<1	L24N-29W		1.8	<1
L44N-39E		18.0	<1	L24N-28W		2.9	<1
L44N-40E		19.0	<1	L24N-27W		2.5	2
L44N-41E		4.9	<1	L24N-26W		2.7	<1
L44N-42E		3.0	<1	L24N-25W		2.3	<1
L44N-43E		3.5	<1	L24N-24W		2.4	<1
L44N-44E		2.3	<1	L24N-23W		2.0	<1
L44N-45E		2.7	<1	L24N-22W		2.1	<1
L44N-46E		1.1	<1	L24N-21W		2.4	1
L44N-47E		1.2	<1	L24N-20W		2.1	<1
L44N-48E		1.3	<1	L24N-20E		0.8	<1
L44N-49E		2.6	<1	L24N-21E		1.5	<1
L44N-50E		1.0	<1	L24N-22E		2.4	<1
L24N-56W		1.4	2	L24N-23E		1.9	1
L24N-55W		3.3	<1	L24N-24E		2.0	<1
L24N-54W		7.5	<1	L24N-25E		1.2	<1
L24N-53W		2.0	<1	L24N-26E		1.3	<1
L24N-52W		1.4	<1	L24N-49E		173.0	<2
L24N-51W		2.8	<1	L24N-50E		2.5	<1
L24N-50W		3.4	2	L24N-51E		1.3	2
L24N-49W		16.0	<1	L24N-52E		6.3	<1
L24N-48W		6.6	<1	L24N-53E		5.2	2
L24N-47W		5.2	1	L24N-54E		0.7	<1



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SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB
L24N-55E		2.1	<1	LON-48E		<0.5	1
L24N-56E		2.6	<1	LON-49E		2.3	<1
L24N-56+58E		1.8	1	LON-50E		1.7	<1
L16N-56W		2.7	<1	LON-52E		2.1	<1
L16N-55W		2.5	<1	LON-53E		3.1	<1
L16N-54W		2.2	<1	LON-54E		1.9	<1
L16N-53W		20.0	<1	LON-55E		2.6	<1
L16N-52W		2.2	<1	LON-56E		1.5	2
L16N-51W		0.6	<1	LON-57E		1.3	1
L16N-50W		2.1	<1	LON-58E		1.5	<1
L16N-49W		2.3	<1	LON-59E		1.6	<1
L16N-48W		1.2	<1				
L16N-47W		2.0	<1				
L16N-46W		2.2	<1				
LON-20E		2.1	<1				
LON-21E		1.6	<1				
LON-22E		1.7	<1				
LON-23E		1.6	<1				
LON-24E		2.1	<1				
LON-25E		7.5	<2				
LON-26E		1.2	<1				
LON-27E		2.5	<1				
LON-30E		1.9	<1				
LON-31E		2.6	<1				
LON-32E		1.8	1				
LON-33E		2.1	<1				
LON-34E		2.3	1				
LON-35E		<0.5	<1				
LON-36E		2.4	<1				
LON-37E		2.1	<1				
LON-38E		1.5	<1				
LON-39E		1.5	<1				
LON-40E		1.3	<1				
LON-41E		1.2	<1				
LON-42E		1.5	1				
LON-43E		1.5	1				
LON-44E		1.2	<1				
LON-45E		2.3	<1				
LON-46E		0.9	<1				
LON-47E		1.5	<1				



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SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB
L52N-20E		3.4	<1	L48N-25E		1.6	<1
L52N-21E		6.9	<1	L48N-26E		2.9	<1
L52N-22E		37.0	<1	L48N-27E		1.8	<1
L52N-23E		5.9	<1	L48N-28E		3.9	<1
L52N-24E		2.8	<1	L48N-29E		9.0	1
L52N-25E		2.0	<1	L48N-30E		38.0	<1
L52N-26E		1.8	<1	L48N-31E		5.9	<1
L52N-27E		71.1	<1	L48N-32E		4.5	<1
L52N-28E		6.7	<1	L48N-33E		27.0	<1
L52N-29E		49.0	<1	L48N-34E		13.0	<1
L52N-30E		10.0	<1	L48N-35E		5.1	<1
L52N-31E		34.0	<1	L48N-36E		27.0	<2
L52N-32E		14.0	<1	L48N-37E		4.9	<1
L52N-33E		85.8	<2	L48N-38E		3.9	<1
L52N-34E		22.0	1	L48N-39E		3.2	<1
L52N-35E		12.0	1	L48N-40E		5.6	<1
L52N-36E		10.0	<1	L48N-41E		5.0	<1
L52N-37E		11.0	<1	L48N-42E		4.0	<1
L52N-38E		2.1	<1	L48N-43E		3.6	<1
L52N-39E		2.5	2	L48N-44E		4.0	2
L52N-40E		1.6	2	L48N-45E		1.5	1
L52N-41E		5.1	<1	L48N-46E		11.0	<1
L52N-42E		4.9	<1	L48N-47E		3.2	1
L52N-43E		6.4	<1	L48N-48E		2.4	<1
L52N-44E		4.4	2	L48N-49E		14.0	<1
L52N-45E		3.8	<1	L48N-50E		5.5	<1
L52N-46E		2.3	<1	L48N-52E		8.8	<1
L52N-47E		2.5	<1	L48N-53E		2.1	1
L52N-48E		4.5	<1	L48N-54E		5.6	2
L52N-49E		5.0	<1	L44N-56W		0.8	<1
L52N-50E		3.8	<1	L44N-55W		1.6	<1
L52N-51E		24.0	<1	L44N-54W		1.5	<1
L52N-52E		1.2	<1	L44N-53W		0.8	<1
L52N-53E		1.0	<1	L44N-52W		5.6	<1
L52N-53+70E		1.3	<1	L44N-51W		1.4	<1
L48N-20E		2.5	<1	L44N-50W		1.8	<1
L48N-21E		8.1	<1	L44N-49W		1.4	<1
L48N-22E		35.0	<1	L44N-48W		2.3	<1
L48N-23E		12.0	<1	L44N-47W		3.1	<1
L48N-24E		3.5	<1	L44N-46W		2.1	<1



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SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB
L44N-45W		8.6	<1	L40N-31E		6.5	<1
L44N-44W		4.1	<1	L40N-32E		47.0	<1
L44N-43W		2.8	2	L40N-33E		51.5	<2
L44N-42W		2.4	<1	L40N-34E		26.0	<1
L44N-41W		2.6	<1	L40N-35E		54.6	<2
L44N-40W		2.2	<1	L40N-36E		26.0	<1
L44N-39W		3.1	1	L40N-37E		4.2	<1
L44N-38W		2.8	<1	L40N-38E		4.7	<1
L44N-37W		1.2	<1	L40N-39E		10.0	<1
L44N-36W		2.6	5	L40N-40E		7.6	<1
L44N-35W		1.5	<1	L40N-41E		3.4	<1
L44N-34W		18.0	2	L40N-42E		9.3	<1
L44N-33W		5.7	2	L40N-43E		2.6	1
L44N-32W		1.8	<2	L40N-44E		34.0	2
L44N-31W		2.0	<1	L40N-45E		1.2	<1
L44N-30W		0.9	<1	L40N-46E		1.3	2
L44N-29W		1.2	2	L40N-47E		1.3	<1
L44N-28W		5.7	6	L40N-48E		0.8	<1
L44N-27W		3.1	<1	L40N-49E		1.5	<1
L44N-26W		3.1	<1	L40N-50E		3.1	1
L44N-25W		1.2	<1	L40N-51E		0.7	<1
L44N-24W		2.2	<1	L40N-52E		2.7	3
L44N-23W		2.3	<1	L40N-53E		1.8	<1
L44N-22W		3.2	1	L40N-53+57E		2.4	<1
L44N-21W		8.0	<1	L32N-20E		73.6	<2
L44N-20W		2.8	<1	L32N-21E		19.0	<1
L44N-51E		1.3	<1	L32N-22E		7.6	<1
L44N-52E		2.9	<2	L32N-23E		19.0	<1
L44N-53E		6.5	2	L32N-24E		10.0	<1
L44N-54E		2.6	<1	L32N-25E		7.3	<1
L40N-20E		4.3	<1	L32N-26E		5.9	1
L40N-21E		7.9	<1	L32N-27E		12.0	<1
L40N-23E		6.2	<1	L32N-28E		16.0	2
L40N-24E		5.5	<1	L32N-29E		10.0	<1
L40N-25E		2.8	<1	L32N-30E		14.0	<1
L40N-26+25E		2.4	<1	L32N-31E		32.0	<1
L40N-27E		2.0	2	L32N-33E		5.4	<1
L40N-28E		3.2	<1	L32N-34E		6.3	<1
L40N-29E		8.5	1	L32N-41E		19.0	<1
L40N-30E		18.0	<1	L32N-42E		41.0	<1

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SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB
L32N-43E		3.0	<1	L16N-39W		1.2	<1
L32N-44E		1.9	2	L16N-38W		2.1	3
L32N-45E		2.5	2	L16N-37W		2.8	2
L32N-46E		2.5	<1	L16N-36W		1.0	1
L32N-47E		2.8	<1	L16N-35W		3.3	<1
L32N-48E		2.6	1	L16N-34W		2.3	<1
L32N-49E		1.9	<1	L16N-33W		2.4	<1
L32N-50E		2.0	2	L16N-32W		2.7	3
L32N-51E		2.1	<1	L16N-31W		1.6	<1
L32N-52E		2.3	1	L16N-30W		1.8	1
L32N-53E		1.4	<1	L16N-29W		1.3	<1
L32N-54E		1.4	1	L16N-28W		1.7	<1
L32N-55E		1.5	<1	L16N-27W		3.2	<1
L32N-56E		2.3	<1	L16N-26W		1.1	<1
L20N-20E		2.4	1	L16N-25W		1.6	<1
L20N-21E		2.2	<1	L16N-24W		2.3	<1
L20N-22E		1.4	<1	L16N-23W		2.3	<1
L20N-23E		1.6	<1	L16N-22W		2.0	<1
L20N-24E		2.1	<1	L16N-21W		2.5	<1
L20N-25E		1.7	<1	L16N-20W		2.1	<1
L20N-26E		1.9	<1	L12N-56W		1.4	<1
L20N-27E		1.8	<1	L12N-55W		0.9	<1
L20N-33E		2.8	1	L12N-54W		2.2	<1
L20N-34E		2.6	<1	L12N-53W		2.8	<1
L20N-35E		2.7	2	L12N-52W		2.4	1
L20N-36E		2.6	2	L12N-51W		2.0	<1
L20N-37E		1.7	<1	L12N-50W		2.0	<1
L20N-38E		2.0	1	L12N-49W		3.0	<1
L20N-39E		1.1	<1	L12N-48W		3.0	1
L20N-40E		0.6	<1	L12N-47W		3.5	<1
L20N-51+20E		8.5	<1	L12N-46W		1.8	2
L20N-52E		11.0	<1	L12N-40W		1.4	<1
L20N-53E		1.3	<1	L12N-39W		4.1	<1
L20N-54E		0.8	<1	L12N-38W		2.0	1
L20N-55E		1.3	<1	L12N-37W		1.9	21
L20N-56E		0.9	<1	L12N-36W		2.7	1
L20N-57E		1.0	<1	L12N-35W		2.7	1
L20N-58E		2.8	<1	L12N-34W		2.0	<1
L16N-45W		6.7	<1	L12N-33W		2.2	<1
L16N-44W		11.0	2	L12N-32W		2.1	<1



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SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB
L12N-31W		3.3	<1				
L12N-30W		1.7	<1				
L12N-29W		3.5	1				
L12N-28W		1.8	<1				
L12N-27W		2.7	2				
L12N-26W		2.1	1				
L12N-25W		2.1	<1				
L12N-24W		2.8	<1				
L12N-23W		3.5	<1				
L12N-22W		2.4	<1				
L12N-21W		2.3	<1				
L12N-20W		2.8	<1				
L8N-54+70E		0.7	<1				
L8N-55+70E		2.2	<1				
L8N-56+70E		1.0	<1				
L8N-57+70E		<0.5	<1				
L8N-58+70E		<0.5	<1				
L8N-59+70E		<0.5	<1				
L8N-60+70E		2.7	1				
L4N-56W		1.3	<1				
L4N-55W		1.7	2				
L4N-54W		1.5	<1				
L4N-53W		2.4	<1				
L4N-52W		1.6	<1				
L4N-51W		2.4	2				
L4N-50W		2.2	<1				
L4N-49W		1.7	<1				
L4N-48W		6.4	1				
L4N-47W		2.7	<1				
L4N-46W		4.4	<1				
L4N-44W		47.0	<1				

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SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB
L40N-55W		2.0	<1	L36N-45W		3.3	1
L40N-54W		2.9	<1	L36N-44W		2.0	<1
L40N-53W		2.7	<1	L36N-43W		2.8	<1
L40N-52W		2.1	2	L36N-42W		2.8	1
L40N-51W		2.5	<1	L36N-41W		2.1	<1
L40N-50W		2.7	<1	L36N-40W		1.4	<1
L40N-49W		1.1	<1	L36N-39W		1.6	<1
L40N-48W		1.5	<1	L36N-38W		1.7	1
L40N-47W		1.3	2	L36N-37W		2.4	2
L40N-46W		2.1	<1	L36N-36W		1.3	1
L40N-45W		2.7	<1	L36N-35W		1.0	<1
L40N-44W		2.9	2	L36N-34W		2.6	<1
L40N-43W		1.8	<1	L36N-33W		1.4	<1
L40N-42W		2.7	<1	L36N-32W		1.2	<1
L40N-41W		1.9	1	L36N-31W		1.6	1
L40N-40W		2.9	<1	L36N-30W		1.1	<2
L40N-39W		1.6	<1	L36N-29W		1.7	2
L40N-38W		2.5	3	L36N-28W		2.3	<1
L40N-37W		2.3	7	L36N-27W		2.4	<1
L40N-36W		2.0	<1	L36N-26W		2.0	<1
L40N-35W		16.0	<1	L36N-25W		1.2	<1
L40N-34W		1.7	<1	L36N-24W		2.1	<1
L40N-33W		3.1	<1	L36N-23W		2.4	<1
L40N-32W		2.4	<2	L32N-56W		2.4	<1
L40N-31W		2.1	<1	L32N-55W		0.7	<1
L40N-30W		2.0	<1	L32N-54W		3.1	<1
L40N-29W		2.4	<1	L32N-53W		3.7	<1
L40N-28W		2.1	<1	L32N-52W		2.4	<1
L40N-27W		2.0	<1	L32N-51W		2.0	<1
L36N-56W		2.6	2	L32N-50W		7.6	<2
L36N-55W		3.2	1	L32N-49W		3.8	<1
L36N-54W		2.8	<1	L32N-48W		4.7	<1
L36N-53W		2.2	<1	L32N-47W		1.7	1
L36N-52W		2.9	<1	L32N-46W		2.9	<1
L36N-51W		2.0	<1	L32N-45W		2.2	<1
L36N-50W		2.3	<1	L32N-44W		1.8	<1
L36N-49W		2.9	<1	L32N-43W		2.1	<1
L36N-48W		1.7	2	L32N-42W		2.2	<1
L36N-47W		1.7	<1	L32N-41W		2.6	1
L36N-46W		2.4	1	L32N-40W		2.0	<1



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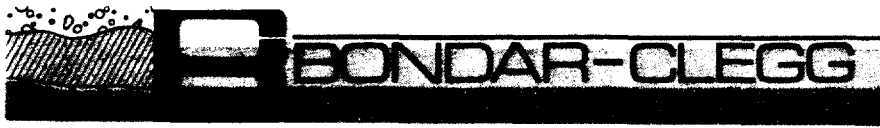
PROJECT: OPAP

PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB
L32N-39W		2.7	1	L28N-27W		2.1	<1
L32N-38W		3.1	<1	L28N-26W		1.6	<1
L32N-37W		2.2	<1	L28N-25W		2.4	<1
L32N-36W		2.7	3	L28N-24W		2.5	<1
L32N-35W		2.2	<1	L28N-23W		2.0	<1
L32N-34W		2.2	<1	L28N-22W		2.4	3
L32N-33W		2.1	<1	L28N-21W		3.0	1
L32N-32W		2.8	<1	L28N-20W		1.9	<1
L32N-31W		1.6	1	L28N-20E		34.0	<1
L32N-30W		2.7	<1	L28N-21E		2.5	<1
L32N-29W		2.9	<1	L28N-22E		4.8	<1
L32N-28W		11.0	<1	L28N-23E		3.0	1
L32N-27W		25.0	<1	L28N-24E		1.7	<1
L32N-26W		2.5	<1	L28N-25E		3.3	<1
L32N-25W		2.5	2	L28N-26E		4.9	<1
L32N-24W		3.1	2	L28N-27E		12.0	<1
L32N-23W		2.6	<1	L28N-28E		2.5	<1
L32N-22W		4.0	<2	L28N-29E		2.6	2
L32N-21W		2.4	1	L28N-30E		5.3	2
L32N-20W		3.1	<1	L28N-31E		11.0	<2
L28N-47W		2.7	<1	L28N-32E		6.3	1
L28N-46W		2.2	<1	L28N-33E		22.0	<2
L28N-45W		3.2	<1	L28N-34E		13.0	<1
L28N-44W		2.9	<1	L28N-35E		21.0	<1
L28N-43W		3.7	<1	L28N-36E		6.3	<1
L28N-42W		1.8	<1	L28N-42E		1.6	<1
L28N-41W		1.7	<1	L28N-43E		8.6	<1
L28N-40W		2.1	<1	L28N-44E		11.0	<1
L28N-39W		8.2	<1	L28N-45E		2.3	2
L28N-38W		4.8	<1	L28N-46E		23.0	3
L28N-37W		1.1	<2	L28N-47E		6.3	<1
L28N-36W		2.2	<1	L28N-48E		4.2	<1
L28N-35W		2.1	<1	L28N-49E		1.5	<1
L28N-34W		1.9	<1	L28N-50E		1.0	1
L28N-33W		1.6	1	L28N-51E		2.3	2
L28N-32W		1.5	<1	L28N-52E		1.4	<1
L28N-31W		1.2	<1	L28N-53E		1.4	<1
L28N-30W		1.8	<1	L28N-54E		2.0	1
L28N-29W		2.3	1	L28N-55E		1.4	2
L28N-28W		3.1	<1	L28N-56E		0.7	1

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Bondar-Clegg & Company Ltd.
5420 Canotek Rd.,
Ottawa, Ontario,
Canada K1J 8X5
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Telex: 33



Geochemical
Lab Report

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SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB
L28N-57E		4.7	3				
LON-60E		0.5	<1				
LON-61E		2.6	<1				
LON-62E		1.7	<1				
LON-63E		1.3	<1				

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SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB
L36N-22E		12.0	<1	L12N-26E		6.7	1
L36N-23E		17.0	<1	L12N-27E		1.9	<1
L36N-24E		49.0	2	L12N-28E		2.7	<1
L36N-25E		5.1	<1	L12N-29E		2.3	<1
L36N-26E		3.6	<1	L12N-30E		0.6	<1
L36N-27E		3.2	<1	L12N-31E		0.7	<1
L36N-28E		5.4	<1	L12N-32E		0.9	2
L36N-29E		4.7	<1	L12N-33E		0.8	<1
L36N-30E		4.3	1	L12N-34E		0.8	<1
L36N-31E		4.7	<1	L12N-35E		<0.5	<1
L36N-32E		38.0	<1	L12N-36E		3.4	1
L36N-33E		25.0	<1	L12N-37E		1.6	<2
L36N-34E		7.5	<1	L12N-38E		0.8	<1
L36N-35E		25.0	<1	L12N-39E		0.6	<1
L36N-36E		20.0	<1	L12N-40E		12.0	<1
L36N-37E		4.4	<1	L12N-41E		1.5	<1
L36N-38E		3.0	<1	L12N-42E		1.8	1
L36N-39E		3.7	<1	L12N-43E		2.0	<1
L36N-40E		5.2	<1	L12N-44E		3.2	<1
L36N-41E		4.9	<1	L12N-45E		2.2	<1
L36N-42E		12.0	<1	L12N-46E		1.9	<1
L36N-43E		21.0	2	L12N-47E		1.1	<1
L36N-44E		12.0	<1	L12N-48E		0.8	<1
L36N-45E		6.7	2	L12N-49E		0.8	<1
L36N-46E		18.0	<1	L12N-50E		0.9	<1
L36N-47E		25.0	<1	L12N-51E		1.2	<1
L36N-48E		22.0	<1	L12N-52E		<0.5	<1
L36N-49E		2.2	<1	L12N-53E		<0.5	<1
L36N-50E		1.6	<1	L12N-54E		2.0	<1
L36N-51E		1.0	<1	L12N-55E		0.9	<1
L36N-52E		1.4	<1	L12N-56E		3.0	1
L36N-53E		2.9	4	L12N-57E		2.0	<1
L36N-54E		3.1	<1	L12N-58E		0.6	<1
L36N-55E		2.6	1	L12N-59E		1.3	<1
L12N-20E		2.2	<1	L12N-60E		1.7	<1
L12N-21E		1.8	<1	L8N-19+70E		1.7	<1
L12N-22E		6.0	<1	L8N-20+70E		2.1	<1
L12N-23E		8.0	<1	L8N-21+70E		2.1	<1
L12N-24E		47.0	<2	L8N-22+70E		1.9	<1
L12N-25E		26.0	<2	L8N-23+70E		17.0	<2

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SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPR	SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB
L8N-24+70E		22.0	<1	L4N-31+50E		2.1	<1
L8N-25+70E		3.2	<1	L4N-32+50E		2.0	<1
L8N-26+70E		2.0	4	L4N-33+50E		0.9	<1
L8N-27+70E		1.6	1	L4N-34+50E		4.1	<1
L8N-28+70E		0.6	<1	L4N-35+50E		6.6	<1
L8N-29+70E		<0.5	<1	L4N-36+50E		1.7	<1
L8N-30+70E		0.8	<1	L4N-37+50E		2.1	<1
L8N-31+70E		0.7	<1	L4N-38+50E		3.7	<1
L8N-32+70E		<0.5	<1	L4N-39+50E		1.9	<1
L8N-33+70E		1.0	<1	L4N-40+50E		1.7	<1
L8N-34+70E		0.9	1	L4N-41+50E		1.5	<1
L8N-35+70E		1.2	<1	L4N-42+50E		2.2	1
L8N-36+70E		2.2	<1	L4N-43+50E		1.8	<1
L8N-37+70E		1.2	<1	L4N-44+50E		1.0	<1
L8N-38+70E		1.8	<1	L4N-45+50E		1.8	<1
L8N-39+70E		2.7	1	L4N-46+50E		1.1	<1
L8N-40+70E		1.7	2	L4N-47+50E		2.1	<1
L8N-41+70E		0.9	<1	L4N-49E		2.7	2
L8N-42+70E		0.8	<1	L4N-50E		2.9	<1
L8N-43+70E		0.9	2	L4N-50+50E		2.2	2
L8N-44+70E		1.1	<1	L4N-51E		2.0	3
L8N-45+70E		1.1	<1	L4N-52+50E		2.4	<1
L8N-46+70E		1.0	<1	L4N-53E		1.3	<1
L8N-47+70E		0.8	1	L4N-53+50E		0.8	<1
L8N-48+70E		<0.5	<1	L4N-54E		2.2	<1
L8N-49+70E		0.9	1	L4N-54+50E		2.1	<1
L8N-50+70E		<0.5	<1	L4N-55+50E		<0.5	<1
L8N-51+70E		<0.5	<1	L4N-56+50E		3.4	<1
L8N-52+70E		0.7	<1	L4N-57+50E		1.4	<1
L4N-20+50E		1.9	<1	L4N-58+50E		0.8	<1
L4N-21+50E		2.4	<1	L4N-59+50E		<0.5	<1
L4N-22+50E		1.3	2	L4N-60+50E		2.8	2
L4N-23+50E		2.8	<1	L4N-61+50E		2.7	<1
L4N-24+50E		1.7	2	L4N-62E		2.4	<1
L4N-25+50E		17.0	<2	L0-51W		1.7	<1
L4N-26+50E		7.1	1	L0-50W		1.3	<1
L4N-27+50E		1.7	<1	L0-49W		1.0	2
L4N-28+50E		1.7	<1	L0-48W		1.6	<1
L4N-29+50E		2.4	1	L0-47W		1.0	<1
L4N-30+50E		2.4	<1	L0-46W		3.4	<1

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SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB	SAMPLE NUMBER	ELEMENT UNITS	As PPM	Au PPB
L0-45W		2.0	<1				
L0-44W		2.0	<1				
L0-43W		3.0	1				
L0-42W		3.9	<1				
L0-41W		3.4	1				
L0-40W		3.1	<1				
L0-39W		3.6	<1				
L0-38W		2.0	<1				
L0-37W		0.7	2				
L0-36W		1.0	<1				
L0-35W		1.8	<1				
L0-34W		2.0	<1				
L0-33W		3.0	<1				
L0-32W		3.5	<1				
L0-31W		1.5	<1				
L0-30W		2.0	1				
L0-29W		3.5	<1				
L0-28W		2.0	<1				
L0-27W		6.4	<1				
L0-26W		2.7	<1				
L0-25W		2.8	<1				
L0-24W		13.0	<1				
L0-23W		3.6	<1				
L0-22W		4.7	1				
L0-21W		6.7	<1				
L0-20W		6.3	2				

APPENDIX F
STATISTICAL ANALYSIS OF SOIL SAMPLES

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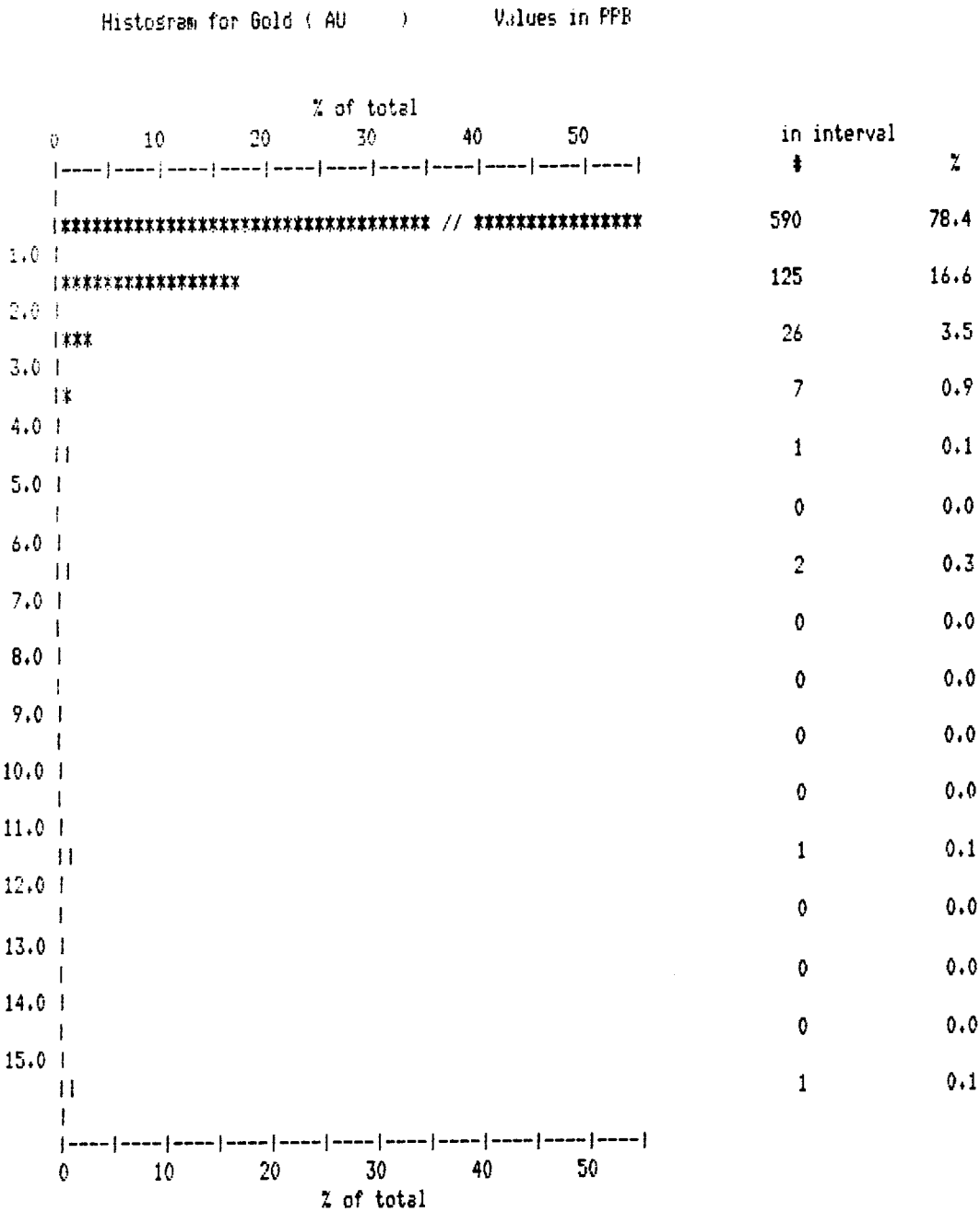
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Bondar-Class Geochemical Statistics Package

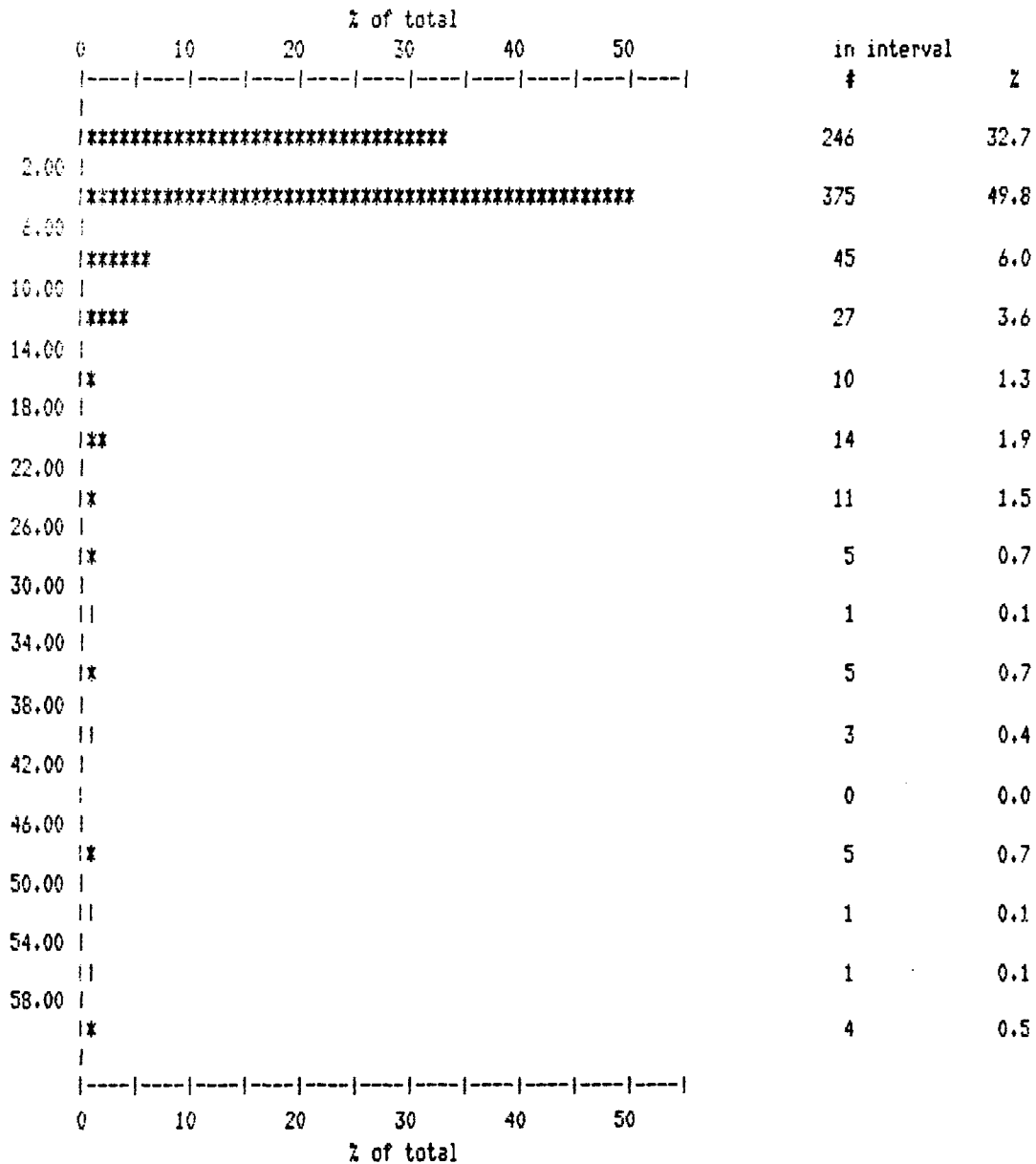
PROJECT: OPAP
 GEOCANEX LIMITED



Summary Statistics			
Number of samples	: 753	Mean value	: 0.8
Number of intervals	: 16	Standard Deviation	: 1.02
Minimum value	: 0.5	Skewness	: 12.36
Maximum value	: 21	Kurtosis	: 213.842
Median value	: 0.5		
Modal Range	: less than 1.0		
Values in modal range	: 590 (78.4 % of total)		

PROJECT: DPAP
 GEOCANEX LIMITED

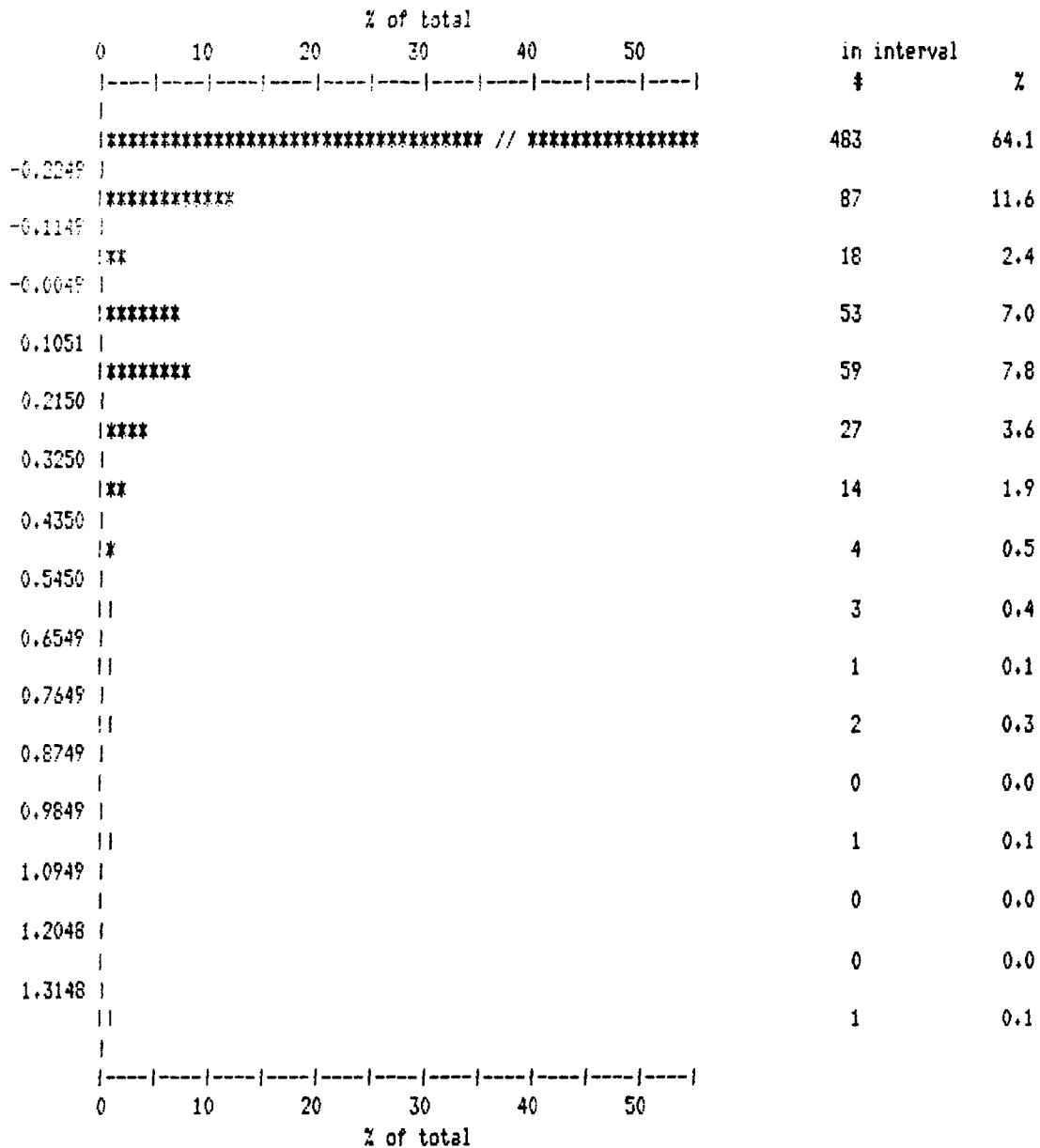
Histogram for Arsenic (AS) Values in PPM



Summary Statistics			
Number of samples	: 753	Mean value	: 5.21
Number of intervals	: 16	Standard Deviation	: 10.511
Minimum value	: 0.2	Skewness	: 7.862
Maximum value	: 173.0	Kurtosis	: 95.1839
Median value	: 2.40		
Modal Range	: greater than 2.00 to less than 6.00		
Values in modal range	: 375 (49.8 % of total)		

PROJECT: OFAP
 GEOCANEX LIMITED

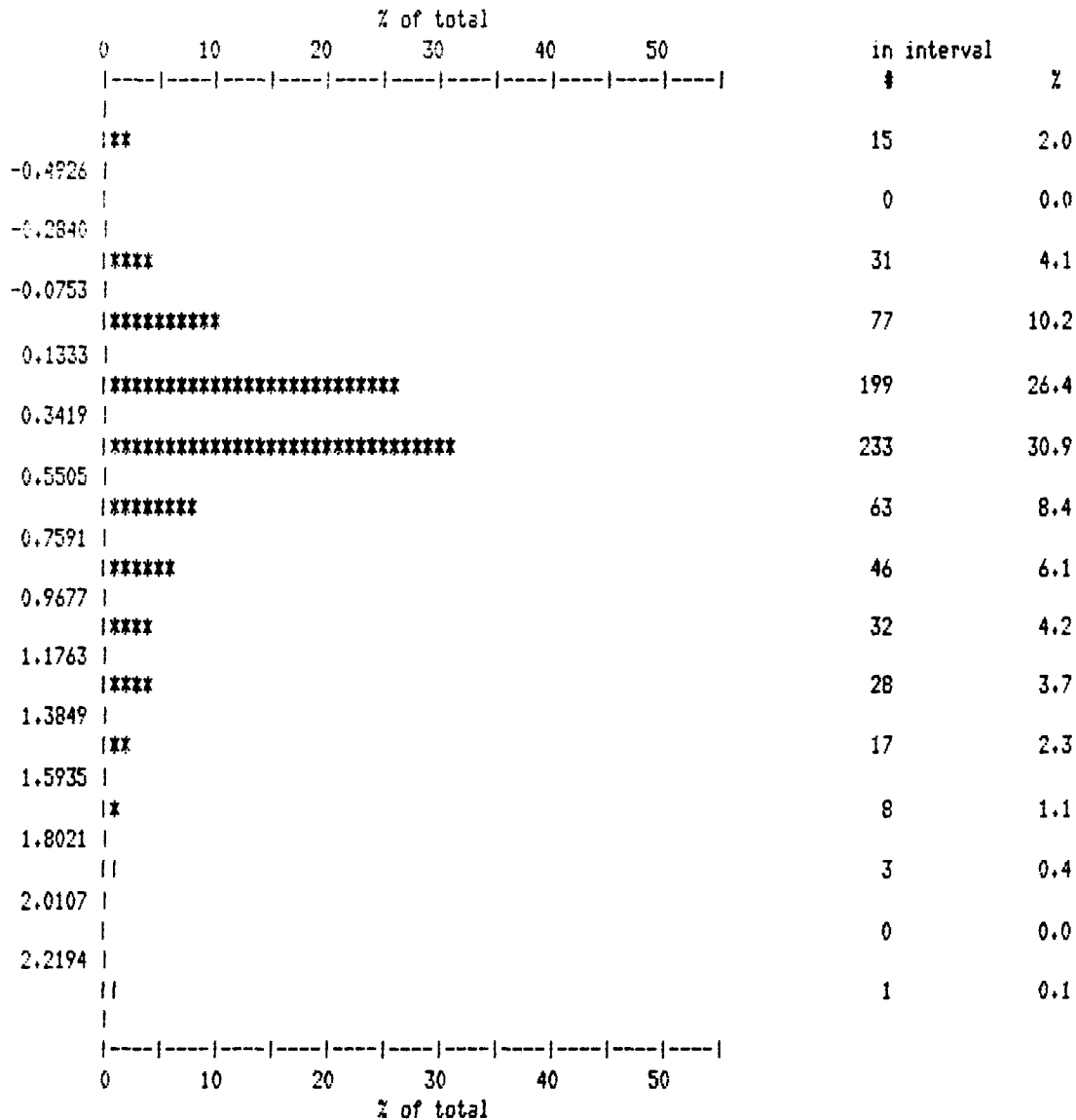
Histogram for Los Au (LOGAU)



Summary Statistics			
Number of samples	: 753	Mean value	: -0.1699
Number of intervals	: 16	Standard Deviation	: 0.21995
Minimum value	: -0.301	Skewness	: 2.0642
Maximum value	: 1.322	Kurtosis	: 3.1282
Median value	: -0.301		
Modal Range	: less than -0.2249		
Values in modal range	: 483 (64.1 % of total)		

PROJECT: OPAP
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Histogram for Log A_s (LOGA_s)

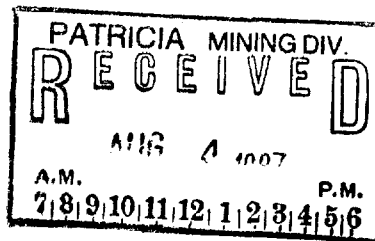


Summary Statistics			
Number of samples	: 753	Mean value	: 0.4462
Number of intervals	: 15	Standard Deviation	: 0.41722
Minimum value	: -0.602	Skewness	: 0.8355
Maximum value	: 2.238	Kurtosis	: 0.0477
Median value	: 0.380		
Modal Range	: greater than 0.3419 to less than 0.5505		
Values in modal range	: 233 (30.9 % of total)		



REPORT
ON
DIAMOND DRILLING
OPAPIMISKAN LAKE PROPERTY
KENORA MINING DIVISION (PATRICIA PORTION), ONTARIO
FOR
ORACLE RESOURCES LTD.

VOLUME 2
(DIAMOND DRILL LOGS)



June, 1987

D.J. Corkery, B.Sc.

APPENDIX G
DIAMOND DRILL LOGS

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-1 LENGTH 428'
 LOCATION 12+10NW 1+00SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -43°
 STARTED September 18, 1986 FINISHED September 22, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-43°				
428'	-38°				

HOLE NO. OP-86-1 SHEET NO. 1 of 2

REMARKS Summary Log

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO					TOTAL
0	17.3	<u>CASING</u>								
17.3	42.4	<u>BANDED IRON FORMATION</u>								
42.4	87.3	<u>ULTRAMAFIC VOLCANICS</u>								
87.3	191.3	<u>BANDED IRON FORMATION</u> - 87.3 - 89.0 - sheared, brecciated, 10-15% pyrrhotite, 3-5% pyrite. - 159.6 - 161.6 - 7-10% pyrrhotite and 2-4% pyrite in poorly banded sections.								
191.3	193.3	<u>LAMPROPHYRE DIKE</u>								
193.3	245.6	<u>BANDED IRON FORMATION</u>								
245.6	274.5	<u>ULTRAMAFIC VOLCANIC</u>								
274.5	275.2	<u>LAMPROPHYRE DIKE</u>								
275.2	277.1	<u>ULTRAMAFIC VOLCANICS</u>								
277.1	283.1	<u>BANDED IRON FORMATION</u>								
283.1	284.2	<u>ULTRAMAFIC VOLCANICS</u>								
284.2	369.7	<u>BANDED IRON FORMATION</u> - 284.2 - 289.2 - 7-10% pyrrhotite.								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-1 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 323.2 - 324.5 - 15-20% pyrite and pyrrhotite.									
369.7	371.5	<u>GARNET-BIOTITE SCHIST</u>									
371.5	428.0	<u>ULTRAMAFIC VOLCANICS</u>									
428.0		End of Hole.									

[Handwritten Signature]

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP 86-1 LENGTH 428'
 LOCATION 12+10 NW, 1+00 SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -43°
 STARTED September 18, 1986 FINISHED September 22, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-43°				
428'	-30°				

HOLE NO. OP-86-1 SHEET NO. 1 of 10

REMARKS _____

PA - 844238

LOGGED BY D.J. Corkery

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO					TOTAL
0	17.3	<u>CASING</u>								
17.3	42.4	<u>BANDED IRON FORMATION (B.I.F.)</u> - bands of dark grey to black, light grey, light green and dark green, fine grained, moderately contorted, bands of chert, hornblende - chlorite and magnetite-grunerite. Few garnets in hornblende bands; 3.0 to 5.0% magnetite, 1.0 to 3.0% pyrrhotite and pyrite along fractures and parallel to banding.								
		- 17.3 to 20.1 - typical with 0.5 to 1.0% pyrrhotite and pyrite.								
		- 20.1 to 24.6 - contorted banding with 5.0 to 7.0% pyrrhotite and 0.5 to 1.0% pyrite along fractures along rims of boudinaged chert bands and parallel to band.	5001		17.3	20.1	2.8			tr.
			5002		20.1	24.6	4.5			tr.
		- 24.6 to 28.0 - similar to above with 5.0 to 7.0% pyrite and 1.0-3.0% pyrrhotite.	5003		24.6	28.0	3.4			tr.
		- 28.0 to 33.6 - similar with minor garnet along amphibole bands, 3.0 to 5.0% pyrrhotite and 0.5 to 1.0% pyrite sulfides occur in fractured chert and around chert boudins in amphibole bands.	5004		28.0	31.0	3.0			tr.
			5005		31.0	33.6	2.6			tr.
		- 32.1 - trace arsenopyrite								
		- 33.6 to 34.7 - well banded, little contortion of bands, with a angle of bands commonly at 63° to core axis.	5006		33.6	34.7	1.1			tr.
		- 34.7 to 38.0 - sheared, banding near parallel to core axis, fine grained garnets along some hornblende bands. 1.0 to 2.0 % pyrrhotite and pyrite along shear planes, fractures, and around boundinaged chert band.	5007		34.7	38.0	3.3			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-1 SHEET NO. 2 of 10

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	UZ TON	
				FROM	TO	TOTAL					
		- 38.0 to 42.4 - sheared, brecciated, fragments of chert with chlorite, amphibole and sulfides in the matrix, 5.0 to 7.0% pyrrhotite and pyrite.	5008		38.0	42.4	4.4			tr.	
		- 42.2 to 42.4 - near massive pyrrhotite at contact with ultramafics.									
42.4	87.3	<u>ULTRAMAFIC VOLCANICS</u> - medium to dark grey, fine grained, weak to moderately foliated, mineralogy dominated by tremolite with oriented phlogopite and biotite, talc and serpentine. Trace fine grained disseminated pyrite. Many calcite-chlorite fractures.									
		- 42.4 to 65.5 - typical, medium grey, dominantly tremolite talc, trace disseminated magnetite.	5009		42.4	43.4	1.0			tr.	
			5010		46.1	48.1	2.0			tr.	
		- 42.4 to 42.6 - contact with banded iron formation, 10.0 to 15.0% pyrrhotite parallel to foliation and along fractures.									
		- 65.5 to 78.0 - dark grey, very little talc, increased phlogopite and serpentine.									
		- 66.0 - foliated at 72° to core axis.									
		- 78.0 to 87.3 - similar to 42.4 to 65.5 but with less talc, trace fine grained magnetite.									
87.3	191.3	<u>BANDED IRON FORMATION</u> - bands of dark grey to black, light grey, buff cream and dark green, moderate to well banded, fine to very fine grained bands of chert, hornblende-biotite and magnetite-grunerite with an approximate ratio of 4:3:3 respectively. 10-12% magnetite. 0.5-1.0% pyrrhotite and trace to 0.5% pyrite along fractures and in highly contorted bands as wisps and stringers.									
		- 87.3 to 89.0 - sheared and brecciated with fragments of chert in matrix of amphibole-chlorite. 10-15% pyrrhotite and 3.0-5.0% pyrite in matrix, contortions and chert and fractures.	5011		87.3	91.0	3.7			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. QP-86-1 SHEET NO. 3 of 10

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 88.7 - trace chalcopyrite.									
		- 89.0 to 91.0 - less sheared with 7.0 to 10.0% pyrrhotite and pyrite.									
		- 91.0 to 93.3 - sheared but with high concentration of hornblende bands, 3.0 to 5.0% magnetite, 2.0 to 5.0% pyrrhotite and minor pyrite.	5012		91.0	93.3	2.3			tr.	
		- 91.3 - carbonate veinlet at 25° to core axis; no visible sulfides.									
		- 93.3 to 129.6 - few hornblende bands, moderately contorted, 0.5 to 1.0% pyrrhotite and trace pyrite.	5013		93.3	98.3	5.0			tr.	
			5014		98.3	103.3	5.0			tr.	
			5015		103.3	108.3	5.0			.01	
		- 96.0 trace arsenopyrite.	5016		108.3	113.3	5.0			tr.	
			5017		113.3	118.3	5.0			.01	
		- 98.0 - banding at 70° to core axis.	5018		118.3	123.3	5.0			.01	
		- 100.0 - 102.0 - fine calcite veinlets (15° to core axis.) They cut pyrrhotite mineralization which is parallel to bedding.	5019		123.3	126.3	3.0			tr.	
			5020		126.3	129.6	3.3			.01	
		- 109.3 - ½" quartz-calcite veinlet 25° to core axis with alteration at walls, no visible sulfides.									
		- 117.0 - banding at 70° to core axis.									
		- 119.7 - very fine grained pyrite disseminated in chert band.									
		- 121.2 - ½" quartz veinlet no visible sulfides									
		- 129.6 to 146.9 - similar to above with higher concentration of hornblende with grunerite-magnetite bands. Few narrow bands of hornblende with disseminated garnets, highly contorted, trace to 0.5% pyrrhotite.	5021		129.6	134.6	5.0			.01	
			5022		134.6	139.6	5.0			.01	
			5023		139.6	144.6	5.0			tr.	
			5024		144.6	146.9	2.3			.01	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-1 SHEET NO. 4 of 10

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 146.9 to 150.9 - several garnet-biotite schist bands trace to 0.5% pyrrhotite parallel to banding.	5025		146.9	150.9	4.0			tr.	
		- 150.9 to 164.7 - same as 129.6 to 146.7 with 0.5 to 1.0% pyrrhotite concentrated in heavily contorted sections	5026		150.9	155.9	5.0			tr.	
		- 152.0 - 154.0 - several chlorite and pyrite coated fractures.	5028		159.6	161.6	2.0			tr.	
		- 159.6 - 161.6 - 7.0 to 10.0% pyrrhotite and 2.0 to 4.0% pyrite in poorly banded section.									
		- 161.9 - 163.1 - fine fractures with chlorite quartz and pyrite filling, discordant with banding at 65° to core axis.	5029		161.6	164.7	3.1			tr.	
		- 164.5 - trace arsenopyrite.									
		- 164.7 to 173.9 - slightly contorted 0.5 to 1.0% pyrrhotite. angles of banding to core axis are as follows:	5030		164.7	169.7	5.0			tr.	
		63° @ 168.5'	5031		169.7	173.9	4.2			tr.	
		58° @ 171.0'									
		62° @ 173.0'									
		- 166.0 - trace arsenopyrite.									
		- 166.7 - trace chalcopyrite.									
		- 167.2 - 167.3 - band of 15 to 20% pyrrhotite parallel to banding.									
		- 171.1 - trace arsenopyrite.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-1

SHEET NO. 5 of 10

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 173.9 to 176.0 - sheared at 35° to core axis with fragments of chert and grunerite-magnetite in hornblende-chlorite.	5032		173.9	178.9	5.0			tr.	
		- 176.0 to 178.0 - well banded, dark magnetite rich bands make up 30° (15 to 20% magnetite) trace to 0.5% sulfides.									
		- 178.0 to 179.0 - same as 173.9 to 176.0.									
		- 179.0 to 185.0 - same as 176.0 to 178.0 with trace to 0.5% sulfides.	5033		178.9	183.9	5.0			tr.	
		- 179.1 - trace chalcopyrite.									
		- 185.0 to 191.3 - grading to larger bands and increases in chert content to 75% chert. trace to 0.5% pyrrhotite.	5034		183.9	188.3	5.0			tr.	
		- 190.8 - 191.3 - >90% chert.	5035		188.3	191.3	3.0			tr.	
		- 189.0, 190.5 - fine fractures filled with chlorite and pyrite.									
191.3	193.3	<u>LAMPROPHYRE DIKE</u> - black, massive, fine grained, porphyritic with black phenocrysts and 1.0 to 2.0% calcite as replaced grains and veinlets, heavily chloritized, no visible sulfides.	5036		191.3	193.3	2.0			tr.	
193.3	245.6	<u>BANDED IRON FORMATION</u> - typical, 0.5 to 1.0% pyrrhotite and trace to 0.5% pyrite.									
		- 193.3 to 195.1 - similar to 185.0 to 191.3 with 75 to 80% chert.	5037		193.3	195.1	1.8			tr.	
		- 195.1 to 230.8 - moderately banded, contorted, foliation developed within beds along which slip has occurred in some cases, (generally less than 1.0") 10 to 15% magnetite.	5038		195.1	200.1	5.0			tr.	
			5039		200.1	205.1	5.0			tr.	
			5040		205.1	210.1	5.0			tr.	
			5041		210.1	212.3	2.2			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO OP-86-1 SHEET NO. 6 of 10

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 212.6 - 212.8 - brecciated and quartz-carbonate filled and chloritized mafic minerals. quartz-calcite mineralization continues to 213.1. The boundaries of brecciated unit occur at 45° to core axis.	5042		212.3	213.3	1.0				tr.
			5043		213.3	218.3	5.0				tr.
		- 215.9 - 217.4 - chloritic clots along grunerite and hornblende bands.	5044		218.3	223.3	5.0				tr.
			5045		223.3	228.7	5.4				tr.
			5046		228.7	229.7	1.0				tr.
		- 229.1 - 229.3 - quartz vein with fine grained garnets at contacts and 0.5 to 1.0% pyrrhotite at contacts.									
		- 230.8 to 245.6 - regular banding with little contortion. Banding gradually gets narrower, 1/2" to 1/4" at 231.0 to <1/8" at 245.0. Garnets develop in narrower amphibole bands.	5047		229.7	234.7	5.0				tr.
			5048		234.7	239.7	5.0				tr.
			5049		238.7	242.2	2.5				tr.
		- 233.0 - banding at 66° to core axis.									
		- 242.0 - 243.0 - contorted bands.									
		- 243.0 - 243.2 - massive pyrrhotite and pyrite along a shear (3/2 pyrrhotite to pyrite) lower boundary 70° to core axis, parallel to banding, upper boundary is at 50° and cuts banding.	5050		242.2	243.2	1.0				tr.
			5051		242.2	245.6	2.6				tr.
		- 244.0 - banding is at 62° to core axis.									
245.6	274.5	<u>ULTRAMAFIC VOLCANIC</u> - medium to dark grey with greenish hue, weakly foliated at 57° to core axis, mineralogy dominated by tremolite-actinolite with several dark clots containing fine grained magnetite no visisble sulfides.									
		- 245.6 to 251.5 - typical									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-1 SHEET NO. 7 of 10

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	OZ TON	OZ TON	
					FROM	TO					TOTAL
		- 251.5 to 253.3 - several narrow tremolite bands.	5052		251.3	253.3	2.0			tr.	
		- 253.3 to 274.5 - dominated by talc-tremolite.									
274.5	275.2	<u>LAMPROPHYRE DIKE</u> - dark grey to black, fine grained, porphyritic, massive, many fine calcite grains, weakly magnetic.	5053		274.4	275.4	1.0			tr.	
275.2	277.1	<u>ULTRAMAFIC VOLCANICS</u>	5054		275.4	277.1	1.7			tr.	
		- 275.2 to 276.1 - typical.									
		- 276.1 to 276.3 - 10.0 to 15.0% pyrrhotite and pyrite, trace chalcopyrite.									
		- 276.3 to 277.1 - fine to very fine grained, dark green to black, dominantly hornblende.									
277.1	283.1	<u>BANDED IRON FORMATION</u> - typical, moderately well banded, contorted, 1.0 to 2.0% pyrrhotite parallel to banding and trace to 0.5% pyrite as fracture coatings. 1.0 to 2.0% garnets in hornblende bands.	5055		277.1	280.1	3.0			tr.	
			5056		280.1	283.1	3.0			.01	
283.1	284.2	<u>ULTRAMAFIC VOLCANICS</u> - typical, trace magnetite, trace to 0.5% calcite as fracture coatings, trace disseminated pyrite.	5057		283.1	284.2	1.1			tr.	
284.2	369.7	<u>BANDED IRON FORMATION</u> - typical, 60% light grey bands, 25% dark grey bands, and 15% cream-green bands, 12 to 15% magnetite.									
		- 284.2 to 289.2 - atypical, poorly banded, highly contorted, 7.0 to 10% pyrrhotite as blebs, wisps and stringers in contorted amphibole and along fractures.	5058		284.2	289.2	5.0			tr.	
		- 289.2 to 322.2 - contorted banding, 1.0 - 2.0% garnet along hornblende bands, trace to 0.5% pyrrhotite.	5059		289.2	294.2	5.0			tr.	
			5060		294.2	299.2	5.0			tr.	
			5061		299.2	304.2	5.0			tr.	
		- 289.5 - 1/4" band of pyrrhotite 58° to core axis (parallel to banding)	5062		304.2	309.2	5.0			tr.	
			5063		309.2	314.2	5.0			tr.	
			5064		314.2	319.2	5.0			tr.	
			5065		319.2	322.7	3.5			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-1

SHEET NO. 8 of 10

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 297.0 - 300.0 - banding almost parallel to core axis.									
		- 304.5 - 2.0" fractured chert with pyrrhotite as fracture filling.									
		- 322.2 to 330.7 - little contortion, regular banding, dominantly chert and grunerite-magnetite bands.									
		- 323.2 - 323.6 - near massive pyrrhotite with 5.0 to 7.0% pyrite	5066		322.7	324.7	2.0			tr.	
		- 323.2 to 324.5 - 15.0 to 20.0% pyrite and pyrrhotite (3:2 ratio of pyrite to pyrrhotite)	5067		324.7	327.7	3.0			tr.	
			5068		327.7	330.7	3.0			tr.	
		- 330.7 to 334.7 - fine, irregular, contorted banding 330.9 to 331.2 quartz vein with 0.5 to 1.0% pyrrhotite along fractures as wisps.	5069		330.7	331.7	1.0			.01	
			5070		331.7	336.7	5.0			tr.	
		- 334.7 to 350.0 - more regular banding, low to moderately contorted, boundinaging of chert bands, intraband laminations visible, trace to 0.5% pyrrhotite	5071		336.7	340.2	3.5			tr.	
			5072		340.2	341.2	1.0			tr.	
			5073		341.2	346.2	5.0			.01	
			5074		346.2	351.2	5.0			tr.	
		- 340.4 - 341.2 - quartz vein with 0.5 to 1.0% pyrrhotite and pyrite along fractures which are filled with chlorite and calcite. Vein is at 17° to core axis.									
		- 346.0 - banded at 57° to core axis.									
		- 349.0 - ½" calcite band.									
		- 350.0 to 368.5 - moderately contorted, in hornblende and chlorite bands.	5075		351.2	356.2	5.0			.02	
			5076		356.2	361.2	5.0			tr.	
			5077		361.2	366.2	5.0			.01	
			5078		366.2	369.7	3.5			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-1

SHEET NO. 9 of 10

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		-368.5 to 369.7 - garnetiferous chlorite-hornblende bands.									
369.7	371.5	GARNET BIOTITE SCHIST - black with clear and pink garnets, poorly banded, schistose, dominantly biotite and garnets with minor chlorite. 0.5 to 1.0% pyrrhotite in biotite matrix.	5079		369.7	371.5	1.8			tr.	
		- 370.0 - banded at 51° to core axis.									
371.5	428.0	ULTRAMAFIC VOLCANICS - light grey to dark grey-green, fine grained, mineralogy dominated by tremolite with many fine fractures and veinlets of carbonate with alteration visible around veinlets. No visible sulfides with veinlets. Unit also has foliations indicated by phlogopite and serpentine.									
		-371.5 to 389.4 - medium to dark green, well foliated, tremolite with minor phlogopite many fine calcite veinlets (1/16 to 1/32")									
		- 389.4 to 394.3 - banded light grey, medium grey-green and dark green-brown bands rich in tremolite, serpentine and phlogopite.									
		- 393.0 - foliated at 67° to core axis.									
		- 394.3 to 398.0 - talc schist.									
		- 398.0 to 399.7 - sheared light green with dark brown angular clots, dominated by serpentine.	5080		398.0	399.7	1.7			tr.	
		- 399.7 to 402.0 - dark greyish green, well foliated, tremolite-serpentine.									
		-402.0 to 407.0 - dark grey, near massive, fine grained tremolite with minor serpentine.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-1 SHEET NO. 10 of 10

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 407.0 to 413.0 - similar but with 0.5 to 1.0% disseminated fine grained magnetite, sometimes forming clots.									
		- 413.0 to 428.0 - well foliated, dark grey-green, tremolite-actinolite with minor serpentine. Foliated at 60° to 65° to core axis.									
428.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-2 LENGTH 818'
 LOCATION 12+10NW 2+00SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -50.5°
 STARTED September 24, 1986 FINISHED September 29, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-50.5°				
818.0'	-28.5°				

HOLE NO. OP-86-2 SHEET NO. 1 of 2

REMARKS Summary Log

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO					TOTAL
0	30.0	<u>CASING</u>								
30.0	45.5	<u>ULTRAMAFIC VOLCANICS</u>								
45.5	61.5	<u>BANDED IRON FORMATION</u>								
61.5	370.1	<u>ULTRAMAFIC TO MAFIC VOLCANICS</u>								
		- 102.2 to 103.0 - schistose with many calcite filled fractures.	5086		102.1	103.1	1.0			.06
370.1	371.6	<u>LAMPROPHYRE DIKE</u>								
371.6	473.5	<u>ULTRAMAFIC VOLCANICS</u>								
473.5	539.7	<u>BANDED IRON FORMATION</u>								
		- 521.2 to 525.2 - several concordant and discordant quartz veins, 5-7% pyrrhotite and trace to 0.5% pyrite.	5112		521.2	525.2	4.0			.06
539.7	571.1	<u>ULTRAMAFIC TO MAFIC VOLCANICS</u>								
571.1	775.5	<u>BANDED IRON FORMATION</u>								
		- 639.8 to 645.2 - weakly banded, 7-10% magnetite, 0.5-1.0% pyrrhotite.	5135		639.8	645.2	5.4			.06
		- 657.2 to 674.3 - well banded, moderately contorted 15-17% magnetite, 2-5% pyrrhotite and trace-0.5% pyrite.	5140 5141		662.2 667.2	667.2 672.2	5.0 5.0			.08 .06
		- 690.0 to 723.8 - contorted, 3-5% pyrrhotite	5149		700.0	705.0	5.0			.08

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-2 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPH IDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 700.8 - 701.4 - 20 to 25% calcite.									
775.5	816.1	<u>PELITIC SEDIMENTS</u> - trace to 0.5% sulfides.	5172		795.5	800.5	5.0			.06	
816.1	818.0	<u>ULTRAMAFIC VOLCANICS</u>									
818.0		End of Hole.									

LANGRIDDGES TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-2 SHEET NO. 2 of 12

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON
					FROM	TO					TOTAL
		- 61.5 to 64.3 - medium green with brown biotite foliations, dominantly talc and tremolite with minor serpentine								
		- 64.3 to 79.8 - dark grey-green, schistose, well broken.								
		- 65.0 - foliated at 58° to core axis.								
		- 69.0 - foliated at 48° to core axis.								
		- 71.5 - 73.0 - loss of core "mud seam".								
		- 79.8 to 93.5 - dark grey-green fine grained, tremolite-actinolite with serpentine, biotite and talc. Talc disseminated, trace fine grained pyrite parallel to foliation.								
		- 83.3, 83.5 - 3/4" to 1" quartz-calcite veinlets, fine grained, contain ultramafic fragments (xenoliths). No visible sulfides.	5085		83.1	84.1	1.0			tr.
		- 89.0 - foliated at 60° to core axis.								
		- 93.5 to 100.0 - dominantly tremolite/actinolite with foliations of phlogopite and serpentine.								
		- 100.0 to 102.0 - as in 79.8 to 93.5.								
		- 102.0 to 105.8 - schistose with fine calcite filled fractures.	5086		102.1	103.1	1.0			.06
		- 102.0 - 103.0 - high concentration of fractures.								
		- 105.8 to 111.0 - as in 79.8 to 93.5.	5087		109.5	110.9	1.4			tr.
		- 111.0 to 121.2 - schistose, strong lineations along foliation plane, several quartz and calcite filled fractures.								
		- 109.5 - 110.9 - sheared and brecciated with quartz and calcite filling, no visible sulfides.								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO OP-86-2 SHEET NO. 3 of 12

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 121.2 to 158.5 - moderate to well foliated, tremolite-actinote with phlogopite and serpentine.									
		- 137.0 - 140.0 - fractured and 2.0 to 5.0% calcite filling.	5088		137.0	140.0	3.0			tr.	
		- 149.0 - foliated at 52° to core axis.									
		- 157.0 - foliated at 62° to core axis.									
		- 158.5 to 159.2 - quartz-carbonate alteration zone, retains foliation, distinct contacts, no visible sulfides.	5089		158.0	159.2	1.2			tr.	
		- 159.2 to 162.9 - same as 121.2 to 158.5.									
		- 162.9 to 164.9 - quartz-sulfide alteration 7.0 to 10.0% pyrrhotite and pyrite, alteration visibly fed by fractures at 164.4.	5090		162.9	164.4	1.5			tr.	
		- 164.4 to 165.2 - same as 121.2 to 158.5.									
		- 165.2 to 179.0 - light to medium grey, fine grained dominantly talc with minor tremolite several calcitic fractures and veinlets.									
		- 169.2 - 170.2 - strong calcitic mineralization, no visible sulfides.	5091		168.8	170.8	2.0			tr.	
		- 179.0 to 207.0 - moderately foliated, fine grained, tremolite with chloritic foliations common fractures of calcite often at 40 to 45° to core axis.									
		- 207.0 to 208.0 - talc schist with minor tremolite.									
		- 208.0 to 208.9 - 3.0 to 5.0% pyrrhotite as wisps and stringers in silicified zone. Narrow band of quartz and partially silicified ultramafics. Highly contorted and foliated.	5092		207.1	208.9	1.8			.04	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-2 SHEET NO. 4 of 12

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 208.9 to 246.6 - same as 179.0 to 207.0 with sparce foliation of phlogopite and gradual loss of chlorite till nil at 219.0.									
		- 208.9 - 213.4 - several quartz clots with mild alteration around these.	5093		208.9	213.4	4.5				tr.
		- 214.0 - 215.6 - talc schist.									
		- 217.2 - 218.0 - quartz-calcite altered zone.	5094		217.0	218.0	1.0				tr.
		- 246.6 to 260.8 - increase in phlogopite to create strong foliation, at some points completely surrounding tremolite. Several dark brown clots containing short euhedral crystals with lengthwise striations (augite?)									
		- 256.0 - foliated at 65° to core axis.									
		- 260.8 to 262.0 - increase in talc content.									
		- 262.0 to 267.8 - dark grey-green, strongly foliated, silica alteration and few garnets in highly contorted sections with quartz. 12 to 15% pyrrhotite and 3.0 to 5.0% pyrite from 262.7 to 267.8, trace yellow alteration with pyrite.	5095		262.7	267.8	5.1				tr.
		- 267.8 to 370.1 - similar to 246.6 to 260.8 grading back to moderate phlogopite as foliations and bands ¼" to ½" wide minor chlorite. Amphiboles are actinolite tremolite with actinolite dominating.									
		- 297.0 - foliated at 65° to core axis.									
		- 262.3 - 268.3 - several quartz veinlets with alteration haloes (¼"), no visible sulfides.	5096		262.3	263.3	1.0				tr.
			5097		264.9	268.3	3.4				tr.
		- 360.0 - foliated at 58° to core axis.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-2 SHEET NO. 5 of 12

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
370.1	371.6	LAMPORHPYRE DIKE - black with fine grains of calcite, porphyritic with black phenocrysts (except those replaced by calcite), heavily chloritized, visible pyroxine pseudimorphs, 0.5 to 1.0% fine grained pyrite with the calcite	5098		370.0	371.7	1.7			tr.	
371.6	473.5	ULTRAMAFIC VOLCANICS -some as before lamprophyre dike. - 371.6 to 414.2 - typical. - 284.0 - foliated at 48° to core axis. - 414.2 to 418.7 - several quartz veinlets with 1/8" to 1/4" alteration rims (cream coloured) veinlet are oriented at 45° to 50° to core axis. - 417.2 - trace pyrite and orange alteration within veinlet. - 418.7 to 471.3 - typical. - 462.4 - 464.0 - quartz, chlorite and brown biotite in an erratic 1/4" to 1/2" vein. Biotite and chlorite occur as 1/4" masses. No visible sulfides - 471.3 to 473.5 - talc-chlorite schist, grades from talc to chlorite with both containing tremolite.	5099		414.2	418.7	4.5			tr.	
473.5	539.7	BANDED IRON FORMATION - bands of dark grey, medium grey and buff cream green, 1/8" to 1/4" bands, fine grained, contorted. 6:2:3 ratio of chert to horblende to grunerite bands. 7.0 to 10% magnetite. 0.5 to 1.0% pyrrhotite trace pyrite. - 473.5 to 475.3 - no magnetite with 1/16 to 1/8" contorted bands. 1.0 to 2.0% pyrrhotite as fracture fillings. - 475.3 to 477.3 - 70 to 75% chert, 1.0 to 2.0% magnetite, 3.0 to 4.0% pyrrhotite and 1.0 to 2.0% pyrite as wisps and stringers.	5100		462.4	464.0	1.6			tr.	
			5101		473.5	475.3	1.8			tr.	
			5102		475.3	477.3	2.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-2 SHEET NO. 7 of 12

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
539.7	571.1	- 526.2 to 527.6 - 5.0 to 7.0% garnet and decrease in magnetite-grunerite with 10 to 15% pyrrhotite parallel to banding.	5113		525.2	530.2	5.0			tr.	
		- 526.9 - trace chalcopyrite with pyrrhotite.									
		- 527.6 to 530.5 - low angle banding (0 - 20° to near parallel), narrow bands 10 to 15% garnets.									
		- 530.5 to 533.5 - contorted, 2.0 to 4.0% garnets, 1.0 to 3.0% magnetite, 2.0 to 4.0% pyrrhotite parallel to banding.	5114		530.2	533.5	3.3			tr.	
		- 533.5 to 534.8 - quartz veins separated by narrow sections of wallrock, 0.5 to 1.0% pyrrhotite in veins and 3.0 to 5.0% in adjacent wallrock.	5115		533.5	534.8	1.3			.04	
		- 534.8 to 536.8 - 80 to 85% dark brown to black amphibole rich bands with 15 to 20% quartz rich bands. 1.0 to 3.0% magnetite; contorted.	5116		534.8	539.7	5.1			.02	
		- 536.8 to 539.7 - typical, contorted, 0.5 to 1.0% pyrrhotite.									
		<u>ULTRAMAFIC TO MAFIC VOLCANICS</u> - dark green-grey, fine grained, moderately foliated, dominantly tremolite/actinolite with chlorite and minor biotite and quartz, trace sulfides.									
		- 539.7 to 543.9 - typical.									
		- 541.9 - 543.5 - increase in chlorite to near chlorite schist.									
		- 543.9 to 544.9 - quartz-plagioclase vein (½" wide) adjacent wallrock is weakly bleached. No visible sulfide.	5117		543.9	544.9	1.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-2

SHEET NO 8 of 12

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO	SULPHIDES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
		- 544.9 to 549.0 - higher content of chlorite than typical and several 2" sections containing clots of euhedral brown amphibole and biotite.								
		- 549.0 to 559.0 - typical, trace sulfides.								
		- 559.0 to 571.1 - moderately foliated to weakly banded, banded sections appear tuffaceous (eg. 567.0 to 571.1) several 1/2 to 1.0" quartz bands. No visible sulfides.								
		- 563.0 - foliated at 65° to core axis.								
571.1	775.5	<u>BANDED IRON FORMATION</u> - typical, moderately well banded, contorted banding angles constantly changing. 0.5 to 1.0% pyrrhotite.								
		- 571.1 to 594.9 - moderately well banded with several 2" to 5" quartz bands. 1.0 to 2.0% pyrrhotite in fractures in quartz, at boundaries with magnetite amphibole and with wisps of amphibole in quartz	5118		571.1	576.1	5.0			.02
			5119		576.1	581.1	5.0			.02
			5120		581.1	586.1	5.0			tr.
			5121		586.1	591.1	5.0			.02
			5122		591.1	594.9	3.8			tr.
		594.9 to 631.6 - well banded 12 to 15% magnetite, increase in grunerite. Band angles constantly changing because of folding, with most between 15 and 40° to core axis.	5123		594.9	600.0	5.1			.04
			5124		600.0	605.0	5.0			tr.
			5125		605.0	610.0	5.0			.02
			5126		610.0	615.0	5.0			.02
			5127		615.0	620.0	5.0			.02
		- 595.0 - banded nearly parallel to core axis.	5128		620.0	625.0	5.0			.02
			5129		625.0	628.0	3.0			tr.
		- 597.0 - banded at 48° to core axis.								
		- 605.8 - 606.8 - trace arsenopyrite with pyrrhotite, chlorite and calcite.								
		- 631.4 - 631.6 - large garnets (up to 3/4")	5130		628.0	531.6	3.6			.02

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO OP-86-2 SHEET NO 9 of 12

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	SULPHIDES	FOOTAGE		%	OZ TON	OZ TON		
				FROM	TO	TOTAL					
		- 631.6 to 633.0 - silicified, quartz occurs as a fine network of veinlets, apparently replacing both magnetite and amphibole, trace to 0.5% pyrrhotite in un-silicified banded iron formation.	5131		631.6	633.0	1.4			tr.	
		- 632.0 - graphitic lamination.									
		- 633.0 to 634.0 - same as 594.9 to 631.6.	5132		633.0	634.0	1.0			.02	
		- 634.0 to 635.5 - quartz vein with wisps of chlorite and hornblende, trace pyrite along fractures.	5133		634.0	635.5	1.5			tr.	
		- 635.5 to 639.8 - near massive magnetite with few 1/2" chert/amphibole bands(10%) at 8-10° to core axis. 0.5 - 1.0% pyrrhotite parallel to bands.	5134		635.5	639.8	4.3			tr.	
		- 639.8 to 645.2 - weakly banded chert-amphibole with 7.0 to 10.0% magnetite, banded at 0 to 10° to core axis.	5135		639.8	645.2	5.4			.06	
		- 645.2 to 657.2 - same as 635.8 to 639.8 with pyrrhotite also in fractures in bands in chert.	5136		645.2	649.2	4.0			tr.	
			5137		649.2	653.2	4.0			tr.	
			5138		653.2	657.2	4.0			.02	
		- 657.2 to 674.3 - well banded, moderately contorted, 15 - 17% magnetite occurring as bear massive bands, 2.0 to 4.0% pyrrhotite and trace to 0.5% pyrite.	5139		657.2	662.2	5.0			.02	
			5140		662.2	667.2	5.0			.08	
			5141		667.2	672.0	5.0			.06	
			5142		672.2	675.2	3.0			.02	
		- 674.3 to 680.2 - similar with increased chert and garnet-hornblende band 1.0 to 2.0% pyrrhotite.	5143		675.2	680.2	5.0			.02	
		- 680.2 to 684.3 - similar to above with strong fracturing with quartz, chlorite and carbonate filling.	5144		680.2	684.3	2.1			tr.	
		- 684.3 to 687.3 - similar to 657.2 to 674.9 with 2.0 to 4.0% pyrrhotite.	5145		684.3	687.3	3.0			.02	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO OP-86-2

SHEET NO 10 of 12

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	SULPH IDES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
		- 683.0 - lineations along fracture, fracture is at 40° to core axis.								
		- 687.3 to 690.0 - similar to 680.2 to 684.3 with several chloritic bands (apparently altered) 0.5 to 1.0% pyrite as fracture fillings.	5146		687.3	690.6	3.3			.02
		- 688.0 - 689.0 - brecciated.								
		- 690.0 to 723.8 - typical, contorted, with 3.0 to 5.0% pyrrhotite generally in band dilations.	5147		690.6	695.0	4.4			.02
			5148		695.0	700.0	5.0			.02
			5149		700.0	705.0	5.0			.08
		- 700.8 - 701.4 - 20 to 25% medium grained calcite in bands.	5150		705.0	710.0	5.0			.02
			5151		710.0	715.0	5.0			tr.
			5152		715.0	720.0	5.0			.04
		- 702.5 - 703.4 - garnetiferous.	5153		720.0	723.8	3.0			.02
		- 708.9 - 709.9 - coarse grained pink garnets in chlorite-biotite matrix, trace to 0.5% pyrrhotite.								
		- 723.8 to 731.6 - three 1.0 to 1.6 foot bands of garnet, grunerite and chlorite with minor biotite. 30 - 35% medium to coarse grained garnets, trace to 0.5% magnetite. 1.0 - 2.0% pyrrhotite at contact with typical banded iron formation.	5154		723.8	724.8	1.0			tr.
			5155		724.8	725.8	1.0			.02
			5156		725.8	727.4	1.6			tr.
			5157		727.4	730.6	3.2			.02
			5158		730.6	731.6	1.0			.02
		The bands are at: 723.8 to 724.8 725.8 to 727.4 730.6 to 731.6								
		Between these bands is typical banded iron formation.								
		- 731.6 to 741.0 - typical as in 690.0 to 724.7 with 2.0 - 4.0% pyrrhotite.	5159		731.6	736.6	5.0			.02
			5160		736.6	741.0	4.4			.02

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-2 SHEET NO. 11 of 12

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
				FROM	TO	TOTAL					
		- 733.7 - 734.9 - garnetiferous with several chert boudins oriented 30° to the core axis.									
		- 736.1 - ½" pyrrhotite bleb.									
		- 741.0 to 773.3 - less contorted bedding than typical, higher grunerite content (2:1 grunerite to hornblende), 0.5 to 1.0% pyrrhotite. Banding angle to core axis is:	5161		741.0	746.0	5.0				.02
		45° @ 756.0	5162		746.0	751.0	5.0				.04
		50° @ 766.0	5163		751.0	756.0	5.0				.02
		53° @ 760.0	5164		756.0	761.0	5.0				.02
			5165		761.0	766.0	5.0				.04
			5166		766.0	771.0	5.0				.04
			5167		771.0	775.5	4.5				tr.
		- 744.2 - trace arsenopyrite.									
		- 773.3 to 775.5 - 1.0 to 3.0% garnet-hornblende-biotite bands, spaced about 6" apart grading into garnet-biotite schist.									
775.5	816.1	<u>PELITIC SEDIMENTS</u> - weakly contorted, 1/8" to 1/2" bands consisting of: a) dark grey, fine grained, finely laminated quartz, grunerite, hornblende, with minor chlorite and 1.0 to 3.0% disseminated magnetite, trace to 0.5% sulfides. b) black, fine grained with fine to coarse pink poikiloblasts; consisting of biotite-garnet schist with minor quartz and no magnetite.									
		- 775.5 to 769.0 - 50 to 60% b, 40 to 50% a.	5168		775.5	780.5	5.0				.02
			5169		780.5	785.0	5.0				.02
		- 796.0 to 806.0 - 70 to 80% b, 20 to 30% a.	5170		785.5	790.5	5.0				.04
			5171		790.5	795.5	5.0				.04
		- 806.0 to 816.1 - dominantly garnet-biotite schist compositionally banded (garnet content), few narrow chert bands with 0.5 - 1.0% magnetite.	5172		795.5	800.5	5.0				.06
			5173		800.5	805.5	5.0				tr.
			5174		805.5	810.5	5.0				tr.
			5175		810.5	816.1	5.6				tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-2 SHEET NO. 12 of 12

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		Banding angles to core axis are as follows: 45° @ 776.0 40° @ 786.0 47° @ 700.0 47° @ 814.0									
816.1	818.0	ULTRAMAFIC VOLCANICS - dark green, fine grained, well foliated at 67° to core axis, schistose, tremolite-actinolite-serpentine, no visible sulfides.	5176		816.1	818.0	1.9			tr.	
818.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-3 LENGTH 378'
 LOCATION L13+00NW 2+48NE
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 229° DIP -45°
 STARTED October 1, 1986 FINISHED October 3, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.0°				
378'	-32.3°				

HOLE NO. OP-86-3 SHEET NO. 1 of 1


REMARKS Summary Log

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPH IDES	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON
0	14.0	<u>CASING</u>							
14.0	28.3	<u>GARNET-BIOTITE SCHIST</u>							
28.3	38.0	<u>INTERBEDDED GARNET-BIOTITE SCHIST AND MAFIC VOLCANICS</u>							
38.0	46.3	<u>ULTRAMAFIC VOLCANICS</u>							
46.3	47.3	<u>LAMPROPHYRE DIKE</u>							
47.3	94.0	<u>ULTRAMAFIC VOLCANICS</u>							
94.0	155.5	<u>BANDED IRON FORMATION</u> - trace to 0.5% pyrrhotite and pyrite, laminated to banded, some highly contorted sections.	5192		125.0 130.0 5.0			.05	
155.5	191.7	<u>GARNETIFEROUS METASEDIMENTS</u>							
191.7	240.1	<u>BANDED IRON FORMATION</u> - 193.3 to 196.0 - 7.0-10% pyrrhotite.							
240.1	242.6	<u>LAMPROPHYRE DIKE</u>							
242.6	320.6	<u>BANDED IRON FORMATION</u> - 0.5-1.0% pyrrhotite. - 242.6 to 263.6 - dominantly chert and magnetite-grunerite bands. - 280.8 to 283.4 - 10-12% pyrrhotite, 1.0-3.0% pyrite.	5221		252.6 257.6 5.0			.06	
320.6	378.0	<u>ULTRAMAFIC TO MAFIC VOLCANICS</u>							
378.0		End of Hole.							

ANGRIDGES - TORONTO - 366-1188



DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-3 LENGTH 378'
 LOCATION L 13NW 2+48NE
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 229° DIP -45.0°
 STARTED October 1st, 1986 FINISHED October 3rd, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.0				
378'	-32.3				

HOLE NO. OP-86-3 SHEET NO. 1 of 7

REMARKS _____

PA - 844238

LOGGED BY D.J. Corkery

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	14.0	<u>CASING</u>									
14.0	28.3	<u>GARNET-BIOTITE SCHIST (G.B.S.)</u> - dark grey to black with 1/16" to 1/8" pink garnets, schistose, weak compositional banding. Mineralogy dominated by biotite with 20.0 - 25.0% disseminated garnets and minor quartz. Few narrow (1/4 to 1/2") chert bands which are commonly boudinaged and contorted. Weak iron staining along fractures, trace pyrite. - 20.0 - 1/16" wide quartz, calcite and pyrite. - 27.0 - bands at 48° to the core.	5177		14.0	19.0	5.0			tr.	
			5178		19.0	24.0	5.0			.02	
			5179		24.0	28.3	4.3			tr.	
28.3	38.0	<u>INTERBEDDED GARNET-BIOTITE SCHIST AND MAFIC VOLCANICS</u> - 60% garnet-biotite schist and 40% mafic volcanics. Garnet biotite schist-atypical with many fine fractures surrounded by light grey alteration. Mafic volcanics-dark green, fine grained massive to weakly foliated hornblende with minor chlorite and chloritic fractures, several quartz filled fractures at 60° to 65° to core axis, no visible sulfides. - 37.0 - 37.5 - 5.0 - 7.0% pyrite with calcite veinlets. - 37.5 - 38.0 - quartz-tourmaline vein along contact with unit below and swings up into garnet-biotite schist.	5180		28.3	33.0	4.7			tr.	
			5181		33.0	37.5	1.0			.04	
			5182		37.5	38.5	1.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-3 SHEET NO. 2 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
38.0	46.3	ULTRAMAFIC VOLCANICS - medium grey, fine grained moderately foliated, soft, dominantly actinolite, talc and serpentine with disseminated magnetite clots which tend to increase in size toward 46.3. Contact with above garnet-biotite schist is distinct with 1/2" to 1.5" quartz-tourmaline veins (these contain no visible sulfides.)									
46.3	47.3	LAMPROPHYRE DIKE - black, massive, porphyritic fine grained with phenocrysts up to 1/8". 2.4 - 4.0% calcite as grains and veinlets, heavily chloritized, trace fine grained disseminated pyrite. Contacts at 35° to core axis.	5183		46.3	47.3	1.0				tr.
47.3	94.0	ULTRAMAFIC VOLCANICS - same as 38.0 to 46.3, magnetite clots increase in size toward the centre of the unit and then decrease in size and abundance toward the lower contact. - 47.3 - 90.6 - typical. - 90.6 - 94.0 - schistose, dark green; highly sheared, foliated at 58° to core axis (possibly fault gouge). - 93.8 - 1/8" quartz, plagioclase, tourmaline veinlet with trace very fine grained disseminated pyrite.									
			5184		93.0	94.0	1.0				tr.
94.0	155.5	BANDED IRON FORMATION - bands of medium grey, dark green to black and a few white bands, well banded (generally 1/8" to 1/4"), fine grained, low to moderate contortion of bands, 50 to 60% of bands are chert, 8.0 - 10.0% magnetite which occurs as fine grained disseminations. Dark green to black bands are hornblende, biotite, garnet with grunerite haloes, trace to 0.5% pyrrhotite and pyrite parallel to bands and along fractures. Many chert bands have been boudinaged. Grunerite content tends to increase toward 156.5, several fold closures as well as changing band angles around them. - 94.0 to 96.4 - high chert content and low in magnetite.									
			5185		94.0	96.4	2.4				tr.

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DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-3

SHEET NO. 3 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	FOOTAGE		%	%	GZ TON	GZ TON
				FROM	TO					TOTAL
		- 96.4 - 100.3 - highly garnetiferous (70 to 80%) with biotite matrix, narrow chert beds, very low magnetite content.	5186	96.4	100.3	3.9			tr.
		- 100.3 - 107.4 - typical low contortion of bands several small microfaults (0 to 30° to core axis) with up to ½" displacement.	5187	100.3	105.0	4.7			tr.
		- 102.0 - banding at 40° to core axis.	5188	105.0	110.0	5.0			tr.
		- 107.4 - 128.8 - bands have many intra band laminations (commonly in chert with alternating magnetite rich and poor laminations)	5189	110.0	115.0	5.0			tr.
			5190	115.0	120.0	5.0			.03
			5191	120.0	125.0	5.0			.02
			5192	125.0	130.0	5.0			.05
		- 117.7 - 118.7 - wide garnet/biotite rich bands.							
		- 115.0 - banding at 60° to core axis.							
		- 124.0 - banding at 53° to core axis.							
		- 128.8 - 155.5 - highly contorted with many fractures, boudinaged chert bands and several fold closures (eg.134.1) many fractures show displacement (up to ½")	5193	130.0	135.0	5.0			tr.
			5194	135.0	140.0	5.0			tr.
			5195	140.0	145.0	5.0			.02
			5196	145.0	150.0	5.0			tr.
			5197	150.0	155.5	5.5			tr.
155.5	191.7	<u>GARNETIFEROUS METASEDIMENTS</u>							
		- 155.5 - 161.5 - dark green to black matrix for the dominantly garnet unit, weak to nil magnetite, several calcite veinlets and zones around which the matrix is altered to a light cream green.	5198	155.5	158.5	3.0			.02
			5199	158.5	161.5	3.0			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. QP-86-3 SHEET NO. 4 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
		-161.5 - 191.7 - dark green to black matrix with pink garnets, compositional banding with garnet content varying from 50% to greater than 80%. Zones of high garnet content have fine grained garnets while zones with less garnets have coarse grained garnets. The matrix consists of hornblende and biotite. Several quartz veinlets alter the surrounding rock to a light buff cream colour. There are few 1" to 2" wide grunerite/magnetite bands. Trace to 0.5% pyrite.	5200		161.5	166.5	5.0			tr.
			5201		166.5	171.5	5.0			tr.
			5202		171.5	176.5	5.0			tr.
			5203		176.5	181.5	5.0			tr.
			5204		181.5	186.5	5.0			tr.
			5205		186.5	188.3	1.8			tr.
		- 167.8 - fine grained pyrite along fractures as coating with calcite.								
		- 188.3 - 189.8 - calcite vein with coarse euhedral disseminated tourmaline, and minor quartz K-alteration occurs at the vein contacts, trace pyrite at contacts and 1/4" pyrrhotite bleb within the vein. Vein is discordant with the sediments.	5206		188.3	198.8	1.5			tr.
			5207		198.8	191.7	1.9			tr.
191.7	240.1	BANDED IRON FORMATION - typical but with fewer and narrower garnetiferous bands. Increase in grunerite content. Chert bands occupy 30%. Grunerite/magnetite bands are finely laminated. Unit is moderately contorted; 0.5 to 1.0% pyrrhotite parallel to banding and most often in contorted sections.	5208		191.7	196.0	4.3			.02
			5209		196.0	201.0	5.0			tr.
			5210		201.0	206.0	5.0			tr.
			5211		206.0	211.0	5.0			tr.
			5212		211.0	216.0	5.0			tr.
			5213		216.0	221.0	5.0			tr.
			5214		221.0	226.0	5.0			tr.
			5215		226.0	231.0	5.0			tr.
		- 191.7 - 193.3 - typical	5216		231.0	236.0	5.0			.04
			5217		236.0	240.1	4.1			.02
		- 193.3 - 196.0 - 7.0 to 10.0% pyrrhotite as wisps and stringers with associated tourmaline.								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-3 SHEET NO. 5 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
		- 196.0 - 240.1 - typical.								
		- 214.2, 215.2 - ½" quartz calcite veinlets cut bands at 45° to core axis.								
		- 228.5 - banding at 48° to core axis.								
		- 236.0 - banding at 38° to core axis.								
240.1	242.6	<u>LAMPROPHYRE DIKE</u> - typical with several 1/8" calcite veinlets at 34° to core axis, no visible sulfides.	5218		240.1	242.6	2.5			tr.
242.6	320.5	<u>BANDED IRON FORMATION</u> - typical 50-60% chert bands, 20-25% iron rich bands, 15-20% garnet/amphibole, low to moderately contorted. 0.5 - 1.0% pyrrhotite.								
		- 242.6 - 263.6 - few hornblende and /or garnet rich bands. Dominantly chert and magnetite/grunerite rich bands.	5219		242.6	247.6	5.0			tr.
			5220		247.6	252.6	5.0			.04
			5221		252.6	257.6	5.0			.06
			5222		257.6	260.6	3.0			.04
			5223		260.6	263.6	3.0			.04
		- 263.6 - 266.3 - three ½" to 1½" quartz-chlorite-calcite-pyrite filled brecciated bands with banded iron formation fragments in the matrix.	5224		263.6	266.3	2.7			tr.
		- 266.3 - 269.0 - as in 242.6 to 263.6	5225		266.3	269.0	2.7			tr.
		- 269.0 - 280.8 - typical trace to 0.5% pyrrhotite weakly contorted. few garnets.	5226		269.0	274.0	5.0			tr.
			5227		274.0	277.0	3.0			tr.
			5228		277.0	280.8	3.8			tr.
		- 279.0 - banding at 50° to core aixs.								
		- 280.8 - 283.4 - 10.0 to 12.0% pyrrhotite, 1.0 to 3.0% pyrite in contorted bands near fold closure.	5229		280.8	282.4	2.6			.04

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-3 SHEET NO. 6 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 283.4 - 300.2 - same as 269.0 to 280.8.	5230		283.4	288.2	4.8			tr.	
		- 287.5 - banding at 60° to core axis.	5231		288.2	293.2	5.0			tr.	
		- 290.0 - banding at 48° to core axis.	5232		293.2	297.2	4.0			tr.	
		- 299.0 - banding at 47° to core axis.	5233		297.2	300.2	3.0			tr.	
		- 300.2 - 303.7 - less grunerite and increase in hornblende. 20 to 25% garnet biotite bands. 1.0 to 3.0% pyrrhotite, banding generally at 35° to core axis.	5234		300.2	303.7	3.5			tr.	
		- 303.7 - 320.5 - typical with an increase in grunerite and chert and low garnet hornblende content.	5235		303.7	308.5	4.8			tr.	
			5236		308.5	313.5	5.0			tr.	
			5237		313.5	317.5	4.0			tr.	
			5238		317.5	320.5	3.0			tr.	
320.5	378.0	ULTRAMAFIC TO MAFIC VOLCANICS - Interbedded ultramafic flows and mafic tuff. 3:2 ratio of flows to tuffs. Flows - dark grey with brown foliations, fine grained, moderately foliated at 52° to core axis. Mineralogy dominated by tremolite with phlogopite and biotite foliations. Tuffs - medium to dark green with light grey bands. fine grained, well foliated, tremolite with minor hornblende and grunerite. Common fine silicious interbeds.									
		- 320.5 - 334.0 - typical									
		- 334.0 - 337.8 - sheared tuff with 15 - 20% pyrrhotite and 1.0 - 2.0% pyrite.	5239		334.0	337.8	3.8			tr.	
		- 337.8 - 345.0 - tuff with 7.0 to 10.0% fine grained disseminated magnetite crystals (not concentrated in bands as in Banded iron formation) Weakly sheared, trace to 0.5% pyrrhotite parallel to foliation.	5240		337.8	341.0	3.2			tr.	
			5241		341.0	345.0	4.0			tr.	

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DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-3 SHEET NO. 7 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON	
					FROM	TO					TOTAL
378.0		- 361.0 - 361.3 - quartz vein, fine grained, no visible sulfides at 23° to core axis. - 362.6 - 363.0 - same as 361.0 to 361.3. - 345.0 - 378.0 - typical. End of Hole.	5242		361.0	363.0	2.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-4 LENGTH 526'
 LOCATION 13+04NW 2+00SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -49°
 STARTED October 4, 1986 FINISHED October 6, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-49.0°				
526'	-32.3°				

HOLE NO. OP-86-4 SHEET NO. 1 of 1

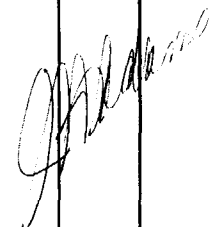
REMARKS Summary Log

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0	22.0	<u>CASING</u>									
22.0	89.2	<u>BANDED IRON FORMATION</u>									
89.2	99.0	<u>ULTRAMAFIC VOLCANICS</u>									
99.0	119.5	<u>BANDED IRON FORMATION</u> - 8-10% pyrrhotite, 0.5-1.0% pyrite, trace arsenopyrite.									
119.5	304.9	<u>ULTRAMAFIC TO MAFIC VOLCANICS</u> - 278.9 to 289.5 - brecciated, 20-25% pyrrhotite, pyrite, trace chalcopyrite.									
304.9	361.7	<u>BANDED IRON FORMATION (LEAN)</u>									
361.7	366.7	<u>ULTRAMAFIC VOLCANICS</u>									
366.7	367.8	<u>LAMPROPHYRE DIKE</u>									
367.8	470.2	<u>ULTRAMAFIC VOLCANICS</u>									
470.2	478.6	<u>BANDED IRON FORMATION</u>									
478.6	479.1	<u>GREYWACKE</u>									
479.1	505.8	<u>BANDED IRON FORMATION</u> - 502.8 to 505.8 - 7.0-10% pyrrhotite.									
505.8	526.0	<u>ULTRAMAFIC VOLCANICS</u>									
526.0		End of Hole.									

LANGRIDGES - TORONTO - 366-1168



DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-4 LENGTH 526'
 LOCATION 13+04NW 2+00SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -49°
 STARTED October 4, 1986 FINISHED October 6, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-49.0°				
526'	-32.3°				

HOLE NO. OP-86-4 SHEET NO. 1 of 8

REMARKS _____

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO					TOTAL
0	22.0	CASING								
22.0	89.2	<p><u>BANDED IRON FORMATION</u> - bands of light grey, dark grey to black and light cream-green bands of chert and magnetite-grunerite-hornblende, fine grained, moderate to well banded (1/4" to 1/2" bands).</p> <p><u>Average Modes</u></p> <p>Chert 50 - 60% Amphibole 20 - 30% Magnetite 15 - 20% Pyrrhotite 0.5 - 1% Pyrite trace - 0.5%</p> <p>Iron-rich bands are dominantly magnetite-grunerite with grunerite haloes with minor hornblende. Sulphides occur as fracture fillings and in areas of strong contortions as wisps and stringers. In contorted zones boudinaging of chert bands is common as is micro-faulting with displacement of up to 1/2" (commonly 1/16" to 1/4"). Several quartz-carbonate veinlets occur at 40° - 45° to the core axis. Few of these veinlets contain biotite, chlorite and minor pyrite.</p> <p>- 22.0 - 29.0 - moderately contorted banding with changing band angles and several fold closures.</p> <p>- 28.8 - quartz-carbonate veinlet.</p> <p>- 30.8 - quartz-carbonate veinlet.</p>	5243		22.0	27.0	5.0			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-4 SHEET NO. 2 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 29.0 - 38.0 - typical with 1.0 to 2.0% pyrrhotite.	5244		27.0	32.0	5.0			tr.	
		- 31.5 - banding at 50° to core axis.	5245		32.0	37.0	5.0			tr.	
		- 38.0 - 45.6 - less well banded at various angles to the core axis. Several chlorite coated fractures with trace pyrite.	5246		37.0	42.0	5.0			tr.	
		- 44.2 - 45.2 - garnet/hornblende rich section.	5247		42.0	47.0	5.0			tr.	
		- 47.9 - 48.0 - quartz vein, no visible sulfides.									
		- 45.6 - 67.2 - typical, banding angle varies from 40° to 65° to core axis.	5248		47.0	52.0	5.0			tr.	
			5249		52.0	57.0	5.0			tr.	
			5250		57.0	62.0	5.0			tr.	
			5251		62.0	67.2	5.2			tr.	
		- 53.0 - 53.2 - quartz vein, no visible sulfides.									
		- 53.9 - strong pyrrhotite mineralization in fractures in chert band.									
		- 67.2 - 69.6 - well fractured with fillings and coatings of quartz, calcite, chlorite and trace to 0.5% pyrite. Minor increase in garnet content.	5252		67.2	69.6	2.4			tr.	
		- 69.6 - 72.2 - increase in garnets, which are fine grained, sub-hedral and occur along hornblende bands.	5253		69.6	72.2	2.6			tr.	
		- 72.2 - 73.3 - quartz vein, with 0.5 - 1.0% pyrrhotite and pyrite along the contact with banded iron formation and in nearby wall rock.	5254		72.2	73.3	1.1			tr.	
		- 72.8 - 72.9 - banded iron formation typical, (xenolith?).									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-4

SHEET NO. 3 OF 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
89.2	99.0	- 73.3 - 82.8 - typical, moderate to highly contorted with common boudinaging of chert bands.	5255		73.3	78.3	5.0			.01	
			5256		78.3	83.3	5.0			tr.	
		- 82.8 - 85.0 - increase in garnets (5.0 to 7.0%) along hornblende bands.	5257		83.3	86.3	3.0			tr.	
		- 85.0 - 87.0 - typical.	5258		86.3	89.2	2.9			tr.	
		87.0 - 87.5 - 7.0 to 10.0% pyrrhotite along fractures and in near massive magnetite band as a network.									
		- 87.5 - 89.2 - typical.									
		<u>ULTRAMAFIC VOLCANICS</u> - light to dark grey, schistose, fine grained, dominantly talc schist with tremolite and very weak calcite alteration, no visible sulfides.									
		- 89.2 - 93.5 - distinct contorted tremolite bands.	5259		89.2	93.5	4.3			tr.	
		- 91.6 - 91.7 - ground section (possible fault gouge)									
		- 93.5 - 99.0 - typical with foliation at 60° to 65° to core axis.									
		- 95.8 - 96.5 - previous foliation evident at low angle to core axis and visible overprinting of 60 to 65° foliation.									
99.0	119.5	<u>BANDED IRON FORMATION</u> - atypical, weak to moderately well banded, contorted, with 8.0 to 10.0 % pyrrhotite, 0.5-1% pyrite and trace arsenopyrite occurring parallel banding in amphibole/magnetite bands and in fractures in chert bands as well as in necked zone of boudinaged chert bands, pyrite occurs mainly along chloritic fractures.									
		- 99.0 - 103.3 - moderately banded, and contorted, 2.0 to 4.0% pyrrhotite.	5260		99.0	104.0	5.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-4 SHEET NO. 4 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
		- 100.1 - 101.4 - 15.0-20.0% pyrrhotite.								
		- 103.3 - 106.0 - well banded, little contortion, 1.0 to 2.0% pyrrhotite.	5261		104.0	109.0	5.0		.02	
		- 115.0 - band at 60° to core axis.								
		- 106.0 - 117.2 - moderate banding and contortion, 10.0 to 15.0% pyrrhotite, minor pyrite and trace chalcopyrite.	5262		109.0	114.0	5.0		tr.	
			5263		104.0	117.0	3.0		tr.	
		- 117.2 - 118.1 - massive unit, 20.0 - 25% pyrrhotite.	5264		117.0	118.0	1.0		tr.	
		- 118.1 - 119.5 - typical 5.0 to 7.0% pyrrhotite.	5265		118.0	119.5	1.5		tr.	
119.5	304.9	<u>ULTRAMAFIC TO MAFIC VOLCANICS</u> - light to dark green/grey, massive to well foliated, fine grained, dominantly tremolite/actinolite with sections of talc schist and few serpentized fractures, trace disseminated pyrite.								
		- 119.5 - 154.6 - light to medium grey, dominantly talc and tremolite, schistose, abundant tremolite bands (tuff?) which are often contorted.								
		- 154.6 - 267.5 - medium to dark grey green, well foliated with foliation indicated by alignment of biotite and phlogopite, talc also occurs along foliations, foliated at 65° to 75° to core axis, several quartz calcite veinlets.								
		- 165.2 - 1/2" quartz/calcite veinlet, no visible sulfides.	5266		164.7	165.7	1.0		tr.	
		- 198.4 - 198.5 - quartz veinlet which cuts foliation, no visible sulfides.	5267		198.0	199.0	1.0		tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-4

SHEET NO. 5 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	OZ TON	GZ TON
					FROM	TO				TOTAL
		- 203.2 - 203.3 - quartz calcite veinlet, no visible sulfides.	5268		202.9	203.9	1.0		tr.
		- 206.0 - 206.4 - several quartz calcite veinlets.	5269		205.8	206.8	1.0		tr.
		- 267.5 - 271.4 - well fractured and mineralized with calcite and quartz as a network and as veinlets. 2.0 - 4.0% pyrrhotite and pyrite associated with but separate from these.	5270		267.5	271.4	3.9		tr.
		- 271.4 - 274.0 - as before with little to nil phlogopite, higher ratio of actinolite to tremolite.							
		- 274.0 - 278.9 - similar with abundant quartz filled fractures (1/16") with 1/4 to 1/2" wide, cream coloured alteration haloes.	5271		274.0	278.9	4.9		tr.
		- 276.8 - 277.2 - 5" alteration band with trace pyrite and galena in the veinlets.							
		- 278.9 - 289.5 - mineralized zone, brecciated, 20.0 to 25.0% pyrrhotite, pyrite (2:1 pyrrhotite to pyrite), trace to 0.5% chalcopyrite non-sulfides are quartz (very fine grained) amphibole and minor garnets. Quartz and garnets are also fractured and filled with sulfide.	5272 5273		278.9 284.2	284.2 289.5	5.3 5.3		tr. tr.
		- 289.5 - 296.2 - dominantly actinolite with several quartz/calcite filled fractures. (1/32")							
		- 296.2 - 298.5 - as in 274.0 to 278.9 - except with minor calcite vein up to 1/2".	5274		296.2	298.5	2.3		tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-4 SHEET NO. 6 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
304.9	361.7	- 298.5 - 302.2 - typical, dominantly actinolite.									
		- 302.2 - 304.0 - same as 296.2 to 298.5.	5275		302.0	303.0	1.0			.03	
		- 304.0 - 304.9 - same as 296.2 to 302.2.									
		BANDED IRON FORMATION (LEAN) - medium grey/green with 20% dark grey bands and 15-20% light grey chert bands, 1-3% magnetite concentrating in dark grey bands, high in grunerite, moderate to highly contorted, band angles are quite variable. 0.5-1.0% pyrrhotite.									
		- 304.9 - 317.4 - typical.	5276		304.9	310.0	5.1			.01	
			5277		310.0	315.0	5.0			tr.	
		- 317.4 - 329.0 - banding at very low angle, mainly near parallel to core axis.	5278		315.0	320.0	5.0			tr.	
			5279		320.0	325.0	5.0			tr.	
		- 329.0 - 355.0 - typical.	5280		325.0	330.0	5.0			tr.	
			5281		330.0	335.0	5.0			.02	
		- 351.7 - 3/4" bleb of pyrrhotite.	5282		335.0	340.0	5.0			tr.	
			5283		340.0	345.0	5.0			tr.	
			5284		345.0	350.0	5.0			tr.	
			5285		350.0	355.0	5.0			tr.	
		- 355.0 - 355.3 - brecciated zone with strong chlorite, quartz and carbonate filling. 10.0 to 15.0% pyrite as blebs.	5286		355.0	357.5	2.5			tr.	
- 355.2 - 357.2 - quartz, chlorite, carbonate vein nearly parallel core axis with chlorite, quartz and minor carbonate and tourmaline in adjacent wall rock, trace-0.5% pyrite along fractures and vein.											
- 357.5 - 361.7 - typical.	5287		357.5	361.7	4.2			tr.			

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-4 SHEET NO. 7 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
361.7	366.1	<u>ULTRAMAFIC VOLCANIC</u> - typical, talc schist, minor calcite (2-4%)									
366.1	367.8	<u>LAMPROPHYRE DIKE</u> - black, massive, fine to very fine grained, porphyritic; with strong calcite alteration dominant chlorite with chlorite pseudomorphs; trace disseminated pyrite.	5288		366.1	367.8	1.7			tr.	
367.8	470.2	<u>ULTRAMAFIC VOLCANICS</u> - typical. - 367.8 - 369.8 - talc/tremolite schist grading to dominantly tremolite at 469.9'. - 369.8 - 459.8 - dominantly tremolite with minor actinolite, moderately foliated with phlogopite, chlorite and biotite few fine quartz calcite fractures and narrow quartz calcite bands, no visible sulfides. - 459.9 - 462.3 - sheared with strong foliation and visible band of silicification as well as increased talc, phlogopite and biotite, foliation variable but 35% core axis is dominant. - 462.3 - 467.5 - talc/tremolite schist. - 467.5 - 470.2 - similar to 460.1 to 462.0 with less shearing.									
470.2	478.6	<u>BANDED IRON FORMATION</u> - typical as with 22.0 to 89.2. - 470.2 - 474.0 - weak to poorly banded with quartz, calcite and pyrrhotite replacement of magnetite, 5.0 - 7.0% pyrrhotite. - 474.0 - 478.6 - strongly banded, highly contorted, trace to 0.5% pyrrhotite.	5290		470.2	474.0	3.8			tr.	
			5291		474.0	478.4	4.4			tr.	
478.6	479.1	<u>GREYWACKE</u> - dark grey, massive, fine to medium grained, composed of grains of quartz, feldspar, biotite and calcite, trace pyrite and clays, distinct contact with banded iron formation.	5292		478.4	479.4	1.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-4 SHEET NO. 8 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	GZ TON	GZ TON
					FROM	TO	TOTAL				
479.1	505.8	<p><u>BANDED IRON FORMATION</u> - typical, strongly magnetic, well banded moderate to strongly contorted, with few fold closures visible, 0.5 to 1.0% pyrrhotite.</p> <p>- 479.1 - 481.1 - 60 to 70% garnet/biotite bands.</p> <p>- 481.1 - 502.8 - typical.</p> <p>- 502.8 - 505.8 - similar to 470.2 - 484.0 with 7.0 - 10.0% pyrrhotite as blebs and wisps.</p>	5293		479.4	484.4	5.0				tr.
			5294		484.4	489.4	5.0				tr.
			5295		489.4	494.4	5.0				tr.
			5296		494.4	498.4	5.0				tr.
			5297		498.4	502.8	4.4				tr.
			5298		502.8	505.8	3.0				.01
505.8	526.0	<p><u>ULTRAMAFIC VOLCANICS</u> - medium grey, fine grained, well foliated to weakly banded, dominantly tremolite with minor talc, chlorite and serpentine foliations with several 1/2" bands of fine euhedral actinolite with calcite (flow tops?) banding could indicate tuffs or sheared flows.</p>									
526.0			<p>End of Hole.</p>								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-5 LENGTH 259'
 LOCATION 14+00NW 5+00SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -46.6°
 STARTED October 8, 1986 FINISHED October 9, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-46.6°				
259'	-37.5°				


HOLE NO. OP-86-5 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0	30.0	<u>CASING</u>									
30.0	86.4	<u>GARNET-BIOTITE-QUARTZ SCHIST</u>									
86.4	104.0	<u>BANDED IRON FORMATION (LEAN)</u>									
104.0	126.1	<u>ULTRAMAFIC VOLCANICS</u>									
126.1	149.6	<u>INTERBEDDED BANDED IRON FORMATION and GARNETIFEROUS METASEDIMENTS</u>									
149.6	160.1	<u>GARNETIFEROUS METASEDIMENTS</u>									
160.1	198.6	<u>BANDED IRON FORMATION</u>									
198.6	212.0	<u>ULTRAMAFIC VOLCANICS</u>									
212.0	235.5	<u>BANDED IRON FORMATION</u> 225.3 to 228.7 - 2.0-4.0% pyrrhotite and pyrite. 228.7 to 235.5 - 5.0-7.0% pyrrhotite and pyrite.									
235.5	236.8	<u>ULTRAMAFIC VOLCANICS</u>									
236.8	238.0	<u>BANDED IRON FORMATION - 5.0-7.0% pyrite and pyrrhotite.</u>									
238.0	259.0	<u>ULTRAMAFIC VOLCANICS</u>									
2	0	End of Hole.									



DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-5 LENGTH 259'
 LOCATION 14+00NW 5+00SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -46.6°
 STARTED October 8, 1986 FINISHED October 9, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-46.6°				
259'	-37.5°				

HOLE NO. OP-86-5 SHEET NO. 1 of 5

REMARKS _____

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	30.0	<u>CASING</u>									
30.0	86.4	<u>GARNET-BIOTITE-QUARTZ SCHIST</u> - dark grey, fine grained, with 1/16" to 1/8" poikiloblastic pink garnets. 20 to 30% garnets in a matrix of quartz and biotite, nearly massive with some weak compositional banding indicated by a change in garnet content. Trace to 0.5% sulphides. Few narrow dispersed quartz bands containing few garnets (possibly chert). - 30.0 to 45.0 - typical. - 45.0 to 47.0 - weathered zone, higher content and more well developed biotite, minor chlorite. - 47.0 to 58.1 - typical. - 58.1 to 58.7 - same as 45.8 to 47.0. - 58.7 to 74.0 - typical. - 74.0 to 74.4 - same as 45.8 to 47.0. - 74.4 to 76.6 - typical. - 76.6 to 86.4 - moderately well developed banding with many narrow chert bands, trace to 0.5% magnetite in few of these chert bands, banding at 75° to 80° to the core axis.	5299		30.0	35.0	5.0			tr.	
			5300		35.0	40.0	5.0			tr.	
			5301		40.0	45.0	5.0			tr.	
			5302		45.0	50.0	5.0			tr.	
			5303		50.0	55.0	5.0			tr.	
			5304		55.0	60.0	5.0			tr.	
			5305		60.0	65.0	5.0			tr.	
			5306		65.0	70.0	5.0			tr.	
			5307		70.0	75.0	5.0			tr.	
			5308		75.0	80.0	5.0			tr.	
			5309		80.0	83.0	3.0			tr.	
			5310		83.0	86.4	3.4			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY _____ OPAPIMISKAN LAKE
 HOLE NO. OP-86-5 SHEET NO. 2 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
86.4	104.0	<p><u>BANDED IRON FORMATION (LEAN)</u> - bands of light grey and dark grey with pink poikiloblasts. Bands of chert and garnet-biotite-chert with fine haloes of grunerite around garnetiferous bands. Fine grained, 0.5 to 1.0% disseminated magnetite in both chert and garnetiferous bands. Folds change banding angles. Trace to 0.5% pyrrhotite.</p> <p>- 100.0 - banding at 55° to core axis.</p>	5311		86.4	89.0	2.6			.02	
			5312		89.0	94.0	5.0			.01	
			5313		94.0	99.0	5.0			tr.	
			5314		99.0	104.0	5.0			tr.	
104.0	126.1	<p><u>ULTRAMAFIC VOLCANICS</u> - light to medium grey, fine grained, schistose, foliated at 70° to core axis, talc with tremolite, minor serpentine, and trace disseminated pyrite. Weak carbonate alteration parallel to foliation and along fractures, trace to 0.5% disseminated pyrite, trace to 0.5% disseminated magnetite.</p>									
126.1	149.6	<p><u>INTERBEDDED BANDED IRON FORMATION AND GARNETIFEROUS METASEDIMENTS</u> - Banded Iron Formation is dark grey, fine grained, poor to moderately banded with fine intraband laminae, consists of chert, hornblende, grunerite and magnetite. 5 to 7% magnetite concentrating in dark grey to black bands. Trace to 0.5% sulphides. Increase in garnet content toward 134.0', several 3" to 4" bands of near massive garnet. The entire unit contains fine chloritic fractures which may account for the dark colour of the unit.</p> <p>- 126.1 to 133.0 - as described.</p> <p>- 133.0 to 134.0 - near massive, large (up to 1/4") poikiloblastic garnets in hornblende and chlorite, no magnetite.</p> <p>- 134.0 to 141.8 - grades from garnet rich at 134.0 to less than 1% at 141.8.</p> <p>- 138.5 - banding 43° to core axis.</p> <p>- 141.8 to 149.6 - Banded Iron Formation as described with few 1/4" boudinaged chert bands and adjacent laminations contorted around them.</p> <p>- 147.0 - banding at 42° to core axis.</p>	5315		126.1	129.6	3.5			tr.	
			5316		129.6	134.6	5.0			tr.	
			5317		134.6	139.6	5.0			tr.	
			5318		139.6	144.6	5.0			.01	
			5319		144.6	149.6	5.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-5 SHEET NO. 3 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON	
				FROM	TO	TOTAL						
149.6	160.1	<p><u>GARNETIFEROUS METASEDIMENTS</u> - dark grey with pink garnet poikiloblasts, fine grained. Consists of garnets (30-40%), quartz, biotite, amphibole and minor chlorite, several garnet-poor bands, trace to 0.5% pyrrhotite.</p> <p>- 149.6 to 152.2 - typical.</p> <p>- 152.2 to 155.8 - 1.0 to 3.0% fine grained disseminated magnetite in poorly developed chert-rich bands.</p> <p>- 155.8 to 160.1 - typical.</p>	5320		149.6	154.9	5.3			tr.		
				5321		154.9	160.1	5.2			tr.	
160.1	198.6	<p><u>BANDED IRON FORMATION</u> - bands of dark grey, light grey and light cream-green, well banded, bands of chert and magnetite-grunerite, fine grained, 10 to 15% magnetite, trace to 0.5% pyrrhotite, rare garnets, 1.0 to 3.0% fine grained carbonate within bands and 2.0 to 4.0% calcite as narrow veins and fracture fillings. Several chlorite coated fractures with many exhibiting small displacement of beds.</p> <p>- 160.1 to 173.0 - typical, very few calcitic fractures or veins.</p> <p>- 173.0 to 182.2 - abundant calcite-filled fractures (3.0 to 5.0%)</p> <p>- 175.4 to 176.0 - ground core high in chlorite and calcite.</p> <p>- 177.6 to 178.0 - quartz vein, fine grained, 3.0 to 5.0% pyrrhotite as fracture fillings. Calcite-filled fractures cut the sulphide-filled fractures.</p> <p>- 179.9 to 180.1 - calcite vein, coarse grained with veinlets into adjoining fractured Banded Iron Formation.</p> <p>- 181.6 to 182.2 - 7.0 to 10.0% calcite in fractures and as veinlets. 1.0 to 3.0% pyrite and pyrrhotite with calcite.</p>	5322		160.1	165.0	4.9			tr.		
				5323		165.0	169.0	4.0			tr.	
				5324		169.0	173.0	4.0			tr.	
				5325		173.0	177.3	4.3			tr.	
				5326		177.3	178.3	1.0			tr.	
				5327		178.3	180.5	2.2			.02	
			5328		180.5	182.2	1.7			tr.		

LANGRIDGE - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____ OPAPIMISKAN LAKE

HOLE NO. OP-86-5 SHEET NO. 4 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 182.2 to 198.6 - typical.	5329		182.2	187.5	5.3			tr.	
		- 192.9 to 193.3 - quartz vein, fine grained, no visible sulphides.	5330		187.5	192.7	5.2			tr.	
			5331		192.7	193.7	1.0			tr.	
			5332		193.7	198.6	4.9			tr.	
198.6	212.0	<u>ULTRAMAFIC VOLCANICS</u> - typical talc-tremolite-serpentine schist, dominantly talc from 508.7 to 509.0, minor phlogopite, no visible sulphides.									
212.0	235.5	<u>BANDED IRON FORMATION</u> - atypical, well banded, moderately contorted narrow bands, chert, hornblende and magnetite-grunerite.									
		- 212.0 to 217.0 - typical, few quartz-carbonate fractures.	5333		212.0	217.0	5.0			tr.	
		- 217.0 to 218.0 - garnetiferous hornblende band.									
		- 218.0 to 218.2 - blebs and wisps of pyrrhotite (up to 1/4" wide) in contorted zone.	5334		217.0	222.0	5.0			tr.	
		- 218.2 to 225.3 - bands of garnet-biotite schist with typical bands.	5335		222.0	227.0	5.0			tr.	
		- 225.3 to 228.7 - 60 to 70% laminated, garnet-biotite-hornblende-chert laminae and bands. 2.0 to 4.0% disseminated pyrrhotite and pyrite.									
		- 228.7 to 235.5 - higher chert content with corresponding decrease in magnetite-grunerite. 5.0 to 7.0% pyrrhotite and pyrite as wisps, stringers and blebs in fractures and highly contorted bands.	5336		227.0	232.0	5.0			tr.	
			5337		232.0	235.5	3.5			tr.	
235.5	236.8	<u>ULTRAMAFIC VOLCANICS</u> - typical tremolite-talc-serpentine, with 0.5 to 1.0% pyrrhotite and pyrite at upper and lower boundaries.	5338		235.5	236.8	1.3			tr.	
236.8	238.0	<u>BANDED IRON FORMATION</u> - typical, laminated to moderately contorted, 5.0 to 7.0% pyrite and pyrrhotite as blebs, wisps and stringers.	5339		236.8	238.0	1.2			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-5 SHEET NO. 5 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
238.0	259.0	<p><u>ULTRAMAFIC VOLCANICS</u> - typical.</p> <p>- 238.0 to 239.5 - well foliated tremolite-serpentine-talc, grading to dominantly talc at 239.5.</p> <p>- 238.0 to 239.0 - 1.0 to 3.0% pyrrhotite and pyrite as blebs and wisps.</p> <p>- 239.5 to 242.0 - talc schist with minor tremolite and serpentine.</p> <p>- 242.0 to 259.0 - grades to dominantly tremolite with serpentine and phlogopite foliations, few narrow siliceous bands.</p>	5340		238.0	239.0	1.0			tr.	
259.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-6 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPH IDES	FOOTAGE			%	%	OZ TON	OZ TON
				FROM	TO	TOTAL					
		- 282.0 to 284.7 - 7.0 to 10% pyrrhotite and pyrite.									
284.7	305.0	<u>ULTRAMAFIC VOLCANICS</u>									
305.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-6 LENGTH 305'
 LOCATION 14+00NW 6+01SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -50.0°
 STARTED October 10, 1986 FINISHED October 11, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-50.0°				
305'	-41.0°				

HOLE NO. OP-86-6 SHEET NO. 1 of 7

REMARKS _____

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO					TOTAL
0	29.0	<u>CASING</u>								
29.0	140.0	<p><u>METASEDIMENTS</u> - dominantly pelitic units with interbeds, garnet free of wacke and siliceous mudstone. 5 types are visible and are as follows:</p> <p>a) Massive to poorly banded, dark grey, fine grained with coarse grained poikiloblastic pink garnets, matrix is dominantly quartz and biotite with minor sericite, and isolated chert bands (1/2" to 1").</p> <p>b) Well banded (1/2" to 2"), bands of light grey, very fine grained chert, fine grained pink-grey garnet. Ferrous bands, coarse poikiloblastic garnets with hornblende and biotite, and bands of fine grained biotite, hornblende and grunerite.</p> <p>c) Dark grey, massive, fine to very fine grained quartz, amphibole.</p> <p>d) Wacke, massive, dark grey, unsorted fine to coarse grained, angular to subrounded, grains are cemented by calcite with a few hematitic fractures, grains include quartz, biotite, rock fragments and several angular grains which have green centres and red alteration rims (garnets?). Also contains several calcite veinlets.</p> <p>e) Dark grey-green, massive, fine to very fine grained quartz and amphibole.</p> <p>- 29.0 to 30.8 - typical (a) with 7 to 10% garnets, no visible sulphides.</p>	5341		29.0	30.8	1.8			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-6 SHEET NO. 2 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 30.8 to 32.4 - as above with quartz veinlets, no visible sulphides	5342		30.8	32.2	1.4			tr.	
		- 32.4 to 33.0 - quartz vein, trace pyrite as fracture coating.	5343		32.2	33.1	1.1			tr.	
		- 33.0 to 39.3 - typical (a) with trace disseminated pyrite.	5344		33.1	36.3	3.2			.09	
		- 38.7 to 38.8 - chert band.	5345		36.3	39.3	3.0			tr.	
		- 39.3 to 44.9 - typical (c) with trace fine grained pyrite as a fracture coating. Foliated at 52° to core axis.	5346		39.3	42.3	3.0			.01	
			5347		42.3	44.9	2.6			.01	
		- 44.9 to 46.9 - typical (a) no visible sulphides.	5348		44.9	48.9	4.0			tr.	
		- 46.9 to 47.6 - typical (c) no visible sulphides.									
		- 47.6 to 50.7 - typical (a) with trace pyrite along fractures.	5349		48.9	50.9	2.0			tr.	
		- 48.6 - calcite filled fracture with steel blue alteration.									
		- 50.7 to 58.2 - typical (b) trace to 0.5% pyrrhotite along fractures.									
		- 51.3 - 2" band of massive pyrrhotite.	5350		50.9	51.9	1.0			tr.	
		- 58.2 to 63.5 - typical (a) 0.5 to 1.0% pyrrhotite and pyrite.	5351		51.9	56.4	4.5			.14	
		- 61.0 to 61.2 - carbonate band, weathered and euhedral calcite crystals in vug; chloritized mafic minerals.	5352		56.4	60.9	4.5			.01	
			5353		60.9	65.2	4.3			tr.	
		- 63.5 to 66.4 - typical (e).									
		- 65.2 to 65.5 - silicified with trace pyrite.	5354		65.2	66.2	1.0			tr.	
		- 65.8 to 66.1 - quartz vein, 0.5 to 1.0% pyrite as fracture coating.									
		- 66.4 to 69.6 - typical (a) trace pyrite.	5355		66.2	71.2	5.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-6 SHEET NO. 3 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FROM	TO	TOTAL	%	GT TON	GT TON	
		- 69.6 to 72.1 - typical (c) no visible sulphides.	5356		71.2	76.2	5.0			tr.	
		- 70.6 to 70.7 - quartz veinlet.									
		- 72.1 to 79.2 - typical (a) trace pyrite.	5357		76.2	79.2	3.0			.01	
		- 79.2 to 80.7 - typical (d) no visible sulphides.	5358		79.2	80.7	1.5			tr.	
		- 80.7 to 86.4 - typical (a) trace pyrite.	5359		80.7	83.7	3.0			tr.	
		- 86.4 to 89.3 - typical (d) no visible sulphides.	5360		83.7	86.4	2.7			tr.	
		- 89.3 to 139.0 - typical (a) trace pyrite and pyrrhotite both disseminated and as fracture coatings.	5361		86.4	89.3	2.9			tr.	
			5362		89.3	94.0	4.7			tr.	
			5363		94.0	99.0	5.0			tr.	
		- 104.0 - compositional banding 60° to core axis.	5364		99.0	104.0	5.0			tr.	
			5365		104.0	109.0	5.0			tr.	
		- 127.0 - compositional banding 75° to core axis.	5366		109.0	114.0	5.0			tr.	
			5367		114.0	119.0	5.0			tr.	
		- 138.5 - compositional banding 65° to core axis.	5368		119.0	124.0	5.0			tr.	
			5369		124.0	129.0	5.0			tr.	
			5370		129.0	134.0	5.0			tr.	
			5371		134.0	139.0	5.0			tr.	
		- 139.0 to 140.0 - typical (b) with 1-2% disseminated magnetite.	5372		139.0	140.0	1.0			tr.	
140.0	143.5	BANDED IRON FORMATION - well banded, cream-green, light grey and dark grey to black with pink poikiloblasts, band of grunerite-magnetite, chert and garnet-biotite-amphibole, banded at 70° to core axis, trace pyrite.	5373		140.0	143.5	3.5			tr.	
143.5	153.6	ULTRAMAFIC VOLCANICS - light to medium grey with dark grey to black clots, fine grained, schistose talc with clots and foliations of serpentine (15 to 20%), which also contain minor very fine grained magnetite, several calcite filled fractures.									
		- 150.2 to 152.1 - very broken and ground core. Clots could indicate an intrusive.									

DIAMOND DRILL RECORD

NAME OF PROPERTY _____ OPAPIMISKAN LAKE _____

HOLE NO. OP-86-6 SHEET NO. 4 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
153.6	164.0	<p>BANDED IRON FORMATION - dark grey and medium brown; fine grained, bands of garnet amphibole, chert and magnetite-grunerite. 5 to 7% calcite within bands as fracture fillings and as veinlets. Many chlorite-carbonate filled fractures. These appear to have altered the unit resulting in a green hue in the core. Strong calcite mineralization. Veinlets have random orientation.</p> <p>- 154.2 - 2" band with fracture fillings of pyrrhotite and pyrite with trace chalcopyrite and sphalerite.</p>	5374		153.6	158.8	5.2			tr.	
			5375		158.8	164.0	5.2			tr.	
164.0	172.9	<p>GARNETIFEROUS METASEDIMENTS - similar to (a) and (b) at 29.0 to 140.0 with much smaller garnets and several chlorite and calcite filled fractures and the unit has a dark green hue. Trace sulphides.</p> <p>- 164.0 to 168.5 - near massive with several bands of cream coloured alteration around calcite veinlets and which have a high calcite content.</p> <p>- 168.5 to 172.9 - moderately well compositionally banded with bands nearly parallel to core axis. Apparently corner of box fold at 169.5 (banding at 169.4 is 60° to core axis). Although banding is nearly parallel to core axis, several low amplitude folds are visible. Frequency 0.7', amplitude 0.1', axial plane 90° to axis.</p>	5376		164.0	168.5	4.5			tr.	
			5377		168.5	172.9	4.4			tr.	
172.9	196.2	<p>BANDED IRON FORMATION - medium to dark grey, fine to very fine grained, poor to moderately banded with chert, magnetite-grunerite and hornblende-garnet. Often no distinct bands and bands are well laminated. Several chlorite-carbonate filled fractures with few carbonate mineralized bands. 0.5 to 1.0% pyrrhotite and pyrite, 10 to 15% magnetite.</p> <p>- 172.9 to 178.8 - banding nearly parallel to core axis, few garnets.</p> <p>- 178.8 to 179.8 - well banded with 60 to 70% chert bands and 30 to 40% grunerite-magnetite with minor hornblende.</p>	5378		172.9	176.2	3.3			tr.	
			5379		176.2	181.2	5.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-6 SHEET NO. 5 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON	
					FROM	TO	TOTAL					
196.2	206.6	- 179.8 to 193.1 - typical as described, 15 to 20% fine to medium grained garnets.	5380		181.2	186.2	5.0			tr.		
		- 190.0 - banded at 50° to core axis.	5381		186.2	191.2	5.0			tr.		
		- 192.0 - few chlorite-calcite fractures beyond this point.										
		- 193.1 to 196.2 - few garnets and well banded.	5382		191.2	196.2	5.0			tr.		
		<u>INTERBEDDED BANDED IRON FORMATION AND SILICEOUS MUDSTONE</u> - Banded Iron Formation - well banded, trace garnets. Dominantly bands of chert and grunerite-magnetite. Trace to 0.5% pyrrhotite, no chloritic alteration. Siliceous Mudstone - dark brown to black, fine grained, massive to weakly foliated with trace visible laminations. Mineralogy dominated by quartz and biotite with 7 to 10% calcite. 0.5 to 1% chlorite along fractures as coatings, trace sulphides.										
206.6	236.3	- 196.2 to 197.4 - massive sediments, typical.	5383		196.2	201.4	5.2			tr.		
		- 197.4 to 200.5 - Banded Iron Formation and massive sediments interbedded.										
		- 200.5 to 201.4 - massive sediments, typical.										
		- 201.4 to 204.6 - Banded Iron Formation as described.	5384		201.6	204.6	3.2			tr.		
		- 204.6 to 206.6 - massive sediments.	5385		204.6	206.6	2.0			tr.		
		<u>BANDED IRON FORMATION</u> - as described in 196.2 to 206.6. In iron-rich bands, magnetite bands are surrounded by grunerite bands (i.e. dark grey bands contain magnetite with minor grunerite and surrounding these are light cream to green bands of grunerite with minor magnetite). Many randomly oriented calcite filled fractures, weakly contorted, 0.5 to 1% sulphides, with pyrrhotite in iron-rich bands and pyrite in calcite filled fractures. Banding angles vary. - 30° @ 207.0' - 55° @ 214.0' - 42° @ 216.5' - 75° @ 224.0'	5386		206.6	209.5	2.9			tr.		
			5387		209.5	214.5	5.0			tr.		
			5388		214.5	219.5	5.0			tr.		
			5389		219.5	224.5	5.0			tr.		
			5390		224.5	229.5	5.0			tr.		

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DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-6 SHEET NO. 6 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 206.6 to 229.5 - typical.									
		- 229.5 to 231.2 - well fractured with calcite fracture fillings.	5391		229.5	231.8	2.3				tr.
		- 231.2 to 231.8 - chlorite schist with strong calcite mineralization.									
		- 231.8 to 236.3 - typical.	5392		231.8	236.3	4.5				tr.
236.3	264.2	<u>ULTRAMAFIC VOLCANICS</u> - light to medium grey, fine grained, schistose. Mineralogy dominated by talc, serpentine and tremolite, 7 to 10% carbonate, trace disseminated pyrite and magnetite. Ground core from 241.7 to 242.3 and from 252.1 to 252.7.									
		- 236.3 to 261.7 - typical.									
		- 261.7 to 264.2 - dominantly tremolite with serpentine and minor phlogopite. Not schistose but well foliated.									
		- 263.6 to 263.8 - quartz vein with no visible sulphides.	5393		263.2	264.2	1.0				tr.
264.2	266.3	<u>BANDED IRON FORMATION</u> - as described in 206.6 to 236.3 with narrow bands (1/8" to 1/4"). Banding at 65° to 70° to core axis. 0.5 to 1% pyrrhotite.	5394		264.2	266.3	2.1				tr.
266.3	267.6	<u>ULTRAMAFIC VOLCANICS</u> - similar to 251.7 to 254.2.	5395		266.3	267.6	1.3				tr.
267.6	284.7	<u>BANDED IRON FORMATION</u> - similar to 206.6 to 236.3 with 10 to 15% garnet-biotite schist bands (1/8" to 1/4"), 0.5 to 1% pyrrhotite.	5396		267.6	272.6	5.0				tr.
		- 267.6 to 275.5 - typical.	5397		272.6	275.3	2.7				tr.
		- 275.5 to 276.1 - wide chert band, 7 to 10% pyrrhotite along fractures. 1 to 3% magnetite as disseminations and in fractures with pyrrhotite.	5398		275.3	276.3	1.0				tr.
		- 276.1 to 279.0 - 40 to 50% garnet-biotite bands. Most chert bands are boudinaged. 3 to 5% pyrrhotite.	5399		276.3	279.0	2.7				tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY _____ OPAPIMISKAN LAKE _____

HOLE NO. OP-86-6 SHEET NO. 7 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 279.0 to 279.6 - moderate to poorly banded, dominantly chert and grunerite-magnetite, no garnets.	5400		279.0	282.0	3.0			tr.	
		- 279.6 to 282.0 - several bands of light brown very fine grained chert.									
		- 280.1 to 280.7 - chert band with 3 to 5% pyrrhotite and pyrite along fractures.									
		- 282.0 to 284.7 - similar to 279.0 to 279.6 with 7 to 10% pyrrhotite and pyrite in fractures and contorted bands.	5401		282.0	284.7	2.7			tr.	
		- 284.5 - trace chalcopyrite.									
284.7	305.0	<u>ULTRAMAFIC VOLCANICS</u> - medium to dark green, well foliated, fine grained. Grades from dominantly talc and serpentine with minor tremolite and carbonate to dominantly tremolite with minor serpentine and phlogopite at 289.2. Foliated at 70° to 75° to core axis.									
		- 299.4 to 299.5 - quartz vein, no visible sulphides.	5402		299.0	300.1	1.1			tr.	
305.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-7 LENGTH 339'
 LOCATION 13+04NW 6+00SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -49.7°
 STARTED October 13, 1986 FINISHED October 16, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-49.7°				
339'	-43.0°				

HOLE NO. OP-86-7 SHEET NO. 1 of 2

REMARKS Summary Log

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0	27.0	<u>CASING</u>									
27.0	31.8	<u>GARNET-BIOTITE-QUARTZ SCHIST</u>									
31.8	34.2	<u>LAMPROPHYRE DIKE</u>									
34.2	86.7	<u>GARNET-BIOTITE-QUARTZ SCHIST</u>									
86.7	93.1	<u>BANDED IRON FORMATION</u>									
93.1	103.2	<u>ULTRAMAFIC VOLCANICS</u>									
103.2	144.7	<u>BANDED IRON FORMATION - 0.5-1.0% pyrrhotite, trace pyrite.</u>	5424		126.7	129.7	3.0			.16	
144.7	151.2	<u>INTERBEDDED SILTSTONE</u> and <u>BANDED IRON FORMATION</u>									
151.2	175.9	<u>BANDED IRON FORMATION</u>									
175.9	184.0	<u>ULTRAMAFIC VOLCANICS</u>									
184.0	190.0	<u>BANDED IRON FORMATION</u>									
190.0	193.9	<u>MAFIC TUFF</u>									
193.9	206.7	<u>BANDED IRON FORMATION</u> and <u>MAFIC TUFF INTERBEDDED</u>									
206.7	209.7	<u>LOSS OF CORE</u>									
209.7	212.5	<u>BANDED METASEDIMENTS</u>									
212.5	214.9	<u>BANDED IRON FORMATION (LEAN)</u>									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-7 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	OZ TON	OZ TON
					FROM	TO					TOTAL
		- 213.5 to 214.5 - 10-12% pyrite and pyrhotite.								
214.9	249.5	<u>ULTRAMAFIC VOLCANICS</u>								
249.5	256.7	<u>SILICIFIED ULTRAMAFIC VOLCANICS</u>								
256.7	300.6	<u>ULTRAMAFIC VOLCANICS</u>								
300.6	314.8	<u>BANDED IRON FORMATION</u>								
314.8	339.0	<u>ULTRAMAFIC VOLCANICS</u>								
339.0		End of Hole.								

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DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-7 LENGTH 339'
 LOCATION 13+04NW 6+00SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -49.7°
 STARTED October 13, 1986 FINISHED October 16, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-49.7°				
339'	-43.0°				

HOLE NO. OP-86-7 SHEET NO. 1 of 7

REMARKS _____

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FROM	TO	TOTAL	%	%	OZ/TON	OZ/TON
0	27.0	<u>CASING</u>									
27.0	31.8	<u>GARNET-BIOTITE-QUARTZ SCHIST</u> - dark grey, fine grained with poikiloblastic pink garnets, massive to poorly banded, matrix is dominantly biotite with quartz, 25-35% garnets, compositional banding indicated by change in garnet content, few narrow (1/4" to 1/2") chert bands, trace to 0.5% pyrrhotite. - 29.7 - 30.2 - chert bands with 3-5% pyrite along fractures, band is at 68° to core axis.	5403		27.0	31.8	4.8			.02	
31.8	34.2	<u>LAMPROPHYRE DIKE</u> - dark grey, massive, porphyritic, fine to coarse grained, subangular to rounded, grains. Phenocrysts and groundmass are commonly replaced by chlorite, serpentine and chlorite. There are several calcite veinlets.	5404		31.8	34.2	2.4			tr.	
34.2	86.7	<u>GARNET-BIOTITE-QUARTZ SCHIST</u> - typical with few chlorite rich bands with well developed biotite, are weathered and core is easily ground, trace sulphides. - 48.7 - 49.6 - chloritic band. - 53.9 - 54.5 - chloritic band. - 57.2 - 59.3 - chloritic band with a fine limonitic fracture. - 64.4 - 64.7 - two 1/16" limonitic fractures. - 67.8 - 68.2 - loss of core, "mudseam".	5405 5406 5407 5408 5409 5410 5411 5412 5413		34.2 39.0 44.0 49.0 54.0 59.0 64.0 69.0 74.0	39.0 44.0 49.0 54.0 59.0 64.0 69.0 74.0	4.8 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0			tr. tr. tr. tr. tr. tr. tr. tr. tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-7 SHEET NO. 2 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 79.9 - 81.2 - garnet poor, dominantly quartz-biotite-sericite, massive, no visible sulphides.	5414		79.0	84.0	5.0			tr.	
		- 85.5 - 86.7 - chloritic band.	5415		84.0	86.7	2.7			tr.	
86.7	93.1	<u>BANDED IRON FORMATION</u> - well banded, dark grey, dark green and light cream-green with medium to coarse grained garnets in both dark and light green bands. Bands consist of chert, garnet and amphibole (hornblende and grunerite) and 0.5-1% magnetite which occurs in the chert bands. Bands are generally 1/8" to 1/16" wide and occur at 73° to core axis, trace pyrite as fracture coatings.	5416		86.7	90.1	3.4			tr.	
			5417		90.1	93.1	3.0			tr.	
93.1	103.2	<u>ULTRAMAFIC VOLCANICS</u> - medium to dark grey, fine grained, schistose dominantly talc and serpentine with 5-7% carbonate parallel to foliation and as fracture filling, 0.5-1% magnetite, no visible sulphides.	5418		95.7	98.7	3.0			tr.	
		- 101.0 - foliated at 48° to core axis.									
		- 101.9 - 102.4 - weathered and ground talc and clays.									
103.2	144.7	<u>BANDED IRON FORMATION</u> - moderate to well banded, dark grey to black, medium grey and light green; bands of chert, grunerite-magnetite and grunerite, fine to very fine grained, low to moderately contorted.									
		<u>Average Modes</u>									
		Grunerite 35 - 45%									
		Chert 25 - 35%									
		Magnetite 15 - 20%									
		Pyrrhotite 0.5 - 1%									
		Pyrite trace									
		- 103.2 - 123.1 - moderately banded, garnet-hornblende-chlorite band in addition to above mentioned bands.	5419		103.2	108.1	4.9			.02	
		Lower content of chert bands. Many randomly oriented chlorite-calcite filled fractures.	5420		108.1	113.1	5.0			tr.	
			5421		113.1	118.1	5.0			tr.	
			5422		118.1	123.1	5.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-7 SHEET NO. 3 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		Several bands with moderate calcite alteration. Entire zone appears to have undergone weak chloritic alteration. Trace to 0.5% pyrrhotite. Banding at 45° to core axis.									
		- 120.2 - 1/2" wide massive pyrrhotite band.									
		- 120.8 - 121.1 - chlorite schist band with carbonate laminations and minor garnets.									
		- 123.1 - 144.7 - typical.									
		- 126.0 - banding at 63° to core axis.	5423		123.1	126.7	3.6			tr.	
			5424		126.7	129.7	3.0			.16	
		- 132.6 - 133.6 - massive, dark grey to black, fine to very fine grained biotite-quartz-hornblende-magnetite; strongly magnetic.	5425		129.7	134.7	5.0			tr.	
			5426		134.7	139.7	5.0			tr.	
			5427		139.7	144.7	5.0			tr.	
144.7	151.2	<u>INTERBEDDED SILTSTONE AND BANDED IRON FORMATION</u> - interbeds grade into one another. Banded Iron Formation - typical as in 103.2 - 144.7. Siltstone - very dark grey, fine to very fine grained, very weakly laminated with mineralogy consisting of biotite, amphibole, quartz and calcite. 7-10% calcite within laminations and as fracture fillings. Several randomly oriented fractures. Trace disseminated pyrite.									
		- 144.7 - 146.0 - Siltstone, typical.	5428		144.7	146.0	1.3			tr.	
		- 146.0 - 148.0 - Banded Iron Formation, typical.	5429		146.0	148.0	2.0			tr.	
		- 148.0 - 148.8 - Siltstone, typical.	5430		148.0	151.2	3.2			tr.	
		- 148.8 - 149.5 - Banded Iron Formation, typical.									
		- 149.5 - 151.2 - Siltstone, typical.									
151.2	175.9	<u>BANDED IRON FORMATION</u> - typical as in 103.2 - 144.7 with many calcite filled fractures and quartz-calcite veinlets, with 0.5-1%	5431		151.2	155.0	3.8			tr.	
			5432		155.0	159.0	4.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-7 SHEET NO. 4 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
		pyrite and pyrrhotite in veinlets and as fracture coatings. A few graphitic foliations and narrow bands.								
		- 151.2 - 167.3 - typical.								
		- 159.2 - 159.7 - quartz vein with few fine chlorite-carbonate filled fractures, trace pyrite.	5433		159.0	160.0	1.0			tr.
			5434		160.0	165.0	5.0			tr.
		- 165.9 - 166.5 - quartz vein with disseminated chlorite wisps, no visible sulphides.	5435		165.0	167.3	1.6			tr.
		- 167.3 - 172.0 - heavily fractured with quartz-carbonate fillings and 0.5-1% sulphides, with brecciated zones at 167.3 - 168.3 and 171.3 - 171.5.	5436		167.3	172.0	4.7			tr.
		- 172.0 - 175.9 - typical.								
		- 174.3 - 174.7 - quartz vein with light green alteration around chloritic fractures.	5437		172.0	175.9	3.9			tr.
175.9	184.0	<u>ULTRAMAFIC VOLCANICS</u> - well foliated to laminated at both upper and lower contacts with Banded Iron Formation.								
		- 175.9 - 181.8 - typical.								
		- 181.8 - 184.0 - decrease in talc and serpentine and is dominated by tremolite with 7-10% phlogopite.								
184.0	190.0	<u>BANDED IRON FORMATION</u> - typical as in 103.2 - 144.7.								
		- 184.0 - 188.9 - low to moderately contorted, trace to 0.5% pyrrhotite parallel to banding and along fractures. Banding at 57° to core axis.	5438		184.0	189.0	5.0			tr.
			5439		189.0	190.0	1.0			tr.
		- 188.9 - 190.0 - highly contorted, 5-7% pyrrhotite as veinlets and at boundaries of chert.								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-7 SHEET NO. 5 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			OZ TON	OZ TON	
				FROM	TO	TOTAL	%	%		
190.0	193.9	<p>MAFIC TUFF - medium grey and dark green, fine grained, laminated, clasts of tremolite/actinolite and quartz, upper and lower boundaries appear discordant with Banded Iron Formation. At 190.0 a tongue of Banded Iron Formation penetrates the tuffs. No visible sulphides. Sheared.</p> <p>- 190.0 - 192.0 - foliated at 12° to core axis.</p> <p>- 192.0 - 193.9 - foliated at 53° to core axis.</p>	5440	190.0	193.9	3.9			tr.	
193.9	206.7	<p>BANDED IRON FORMATION AND MAFIC TUFF INTERBEDDED - sheared.</p> <p>Banded Iron Formation - typical as in 103.2 - 144.7, 75% of unit; highly contorted, highly folded and boudinaged, several quartz, calcite and chlorite filled fractures. Few calcite veinlets. 0.5-1% pyrrhotite and pyrite.</p> <p>Mafic Tuffs - typical, 25% of unit; contorted laminations.</p>	5441 5442 5443	193.9 199.0 204.0	199.0 204.0 206.7	5.1 5.0 2.7			tr. tr. tr.	
206.7	209.7	LOSS OF CORE - "void"								
209.7	212.5	<p>BANDED METASEDIMENTS - banded, black and light grey; fine to very fine grained, hornblende, chlorite and biotite with minor garnet, and bands (1/8" to 1/4") of quartz (chert?), trace magnetite, 2-4% pyrite and pyrrhotite. Quartz bands are folded and boudinaged and are often haloed with grunerite. Unit has been sheared.</p>	5444	208.7	212.5	3.8			tr.	
212.5	214.9	<p>BANDED IRON FORMATION (LEAN) - light to medium grey and dark grey, laminated to poorly banded, fine grained to very fine grained, contorted, dominantly chert with laminations of grunerite-magnetite.</p> <p>- 212.5 - 213.5 - 1-3% pyrrhotite parallel to lamination and along fractures.</p> <p>- 213.5 - 214.9 - 10-12% pyrite and pyrrhotite as veinlets, blebs and fracture fillings. In all cases sulphides have rim of chlorite separating them from Banded Iron Formation. Blebs are connected by filled fractures.</p>	5445 5446	212.5 213.9	213.9 214.9	1.4 1.0			tr. tr.	
214.9	249.5	<p>ULTRAMAFIC VOLCANICS - medium to dark grey, well foliated, fine grained.</p>								

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. QP-86-7 SHEET NO. 6 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON	
				FROM	TO	TOTAL						
		- 214.9 - 216.7 - talc-tremolite with many chloritic fractures coated with fine grained pyrite and very fine grained hematite.	5447		214.9	216.7	1.8			tr.		
		- 216.7 - 227.5 - talc schist with minor carbonate.										
		- 227.5 - 249.5 - dominantly tremolite with minor phlogopite and serpentine.										
		- 233.9 - 234.1 - quartz vein with minor calcite at edge of vein and in fractures within vein, few blebs and needles of tourmaline.	5448		233.5	234.5	1.0			tr.		
249.5	256.7	<u>SILICIFIED ULTRAMAFIC VOLCANICS</u> - several fine grained quartz veins and quartz-rich bands; adjacent wall rock has been bleached; entire unit has been altered (quartz, grunerite and actinolite, chlorite and trace tourmaline). 7-10% pyrrhotite and 2-4% pyrite along fracture and within remnant foliation.	5449		249.5	252.7	3.2			tr.		
			5450		252.7	256.7	4.0			tr.		
256.7	300.6	<u>ULTRAMAFIC VOLCANICS</u> - typical, tremolite-serpentine-talc with minor phlogopite foliations. 2" to 3" bands of quartz-carbonate replacement, no visible sulphides. Bands are at: - 279.5 - 279.7 - 284.7 - 284.9 - 286.7 - 287.0 - 288.1 - 288.3 - 289.6 - 289.7										
			5451		279.1	280.1	1.0			tr.		
			5452		284.7	289.7	5.0			tr.		
300.6	314.8		<u>BANDED IRON FORMATION</u> - atypical with fine bands of chert, magnetite and grunerite (generally less than 1/8") several fine calcite fractures. Very little contortion of bands with banding at 65° to 70°. Trace to 0.5% pyrrhotite. - 300.6 - 308.7 - as described with 15-20% magnetite.	5453		300.6	304.8	4.2			tr.	
				5454		304.8	309.8	5.0			tr.	
		- 301.8 - 1/8" quartz-calcite veinlet with minor tourmaline at vein wall and minor pyrrhotite in 1/8" of wall rock adjoining vein.										

DIAMOND DRILL RECORD

NAME OF PROPERTY _____ OPAPIMISKAN LAKE

HOLE NO. OP-86-7 SHEET NO. 7 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 303.6 - 303.8 - 3-5% pyrrhotite adjacent 1/2" siliceous band.									
		- 307.4 - 1/2" quartz-calcite veinlet, no visible sulphides.									
		- 307.9 - 308.0 - calcite-quartz veinlet.									
		- 308.7 - 314.8 - as described with 5-7% magnetite, several bands of light brown chert.	5455		309.8	314.8	5.0			tr.	
314.8	339.0	<u>ULTRAMAFIC VOLCANICS</u> - atypical with strong alteration around quartz-feldspar-calcite vein, veinlet swarms. Apparently random orientation of veins and veinlets. High concentration of veins and veinlets from 323.2 to 324.4 and from 326.0 to 326.5 and from 335.9 to 337.4. Feldspars are dominantly plagioclase with 2-4% feldspar.	5456		320.9	322.6	1.7			tr.	
			5457		322.6	325.0	2.4			tr.	
			5458		325.0	326.6	1.6			tr.	
			5459		335.4	337.9	2.5			tr.	
339.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-8 LENGTH 297'
 LOCATION 12+00NW 4+98SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -50.7°
 STARTED October 17, 1986 FINISHED October 18, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-50.7°				
297'	-42.7°				

HOLE NO. OP-86-8 SHEET NO. 1 of 2

REMARKS Summary Log

PA - 844328

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	oz/TON	oz/TON
					FROM	TO					TOTAL
0	30.0	<u>CASING</u>								
30.0	42.0	<u>FROST HEAVE?</u>								
42.0	44.0	<u>BANDED IRON FORMATION</u>								
44.0	45.3	<u>MUDSTONE</u>								
45.3	49.6	<u>BANDED GARNETIFEROUS METASEDIMENTS</u>								
49.6	60.9	<u>BANDED IRON FORMATION</u>								
60.9	68.9	<u>GARNETIFEROUS METASEDIMENTS</u>								
68.9	92.0	<u>BANDED IRON FORMATION</u>								
92.0	92.9	<u>SILTSTONE</u>								
92.9	94.3	<u>BANDED IRON FORMATION</u>								
94.3	94.5	<u>SILTSTONE</u>								
94.5	95.5	<u>BANDED IRON FORMATION</u>								
95.5	96.6	<u>SILTSTONE</u> - brecciated with quartz-calcite filling.								
96.6	106.6	<u>BANDED IRON FORMATION</u>								
106.6	112.8	<u>ULTRAMAFIC VOLCANICS</u>								
112.8	127.9	<u>BANDED IRON FORMATION</u>								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-8 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	GZ TON	GZ TON
					FROM	TO					TOTAL
127.9	219.5	<u>ULTRAMAFIC VOLCANICS</u> - 172.0 - 173.6 - 3-5% pyrrhotite with quartz veinlets and surrounded by bleached (light green) zones.								
219.5	233.0	<u>BANDED IRON FORMATION</u>								
233.0	297.0	<u>ULTRAMAFIC VOLCANICS</u>								
297.0		End of Hole.								

[Handwritten signature]

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-8 LENGTH 297'
 LOCATION 12+00NW 4+98SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -50.7°
 STARTED October 17, 1986 FINISHED October 18, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-50.7°				
297'	-42.7°				

HOLE NO. OP-86-8 SHEET NO. 1 of 5

REMARKS _____

PA - 844328

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	30.0	CASING									
30.0	42.0	FROST HEAVE? - sections of Banded Iron Formation with pebbles and cobbles of granite, quartzite and mafic. As well, adjacent Banded Iron Formation core does not fit together and is of different composition (e.g. garnetiferous) adjacent garnet free.									
42.0	44.0	BANDED IRON FORMATION - well banded, light and dark grey, fine grained, bands of chert and magnetite-grunerite; bands are 1/16" to 1/8" wide; 10-15% magnetite. Several chloritic fractures. No visible sulphides.	5460		42.0	44.0	2.0			tr.	
44.0	45.3	MUDSTONE - dark grey, fine grained, massive to poorly foliated, hornblende and quartz with minor biotite and grunerite. No visible sulphides.	5461		44.0	45.3	1.3			tr.	
45.3	49.6	BANDED GARNETIFEROUS METASEDIMENTS - light pinkish-grey and light to dark grey, fine to medium grained, well banded, bands of garnet-grunerite-chert and grunerite-magnetite; 60-70% garnet-rich bands; 1-2% magnetite. Several chlorite coated fractures with trace-0.5% pyrite. - 47.0 - banded at 60° to core axis.	5462		45.3	49.6	4.3			tr.	
49.6	60.9	BANDED IRON FORMATION - 49.6 - 54.0 - similar to 45.3 - 49.6 but with only 25-35% garnet-rich bands and 7-10% magnetite. Grades to garnet poor at 54.0. - 54.0 - 60.9 - similar to 42.0 - 44.0 but less well banded and with 1-3% garnets.	5463 5464 5465		49.6 54.0 57.9	54.0 57.9 60.9	4.4 3.9 3.0			.01 tr. tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-8 SHEET NO. 2 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS																							
FROM	TO		NO.	% SULPHIDES	FROM	TO	TOTAL	%	%	01 TON	02 TON																			
60.9	68.9	<p><u>GARNETIFEROUS METASEDIMENTS</u> - poorly to moderately banded, light to dark grey, fine to medium grained, consists of 50-60% fine to medium grained garnets with biotite and grunerite-cumingtonite (anthophyllite?), banding is compositional depending on amount of garnet at ratio of biotite to amphibole. Banding becomes less apparent and unit becomes lighter coloured around dark green amphibole veinlets which have possibly altered the unit. Trace pyrite.</p>	5466		60.9	64.9	4.0			tr.																				
			5467		64.9	68.9	4.0			tr.																				
68.9	92.0	<p><u>BANDED IRON FORMATION</u> - well banded; light grey, dark grey to black and light cream-green; fine grained, moderately contorted, consists of chert, magnetite-grunerite with minor hornblende. Grunerite bands are generally between magnetite-rich bands and chert bands, thus haloing magnetite.</p> <p><u>Average Modes</u></p> <table border="0"> <tr> <td>Chert</td> <td>40</td> <td>-</td> <td>50%</td> </tr> <tr> <td>Grunerite</td> <td>20</td> <td>-</td> <td>30%</td> </tr> <tr> <td>Magnetite</td> <td>15</td> <td>-</td> <td>20%</td> </tr> <tr> <td>Hornblende</td> <td>5</td> <td>-</td> <td>7%</td> </tr> <tr> <td>Pyrrhotite</td> <td>trace</td> <td>-</td> <td>0.5%</td> </tr> </table> <p>Banding averages 1/4" to 1/2". Pyrrhotite occurs along fractures.</p> <p>- 68.9 - 69.7 - typical.</p> <p>- 69.7 - 71.6 - highly contorted; with fine bands.</p> <p>- 71.6 - 92.0 - typical.</p>	Chert	40	-	50%	Grunerite	20	-	30%	Magnetite	15	-	20%	Hornblende	5	-	7%	Pyrrhotite	trace	-	0.5%								
Chert	40	-	50%																											
Grunerite	20	-	30%																											
Magnetite	15	-	20%																											
Hornblende	5	-	7%																											
Pyrrhotite	trace	-	0.5%																											
			5468		68.9	72.0	3.1			tr.																				
			5469		72.0	77.0	5.0			tr.																				
			5470		77.0	82.0	5.0			tr.																				
			5471		82.0	87.0	5.0			tr.																				
			5472		87.0	92.0	5.0			tr.																				
92.0	92.9	<p><u>SILTSTONE</u> - dark grey, fine to very fine grained, nearly massive with weak foliation; quartz, hornblende, biotite and calcite, trace to 0.5% pyrrhotite parallel to foliation.</p> <p>- 92.1 - 92.3 - 1/4" quartz vein, highly folded and boudinaged.</p>	5473		92.0	93.0	1.0			tr.																				

LANGRIDGE - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPINISKAN LAKE

HOLE NO. OP-86-8 SHEET NO. 3 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
92.9	94.3	<u>BANDED IRON FORMATION</u> - typical, banded 75° to core axis. Trace to 0.5% pyrrhotite.	5474		92.9	95.5	2.6		.01	
94.3	94.5	<u>SILTSTONE</u> - typical.								
94.5	95.5	<u>BANDED IRON FORMATION</u> - typical.								
95.5	96.6	<u>SILTSTONE</u> - atypical, brecciated with quartz-calcite filling.	5475		95.5	96.6	1.1		tr.	
96.6	106.6	<u>BANDED IRON FORMATION</u> - atypical, fractured with chlorite, calcite, quartz fillings. Small sections have been brecciated and filled with quartz-calcite. Trace to 0.5% fine grained euhedral to subhedral pyrite is found in some fractures and brecciated zones.	5476 5477		96.6 101.6	101.6 106.6	5.0 5.0		tr. tr.	
106.6	112.8	<u>ULTRAMAFIC VOLCANICS</u> - medium grey, fine grained, well foliated, dominantly talc with serpentine; 1-3% calcite as fracture fillings and disseminations.								
		- 108.8 - 110.4 - fractured and calcite-quartz filled.	5478		108.8	110.4	1.6		tr.	
112.8	127.9	<u>BANDED IRON FORMATION</u> - typical, contorted, with several narrow garnet-biotite bands. 1-2% pyrite along fractures and in highly contorted bands.	5479 5480 5481		112.8 117.9 122.9	117.9 122.9 127.9	5.1 5.0 5.0		tr. tr. tr.	
		- 113.5 - banding at 67° to core axis.								
127.9	219.5	<u>ULTRAMAFIC VOLCANICS</u> - typical.								
		- 127.9 - 144.7 - talc-tremolite schist with minor serpentine and 0.5-1% carbonate as narrow (1/8") bands parallel to foliation and as disseminations.								
		- 137.0 - 138.3 - banded and contorted with separation of tremolite from talc and serpentine (sheared?) trace pyrite as fracture coating.	5482		137.0	138.3	1.3		tr.	
		- 142.1 - 144.6 - foliated and fractured at 0 to 17° to core axis.								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-8 SHEET NO. 4 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 144.6 - 144.9 - Ground core. Caused possibly by competency contact between upper and lower units in conjunction with regional shear.									
		- 144.7 - 172.0 - dominantly tremolite with minor phlogopite; weak silicification with common quartz veinlet and minor disseminated quartz.									
		- 148.3 - 150.8 - silicified with three 1/2" to 1" quartz veinlets to 149.4 and nearly continuous zone to 150.8. Quartz with remnant ultramafics parallel to foliation outside silicified zone. No visible sulphides.	5483		148.3	150.8	2.5				tr.
		- 167.3 - 1/4" quartz-calcite veinlet.	5484		167.0	170.0	3.0				tr.
		- 172.0 - 173.6 - 3-5% pyrrhotite with quartz veinlets and surrounded by bleached (light green) zones. Also minor calcite and chlorite with sulphide.	5485		172.0	173.6	1.6				tr.
		- 173.6 - 182.3 - typical talc schist with minor serpentine and tremolite with several carbonate veinlets (up to 1/2"). No visible sulphides.	5486		173.6	178.3	4.7				tr.
			5487		178.3	182.3	4.0				tr.
		- 182.3 - 206.1 - typical tremolite-talc-serpentine with minor biotite aligned with the foliation.									
		- 206.1 - 219.5 - abundant quartz-carbonate-feldspar veinlets with bleached alteration haloes around them.	5488		206.1	209.5	3.4				tr.
			5489		209.5	214.5	5.0				tr.
			5490		214.5	219.5	5.0				tr.
219.5	233.0	BANDED IRON FORMATION - typical with fine banding and lamination, weak contortion, 10-15% magnetite with high replacement of magnetite by grunerite. 0.5-1% pyrrhotite. Banding is typically at 55° to 60° to core axis.	5491		219.5	223.0	3.5				tr.
			5492		223.0	228.0	5.0				tr.
			5493		228.0	233.0	5.0				tr.
		- 225.0 - banding is at 58° to core axis.									
233.0	297.0	ULTRAMAFIC VOLCANICS - typical, tremolite with minor talc, serpentine and phlogopite. Many calcite-quartz-feldspar veinlets	5494		233.0	237.0	4.0				tr.
			5495		237.0	242.0	5.0				tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-8 SHEET NO. 5 of 5

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
297.0		which are commonly from 1/8" to 1/4" wide but some are less than 1/32" and a few are up to 2". They are randomly oriented and many have alteration haloes around them. Few had trace tourmaline. No visible sulphides.	5496		242.0	247.0	5.0			tr.	
			5497		247.0	252.0	5.0			tr.	
			5498		252.0	257.0	5.0			tr.	
			5499		257.0	262.0	5.0			tr.	
			5500		262.0	267.0	5.0			tr.	
			6601		267.0	272.0	5.0			tr.	
			6602		272.0	277.0	5.0			tr.	
			6603		277.0	282.0	5.0			tr.	
			6604		282.0	287.0	5.0			tr.	
			6605		287.0	292.0	5.0			tr.	
			6606		292.0	297.0	5.0			tr.	
		End of Hole.									

J. Williams

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-9 LENGTH 199'
 LOCATION 12+01NW 6+00SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -45.8°
 STARTED October 19, 1986 FINISHED October 21, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.8°				
199'	-37.3°				

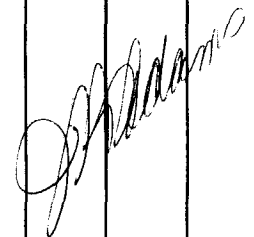
HOLE NO. OP-86-9 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 844328

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	45.0	<u>CASING</u>									
45.0	64.0	<u>BANDED IRON FORMATION</u>									
64.0	74.6	<u>ULTRAMAFIC VOLCANICS</u>									
74.6	89.6	<u>BANDED IRON FORMATION</u> - 5-7% pyrrhotite and 1-2% pyrite.									
89.6	199.0	<u>ULTRAMAFIC VOLCANICS</u>									
		- 149.4 - 153.5 - strong silicification with abundant quartz veinlets and alteration surrounding these veinlets. Unit is weakly bleached. 7-10% pyrrhotite.									
199.0		End of Hole.									



DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-9 LENGTH 199'
 LOCATION 12+01NW 6+00SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -45.8°
 STARTED October 19, 1986 FINISHED October 21, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.8°				
199'	-37.3°				

HOLE NO. OP-86-9 SHEET NO. 1 of 4

REMARKS _____

PA - 844328

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	%	%	OZ/TON	OZ/TON
0	36.0	<u>CASING</u>									
36.0	45.0	<u>OVERBURDEN</u> - granite, gabbro and metasediments as gravel and small boulders.									
45.0	64.0	<u>BANDED IRON FORMATION</u> - bands of light grey, dark grey to black and light cream-green, well banded, fine to very fine grained, low to moderately contorted bands, well fractured.	6607		45.0	49.0	4.0			tr.	
			6608		49.0	54.0	5.0			tr.	
			6609		54.0	59.0	5.0			tr.	
			6610		59.0	64.0	5.0			tr.	
		<u>Average Modes</u>									
		Grunerite 40 - 50%									
		Quartz 25 - 35%									
		Magnetite 15 - 20%									
		Calcite 5 - 7%									
		Pyrrhotite 0.5 - 1%									
		Pyrite trace - 0.5%									
		Tourmaline trace - 0.5%									
		Potash Feldspar trace - 0.5%									
		Magnetite-rich bands contain grunerite and are surrounded by grunerite bands. These are interbedded with chert bands. The unit is highly fractured. Many calcite fracture fillings and veinlets. Also few calcite-quartz-potash-feldspar veinlets. Some veinlets contain tourmaline, pyrrhotite and pyrite. Fractures and veinlets have no apparent consistent orientation. Minor displacement along them is often visible. Also minor pyrrhotite parallel to banding.									
		- 48.5 - 54.0 - hematitic fracture with pyrrhotite coating.									
		- 49.0 - banded at 58° to core axis.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. QP-86-9 SHEET NO. 2 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	GT TON	GT TON
				FROM	TO	TOTAL					
64.0	74.6	<u>ULTRAMAFIC VOLCANICS</u> - medium to dark grey, fine to very fine grained, schistose, dominantly talc with minor serpentine, 2-4% carbonate as fine bands and as disseminated grains; no visible sulphides; trace very fine grained disseminated magnetite.									
74.6	89.6	<u>BANDED IRON FORMATION</u> - atypical, moderate to poorly banded, contorted, few garnet-biotite bands, abundant chlorite fractures, as well as calcite fractures and veinlets containing pyrrhotite and pyrite, 5-7% pyrrhotite and 1-2% pyrite, as band replacement and in veinlets. This unit is weathered and quite broken.	6611		74.6	79.6	5.0				tr.
			6612		79.6	84.6	5.0				tr.
			6613		84.6	89.6	5.0				tr.
		- 74.6 - 82.1 - as described.									
		- 82.1 - 84.5 - dark green and light grey lamination, fine to very fine grained, contorted, dominantly amphiboles (grunerite and hornblende?) no magnetite, few chert bands. Grades into and out of iron formation.									
		- 84.5 - 85.2 - Banded Iron Formation as described.									
		- 85.2 - 85.5 - as in 82.1 - 84.5.									
		- 85.5 - 89.6 - Banded Iron Formation as described.									
89.6	199.0	<u>ULTRAMAFIC VOLCANICS</u>									
		- 89.6 - 99.1 - typical with trace magnetite, several crenulated sections.									
		- 99.1 - 100.0 - dark greenish-brown with light grey, well foliated strong increase in serpentine.									
		- 100.0 - 114.6 - similar to 89.6 - 99.1.									
		- 114.6 - 124.9 - medium grey, fine grained, weak to moderately foliated, dominantly tremolite with 1-3% phlogopite, 0.5-1% serpentine as fracture coatings and disseminated.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-9 SHEET NO. 3 of 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 124.9 - 125.8 - light grey-green, schistose, tremolite-serpentine-talc with several quartz veinlets and bleached alteration haloes surrounding veinlets. No visible sulphides.	6614		124.3	126.3	2.0			tr.	
		- 125.8 - 149.4 - similar to 114.6 - 124.9 - with several quartz veinlets and weak silicification; veinlets are parallel to foliation. No visible sulphides.	6615 6616		130.2 135.2	135.2 139.4	5.0 4.2			tr. tr.	
		- 149.4 - 153.5 - strong silicification with abundant quartz veinlets and alteration surrounding these, unit weakly bleached, 7-10% pyrrhotite parallel to foliation along fractures and as veinlets and blebs.	6617		149.4	153.5	4.1			tr.	
		- 150.0 - 150.9 - single quartz veinlet (1/32" wide) cuts previous mineralization, nearly parallel to core axis.									
		- 153.2 - 1/4" quartz-calcite veinlet, no visible sulphides.									
		- 153.5 - 168.1 - similar to 114.6 - 124.9.									
		- 161.7 - 164.2 - four 1" to 2" quartz-potash-feldspar-calcite veinlets with slight adjacent alteration. No visible sulphides.	6618		161.7	164.2	2.5			tr.	
		- 168.1 - 176.1 - tremolite-serpentine-talc, schistose, medium grey-green.									
		- 172.4 - 172.8 - three 1/4" potash-feldspar veinlets with minor quartz and calcite with calcite and potash alteration an inch into wall rock. No visible sulphides.	6619		172.1	173.1	1.0			tr.	

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-9 SHEET NO. 4 of 4

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 176.1 - 199.0 - medium grey-green, fine grained, dominantly tremolite with minor serpentine and phlogopite, few quartz veinlets parallel to foliation, no visible sulphides.									
		- 186.0 - 187.5 - several quartz-potash-feldspar-calcite veinlets (up to 1/2"). No visible sulphides.	6620		186.0	187.5	1.5			tr.	
			6621		196.0	199.0	3.0			tr.	
199.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-10 LENGTH 339'
 LOCATION 12+00NW 9+00SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -45.5°
 STARTED October 24, 1986 FINISHED October 26, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.5°				
339'	-36.2°				

HOLE NO. OP-86-10 SHEET NO. 1 of 2

REMARKS Summary Log

PA - 844238

LOGGED BY B. E. Elliott

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	oz/TON	oz/TON
					FROM	TO					TOTAL
0	36.0	<u>CASING</u>								
36.0	60.9	<u>FELSIC VOLCANICS (?)</u>								
60.9	83.4	<u>GARNET-BIOTITE METASEDIMENT</u>								
83.4	95.3	<u>ARGILLACEOUS QUARTZITE</u>								
95.3	126.1	<u>GARNET-BIOTITE METASEDIMENT</u>								
126.1	130.5	<u>ARGILLACEOUS QUARTZITE</u>								
130.5	142.4	<u>MAFIC VOLCANICS</u>								
142.4	146.4	<u>GARNET-BIOTITE METASEDIMENT</u>								
146.4	162.4	<u>MAFIC VOLCANICS</u>								
162.4	171.5	<u>GARNET-BIOTITE METASEDIMENT</u>								
171.5	177.9	<u>MAFIC VOLCANICS - minor pyrrhotite in quartz veinlets.</u>								
177.9	206.3	<u>GARNET-BIOTITE METASEDIMENT</u>								
206.3	218.5	<u>BANDED IRON FORMATION</u>								
218.5	233.2	<u>ULTRAMAFIC VOLCANICS</u>								
233.2	253.9	<u>BANDED IRON FORMATION</u>								
		- 236.8 - 237.2 - fracture filling of 5% sulphides - pyrite greater than pyrrhotite greater than chalcocyanite.								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-10 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON
					FROM	TO					TOTAL
253.9	258.1	<u>BIOTITE-GARNET METASEDIMENT</u> - 254.5 - 1/4" quartz veinlet with minor pyrite.								
258.1	292.5	<u>BANDED IRON FORMATION</u>								
292.5	294.5	<u>LAMPROPHYRE DIKE</u>								
294.5	316.0	<u>BANDED IRON FORMATION</u>								
316.0	318.0	<u>GARNET-BIOTITE METASEDIMENT</u>								
318.0	339.0	<u>ULTRAMAFIC VOLCANICS</u>								
339.0		End of Hole.								

DNTC - 366-1168

LANGRIDSSES

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-10 LENGTH 339'
 LOCATION 12+00NW 9+00SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -45.5°
 STARTED October 24, 1986 FINISHED October 26, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.5°				
339'	-36.2°				

HOLE NO. OP-86-10 SHEET NO. 1 of 7

REMARKS _____

PA - 844238

LOGGED BY B. E. Elliott

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO					TOTAL
0	36.0	<u>CASING</u>								
36.0	60.9	<u>FELSIC VOLCANICS (?) - medium grey, fine to very fine grained, weakly foliated. Commonly at 50° to core axis.</u> <u>Average Modes</u> Quartz 75 - 85% Biotite 15 - 20% Chlorite 0.5 - 1% Pyrrhotite trace Pyrrhotite occurs as fracture coatings. Abundant hairline carbonate filled fractures, some with narrow (less than 1/8") alteration halos. Many fractures are randomly oriented but several are between 30° to 40° to core axis. - 36.0 - 48.5 - typical. - 48.5 - 49.5 - light grey-green with decrease in biotite content. - 49.5 - 57.0 - typical. - 57.0 - 59.3 - several quartz-calcite veinlets, up to 2". No visible sulphides. Some veinlets parallel to foliation while others crosscut. Many fine quartz-calcite fractures cutting the veinlets. - 59.3 - 60.9 - typical.	6622		36.0	41.0	5.0			tr.
			6623		41.0	46.0	5.0			tr.
			6624		46.0	51.0	5.0			tr.
			6625		51.0	54.0	3.0			tr.
			6626		54.0	56.8	2.8			tr.
			6627		56.8	59.4	2.6			tr.
			6628		59.4	60.9	1.5			tr.
60.9	83.4	<u>GARNET-BIOTITE METASEDIMENT - medium to dark grey, medium to fine grained, moderately to strongly foliated, schistose.</u>	6629		60.9	65.9	5.0			tr.
			6630		65.9	70.9	5.0			tr.

SANGR DIES - YR. 10010 - 366-1166

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-10 SHEET NO. 2 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
		<u>Average Modes</u>								
		Quartz 30 - 40%	6631		70.9	75.9	5.0		tr.	
		Biotite 30 - 40%	6632		75.9	79.9	4.0		tr.	
		Garnet 10 - 15%	6633		79.9	83.4	3.5		tr.	
		Sericite 3 - 5%								
		Sulphide trace - 0.5%								
		Poikiloblastic garnets up to 0.1". Abundant hairline quartz-calcite fractures. Sulphides occur as fracture coatings and fine disseminations.								
83.4	95.3	<u>ARGILLACEOUS QUARTZITE</u> - medium grey, medium to fine grained, weakly foliated.	6634		83.4	87.4	4.0		tr.	
			6635		87.4	91.4	4.0		tr.	
			6636		91.4	95.3	3.9		tr.	
		Quartz 75 - 80%								
		Biotite 20 - 25%								
		Carbonate 2 - 5%								
		Sericite 1 - 3%								
		Garnet - 0.5%								
		Pyrite trace - 0.5%								
		Sparse poikiloblastic garnets. Unit grades from garnetiferous unit above into garnetiferous unit below. Carbonate occurs as fine veinlets and alteration patches. Abundant quartz grains display yellow staining.								
95.3	126.1	<u>GARNET-BIOTITE METASEDIMENT</u> - similar to unit 60.9 - 83.4 but with increased garnet content.								
		- 95.3 - 110.7 - 10-15% garnet.	6637		95.3	100.3	5.0		tr.	
		- 106.4 - quartz-carbonate veinlet with light green alteration halo, parallel to foliation, trace to 0.5% pyrite in alteration halo.	6638		100.3	105.3	5.0		tr.	
		- 109.0 - 2" quartz-carbonate vein, no visible sulphides.	6639		105.3	110.3	5.0		tr.	
		- 110.7 - 122.3 - 20-25% garnet, weakly banded, several well spaced narrow quartz veinlets, no visible sulphides.	6640		110.3	115.3	5.0		tr.	
			6641		115.3	120.3	5.0		tr.	
			6642		120.3	123.3	3.0		tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-10 SHEET NO. 3 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	OZ TON	GZ TON
					FROM	TO	TOTAL			
		- 122.3 - 126.1 - 10-15% garnet.	6643		123.3	126.1	2.8			tr.
126.1	130.5	<u>ARGILLACEOUS QUARTZITE</u> - similar to 83.4 - 95.3.	6644		126.1	130.5	4.4			tr.
130.5	142.4	<u>MAFIC VOLCANICS</u> - dark green-grey, fine to very fine grained, weakly foliated, commonly 55° to core axis.	6645		130.5	134.5	4.0			tr.
		<u>Average Modes</u>	6646		134.5	138.5	4.0			tr.
		Amphibole (dark green) 50 - 60%	6647		138.5	142.4	3.9			tr.
		Plagioclase 25%								
		Quartz 20%								
		Biotite 1 - 2%								
		Chlorite 1%								
		Pyrite trace								
		Several fine quartz-carbonate veinlets. Chlorite and pyrite as fracture coatings.								
142.4	146.4	<u>GARNET-BIOTITE METASEDIMENT</u> - similar to unit 60.9 - 83.4 but containing 10-15% garnet and 10-15% staurolite garnet overgrowths on staurolite.	6648		142.4	146.4	4.0			tr.
146.4	162.4	<u>MAFIC VOLCANICS</u> - similar to 130.5 - 142.4.								
		- 162.1 - 162.3 - quartz-carbonate veinlet with small fragments of wall rock visible - no visible sulphides.	6649		161.4	162.4	1.0			tr.
162.4	171.5	<u>GARNET-BIOTITE METASEDIMENT</u> - similar to unit 60.9 - 83.4 but containing 7-10% garnet, 7-10% staurolite.	6650		162.4	167.4	5.0			tr.
			6651		167.4	171.5	4.1			tr.
171.5	177.9	<u>MAFIC VOLCANICS</u> - similar to 130.5 - 142.4 but contains minor tremolite - numerous fine quartz veinlets both parallel to and crosscutting foliation.								
		- 174.0 - quartz veinlet with minor pyrrhotite.	6652		171.5	174.5	3.0			tr.
		- 177.4 - fine brecciated quartz-filled fracture.	6653		174.5	177.9	3.4			tr.

LANGRIDGE
 30NTC - 366-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-10 SHEET NO. 4 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
177.9	206.3	<p><u>GARNET-BIOTITE METASEDIMENT</u> - similar to 60.9 - 83.4 but with the following sub-types.</p> <p>- 177.9 - 185.5 - 15% garnet and local areas containing 3-4% staurolite, several 1" to 3" bands of typical mafic volcanics, several quartz veinlets with pyrite as fracture coatings and fine disseminations.</p> <p>- 184.5 - 185.5 - highly contorted interbeds of metasediments and volcanics.</p> <p>- 185.5 - 198.0 - 10-15% garnet, local areas with 5-7% staurolite, several 3" to 5" quartz (chert?) bands with fine interlamination within.</p> <p>- 198.0 - 206.3 - moderate to well defined compositional banding, garnet-rich bands and biotite-rich bands, 10-20% garnets, rare to no staurolite, increase in the abundance of quartz (chert?) bands, few very fine quartz-carbonate veinlets with trace pyrite.</p>	6654	177.9	182.9	5.0			.02		
			6655	182.9	187.9	5.0			tr.		
			6656	187.9	192.9	5.0			.02		
			6657	192.9	197.9	5.0			tr.		
			6658	197.9	202.9	5.0			tr.		
			6659	202.9	206.3	3.4			tr.		
206.3	213.2	<p><u>BANDED IRON FORMATION</u> - dark grey to black bands with pink garnets and dark grey-green bands (bedding), medium to fine grained, well banded, bands 2" to 4" thick, schistose, bands commonly 68° to core axis. Bands of chert and 5% magnetite, bands of biotite and 5% poikiloblastic garnets with or without dark amphibole. Minor to trace pyrite occurs as fracture coatings along bedding planes and as fine disseminations. Fine laminations occur within chert-magnetite bands. Chlorite and carbonate occur along bedding plane fractures. A few hairline carbonate veinlets occur along bedding planes but some are crosscutting. Minor pyrite, pyrrhotite and trace chalcopyrite occur within carbonate veinlets.</p>	6660	206.3	210.3	4.0			tr.		
			6661	210.3	213.2	2.9			.02		
213.2	218.5	<p><u>BANDED IRON FORMATION</u> - similar to 206.3 - 231.2 but has been intensely chloritized, little to no magnetite, similar carbonate veinlets with associated pyrite, pyrrhotite and chalcopyrite.</p>	6662	213.2	218.5	5.3			tr.		

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-10 SHEET NO. 5 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
218.5	233.9	<p><u>ULTRAMAFIC VOLCANICS</u> - medium grey, fine grained, schistose. Mineralogy is dominated by talc with subordinate serpentine and local areas of tremolite. Few faintly fragmental areas. Local sheared areas with carbonate filling fractures. No visible sulphides.</p> <p>- 218.5 - 221.5 - chloritized zone, no visible sulphides. - 232.6 - 5" quartz-carbonate vein.</p>	6663		232.0	233.2	1.2			tr.	
233.9	253.9	<p><u>BANDED IRON FORMATION</u> - similar to unit 206.3 - 213.2. Garnets up to 1/4". Chert-magnetite boudins. Few fine displacement fractures. Few quartz-carbonate veinlets parallel to and crosscutting banding.</p> <p>- 237.2 - 236.8 - 5% pyrite with minor pyrrhotite and trace chalcopyrite filling fractures. - 239.8 - 240.0 - shear zone with chlorite and carbonate alteration, banding destroyed. - 247.2 - 246.8 - similar shear zone as above.</p>	6664		233.2	238.2	5.0			tr.	
			6665		238.2	243.2	5.0			tr.	
			6666		243.2	247.2	4.0			tr.	
			6667		247.2	251.2	4.0			.01	
			6668		251.2	253.9	2.7			.04	
253.9	258.1	<p><u>BIOTITE-GARNET METASEDIMENT</u> - dark grey to black with few medium grey-green bands, fine to very fine grained, weakly schistose.</p> <p><u>Average Modes</u></p> <p>Biotite 70 - 75% Garnet 20% Calcite 5%</p> <p>Many fine pink poikiloblastic garnets dispersed evenly throughout the unit. Chloritic alteration along fractures.</p> <p>- 254.5 - 1/4" quartz vein with minor cubic pyrite.</p>	6669		253.9	255.9	2.0			tr.	
			6670		255.9	258.1	2.2			tr.	
258.1	292.5	<p><u>BANDED IRON FORMATION</u> - well banded, blue-grey to dark grey chert-magnetite bands and pale green to brown grunerite-rich bands, fine to very fine grained, bands ranging from 1" to 5" thick and commonly 68° to core axis. 60-65% chert, 20-25% grunerite, 10-15% magnetite. Carbonate occurs as fine veinlets parallel to and crosscutting banding and as a weakly pervasive alteration throughout unit. 1% pyrite and trace pyrrhotite occur as fracture fillings and coatings. Several 1" to 2" quartz veins, with no visible</p>									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-10 SHEET NO. 6 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON	
					FROM	TO	TOTAL				
		<p>sulphides. Local sheared areas where bedding ? partially destroyed.</p> <p>- 258.1 - 261.9 - typical, slight shearing.</p> <p>- 261.9 - 264.0 - moderate shearing.</p> <p>- 263.0 - 2 1/2" quartz vein.</p> <p>- 264.0 - 285.5 - typical, 1" bands of minor shearing.</p> <p>- 285.5 - 287.7 - strong shearing, numerous fine carbonate veinlets crosscutting banding, minor pyrite or pyrrhotite?</p> <p>- 287.4 - 1/2" quartz vein.</p> <p>- 287.7 - 292.5 - typical, many fine displacement fractures and brecciation.</p>									
292.5	294.5	<u>LAMPROPHYRE DIKE</u> - dark grey to black, fine grained with medium grained phenocrysts, massive, porphyritic. Chlorite and carbonate filled fractures and pervasive carbonate alteration.	6680		292.5	294.5	2.0			tr.	
294.5	316.0	<u>BANDED IRON FORMATION</u> - similar to 258.1 - 292.5, dominated by chert with magnetite and grunerite, many chert boudinage, sheared areas with highly contorted bands, few narrow bands of biotite with minor garnets.									
		- 294.5 - 296.0 - highly fractured with numerous carbonate veinlets containing minor pyrite and trace pyrrhotite.	6681		294.5	296.0	1.5			tr.	
		- 296.0 - 305.3 - typical.	6682		296.0	301.0	5.0			tr.	
		- 305.3 - 306.0 - sheared and contorted bands, bedding destroyed - minor pyrite and trace pyrrhotite.	6683		301.0	306.0	5.0			tr.	
		- 306.0 - 312.9 - highly contorted with many boudins, several 1/8" clots pyrite with minor pyrrhotite, minor chlorite and carbonate alteration along fracture.	6684 6685		306.0 311.0	311.0 314.0	5.0 3.0			tr. tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-10 SHEET NO. 7 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	OZ TON	OZ TON
					FROM	TO				TOTAL
		- 312.9 - 316.0 - typical.	6686		314.0	316.0	2.0		tr.
316.0	318.0	<u>GARNET-BIOTITE METASEDIMENT</u> - dark grey to black garnet-biotite bands dominated by biotite with poikiloblastic pink garnets and medium grey chert-rich layers, garnet-biotite bands range from 0.5" to 1" and chert-rich bands range from 1/4" to 2.5". Minor carbonate alteration. Minor pyrite and trace pyrrhotite as fine clots and as fracture coatings.	6687		316.0	318.0	2.0		tr.
318.0	339.0	<u>ULTRAMAFIC VOLCANICS</u> - medium grey to grey-green to green to dark grey, medium to fine grained, schistose. - 318.0 - 332.5 - medium grey to grey-green. Mineralogy dominated by talc and serpentine with minor tremolite. Few carbonate veinlets but no visible sulphides. - 332.5 - 339.0 - dark grey, medium to fine grained, very fine foliation, schistose. Mineralogy dominated by tremolite with major silicification. 70% tremolite, 25% quartz, 1-2% serpentine, 1-2% talc, 1% phlogopite, trace pyrite and pyrrhotite. - 332.4 - 333.4 - altered zone with phlogopite.	6688 6689		332.5 336.5	336.5 339.0	4.0 2.5		tr. tr.
339.0		End of Hole.							

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-11 LENGTH 289'
 LOCATION 11+03NW 8+98SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -47°
 STARTED October 28, 1986 FINISHED October 30, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-47.0°				
289'	-40.2°				

HOLE NO. OP-86-11 SHEET NO. 1 of 2

REMARKS Summary Log

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0	32.0	<u>CASING</u>									
32.0	39.5	<u>GARNETIFEROUS METASEDIMENT</u>									
39.5	40.7	<u>LOSS OF CORE</u>									
40.7	45.7	<u>FELSIC VOLCANICS</u>									
45.7	47.4	<u>GARNETIFEROUS METASEDIMENTS</u>									
47.4	51.8	<u>FELSIC VOLCANICS</u>									
51.8	89.4	<u>GARNETIFEROUS METASEDIMENTS</u> - 51.8 - 70.4 - 10-15% fine grained staurolite, trace pyrite.	6696		56.8	61.8	5.0			.06	
89.4	90.5	<u>MAFIC TO INTERMEDIATE VOLCANICS with METASEDIMENTS</u>									
90.5	139.5	<u>GARNETIFEROUS METASEDIMENTS</u>									
139.5	160.3	<u>BANDED IRON FORMATION</u>									
160.3	175.6	<u>ULTRAMAFIC VOLCANICS</u>									
175.6	185.7	<u>BANDED IRON FORMATION - 3-5% magnetite.</u>									
185.7	208.2	<u>BANDED IRON FORMATION - 10-15% magnetite.</u>									
208.2	213.0	<u>GARNETIFEROUS METASEDIMENT</u>									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-11 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
213.0	250.6	<u>BANDED IRON FORMATION</u>									
250.6	256.4	<u>LAMPROPHYRE DIKE</u>									
256.4	266.6	<u>BANDED IRON FORMATION</u>									
266.6	289.0	<u>ULTRAMAFIC VOLCANICS</u>									
289.0		End of Hole.									

J. Williams

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-11 LENGTH 289'
 LOCATION 11+03NW 8+98SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -47°
 STARTED October 28, 1986 FINISHED October 30, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-47.0°				
289'	-40.2°				

HOLE NO. OP-86-11 SHEET NO. 1 of 7

REMARKS _____

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	32.0	<u>CASING</u>									
32.0	39.5	<u>GARNETIFEROUS METASEDIMENTS</u> - dark grey, fine grained, well foliated to schistose. <u>Average Modes</u> Quartz 30 - 40% Biotite 25 - 35% Sericite 10 - 12% Garnet 7 - 10% Staurolite 1 - 3% Pyrite trace Garnet occurs as 1/16" to 1/8" poikiloblasts. Weak compositional banding indicated by garnet rich and garnet poor sections. Pyrite occurs as fracture coating.	6690		32.0	36.0	4.0			tr.	
			6691		36.0	39.5	3.5			tr.	
39.5	40.7	<u>LOSS OF CORE</u> - "mud seam"									
40.7	45.1	<u>FELSIC VOLCANIC</u> - dark grey, fine to very fine grained, weak to moderately foliated. <u>Average Modes</u> Quartz 30 - 40% Feldspar 20 - 30% Sericite 15 - 20% Amphibole 15 - 20% Biotite 3 - 5% Pyrite trace	6692		40.7	45.1	4.4			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-11 SHEET NO. 2 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		Several quartz and quartz-calcite-feldspar veinlets; (commonly at 50° to 55°). Pyrite occurs in veinlets.									
45.1	47.4	<u>GARNETIFEROUS METASEDIMENTS</u> - similar to 32.0 - 39.5, trace sulphides.	6693		45.1	47.4	2.3				tr.
47.4	51.8	<u>FELSIC VOLCANICS</u> - similar to 40.7 - 45.1, trace pyrite.	6694		47.4	51.8	4.4				tr.
51.8	89.4	<u>GARNETIFEROUS METASEDIMENTS</u> - similar to 32.0 - 39.5.									
		- 51.8 - 70.4 - increased staurolite content at 10-15%.	6695		51.8	56.8	5.0				tr.
			6696		56.8	61.8	5.0				.06
		- 70.4 - 74.0 - several quartz bands which are folded and boudinaged. Trace sulphides.	6697		61.8	66.8	5.0				tr.
			6698		66.8	71.8	5.0				tr.
		- 74.0 - 77.0 - typical with 15-20% garnets.	6699		71.8	76.8	5.0				tr.
		- 77.0 - 81.2 - 30-40% garnet poikiloblasts (up to 1/4")	6700		76.8	81.8	5.0				tr.
		- 81.2 - 83.4 - 10-15% garnets, 0.5-1% staurolite and several narrow quartz bands.	6701		81.8	85.4	3.6				tr.
		- 81.4 - 81.6 - quartz band, no visible sulphides.									
		- 83.4 - 86.9 - 20-25% garnet.									
		- 86.9 - 89.4 - 10-15% hornblende occurring in matrix between garnets.	6702		85.4	89.4	4.0				tr.
89.4	90.5	<u>MAFIC TO INTERMEDIATE VOLCANIC WITH METASEDIMENTS</u> - with typical metasediments are 1-3" interbeds of volcanics. Volcanics are medium grey-green, laminated, fine to very fine grained.	6703		89.4	90.5	1.1				tr.
		<u>Average Modes - for Volcanics</u>									
		Amphibole 60 - 70%									
		Plagioclase 15 - 20%									
		Quartz 15 - 20%									
		Amphibole is dominantly hornblende with actinolite.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-11 SHEET NO. 3 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON	
					FROM	TO					TOTAL
90.5	139.5	<p><u>GARNETIFEROUS METASEDIMENTS</u> - atypical, schistose with mineralogy as follows:</p> <p><u>Average Modes</u></p> <p>Biotite 30 - 40%</p> <p>Garnet 25 - 35%</p> <p>Hornblende 15 - 20%</p> <p>Quartz 10 - 15%</p> <p>Sulphide trace</p> <p>Quartz occurs mainly as narrow bands. Few hornblende bands.</p> <p>- 90.5 - 104.0 - poorly banded.</p> <p>- 104.0 - 131.2 - moderately banded with trace magnetite.</p> <p> - 123.0 - banding at 40° to core axis.</p> <p> - 130.0 - banding at 35° to core axis.</p> <p>- 131.2 - 139.5 - well banded with 15-20% chert bands, trace to 0.5% magnetite and trace to 0.5% grunerite at chert contact.</p>									
			6704		90.5	95.0	4.5			tr.	
			6705		95.0	100.0	5.0			tr.	
			6706		100.0	105.0	5.0			tr.	
			6707		105.0	110.0	5.0			tr.	
			6708		110.0	115.0	5.0			tr.	
			6709		115.0	120.0	5.0			tr.	
			6710		120.0	125.0	5.0			tr.	
			6711		125.0	128.0	3.0			tr.	
			6712		128.0	131.2	3.2			tr.	
			6713		131.2	135.5	4.3			tr.	
			6714		135.5	139.5	4.0			.03	
139.5	160.3	<p><u>BANDED IRON FORMATION</u> - the above sediment grading into this unit. Well banded, light grey, dark grey to black with pink garnets, and light pink-cream-green, fine grained.</p> <p><u>Average Modes</u></p> <p>Biotite 25 - 30%</p> <p>Garnet 25 - 30%</p> <p>Quartz 20 - 25%</p> <p>Hornblende 10 - 15%</p> <p>Magnetite 3 - 5%</p> <p>Grunerite 3 - 5%</p> <p>Calcite 1 - 3%</p> <p>Chlorite 0.5 - 1%</p> <p>Sulphides trace - 0.5%</p>									

LANGRIDDGES - PONTONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-11 SHEET NO. 4 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
				FROM	TO	TOTAL					
		Magnetite occurs as disseminated grains in recrystallized chert bands. Grunerite generally at the edge of chert bands. Pyrite and pyrrhotite occur in chloritic fractures as fillings and as coatings. Calcite occurs in bands, commonly with quartz. Garnets occur in biotite and hornblende bands as 1/8" to 1/4" poikiloblasts (from less than 20% to more than 70% of individual bands). Banding angle varies across the unit. Banding angles to the core axis are as follows: - 140.0 - 25° - 144.0 - 22° - 148.0 - 12° - 153.0 - 155.0 - nearly parallel (contorted). - 156.5 - 27° - 159.0 - 57° - 140.5 - two 1/8" bands containing limonite, pyrrhotite and euhedral hornblende crystals. - 153.0 - 156.0 - chlorite filled fracture nearly parallel to the core axis.									
			6715	139.5	144.0	4.5				.03	
			6716	144.0	149.0	5.0				tr.	
			6717	149.0	154.0	5.0				.02	
			6718	154.0	157.0	3.0				.02	
			6719	157.0	160.3	3.3				tr.	
160.3	175.6	<u>ULTRAMAFIC VOLCANIC</u> - light grey, fine grained, schistose, dominated by talc with minor serpentine. Few narrow bands of tremolite. Trace to 0.5% disseminated magnetite grains.									
175.6	185.7	<u>BANDED IRON FORMATION</u> - typical, similar to 139.5 to 160.3, with 2-4% magnetite.	6720	175.6	180.7	5.1				.01	
			6721	180.7	185.7	5.0				tr.	
175.7	208.2	<u>BANDED IRON FORMATION</u> - atypical, dark grey to black, moderately banded, finely laminated, fine to very fine grained. Consists mainly of bands of quartz-magnetite and biotite-magnetite with minor garnet.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-11 SHEET NO. 5 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON	
					FROM	TO					TOTAL
		<p><u>Average Modes</u></p> <p>Quartz 40 - 50%</p> <p>Biotite 20 - 25%</p> <p>Hornblende 15 - 20%</p> <p>Magnetite 10 - 15%</p> <p>Grunerite 1 - 3%</p> <p>Garnet 1 - 2%</p> <p>Pyrrhotite trace</p>									
		<p>Several quartz (recrystallized chert) bands are boudinaged. Pyrrhotite occurs in fractures and around boudins.</p>	6722		185.7	186.8	1.1			.02	
		<p>- 186.8 - 188.8 - brecciated and filled with calcite, ankerite, quartz and chlorite with trace pyrrhotite.</p>	6723		186.8	188.8	2.0			tr.	
			6724		188.8	193.2	4.4			.01	
			6725		193.2	198.2	5.0			tr.	
			6726		198.2	203.2	5.0			tr.	
			6727		203.2	208.2	5.0			tr.	
208.2	213.0	<p><u>GARNETIFEROUS METASEDIMENTS</u> - dominantly garnet-biotite schist with minor grunerite and trace to 0.5% magnetite. Compositionally banded and contains few well spaced chert bands. Garnets are small (most less than 1/8") and constitute 30-40% of the unit. No visible sulphides. Banding at 60° to core axis.</p>	6728		208.2	213.0	4.8			tr.	
213.0	250.6	<p><u>BANDED IRON FORMATION</u> - bands of light grey, dark grey and light cream-green; well banded, fine grained.</p> <p><u>Average Modes</u></p> <p>Quartz 40 - 50%</p> <p>Grunerite 20 - 25%</p> <p>Magnetite 15 - 20%</p> <p>Carbonate 10 - 15%</p> <p>Sulphides 0.5 - 1%</p>									
		<p>Bands of recrystallized chert and grunerite-magnetite with grunerite concentrating at boundary between chert and magnetite. Several sections are highly fractured with some brecciated. Calcite occurs in brecciated sections and as fracture fillings. Pyrrhotite and pyrite occur as fracture coatings and fillings.</p>									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. QP-86-11 SHEET NO. 6 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
250.6	256.4	- 213.0 - 221.4 - lean transition zone from above sediments (0.5 to 1% magnetite). 60-70% quartz with narrow bands, laminations and wisps of biotite-garnet and grunerite. 0.5-1% pyrrhotite.	6729		213.0	217.0	4.0			tr.
			6730		217.0	221.4	4.4			tr.
		- 221.4 - 229.7 - Banded Iron Formation - as described.	6731		221.4	225.7	4.3			tr.
			6732		225.7	230.7	5.0			tr.
		- 229.7 - 235.3 - well fractured with three 6" to 10" brecciated sections.	6733		230.7	233.5	2.8			.02
			6734		233.5	236.3	2.8			tr.
		- 235.3 - 250.6 - same as 221.4 - 229.7.	6735		236.3	240.6	4.3			tr.
		- 241.0 - banding at 62° to core axis.	6736		240.6	245.6	5.0			tr.
		- 248.0 - banding at 65° to core axis.	6737		245.6	250.6	5.0			tr.
			6738		250.6	254.2	3.6			tr.
	6739		254.2	256.4	2.2			tr.		
256.4	266.6	<u>LAMPROPHYRE DIKE</u> - two dikes at 251.0 to 251.5 and 251.9 to 254.2 with several 1/2" to 1 1/2" dikes above, between and below these. The dikes are dark grey, massive, porphyritic. Phenocrysts are dark with replacement by calcite common - calcite, chlorite and biotite dominating the matrix. 0.5-1% disseminated magnetite. Few dikes are concordant but many crosscut banded iron formation banding. The dikes are within typical banded iron formation as in 235.3 - 250.6.								
		- 257.7 - 257.9 - magnetic bands of banded iron formation are red and contain very fine grained hematite.								
		<u>BANDED IRON FORMATION</u> - similar to 235.3 - 250.6 but with strong alteration of magnetite to grunerite. 7-10% magnetite. Contains several bands of light cream-coloured chert bands. Trace to 0.5% pyrrhotite as fracture fillings.	6740		256.4	261.6	5.2			tr.
			6741		261.6	266.6	5.0			tr.
		- 258.0 - 260.6 - similar to 213.0 - 221.4, with 1-2% pyrrhotite.								
		- 265.9 - 266.2 - garnet-biotite schist.								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-11 SHEET NO. 7 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
266.6	289.0	<p><u>ULTRAMAFIC VOLCANICS</u> - similar to 160.3 - 175.6.</p> <p>- 266.6 to 266.9 - 15 to 20% phlogopite.</p> <p>- 266.9 to 279.0 - typical.</p> <p>- 279.0 to 289.0 - dark grey, fine grained, dominated by tremolite-actinolite with minor phlogopite.</p>									
289.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-12 LENGTH 335'
 LOCATION 11+00NW 10+00SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -50°
 STARTED October 31, 1986 FINISHED November 2, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-50.0°				
335'	-42.0°				

HOLE NO. OP-86-12 SHEET NO. 1 of 2

REMARKS Summary Log

PA - 844238

LOGGED BY B. E. Elliott

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH- IDES	FOOTAGE			%	%	oz/TON	oz/TON
					FROM	TO	TOTAL				
0	18.0	<u>CASING</u>									
18.0	26.4	<u>GARNET-BIOTITE METASEDIMENT</u>									
26.4	27.7	<u>MAFIC TO INTERMEDIATE INTERBED</u>									
27.7	44.6	<u>GARNET-BIOTITE METASEDIMENT</u>									
44.6	49.6	<u>MAFIC VOLCANIC</u>									
49.6	84.0	<u>GARNET-BIOTITE METASEDIMENT</u>									
84.0	85.9	<u>BIOTITE METASEDIMENT</u>									
85.9	111.4	<u>MAFIC VOLCANIC</u>									
111.4	175.2	<u>GARNET-BIOTITE METASEDIMENT - few 1/4" - 1/2" quartz and/or carbonate veins with minor to trace pyrite and pyrrhotite.</u> - 123.0 - 1/4" sulphide-rich zone - 10% pyrite, 4% pyrrhotite, arsenopyrite?, tourmaline? - 160.3 - 160.5 - quartz vein with 5% pyrite, 1% pyrrhotite, tourmaline?									
175.2	195.2	<u>LEAN IRON FORMATION</u>									
195.2	214.9	<u>ULTRAMAFIC VOLCANIC</u>									
214.9	259.0	<u>BANDED IRON FORMATION</u>									

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DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-12 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO	SULPH IDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
259.0	267.0	<u>GARNET-BIOTITE METASEDIMENT</u>									
267.0	314.4	<u>BANDED IRON FORMATION</u>									
314.4	335.0	<u>ULTRAMAFIC VOLCANIC</u>									
335.0		End of Hole.									

[Handwritten signature]

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-12 LENGTH 335'
 LOCATION 11+00NW 10+00SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -50°
 STARTED October 31, 1986 FINISHED November 2, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-50.0°				
335'	-42.0°				

HOLE NO. OP-86-12 SHEET NO. 1 of 9

REMARKS _____

PA - 844238

LOGGED BY B. E. Elliott

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO					TOTAL
0	18.0	<u>CASING</u>								
18.0	26.4	<u>GARNET-BIOTITE METASEDIMENT</u> - medium grey, fine grained, weak foliation, weak to no banding. <u>Average Modes</u> Biotite 60 - 70% Quartz 15 - 20% Garnet 5 - 15% Staurolite 1 - 5% Pyrite 1% Poikiloblastic garnets up to 1/4" diameter, localized patches with up to 5% staurolite. Few carbonate veinlets with trace pyrite. Minor pyrite as fracture coatings. Several 1/2" to 1" quartz veins. - 21.4 - 22.2 - highly silicified zone with carbonate patches and local chloritization along fracture planes, no visible sulphides.	6801		18.0	23.0	5.0			tr.
			6802		23.0	26.4	3.4			tr.
26.4	27.7	<u>MAFIC TO INTERMEDIATE INTERBED</u> - dark green-grey, fine grained, weak schistosity. <u>Average Modes</u> Actinolite 60 - 70% Plagioclase 10 - 15% Quartz 10 - 15% Sulphide trace	6803		26.4	27.7	1.3			tr.
27.7	29.0	<u>GRADATION OF MAFIC TO GARNET-BIOTITE METASEDIMENT</u>	6804		27.7	32.7	5.0			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-12 SHEET NO. 2 of 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
				FROM	TO	TOTAL					
29.0	44.6	<p><u>GARNET-BIOTITE METASEDIMENT</u> - medium grey to grey-green, fine grained, weakly banded, strong schistosity.</p> <p><u>Average Modes</u></p> <p>Biotite 70 - 75%</p> <p>Garnet 10 - 15%</p> <p>Staurolite 2 - 5%</p> <p>Sericite 2 - 3%</p> <p>Quartz 2 - 3%</p> <p>Pyrite trace</p> <p>Poikiloblastic garnets ranging up to 1/16" in diameter. Several fine carbonate veinlets with narrow bleached halos.</p> <p>- 33.5 - 34.3 - loss of core.</p>	6805		32.7	37.7	5.0				tr.
			6806		37.7	41.7	4.0				tr.
			6807		41.7	44.6	2.9				tr.
44.6	49.6	<p><u>MAFIC VOLCANIC</u> - medium green, medium to fine grained, weak schistosity.</p> <p><u>Average Modes</u></p> <p>Hornblende 75%</p> <p>Actinolite 10%</p> <p>Quartz 10%</p> <p>Chlorite 3 - 5%</p> <p>Intense green colour, few thin carbonate veinlets, no visible sulphides.</p>									
49.6	84.0	<p><u>GARNET-BIOTITE METASEDIMENT</u> - medium to dark grey, medium to fine grained, weak to moderate compositional banding, poikiloblastic garnets.</p> <p><u>Average Modes</u></p> <p>Biotite 70 - 75%</p> <p>Garnet 10 - 20%</p> <p>Staurolite 3 - 7%</p> <p>Quartz 2 - 5%</p>	6808		49.6	54.6	5.0				tr.
			6809		54.6	59.6	5.0				tr.
			6810		59.6	64.6	5.0				tr.
			6811		64.6	69.6	5.0				tr.
			6812		69.6	74.6	5.0				tr.
			6813		74.6	79.6	5.0				tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-12 SHEET NO. 3 of 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		<p>Sericite 1 - 3%</p> <p>Pyrite trace</p> <p>Pyrrhotite trace</p> <p>Pyrite and pyrrhotite occur as fracture coatings. Numerous 1/4" to 2" zones of chlorite and those of sericite.</p> <p>- 80.6 - 81.8 - silicified zone.</p>									
84.0	85.9	<p><u>BIOTITE METASEDIMENT</u> - medium grey, medium to fine grained, weakly foliated, schistose.</p> <p><u>Average Modes</u></p> <p>Biotite 75 - 85%</p> <p>Sericite 10%</p> <p>Quartz 5%</p> <p>Garnet 1 - 2%</p> <p>Few 1/4" quartz veinlets, unit silicified, minor carbonate alteration, no visible sulphides.</p>	6814		79.6	84.0	4.4			tr.	
		<p><u>MAFIC VOLCANIC</u> - dark green to grey, medium to fine grained, massive to weakly schistose.</p> <p><u>Average Modes</u></p> <p>Hornblende 65 - 75%</p> <p>Actinolite 10 - 20%</p> <p>Quartz 5 - 7%</p> <p>Biotite 2 - 3%</p> <p>Several 1/4" quartz-carbonate veinlets with minor pyrite and pyrrhotite. Pyrite and pyrrhotite also occur as fracture coatings.</p> <p>- 97.9 - 111.4 - 2" quartz-carbonate veins with minor pyrite and pyrrhotite.</p>	6815		84.0	85.9	1.9			tr.	
85.9	111.4										
		<p><u>GARNET-BIOTITE METASEDIMENT</u> - grey to dark grey to black, medium to fine grained, weakly to moderately banded, compositional</p>	6816		97.9	102.9	5.0			tr.	
			6817		102.9	107.9	5.0			tr.	
			6818		107.9	111.4	3.5			tr.	
111.4	175.2										

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-12 SHEET NO. 4 of 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	GT TON	GT TON
				FROM	TO	TOTAL			
		banding, well developed schistosity, poikiloblastic garnets.							
		<u>Average Modes</u>							
		Biotite 70 - 75%							
		Garnet 5 - 20%							
		Staurolite 3 - 7%							
		Quartz 2 - 5%							
		Pyrite trace - 1%							
		Pyrrhotite trace - 0.5%							
		- 111.4 - 117.8 - poorly banded, large 1/4" poikiloblastic garnets (5%), numerous 1/4" shear zones with fine interbands of sericite and carbonate, few 1/4" quartz veins. Biotite 80-85%, Garnet 5%, Quartz 2-3%, Staurolite 2-3%, Sulphides - trace.	6819		111.4	116.4	5.0		tr.
			6820		116.4	120.4	4.0		tr.
		- 117.8 - 129.0 - similar to 111.4 - 117.8 but 10% garnets.							
		- 119.0 - 119.3 - quartz-carbonate vein, no visible sulphides.	6821		120.4	122.5	2.1		tr.
		- 122.5 - 124.0 - sheared zone; at 123.0 up to 15% sulphides, 10% pyrite, 4% pyrrhotite, arsenopyrite?, tourmaline?, minor carbonate.	6822		122.5	124.0	1.5		tr.
			6823		124.0	129.0	5.0		tr.
		- 128.5 - 129.0 - amphibole-rich zone (15%).							
		- 129.0 - 175.2 - 20% garnet, 2% staurolite, 1" to 3" garnet-rich and garnet-poor bands define compositional banding, bands commonly 60° to core axis. Several interbands with 50-60% amphibole, fine grained, green, 3-5% garnet, silicified. Several contorted quartz veinlets with boudin-like structure. Several narrow shear zones with fine interlamination of carbonate and sericite.	6824		129.0	134.0	5.0		tr.
		- 134.9 - 135.2 - carbonate alteration.	6825		134.0	139.0	5.0		tr.
			6826		139.0	143.0	4.0		tr.
		- 136.4 - 137.4 - carbonate alteration.	6827		143.0	144.5	1.5		tr.
		- 143.7 - 144.0 - carbonate vein - fine clots of pyrite and pyrrhotite.	6828		144.5	149.5	5.0		tr.
			6829		149.5	154.5	5.0		tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-12 SHEET NO. 5 of 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	GZ TON	GZ TON		
					FROM	TO					TOTAL	
175.2	195.2	- 155.7 - 157.5 - several quartz veinlets with 3% pyrite, 0.5% pyrrhotite.	6830		154.5	159.5	5.0			tr.		
			6831		159.5	164.5	5.0			.02		
			6832		164.5	169.5	5.0			tr.		
			6833		169.5	172.5	3.0			tr.		
			6834		172.5	175.2	2.7			tr.		
				LEAN IRON FORMATION - dark green-grey to dark grey to black, medium to fine grained, weakly schistose to schistose, weak to well banded, poikiloblastic garnet.								
				<u>Average Modes</u>								
				Biotite 60 - 75%								
				Garnet 5 - 15%								
				Chert 10 - 15%								
		Grunerite 2 - 3%										
		Magnetite 0.5 - 2%										
		Pyrite trace - 2%										
		Pyrrhotite trace - 0.5%										
		Chalcopyrite trace										
		- 175.2 - 178.3 - 0.5% magnetite, 2" bands of biotite-garnet dominated by biotite with 10% garnet, 1/4" to 1/2" blue-grey bands of chert-magnetite, thin grunerite alteration halos around chert bands. Trace pyrite and pyrrhotite as fracture coatings.	6835		175.2	180.2	5.0			tr.		
		- 178.3 - 183.2 - 1-2% magnetite, 1" chert-magnetite bands. Increase in garnet size as move down unit and garnets begin to amalgamate.										
		- 179.7 - 1/4" shear zone with chloritization and minor pyrite and pyrrhotite as fracture coatings.	6836		180.2	185.2	5.0			tr.		
		- 182.2 - 183.2 - carbonate alteration and veinlets with minor pyrite and pyrrhotite.										
		- 183.2 - 187.2 - 0.5% magnetite; silicification, banding destroyed or highly contorted, garnets destroyed, amphibole alteration. Few carbonate veinlets with minor pyrite and pyrrhotite as fracture coatings.	6837		185.2	190.2	5.0			tr.		

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-12 SHEET NO. 6 of 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 187.2 - 193.1 - similar to above but alteration less pervasive i.e. patches with original banding. - 187.5 - 188.2 - carbonate veinlets with up to 2% pyrite, 0.5% pyrrhotite and trace chalcopyrite - 188.7 - 1/4" calcite vein with minor pyrite and pyrrhotite. - 191.2 - 1/4" chloritized shear with pyrite and pyrrhotite. - 193.1 - 195.2 - highly silicified, 1% garnet, no magnetite, very weak to no banding. Mineralogy dominated by quartz and dark amphibole. Minor pyrite and pyrrhotite as fracture coatings.									
195.2	214.9	ULTRAMAFIC VOLCANIC - light to medium grey-green, coarse to medium grained, few dark green bands, strong schistosity. <u>Average Modes</u> Talc 45% Serpentine 45% Tremolite 10% Local areas with up to 80% talc. Minor isolated clots of carbonate. No visible sulphides. - 195.6 - 195.7 - quartz vein. - 214.0 - 214.9 - chloritized zone.	6838		190.2	195.2	5.0			tr.	
214.9	259.0	BANDED IRON FORMATION - 214.9 - 223.3 - lean (0.5-1% magnetite), similar to 183.2 - 187.2, banding destroyed or highly contorted; garnets up to 1/2" in diameter and as large formless masses. - 223.3 - 231.6 - fine to very fine grained, well developed banding commonly 50° to core axis. Thin, 1/8" to 1/4", blue-grey chert-magnetite bands dominated	6839		195.2	196.2	1.0			tr.	
			6840		214.9	219.9	5.0			tr.	
			6841		219.9	224.9	5.0			tr.	
			6842		224.9	229.9	5.0			tr.	
			6843		229.9	234.9	5.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-12 SHEET NO. 7 of 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		by chert with 2-5% magnetite. Minor grunerite alteration along chert bands. 1/8" to 1" garnet-biotite bands with 70% biotite and 30% poikiloblastic garnets. Garnets 1/4" at top of unit and becoming very fine at base. Local areas with minor deformation of bands. Rare submicroscopic carbonate veinlets crosscutting banding; trace sulphide.									
		- 231.6 - 259.0 - fine to very fine grained, well banded, commonly 55° to core axis. 1/8" to 1", blue-grey to dark grey chert-magnetite bands with 5-8% magnetite. Finely interlaminated. Dark grey to black biotite-garnet bands up to 2" wide. Dominated by biotite with garnet content decreasing from top (10%) to base (2-3%). Very minor grunerite alteration. Several local areas of highly contorted bands. Few fine displacement fractures.									
		- 231.9 - 232.9 - minor carbonate-chlorite alteration with trace sulphide.									
		- 234.2 - 1/8" carbonate veinlet with trace pyrite as fracture coatings.	6844		234.9	239.9	5.0			tr.	
			6845		239.9	244.9	5.0			tr.	
		- 249.0 - 249.5 - fractured zone, submicroscopic carbonate filled fractures with fine clots of pyrite and pyrrhotite.	6846		244.9	249.9	5.0			tr.	
		- 249.5 - 259.0 - several of the above type zones - carbonate filled fractures with fine clots of pyrite and pyrrhotite.	6847		249.9	254.9	5.0			tr.	
			6848		254.9	259.0	4.1			tr.	
259.0	267.0	<u>GARNET-BIOTITE METASEDIMENT</u> - dark grey to black, medium to fine grained, foliated, schistose, weak compositional banding.	6849		259.0	264.0	5.0			tr.	
			6850		264.0	267.0	3.0			tr.	
		<u>Average Modes</u>									
		Biotite	55	-	60%						
		Garnet	35	-	40%						
		Quartz	2	-	3%						
		Magnetite	trace	-	0.5%						
		Sulphides	trace								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-12 SHEET NO. 8 of 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		Poikiloblastic, pink garnets (up to 1/16") distributed evenly throughout section. Minor carbonate throughout section. Sulphides as fracture coatings. Minor chlorite alteration. Few sub-microscopic carbonate veinlets. 0.5% magnetite near contact with underlying iron formation.									
267.0	314.4	BANDED IRON FORMATION - green to dark grey-green to black, fine to very fine grained, schistose, well bedded commonly 53° to core axis. Bands of chert, chert-magnetite and chert-grunerite. Local areas with up to 10% magnetite but usually 2-3%. Locally up to 25% grunerite but typically 5-10%.									
		- 267.0 - 278.6 - up to 25% grunerite, bands highly contorted, 0.5-1% magnetite. Numerous microscopic carbonate veinlets. Trace to minor pyrite as fracture coatings and rare clots.	6851		267.0	272.0	5.0				tr.
		- 272.0 - 274.3 - same as above.	6852		272.0	277.0	5.0				tr.
		- 274.3 - 1/2" quartz vein.									
		- 276.6 - 279.8 - intense carbonate alteration, 1% pyrite, trace pyrrhotite.	6853		277.0	282.0	5.0				tr.
		- 279.8 - 291.3 - 2-3% magnetite, 6-7% grunerite, many chert boudins. Numerous displacement fractures filled with carbonate and associated wispy veinlets of pyrite and pyrrhotite.									
		- 284.3 - quartz veinlet with hematite (?) stain.	6854		282.0	287.0	5.0				tr.
		- 286.3 - 2" quartz vein.									
		- 291.3 - 314.4 - 7-10% magnetite, 2-3% grunerite, many chert boudins and displacement fractures, few carbonate veinlets with minor pyrite and pyrrhotite.	6855		287.0	292.0	5.0				tr.
		- 292.0 - 297.0 - same as above.	6856		292.0	297.0	5.0				tr.
		- 297.0 - 1" carbonate vein with 1% pyrite and trace pyrrhotite.	6857		297.0	302.0	5.0				tr.
		- 302.0 - 311.7 - same as above.	6858		302.0	307.0	5.0				tr.
		- 311.7 - fine clots of pyrite and pyrrhotite.	6859		307.0	312.0	5.0				tr.
		- 313.7 - same as above.	6860		312.0	314.4	2.4				tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-12 SHEET NO. 9 of 9

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
314.4	335.0	<p><u>ULTRAMAFIC VOLCANIC</u> - medium to dark grey, fine to medium grained.</p> <p>- 314.4 - 326.7 - mineralogy dominated by talc with subordinate serpentine and tremolite.</p> <p>- 326.7 - 335.0 - mineralogy dominated by serpentine and tremolite with up to 15% phlogopite.</p> <p>- 330.9 - 1/4" carbonate vein.</p>	6861		330.3	331.3	1.0			tr.	
335.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-13 LENGTH 299'
 LOCATION 10+00NW 9+95SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -50°
 STARTED November 3, 1986 FINISHED November 5, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-50.0°				
299'	-40.2°				

HOLE NO. OP-86-13 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	oz/TON	oz/TON
					FROM	TO	TOTAL				
0	32.0	<u>CASING</u>									
32.0	43.5	<u>GARNETIFEROUS METASEDIMENTS</u>									
43.5	44.5	<u>FELSIC VOLCANICS</u>									
44.5	79.0	<u>MAFIC TO INTERMEDIATE VOLCANICS</u>									
79.0	125.7	<u>GARNETIFEROUS METASEDIMENTS</u>									
125.7	153.1	<u>BANDED IRON FORMATION</u>									
153.1	161.6	<u>ULTRAMAFIC VOLCANICS</u>									
161.6	206.4	<u>BANDED IRON FORMATION</u>									
206.4	213.1	<u>GARNET-BIOTITE SCHIST</u>									
213.1	265.4	<u>BANDED IRON FORMATION</u>									
265.4	299.0	<u>ULTRAMAFIC VOLCANICS</u>									
299.0		End of Hole.									

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DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-13 LENGTH 299'
 LOCATION 10+00NW 9+95SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -50°
 STARTED November 3, 1986 FINISHED November 5, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-50.0°				
299'	-40.2°				

HOLE NO. OP-86-13 SHEET NO. 1 of 6

REMARKS _____

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	32.0	<u>CASING</u>									
32.0	43.5	<u>GARNETIFEROUS METASEDIMENTS</u> - medium grey-brown, fine grained, schistose. <u>Average Modes</u> Quartz 30 - 40% Sericite 25 - 35% Biotite 15 - 25% Garnet 5 - 7% Staurolite 1 - 2% Chlorite 0.5 - 1% Pyrite trace Garnets occur as subhedral poikiloblasts. Pyrite occurs as fracture coatings. 1-2% silicified bands at 32.4 and 41.4. Bands are dominantly quartz with remnant foliation and garnets present. No visible sulphides.	6742		32.0	36.0	4.0			tr.	
			6743		36.0	40.0	4.0			tr.	
			6744		40.0	43.5	3.5			tr.	
43.5	44.5	<u>FELSIC VOLCANIC</u> - moderately banded with light and dark grey bands, fine grained. Dominantly quartz with 5-7% biotite and 0.5-1% garnet (Tuff?). No visible sulphides.	6745		43.5	44.5	1.0			tr.	
44.5	79.0	<u>MAFIC TO INTERMEDIATE VOLCANICS</u> - medium grey-green, fine grained, massive to poorly laminated. Probably tuff. <u>Average Modes</u> Amphibole 60 - 70% Plagioclase 15 - 20% Quartz 15 - 20%									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-13 SHEET NO. 2 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	GZ TOM	GZ TOM
					FROM	TO	TOTAL				
		Calcite trace - 0.5% Pyrite trace									
		The amphibole is dominantly actinolite with minor hornblende. Calcite occurs in fine quartz-calcite veinlets. Pyrite is fine grained and disseminated.									
		- 47.7 - 48.7 - several quartz-calcite veinlets with minor biotite. Contains 1-2% pyrrhotite and trace chalcopyrite.	6746		47.5	49.0	1.5				tr.
		- 67.0 - laminated at 70° to core axis.									
		- 76. - 1" quartz vein, no visible sulphides.	6747		76.3	78.3	2.0				tr.
		- 78.0 - 1" quartz vein, no visible sulphides.									
79.0	125.7	<u>GARNETIFEROUS METASEDIMENTS</u> - dark grey, fine grained with coarse pink grains, massive to weakly banded, schistose.									
		<u>Average Modes</u>									
		Biotite 30 - 40%									
		Garnet 25 - 35%									
		Quartz 15 - 20%									
		Hornblende 2 - 4%									
		Grunerite 1 - 3%									
		Pyrite trace									
		Biotite and quartz form matrix for 1/16" to 1/8" garnet poikiloblasts. Few narrow isolated chert bands. Amphiboles occur in hornblende-garnet bands with grunerite within the band and at border of band.									
		- 79.0 - 88.4 - 2-4% staurolite and 3-5% sericite.	6748		79.0	84.0	5.0				tr.
			6749		84.0	89.0	5.0				tr.
		- 88.4 - 125.7 - typical, weak compositional banding.	6750		89.0	90.0	1.0				tr.
			6751		90.0	95.0	5.0				tr.
		- 89.4 - 1/2" pyrrhotite-rich band, adjacent quartz band.	6752		95.0	100.0	5.0				tr.
			6753		100.0	105.0	5.0				.01
			6754		105.0	110.0	5.0				tr.
			6755		110.0	115.0	5.0				.04

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-13 SHEET NO. 3 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS																																				
FROM	TO		NO.	% SULPHIDES	FOOTAGE	%	%	OZ TON	OZ TON																																	
				FROM	TO	TOTAL																																				
125.7	153.1	<p>BANDED IRON FORMATION - moderate to well banded, light cream-green, dark grey and dark green to black with coarse pink grains, fine to very fine grained. Bands of chert, garnet-hornblende-biotite-grunerite and grunerite-magnetite. Bands are moderately contorted.</p> <p><u>Average Modes</u></p> <table border="0"> <tr><td>Garnet</td><td>20</td><td>-</td><td>25%</td></tr> <tr><td>Quartz</td><td>20</td><td>-</td><td>25%</td></tr> <tr><td>Hornblende</td><td>20</td><td>-</td><td>25%</td></tr> <tr><td>Biotite</td><td>10</td><td>-</td><td>15%</td></tr> <tr><td>Grunerite</td><td>10</td><td>-</td><td>15%</td></tr> <tr><td>Magnetite</td><td>2</td><td>-</td><td>4%</td></tr> <tr><td>Calcite</td><td>0.5</td><td>-</td><td>1%</td></tr> <tr><td>Pyrite</td><td></td><td></td><td>trace</td></tr> </table> <p>Composition grades from that of the overlying unit. Calcite occurs in bands and along fractures. Pyrite occurs as fracture coatings.</p> <p>- 125.7 - 135.0 - typical.</p> <p>- 126.0 banded at 70° to core axis.</p> <p>- 135.0 - 145.0 - similar with 5-7% magnetite.</p> <p>- 137.4 - 2" shear with calcite mineralization and few disseminated pyrite blebs.</p> <p>- 145.0 - 150.8 - 2-4% magnetite, poorly banded with larger garnets.</p> <p>- 150.8 - 153.1 - 0.5-1% magnetite, 0.5-1% grading to nil garnet, moderately banded.</p>	Garnet	20	-	25%	Quartz	20	-	25%	Hornblende	20	-	25%	Biotite	10	-	15%	Grunerite	10	-	15%	Magnetite	2	-	4%	Calcite	0.5	-	1%	Pyrite			trace	6756		115.0	120.0	5.0			.02
			Garnet	20	-	25%																																				
			Quartz	20	-	25%																																				
			Hornblende	20	-	25%																																				
			Biotite	10	-	15%																																				
			Grunerite	10	-	15%																																				
			Magnetite	2	-	4%																																				
			Calcite	0.5	-	1%																																				
			Pyrite			trace																																				
			6757		120.0	125.0	5.0			tr.																																
6758		125.0	129.0	4.0			tr.																																			
6759		129.0	133.0	4.0			.01																																			
6760		133.0	137.0	4.0			tr.																																			
6761		137.0	138.0	1.0			.02																																			
6762		138.0	143.0	5.0			tr.																																			
6763		143.0	148.0	5.0			tr.																																			
6764		148.0	153.1	5.1			tr.																																			
153.1	161.6	<p>ULTRAMAFIC VOLCANIC - medium green, fine grained, schistose, dominantly talc with minor serpentine and 2-4% carbonate. Carbonate is both disseminated and in veinlets. No visible sulphides.</p>																																								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-13 SHEET NO. 4 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
161.6	206.4	BANDED IRON FORMATION - atypical with trace to 0.5% grunerite, trace sulphides.									
		- 161.6 - 170.2 - similar to 135.0 - 145.0, with trace grunerite.	6765		161.6	166.2	4.6				tr.
		- 166.7 - 167.8 - calcite-quartz veinlet, no visible sulphides, conformable.	6766		166.2	170.2	4.0				tr.
		- 168.3 - 168.6 - several calcite-quartz veinlets.									
		- 170.2 - 190.0 - well banded with interband laminations. Well defined chert and magnetite laminations in iron-rich bands. Several boudinaged chert bands.	6767		170.2	175.0	4.8				.03
			6768		175.0	180.0	5.0				tr.
			6769		180.0	185.0	5.0				.02
			6770		185.0	190.0	5.0				tr.
		Mineralogy of this unit is as follows:									
		<u>Average Modes</u>									
		Quartz 40 - 50%									
		Biotite 15 - 20%									
		Magnetite 15 - 20%									
		Hornblende 10 - 15%									
		Garnet 5 - 7%									
		Calcite trace - 0.5%									
		Sulphides trace									
		- 174.0 - banded at 55° to core axis.									
		- 187.0 - banded at 63° to core axis.									
		- 190.0 - 202.0 - similar to above with decrease in garnet-biotite-hornblende to comprise 20-25%. Several microfractures with up to 1/4" displacement. At 194.0 a small bleb of pyrrhotite has developed in one of the areas of displacement. No consistent direction of movement.	6771		190.0	195.0	5.0				tr.
			6772		195.0	200.0	5.0				.01
		- 197.5 - banded at 70° to core axis.	6773		200.0	203.4	3.4				.01
		- 202.0 - 206.4 - several bands are very finely laminated to near	6774		203.4	206.4	3.0				tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-13 SHEET NO. 5 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS																													
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	0.1 TON	0.2 TON																								
				FROM	TO	TOTAL																													
206.4	213.1	<p>massive and nearly parallel to core axis from 203.5 to 205.6.</p> <p>GARNET-BIOTITE SCHIST - black with light grey to pink garnets (1/32 to 1/16"), fine grained, moderate compositional banding (commonly at 60° to 65° to core axis).</p> <p><u>Average Modes</u></p> <table border="0"> <tr><td>Biotite</td><td>40</td><td>-</td><td>50%</td></tr> <tr><td>Garnet</td><td>30</td><td>-</td><td>40%</td></tr> <tr><td>Amphibole</td><td>10</td><td>-</td><td>15%</td></tr> <tr><td>Quartz</td><td>1</td><td>-</td><td>3%</td></tr> <tr><td>Magnetite</td><td>1</td><td>-</td><td>2%</td></tr> <tr><td>Sulphides</td><td>trace.</td><td></td><td></td></tr> </table> <p>Pyrite occurs as fracture coatings.</p>	Biotite	40	-	50%	Garnet	30	-	40%	Amphibole	10	-	15%	Quartz	1	-	3%	Magnetite	1	-	2%	Sulphides	trace.			6775		206.4	209.4	3.0			tr.	
Biotite	40	-	50%																																
Garnet	30	-	40%																																
Amphibole	10	-	15%																																
Quartz	1	-	3%																																
Magnetite	1	-	2%																																
Sulphides	trace.																																		
			6776		209.4	213.1	3.7			.02																									
213.1	265.4	<p>BANDED IRON FORMATION - similar to mineralogy of 190.0 to 202.0 but well banded and weak to indistinct interband laminations. 5-7% grunerite most often at boundary between magnetite-rich band and chert bands. 0.5-1% pyrrhotite as fracture fillings and in highly contorted sections.</p> <p>- 213.1 - 216.6 - as described but with several 1" to 2" biotite-garnet bands.</p> <p>- 213.2 - 213.6 - quartz-calcite veinlets. (1/16") at 20° to core axis.</p> <p>- 216.6 - 224.8 - moderate to poorly banded with garnet-biotite and magnetite-grunerite occurring as highly irregular bands, networks and wisps. Strong alteration of magnetite to grunerite. 0.5-1% pyrrhotite as fracture fillings and in band dilations in contorted zones.</p> <p>- 224.8 - 225.8 - typical.</p>	6777		213.1	217.1	4.0			.02																									
			6778		217.1	221.1	4.0			tr.																									
			6779		221.1	225.6	4.5			tr.																									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-13 SHEET NO. 6 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 225.8 - 226.4 - brecciated with quartz-carbonate filling.	6780		225.6	226.6	1.0			tr.	
		- 226.4 - 228.8 - typical.	6781		226.6	228.8	2.2			tr.	
		- 228.8 - 232.0 - abundant calcite veinlets and fracture fillings.	6782		228.8	232.0	3.2			tr.	
		- 232.0 - 263.0 - dominantly quartz and quartz-magnetite bands with hornblende bands. 3-5% grunerite, weak to moderate band contortion with boudinaging of quartz bands (recrystallized chert) common, several calcite and chlorite veinlets.	6783		232.0	237.0	5.0			tr.	
			6784		237.0	242.0	5.0			tr.	
			6785		242.0	247.0	5.0			tr.	
			6786		247.0	252.0	5.0			tr.	
			6787		252.0	257.0	5.0			tr.	
			6788		257.0	262.0	5.0			tr.	
		- 263.0 - 265.4 - abundant garnet-biotite bands (20-30% of unit) which are 1/8" to 1/4" wide.	6789		262.0	265.4	3.4			tr.	
265.4	299.0	<u>ULTRAMAFIC VOLCANICS</u>									
		- 265.4 - 272.5 - similar to 153.1 to 161.6.									
		- 272.5 - 299.0 - medium grey with brown foliations, fine to very fine grained, dominantly tremolite with minor phlogopite. Few quartz veinlets. No visible sulphides associated with the veinlets.	6790		265.4	267.4	2.0			tr.	
			6791		282.9	287.9	5.0			.01	
		- 294.8 - 295.0 - quartz vein with calcite at edge of vein. No visible sulphides.	6792		294.6	296.1	1.5			tr.	
		- 295.6 - 295.7 - quartz vein with minor calcite. No visible sulphides.	6793		298.0	299.0	1.0			.02	
299.0		End of Hole.									

LANGRIDDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-14 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON
				FROM	TO	TOTAL				
219.0	223.0	<u>MAFIC TO INTERMEDIATE TUFF?</u>								
223.0	233.9	<u>MAFIC TO ULTRAMAFIC VOLCANIC</u>								
233.9	237.1	<u>ULTRAMAFIC VOLCANIC</u>								
237.1	243.9	<u>MAFIC VOLCANIC</u>								
243.9	247.1	<u>BANDED IRON FORMATION</u>								
247.1	269.0	<u>ULTRAMAFIC VOLCANIC</u>								
269.0		End of Hole.								

[Handwritten Signature]

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-14 LENGTH 269'
 LOCATION 9+00NW 8+99SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -47.5°
 STARTED November 6, 1986 FINISHED November 9, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-47.5°				
269'	-38.3°				

HOLE NO. OP-86-14 SHEET NO. 1 of 8

REMARKS _____

PA - 844238

LOGGED BY B. E. Elliott

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	36.4	<u>CASING</u>									
36.4	49.5	<u>GARNET-BIOTITE METASEDIMENT</u> - medium grey to dark grey to black, medium to fine grained, weakly to moderately banded, schistose. <u>Average Modes</u> Biotite 30 - 40% Grunerite 20 - 25% Quartz 15 - 20% Garnet 10 - 15% Magnetite trace - 0.5% Pyrite trace 0.5% Pyrrhotite trace Banding highly contorted. Intense silicification and grunerite alteration. Garnets up to 1/4" in diameter and as large formless masses. Pyrite and pyrrhotite as fracture coatings. - 45.6 - 1/4" quartz vein with trace pyrite. - 45.8 - very fine veinlets of pyrite with trace pyrrhotite. - 48.7 - similar to above.	6862		36.4	41.4	5.0			.01	
			6863		41.4	46.4	5.0			.02	
			6864		46.4	51.4	5.0			.02	
49.5	50.2	<u>MAFIC VOLCANIC</u> - dark grey-green, fine grained, massive. <u>Average Modes</u> Actinolite 85% Plagioclase 15%									

LANGRIDGE - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO OP-86-14 SHEET NO 2 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	02 TON	02 TON
				FROM	TO	TOTAL				
50.2	50.7	<u>GARNET-BIOTITE METASEDIMENT</u> - similar to 30.4 - 49.5.								
50.7	67.0	<u>ULTRAMAFIC VOLCANIC</u> - medium grey-green, fine to medium grained, weakly foliated, localized crenulation folding, schistose. <u>Average Modes</u> Talc 75% Serpentine 20% Tremolite 5% Circular clots of serpentine. Few patches of hematitic staining. Few carbonate veinlets with minor chlorite. No visible sulphides.	6865	63.2	67.0	3.8				tr.
67.0	72.3	<u>MAFIC VOLCANIC</u> - dark grey-green to dark grey, fine grained, fine foliation. <u>Average Modes</u> Actinolite 75% Phlogopite 20% Plagioclase 5%								
72.3	100.5	<u>BANDED IRON FORMATION</u> - blue-grey to dark grey bands, fine grained, well banded, fine inter laminations. - 72.3 - 82.8 - banding highly contorted, localized areas where banding not contorted. 60% garnet-biotite bands and 40% chert-magnetite bands. Fine grunerite alteration between bands. Garnet-biotite bands composed of 45% garnet, 40% biotite, 5% grunerite, trace-1% pyrite, trace pyrrhotite. 2-5% magnetite in chert bands. - 75.8 - banding 63° to core axis. - 76.8 - 77.3 - silicification and carbonate alteration, hornblende-rich, minor chlorite, 2% magnetite. Numerous wispy quartz veinlets. - 77.3 - quartz veinlet with 2% pyrrhotite.	6866	72.3	77.3	5.0				tr.
			6867	77.3	82.3	5.0				.01

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-14 SHEET NO. 3 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 82.8 - 90.7 - decrease in garnets (5%), 50% biotite-garnet bands (1/4" to 1/2"), 50% chert-magnetite bands (1/4" to 1"), 7-10% magnetite, banding undeformed, poikiloblastic garnets less than 1/16", chert boudins, fine interlamination within chert bands.									
		- 84.7 - 85.7 - several carbonate veinlets with trace sulphides.	6868		82.3	87.3	5.0			.01	
			6869		87.3	92.3	5.0			tr.	
		- 90.7 - 100.5 - similar to 82.8 - 90.7 but with trace to 2% garnets. Rare fine displacement fractures. Numerous carbonate & chlorite veinlets. Trace pyrite as fracture coatings and as rare fine clots.	6870		92.3	97.3	5.0			tr.	
			6871		97.3	100.5	3.2			tr.	
100.5	104.7	<u>GARNET-BIOTITE METASEDIMENT</u> - medium grey to black, fine grained, weak compositional banding defined by biotite-rich and garnet-rich bands.	6872		100.5	104.7	4.2			tr.	
		<u>Average Modes</u>									
		Biotite 70%									
		Garnet 30%									
		Magnetite trace - 1%									
		Pyrite trace									
		Poikiloblastic (1/32") garnets. Pyrite as fracture coatings. Increase in chert content near base of section.									
104.7	133.7	<u>BANDED IRON FORMATION</u>									
		- 104.7 - 119.0 - green grunerite-rich bands, dark grey to black biotite-garnet bands, blue-grey chert-magnetite bands, fine grained, poorly defined bands.									
		<u>Average Modes</u>									
		Chert 50%									
		Grunerite 25%									
		Biotite 10%									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-14 SHEET NO. 4 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	OZ TON	GZ TON
					FROM	TO	TOTAL			
		Magnetite 1 - 3% Garnet 5 - 15% Carbonate 5% Pyrite 2% Pyrrhotite trace								
		Section dominated by chert and grunerite. Sheared areas with many chert boudins with up to 15% garnet and 15% hornblende. Carbonate augens. Numerous wispy carbonate veinlets. Pyrite and pyrrhotite as fracture coatings and fine clots. Minor chlorite along fractures.	6873		104.7	109.7	5.0		tr.	
			6874		109.7	114.7	5.0		tr.	
			6875		114.7	119.7	5.0		tr.	
		- 116.0 - 3" quartz vein, no visible sulphides.								
		- 119.0 - 133.7 - green to grey to dark grey bands, fine to very fine grained, well banded (1/4" to 1/16")								
		<u>Average Modes</u>								
		Chert 50 - 60%								
		Grunerite 15 - 20%								
		Magnetite 10 - 15%								
		Biotite 2 - 3%								
		Carbonate 2 - 3%								
		Pyrite 2%								
		Pyrrhotite trace								
		Chalcopyrite trace								
		- 119.5 - 120.0 - quartz vein with minor pyrite and chlorite as fracture coatings and pyrite as fine clots.	6876		119.7	124.7	5.0		.01	
		- 120.3 - 1/4" carbonate-chlorite veinlet with minor pyrite as fracture coatings and very fine clots.								
		- 121.0 - 133.7 - highly fractured and brecciated many fine displacement fractures, numerous carbonate veinlets and fracture fillings. Several very fine clots and veinlets with pyrite and pyrrhotite? Few narrow (less than 1/4")	6877		124.7	129.7	5.0		tr.	
			6878		129.7	133.4	3.7		tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-14 SHEET NO. 5 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
		sheared areas with chlorite-carbonate and pyrite as coatings and fine disseminations.								
		- 125.0 - 125.7 - carbonate-albite-chlorite alteration zone with fine clots and veinlets.								
133.7	133.9	<u>LAMPROPHYRE DIKE</u> - dark grey to black, fine grained matrix with medium grained black phenocrysts, 0.5% disseminated pyrite, carbonate filled fractures with fine grained disseminated pyrite.	6879		133.4	134.4	1.0			tr.
133.9	153.3	<u>BANDED IRON FORMATION</u> - similar to 104.7 - 133.7.								
		- 133.9 - 134.6 - pervasive carbonate as fracture fillings. Clots and fracture fillings of pyrite and pyrrhotite.	6880		134.4	135.9	1.5			tr.
		- 134.6 - 134.9 - quartz vein with 0.5% pyrrhotite as wispy fracture fillings.								
		- 135.0 - 135.5 - quartz vein with trace sulphide.								
		- 134.9 - 149.0 - 15% magnetite, banding less contorted, only minor fracturing, chert boudins, minor small scale folding, few fine carbonate veinlets and fracture fillings, fine fractures with pyrite and trace pyrrhotite, few narrow carbonate-chlorite shears.	6881		135.9	140.9	5.0			tr.
		- 137.2 - banding approximately 63° to core axis.	6882		140.9	145.9	5.0			tr.
		- 145.0 - 1" quartz vein with 2% pyrite and 0.5% pyrrhotite as fine clots and fracture fillings.	6883		145.9	150.9	5.0			tr.
		- 148.5 - banding 55° to core axis.								
		- 149.0 - 153.3 - banding becoming increasingly parallel to core axis, being approximately parallel at 153.5; carbonate-chlorite shears; minor pyrite and trace pyrrhotite as clots and fracture coatings.	6884		150.9	153.3	3.4			tr.
		- 151.8 - 153.5 - 2-3% magnetite, highly chloritized, 5% pyrite with 1% pyrrhotite as veinlets, fracture coatings and clots. Several carbonate veinlets parallel to core axis.								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-14 SHEET NO. 6 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
153.3	164.9	<p><u>ULTRAMAFIC VOLCANIC</u> - light grey-green to medium grey-green, medium to fine grained, weakly foliated to massive.</p> <p><u>Average Modes</u></p> <p>Talc 65% Tremolite 15% Serpentine 10% Carbonate (Magnesite?) 10%</p> <p>Numerous clots and stringers of carbonate.</p> <p>- 156.0 - 157.6 - loss of core - mud seam. - 163.6 - 164.9 - sheared zone, fractured and brecciated, intense chlorite alteration; fractures filled with lamprophyre.</p>									
164.9	166.5	<p><u>LAMPROPHYRE DIKE</u> - similar to 133.7 - 133.9.</p>	6885		163.6	167.4	3.8			tr.	
166.5	203.6	<p><u>MAFIC TO ULTRAMAFIC VOLCANIC</u> - (possible Mafic Tuff?) - medium to dark green-grey, very fine grained, very fine foliation (possible banding?), faint compositional banding.</p> <p><u>Average Modes</u></p> <p>Tremolite-Actinolite 70% Phlogopite 10% Serpentine 10% Carbonate 5% Biotite up to 5%</p> <p>Poorly developed compositional banding defined by bands of tremolite-actinolite and bands of biotite-phlogopite. Increase in mica near base of section. Few carbonate-chlorite veinlets with minor pyrite as fine disseminations and as fracture coatings.</p> <p>- 179.6 - 182.6 - silicified zone with series of 1/4" to 1" quartz veins, trace disseminations of pyrite and pyrrhotite.</p>	6886		179.6	184.6	5.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-14 SHEET NO. 7 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
203.6	205.9	<u>MAFIC TO ULTRAMAFIC SHEAR ZONE</u> - 2" bands of undisturbed mafics as in previous unit but highly silicified and contorted bands with boudin-like structures containing 2-3% garnet and quartz-potash-feldspar? veins. Mineralogy dominated by quartz and actinolite with minor garnet, biotite and carbonate. Up to 5% phlogopite near base of section. Quartz veins contain up to 5% pyrite, 0.5% pyrrhotite and trace chalcopyrite.	6887		203.6	205.9	2.3			tr.	
205.9	216.9	<u>ULTRAMAFIC VOLCANIC</u> - similar to 153.3 - 164.9.									
216.9	219.0	<u>MAFIC TO ULTRAMAFIC VOLCANIC</u> - similar to 166.5 - 203.6.									
219.0	223.0	<u>MAFIC TO INTERMEDIATE TUFF ?</u> - medium grey-green to dark grey to blue-grey, fine to very fine grained, well banded, bands less than 1/4" to 1/2". <u>Average Modes</u> Tremolite-Actinolite 65% Chert 30% Phlogopite 5% Blue-grey chert bands and grey-green to dark grey tremolite-actinolite bands ± phlogopite. Minor carbonate-chlorite alteration along fractures. No visible sulphides. - 220.0 - bands 55° to core axis. - 222.1 - 222.4 - carbonate alteration, no visible sulphides.									
			6888		222.0	223.0	1.0			tr.	
223.0	233.9	<u>MAFIC TO ULTRAMAFIC VOLCANIC</u> - similar to 166.5 - 203.6. - 225.9 - 226.6 - carbonate alteration zone, trace pyrite.	6889		225.9	226.9	1.0			tr.	
233.9	237.1	<u>ULTRAMAFIC VOLCANIC</u> - similar to 153.3 - 164.9 - grading from previous unit.									
237.1	243.9	<u>MAFIC VOLCANIC</u> - similar to 166.5 - 203.6 - medium grey-green, very fine grained, very faint foliation, 2-3% phlogopite.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-14 SHEET NO. 8 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
243.9	247.1	<p><u>BANDED IRON FORMATION</u> - green-grey to medium grey, very fine grained, finely banded (less than 1/4"). Unit composed of 60% bands of chert (40%) - magnetite (20%) and 40% bands of actinolite with few biotite-rich bands. 5% grunerite alteration of chert-magnetite bands. Trace disseminated pyrrhotite. Few fine quartz-carbonate veinlets. Carbonate-chlorite fracture fillings along bedding planes with minor pyrite as fracture coatings.</p> <p>- 244.0 - 244.1 - shear with 5% pyrite, 3% pyrrhotite and abundant euhedral tourmaline.</p> <p>- 247.0 - 247.1 - similar to above.</p>	6890		243.9	247.1	3.2			tr.	
247.1	269.0	<p><u>ULTRAMAFIC VOLCANIC</u> - dark grey-green, fine grained, weakly schistose to massive.</p> <p>- 247.1 - 249.0 - similar to 50.7 - 67.0.</p> <p>- 249.0 - 269.0 - Ultramafic to Mafic.</p> <p><u>Average Modes</u></p> <p>Tremolite-Actinolite 65% Phlogopite 15% Serpentine 10% Quartz 5% Plagioclase 5%?</p> <p>Trace disseminated sulphide throughout. Several 1/4" carbonate-chlorite veinlets.</p> <p>- 251.1 - 251.4 - carbonate-tourmaline vein.</p> <p>- 252.0 - 252.2 - as above.</p> <p>- 259.0 - 259.5 - intense quartz-carbonate veining.</p> <p>- 259.5 - 263.5 - several carbonate alteration zones with some tourmaline.</p>	6891		251.0	252.5	1.5			tr.	
269.0		End of Hole.	6892		259.0	263.5	4.5			tr.	

LANGRIDDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-15 LENGTH 309'
 LOCATION 8+00NW 1+00NE
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -46°
 STARTED November 16, 1986 FINISHED November 17, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-46.0°				
309'	-40.0°				

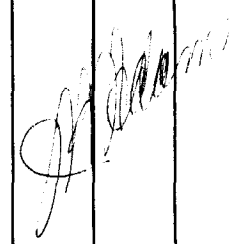
HOLE NO. OP-86-15 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO					TOTAL
0	24.0	<u>CASING</u>								
24.0	53.1	<u>BANDED IRON FORMATION</u>								
53.1	54.5	<u>GARNETIFEROUS METASEDIMENT</u>								
54.5	110.8	<u>ULTRAMAFIC TO MAFIC VOLCANICS</u>								
110.8	116.3	<u>BANDED IRON FORMATION</u>								
116.3	239.9	<u>ULTRAMAFIC VOLCANICS</u>								
239.9	289.7	<u>GARNETIFEROUS METASEDIMENTS</u>								
289.7	309.0	<u>ULTRAMAFIC VOLCANICS</u>								
309.0		End of Hole.								



DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-15 LENGTH 309'
 LOCATION 8+00NW 1+00NE
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -46°
 STARTED November 16, 1986 FINISHED November 17, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-46.0°				
309'	-40.0°				

HOLE NO. OP-86-15 SHEET NO. 1 of 6

REMARKS _____

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON	
0	24.0	<u>CASING</u>								
24.0	53.1	<u>BANDED IRON FORMATION</u> - bands of light grey, dark grey to black and light cream-green, fine grained. Bands are generally 1/8" to 1/4" and consist of chert, grunerite and magnetite-grunerite ± hornblende. Grunerite bands are found on both sides of magnetite-rich bands. <u>Average Modes</u> Quartz 45 - 55% Grunerite 30 - 40% Magnetite 10 - 15% Hornblende 1 - 3% Sulphides trace - 0.5% Pyrite and pyrrhotite are associated with fractures, either as fillings or parallel to bands adjacent to fractures. - 24.0 - 27.2 - contains 10-15% garnet-biotite bands. Pyrite and limonite fracture coatings. - 26.0 - banded at 30° to core axis. - 27.2 - 29.3 - as described, moderately contorted. - 29.3 - 44.9 - as described. - 41.2 - banded at 50° to core axis. - 44.9 - 45.2 - quartz vein, with 1/2" quartz carbonate at lower boundary. No visible sulphides.								
			16632		24.0 29.0 5.0			.02		
			16633		29.0 34.0 5.0			tr.		
			16634		34.0 39.0 5.0			tr.		
			16635		39.0 44.0 5.0			tr.		
			16636		44.0 45.5 1.5			tr.		

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-15 SHEET NO. 2 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 45.2 - 53.1 - as described.	16637		45.5	49.5	4.0			tr.	
		52.0 - banded at 60° to core axis.	16638		49.5	53.1	3.6			.01	
53.1	54.5	GARNETIFEROUS METASEDIMENTS - dark green to black with pink poikiloblasts, fine grained, weakly banded.	16639		53.1	54.5	1.4			.01	
		<u>Average Modes</u>									
		Hornblende 35 - 40%									
		Garnets 25 - 30%									
		Quartz 15 - 20%									
		Grunerite 10 - 15%									
		Biotite 3 - 5%									
		Magnetite trace - 0.5%									
		Sulphides 0.5 - 1%									
		Pyrrhotite and trace chalcopyrite occur parallel to bands and along fractures.									
54.5	110.8	ULTRAMAFIC TO MAFIC VOLCANICS - medium to dark green, fine grained, schistose. Dominantly tremolite-actinolite with minor serpentine, phlogopite, biotite and talc. Abundant calcite veinlets commonly at 30° to 35° to core axis and 1/32" to 1/2" wide. Veinlets appear planar. No visible sulphides are visible in either volcanics or calcite veinlets.									
		- 54.5 - 56.5 - transitional zone from sediments with 12-15% narrow quartz bands at 65° to core axis.	16640		54.5	59.0	4.5			tr.	
		- 56.5 - 64.0 - typical.	16641		59.0	64.0	5.0			tr.	
		- 64.0 - 69.0 - no calcite veinlets.	16642		66.8	67.8	1.0			tr.	
		- 67.1 - 67.8 - 1-2% pyrrhotite and trace chalcopyrite parallel to foliation.									
		- 69.0 - 76.1 - typical.	16643		69.0	73.0	4.0			tr.	
			16644		73.0	76.1	3.1			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-15 SHEET NO. 3 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FROM	TO	TOTAL	%	%	OZ TON	OZ TON	
		- 76.1 - 79.1 - talc schist with rare calcite veinlets.										
		- 79.1 - 83.7 - talc-serpentine-magnesite schist with rare calcite veinlets.										
		- 83.7 - 110.8 - typical.	16645		83.7	86.3	2.6					tr.
			16646		86.3	91.0	4.7					tr.
			16647		91.0	96.0	5.0					tr.
		- 84.4 - 86.3 - several quartz-calcite veinlets parallel to foliation at 60° to core axis; veinlets commonly at 25° to 30° to core axis.	16648		96.0	101.0	5.0					tr.
			16649		101.0	106.0	5.0					tr.
			16650		106.0	110.8	4.8					tr.
110.8	116.3	<u>BANDED IRON FORMATION</u> - medium cream-grey to dark grey, fine grained poorly banded.	16651		110.8	116.3	5.5					.01
		<u>Average Modes</u>										
		Grunerite 40 - 50%										
		Quartz 30 - 40%										
		Hornblende 7 - 10%										
		Magnetite 5 - 7%										
		Garnet 5 - 7%										
		Pyrite trace - 0.5%										
		Pyrite occurs in sections of contorted banding.										
		- 113.1 - 113.3 - 5-7% pyrite as blebs in contorted zone.										
116.3	239.9	<u>ULTRAMAFIC VOLCANICS</u> - light to medium grey, fine to very fine grained, well foliated, dominantly tremolite, minor serpentine, 1-2% talc, 0.5-1% disseminated magnetite and trace disseminated pyrite. Many narrow white bands of talc with few bands of magnesite.	16652		116.3	117.4	1.1					tr.
		- 116.3 - 117.4 - distinct brown laminations of phlogopite and amphibole (hornblende?) which gradually decrease until typical at 117.4.										
		- 117.4 - 142.0 - dominantly talc-serpentine.										

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-15 SHEET NO. 4 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	oz TON	oz TON	
				FROM	TO	TOTAL				
		- 142.0 - 164.0 - many serpentine-rich clots (intrusive or thick flow?) which also contain an increase in magnetite. Abundant fine fractures (black, very fine grained) of which some contain calcite and some have black alteration haloes. Few contain pyrite with calcite. Fracture angles vary from 15° to 35° to core axis. Foliation typically at 60° to core axis.	16653		142.0	147.0	5.0			tr.
			16654		147.0	152.0	5.0			tr.
			16655		152.0	157.0	5.0			tr.
			16656		157.0	161.0	4.0			tr.
			16657		161.0	164.0	3.0			tr.
		- 149.8 - fracture with graphite coating 17° to core axis.								
		- 150.2 - 1/4" calcite veinlet at 70° to core axis containing pyrite blebs.								
		- 154.0 - calcite filled fracture containing pyrite.								
		- 164.0 - 170.0 - typical.	16658		170.0	175.0	5.0			tr.
			16659		175.0	180.0	5.0			tr.
		- 170.0 - 201.7 - similar to 142.0 - 164.0 with clot being stretched from 189.0 - 201.7 parallel to foliation.	16660		180.0	185.0	5.0			tr.
			16661		185.0	190.0	5.0			tr.
			16662		190.0	195.0	5.0			tr.
			16663		195.0	198.0	3.0			tr.
		- 201.7 - 209.7 - typical.	16664		198.0	201.7	3.7			tr.
		- 209.7 - 234.1 - similar to 142.0 - 164.0 with few dark fractures.								
		- 217.0 - 218.7 - few carbonate veinlets, no visible sulphides.	16666		217.0	224.4	7.4			tr.
		- 222.4, 224.2 - 1/4" carbonate veinlets, no visible sulphides.								
		- 234.1 - 239.9 - grades from medium grey to medium green with an increase in serpentine. Also increase in tremolite.								
239.9	289.7	<u>GARNETIFEROUS METASEDIMENTS</u> - dark grey, with pink poikiloblasts, fine to very fine grained, massive to weakly banded.								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-15 SHEET NO. 5 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
				FROM	TO	TOTAL					
		<u>Average Modes</u>									
		Biotite 35 - 40%									
		Quartz 25 - 30%									
		Garnets 20 - 25%									
		Hornblende 7 - 10%									
		Pyrite trace									
		Garnet poikiloblasts are in a matrix of biotite, quartz and hornblende. Few isolated contorted chert bands. Most banding is indicated by a change in garnet content. Pyrite occurs as disseminated grains and as fracture coating.									
		- 239.9 - 258.1 - typical.	16667		239.9	244.0	4.1				tr.
		- 240.0 - banding at 50° to core axis.	16668		244.0	248.0	4.0				tr.
		- 256.5 - 257.4 - five 1" contorted quartz veins containing disseminated wisps of wall rock, 0.5% pyrite as boundaries of veinlets.	16669		248.0	252.0	4.0				tr.
			16670		252.0	256.5	4.5				tr.
			16671		256.5	257.5	1.0				.03
		- 258.1 - 261.0 - dominantly hornblende/actinolite in the matrix with 1-3% garnets and minor biotite. Few narrow chert bands.	16672		257.5	261.0	3.5				.01
		- 261.0 - 273.5 - typical.	16673		261.0	266.0	5.0				tr.
		- 265.4 - 265.8 - several narrow quartz bands. No visible sulphides.	16674		266.0	270.0	4.0				tr.
			16675		270.0	273.5	3.5				.01
		- 273.5 - 276.8 - similar to 258.1 - 261.0 with several quartz-carbonate-tourmaline veinlets which contain 1-3% pyrrhotite as blebs and in fractures in tourmaline. Veinlets are 1/2" to 1" wide with tourmaline at the edges. Wall rock contains 0.5-1% pyrrhotite as disseminated grains.	16676		273.5	276.8	3.3				tr.
		- 276.8 - 287.5 - atypical, with increase in biotite so matrix is dominantly biotite.	16677		276.8	281.8	5.0				tr.
			16678		281.8	286.8	5.0				tr.
		- 283.5 - 283.6 - quartz veinlet; no visible sulphides.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. QP-86-15 SHEET NO. 6 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON	
					FROM	TO					TOTAL
		- 287.5 - 289.7 - similar to 258.1 - 261.0 with a gradual decrease in garnet to 288.8 where rare till 289.7 except two bands at 288.4 and 288.6 with large (1/4") garnet poikiloblasts. Few quartz bands from 288.8 to 289.7.	16679		286.8	289.7	2.9			.01	
289.7	309.0	<u>ULTRAMAFIC VOLCANICS</u> - similar to 142.0 - 164.0 without fractures.									
		- 289.7 - 293.3 - no clots.									
		- 293.3 - 297.4 - typical with 1/8" clots.									
		- 297.4 - 302.2 - clots stretched parallel to foliation at 45° to 50° to core axis.									
		- 302.2 - 309.0 - similar to above but clots are smaller (1/16" to 1/10").									
309.0		End of Hole.									

J. Williams

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-16 LENGTH 297'
 LOCATION 9+03NW 0+97NE
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -45.5°
 STARTED November 19, 1986 FINISHED November 23, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.5°				
297'	-38.8°				

HOLE NO. OP-86-16 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0	15.5	<u>CASING</u>									
15.5	74.8	<u>BANDED IRON FORMATION</u>									
74.8	82.1	<u>GARNET-BIOTITE SCHIST</u>									
82.1	84.3	<u>BANDED IRON FORMATION</u>									
84.3	87.5	<u>GARNETIFEROUS METASEDIMENTS</u>									
87.5	159.1	<u>MAFIC TO ULTRAMAFIC VOLCANICS</u>									
159.1	159.6	<u>INTERBEDDED IRON FORMATION AND ULTRAMAFIC VOLCANICS</u>									
159.6	176.4	<u>ULTRAMAFIC VOLCANICS</u>									
176.4	182.2	<u>GARNETIFEROUS METASEDIMENTS</u>									
182.2	199.3	<u>ULTRAMAFIC VOLCANICS</u>									
199.3	297.0	<u>GARNETIFEROUS METASEDIMENTS</u>									
297.0		End of Hole.									

[Handwritten Signature]

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-16 LENGTH 297'
 LOCATION 9+03NW 0+97NE
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -45.5°
 STARTED November 19, 1986 FINISHED November 23, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.5°				
297'	-38.8°				

HOLE NO. OP-86-16 SHEET NO. 1 of 7

REMARKS _____

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO					TOTAL
0	15.5	<u>CASING</u>								
15.5	74.8	<u>BANDED IRON FORMATION</u> - bands of light grey, dark grey to black and light cream-green, fine grained, well banded, commonly 1/8" to 1/4" bands, contorted. <u>Average Modes</u> Quartz 40 - 50% Grunerite 30 - 40% Magnetite 12 - 15% Calcite 2 - 4% Pyrrhotite trace - 0.5% Many bands contain laminations. Grunerite generally occurs between chert bands and magnetite-rich bands. Calcite within bands with minor amounts in fractures. Pyrrhotite occurs parallel to bands and as fracture fillings. Boudinaging of bands common in contorted zones. - 15.5 - 16.7 - several light brown chert bands. Few limonitic fractures. - 16.7 - 18.4 - 0.5-1% pyrrhotite parallel to bands, limonitic fractures. - 18.4 - 19.4 - loss of core. - 19.4 - 19.9 - typical, limonitic fractures. - 19.9 - 20.2 - loss of core.								
			16680		15.5	18.4	2.9			tr.
			16681		19.4	24.0	4.6			.01

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-16 SHEET NO. 2 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 20.2 - 24.0 - typical, limonitic fractures, few ground sections.									
		- 24.0 - 26.1 - several quartz veinlets, contorted, 0.5% tourmaline at boundaries and 1-2% pyrrhotite as wisps in some veinlets.	16682		24.0	26.1	2.1			.01	
		- 26.1 - 29.9 - typical.	16683		26.1	29.9	3.8			tr.	
		- 29.9 - 30.8 - quartz vein with wisps of wall rock, trace pyrrhotite in fractures.	16684		29.9	30.9	1.0			tr.	
		- 30.8 - 36.7 - typical.	16685		30.9	31.9	1.0			tr.	
		- 31.3 - 1/2" quartz veinlet with several 1/4" arsenopyrite blebs and trace to 0.5% pyrrhotite, a wall of veinlets.	16686		31.9	36.5	4.6			tr.	
		- 34.6 - 35.1 - bleached zone of light brown, high in quartz with trace magnetite.									
		- 36.3 - quartz-chlorite veinlets (1/16") containing minor pyrite.									
		- 36.7 - 37.2 - 1/2" brecciated zone with calcite-tourmaline-pyrite filling; pyrite occurs as 1/4" blebs adjacent to tourmaline and constitutes 5-7% of filling.	16687		36.5	37.5	1.0			tr.	
		- 37.2 - 42.0 - typical with few quartz-calcite filled fractures.	16688		37.5	41.5	4.0			tr.	
		- 42.0 - 42.5 - brecciated zone with quartz-calcite filling; 0.5-1% pyrite.	16689		41.5	42.5	1.0			tr.	
			16690		42.5	46.5	4.0			tr.	
			16691		46.5	49.7	3.2			tr.	
		- 42.5 - 50.0 - typical.	16692		49.7	50.7	1.0			tr.	
		- 50.0 - 50.4 - quartz vein with 5-7% pyrrhotite wisps.									
		- 50.4 - 61.7 - 10-15% garnet-biotite bands; 0.5-1% pyrrhotite.									
		- 53.9 - 54.4 - 5-7% pyrrhotite and trace arsenopyrite.	16693		50.7	55.0	4.7			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-16 SHEET NO. 3 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 59.0 - 59.5 - 5-7% pyrrhotite parallel to bands.	16694		55.0	60.0	5.0			tr.	
		- 61.7 - 68.4 - low contortion of bands, banded at 25° to core axis.	16695		60.0	65.0	5.0			tr.	
		- 68.4 - 71.7 - banded near parallel to core axis with several fold closures visible.	16696		65.0	70.0	5.0			tr.	
		- 70.9 - trace arsenopyrite in quartz-calcite filled fracture.									
		- 71.7 - 73.3 - typical.									
		- 73.3 - 74.8 - grading into unit below with 15-20% garnet-biotite bands.	16697		70.0	74.8	4.8			tr.	
74.8	82.1	<u>GARNET-BIOTITE SCHIST</u> - black with pink poikiloblasts, fine grained weakly banded.	16698		74.8	78.8	4.0			tr.	
			16699		78.8	82.1	3.3			tr.	
		<u>Average Modes</u>									
		Biotite 65 - 75%									
		Garnet 20 - 25%									
		Hornblende 2 - 4%									
		Grunerite 1 - 3%									
		Quartz 1 - 3%									
		Sulphides trace									
		Pyrite and pyrrhotite generally occur as disseminated grains. Banded at 60° to core axis.									
		- 75.6 - 1/4" pyrite veinlet at 50° to core axis.									
82.1	84.3	<u>BANDED IRON FORMATION</u> - atypical, laminated to nearly massive, 3-5% hornblende, 1-3% pyrrhotite as fine disseminations and wisps.	16700		82.1	84.3	2.2			tr.	
84.3	87.5	<u>GARNETIFEROUS METASEDIMENTS</u> - dark green to black with pink poikiloblasts and bands, moderately banded, fine grained, moderately foliated.	16701		84.3	87.5	3.2			tr.	

LANGRIDDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. QP-86-16 SHEET NO. 4 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	GT TON	GT TON
				FROM	TO	TOTAL				
		<p><u>Average Modes</u></p> <p>Hornblende 50 - 60%</p> <p>Garnet 20 - 25%</p> <p>Quartz 7 - 10%</p> <p>Biotite 5 - 7%</p> <p>Grunerite 1 - 3%</p> <p>Magnetite 0.5 - 1%</p> <p>Sulphides 0.5 - 1%</p> <p>Sulphides occur as wisps and blebs.</p>								
87.5	159.1	<p><u>MAFIC TO ULTRAMAFIC VOLCANICS</u> - medium to dark green-grey, fine grained, moderately foliated, dominated by actinolite-tremolite with 7-10% phlogopite and 3-5% plagioclase. Several serpentine coated fractures. Trace fine grained disseminated pyrite. Foliated 60° to 70° to core axis.</p> <p>- 87.5 - 109.6 - abundant fine calcite fractures commonly at 25° to 30° to core axis.</p> <p>- 88.3 - 1/2" calcite bleb.</p> <p>- 109.6 - 120.1 - dominantly tremolite-serpentine, well foliated with 3-5% disseminated, brown hornblende, up to 1/4", oriented parallel to foliation. Hornblende occurs as fine grained crystal clusters. (pseudomorphs?)</p> <p>- 109.7 - 110.3 - three 1/2" to 3" dark brown crystal clusters, crystals are fine to medium grained, subhedral, prismatic, hard (approximately 7), striated lengthwise and concoidal fracture, translucent, (tourmaline). These clusters are connected to contorted veinlets and have calcite between crystals.</p> <p>- 117.6 - 127.8 - 1/2" by 2" cluster as in 109.7 - 110.3.</p>								
			16702	87.5	90.0	2.5				tr.
			16703	90.0	95.0	5.0				tr.
			16704	95.0	100.0	5.0				tr.
			16705	100.0	105.0	5.0				tr.
			16706	105.0	109.6	4.6				tr.
			16707	109.6	114.9	5.3				tr.
			16708	114.9	120.1	5.2				tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-16 SHEET NO. 5 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
		- 120.1 - 124.8 - light grey with dark grey to black clots, schistose, dominantly talc-serpentine with 0.5-1% magnetite and 1-3% carbonate.								
		- 124.8 - 138.3 - similar to 109.6 - 120.1.								
		- 138.3 - 159.1 - similar to 85.5 - 109.6 with fractures at 25° to 30° to core axis. Few 1/2" quartz veins, no visible sulphides.	16709		138.0	142.0	4.0			tr.
			16710		142.0	145.2	3.2			tr.
			16711		145.2	146.2	1.0			tr.
			16712		146.2	150.2	4.0			tr.
		- 145.4 - 145.6 - 2" quartz veinlet, no visible sulphides.	16713		150.2	154.2	4.0			tr.
			16714		154.2	158.8	4.6			tr.
		- 145.6 - 146.1 - 15-20% calcite.								
159.1	159.6	<u>INTERBEDDED IRON FORMATION AND ULTRAMAFIC VOLCANICS</u>	16715		158.8	159.8	1.0			.01
		Ultramafic Volcanics (40%) - dark green, fine grained, well foliated, tremolite-serpentine with few poikiloblastic garnets. 1/4" bands at 70° to core axis.								
		Iron Formation (60%) - light grey, fine grained, laminated chert and 10-12% magnetite. 1/4" bands at 70° to core axis. 1-3% fine grained pyrite parallel to core axis.								
159.6	176.4	<u>ULTRAMAFIC VOLCANICS</u> - similar to 109.6 - 120.1, 0.5-1% medium to coarse grained tourmaline in few bands; 0.5-1% brown hornblende in few fine bands; trace to 0.5% magnetite. Few well spaced quartz veinlets with alteration haloes of talc.	16716		164.6	168.4	3.6			tr.
			16717		168.4	172.4	4.0			tr.
			16718		172.4	176.4	4.0			.02
176.4	182.2	<u>GARNETIFEROUS METASEDIMENTS</u> - atypical to 74.8 - 82.1 with 2:1 ratio of garnet to amphibole and contain several quartz veinlets commonly at 65° to 70° to core axis.								
		- 176.4 - 178.9 - 15-20% garnets.	16719		176.4	179.9	3.5			.01
		- 178.9 - 179.7 - silicified zone with several closely spaced quartz veinlets and alteration haloes. 0.5-1% garnets.								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. QP-86-16 SHEET NO. 6 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON	
				FROM	TO	TOTAL					
		- 179.7 - 180.7 - 1-3% garnets.	16720		179.9	182.3	2.4			tr.	
		- 180.7 - 182.2 - grades from 1% garnets at 180.7 to 20-25% at 182.2.									
182.2	199.3	<u>ULTRAMAFIC VOLCANICS</u> - medium green, fine grained, well foliated, serpentinite-talc-tremolite.	16721		182.3	184.9	2.6			tr.	
		- 182.2 - 183.9 - 1-2% quartz-calcite veinlets with light green haloes and 1-3% garnet in the haloes.									
		- 185.2 - 185.8 - sheared, brecciated.	16722		184.9	185.9	1.0			tr.	
		- 189.9 - 190.8 - sheared 35° to core axis.	16723		189.9	190.9	1.0			tr.	
199.3	297.0	<u>GARNETIFEROUS METASEDIMENTS</u> - similar to 74.8 - 82.1, massive to weakly banded, several 1/8" to 1/2" quartz veinlets containing no visible sulphides. Some veinlets occur parallel to banding while many are irregular, cut across banding and appear highly folded. Often veinlets are surrounded by narrow hornblende-rich zones. Trace disseminated sulphides.									
		- 199.3 - 200.8 - moderately banded, similar to 84.3 - 87.5 with trace pyrite.	16724		199.3	200.8	1.5			tr.	
		- 200.8 - 205.8 - typical.	16725		200.8	205.4	4.6			tr.	
		- 205.8 - 206.2 - several irregular 1/4" to 1/2" quartz veinlets, contorted, no visible sulphides.	16726		205.4	206.4	1.0			tr.	
			16727		206.4	211.0	4.6			tr.	
			16728		211.0	216.0	5.0			tr.	
		- 206.2 - 245.1 - typical.	16729		216.0	221.0	5.0			.01	
			16730		221.0	226.0	5.0			tr.	
			16731		226.0	231.0	5.0			.01	
		- 235.0 - banded at 45° to core axis.	16732		231.0	236.0	5.0			tr.	
			16733		236.0	241.0	5.0			tr.	
			16734		241.0	245.0	4.0			tr.	
		- 245.1 - 246.0 - quartz vein with 1-3% pyrite as disseminated blebs and along fractures.	16735		245.0	247.0	2.0			tr.	
		- 246.0 - 246.3 - typical.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-16 SHEET NO. 7 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
		- 246.3 - 246.6 - quartz vein, no visible sulphides.								
		- 246.6 - 253.5 - typical.	16736		247.0	252.0	5.0		tr.	
		- 253.5 - 253.7 - quartz veinlet, no visible sulphides.	16737		252.0	257.0	5.0		tr.	
		- 253.7 - 258.7 - typical.								
		- 258.7 - 259.0 - quartz veinlet, no visible sulphides.	16738		257.0	262.0	5.0		tr.	
		- 259.0 - 263.0 - typical.								
		- 263.0 - 263.2 - silicified zone, quartz with remnant wall rock and original foliation visible.	16739		262.0	267.0	5.0		tr.	
			16740		267.0	272.0	5.0		tr.	
			16741		272.0	277.0	5.0		tr.	
		- 263.2 - 297.0 - typical with several 1/8" to 1/2" quartz veinlets no visible sulphides with veinlets. Banding angles not regular and several fold closures visible.	16742		277.0	282.0	5.0		tr.	
			16743		282.0	287.0	5.0		tr.	
			16744		287.0	292.0	5.0		.03	
			16745		292.0	297.0	5.0		tr.	
297.0		End of Hole.								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-17 LENGTH 249'
 LOCATION 13+99NW 2+00NE
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 229° DIP -45.5°
 STARTED November 19, 1986 FINISHED November 21, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.5°				
249'	-38.0°				

HOLE NO. OP-86-17 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 844239

LOGGED BY B. E. Elliott

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	20.0	<u>CASING</u>									
20.0	39.8	<u>ULTRAMAFIC TO MAFIC VOLCANICS</u>									
39.8	78.6	<u>GARNET-BIOTITE METASEDIMENT</u> - several carbonate-chlorite filled fractures with pyrite.									
78.6	112.8	<u>BANDED IRON FORMATION</u>									
112.8	116.8	<u>GARNET-BIOTITE METASEDIMENT</u>									
116.8	158.2	<u>BANDED IRON FORMATION</u>									
158.2	160.4	<u>LAMPROPHYRE DIKE</u>									
160.4	249.0	<u>BANDED IRON FORMATION</u>									
249.0		End of Hole.									

B. E. Elliott

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-17 LENGTH 249'
 LOCATION 13+99NW 2+00NE
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 229° DIP -45.5°
 STARTED November 19, 1986 FINISHED November 21, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.5°				
249'	-38.0°				

HOLE NO. OP-86-17 SHEET NO. 1 of 7

REMARKS _____

PA - 844239

LOGGED BY B. E. Elliott

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	oz/TON	oz/TON	
					FROM	TO	TOTAL				
0	20.0	<u>CASING</u>									
20.0	39.8	<u>ULTRAMAFIC TO MAFIC VOLCANIC</u> - medium grey to grey-green, fine grained, foliated. <u>Average Modes</u> Serpentine 40 - 50% Talc 20 - 30% Tremolite 5 - 10% Magnetite 5 - 10% Chlorite 3 - 10% - 20.0 - 28.5 - medium grey with dark circular clots of magnetite and serpentine. Few hairline carbonate fractures oriented approximately parallel to core axis. - 28.5 - 39.8 - medium grey to grey-green, trace to no magnetite. Several carbonate filled fracture zones as unoriented veinlets with increasing chlorite alteration (up to 10%) as approach base of section. Pyrrhotite as fracture coatings. - 29.5 - 30.4 - carbonate-chlorite alteration with minor clots of pyrrhotite with trace chalcopyrite. - 33.8 - fine pyrrhotite clot.									
			6944		29.0	33.0	4.0				tr.
			6945		33.0	37.0	4.0				tr.
			6946		37.0	39.8	2.8				tr.
39	78.6	<u>GARNET-BIOTITE METASEDIMENT</u> - dark grey to black, medium to fine grained, schistose.									

LANGRIDGE - 11-50-170 - 366 1188

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-17 SHEET NO. 2 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON	
					FROM	TO					TOTAL
		<p><u>Average Modes</u></p> <p>Biotite 65%</p> <p>Garnet 30%</p> <p>Quartz 2 - 3%</p> <p>Carbonate 2 - 3%</p> <p>Evenly dispensed, pink poikiloblastic garnets (less than 1/8"). Several carbonate-chlorite filled fractures with pyrite as fracture coatings.</p> <p>- 39.8 - 42.4 - compositional banding between garnet-biotite and chert-rich layers. Banding parallel to core axis. Possible shear zone?</p> <p>- 41.8 - 1/4" quartz vein with 2-3% pyrite.</p> <p>- 49.7 - orange-red chert (possibly jasper). No sulphides.</p> <p>- 50.3 - same as above.</p> <p>- 50.7 - same as above.</p> <p>- 51.5 - same as above.</p> <p>- 70.5 - 70.8 - quartz vein with 5% pyrite as veinlets and clots.</p> <p>- 71.7 - 78.6 - typical but with well spaced, dark grey, 1" wide bands of chert-magnetite. Bands contain up to 10% hornblende, 2-3% magnetite and 2% disseminated pyrite. Bands 10° to 15° to core axis with small scale crenulation folds. Numerous fine carbonate filled fractures with pyrite as fracture coatings.</p> <p>- 70.5 - 70.8 - quartz vein with up to 5% pyrite as veinlets and clots.</p> <p>- 77.0 - 78.6 - quartz-biotite with rare garnets.</p> <p>- 77.5 - 1" quartz-albite veinlet.</p>									
			6947		39.8	44.8	5.0			tr.	
			6948		44.8	49.8	5.0			tr.	
			6949		49.8	54.8	5.0			tr.	
			6950		54.8	59.8	5.0			.02	
			6951		59.8	64.8	5.0			.01	
			6952		64.8	69.8	5.0			tr.	
			6953		69.8	74.8	5.0			.01	
			6954		74.8	78.6	4.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. QP-86-17 SHEET NO. 3 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON	
					FROM	TO					TOTAL
78.6	112.8	<p><u>BANDED IRON FORMATION</u> - grey to dark grey to black, fine grained, well banded, uncontorted to highly contorted bands.</p> <p>- 78.6 - 85.5 - 60%, 1/2" to 2" wide, biotite-garnet bands with 80% biotite and 20% garnet; 40%, 1/2" to 1" wide, chert-magnetite bands with 5% magnetite. Well banded, uncontorted with fine interlamination within chert-magnetite bands. Banding commonly 35° to 40° to core axis. 1-2% pyrite concentrated along boundaries between bands. Several 1/8" carbonate veinlets both crosscutting and parallel to banding with chlorite and pyrite as fracture coatings.</p> <p>- 85.5 - 94.1 - well banded, sharp decrease in biotite-garnet bands (20%). Grades imperceptibly from containing no grunerite to containing up to 5% grunerite at base of section. Generally chert-magnetite bands 1/2" to 1" wide with 5-10% magnetite. 1/4" biotite-garnet bands with up to 10% hornblende. Fine interlamination within chert-magnetite bands. Banding commonly 50° to core axis. Drag on parasitic folds on bands. Fold closure at 88.5. Few 1/2" to 1" carbonate alteration zones often with dark green amphibole. Pyrite as fracture coatings and veinlets parallel to banding.</p> <p>- 94.1 - 96.4 - sheared zone, intense chlorite alteration, banding highly contorted, minor carbonate along fractures, 3% magnetite, pyrite as fracture coatings and euhedral crystals within fractures.</p> <p>- 96.4 - 112.8 - 5-7% grunerite on edges of chert-magnetite bands. Banding consists of chert-magnetite bands, chert bands and thin grunerite bands with rare biotite bands. Magnetite generally 3-5% but locally up to 10%. Creamy-orange-green chert-grunerite bands compose 5%. Banding moderately to highly contorted. Where bands not contorted banding 30° to core axis. As move down in section bands become</p>									
			6955		78.6	83.6	5.0			tr.	
			6956		83.6	88.6	5.0			tr.	
			6957		88.6	93.6	5.0			.01	
			6958		93.6	96.4	2.8			tr.	
			6959		96.4	101.4	5.0			tr.	
			6960		101.4	106.4	5.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-17 SHEET NO. 4 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
		<p>increasingly contorted with accompanying increase in grunerite and chert boudins. Numerous chlorite-carbonate fracture fillings with pyrite as fracture coatings. Several 1/4" carbonate-rich areas. Several fine veinlets and clots of pyrite.</p> <p>- 107.0 - 112.8 - several well spaced 2" to 3" shears with carbonate, chlorite and pyrite. Numerous fine carbonate veinlets both crosscutting and parallel to banding. Euhedral pyrite in fractures. Locally up to 10% pyrite, 3% pyrrhotite as veinlets and clots.</p>	6961		106.4	110.4	4.0			tr.
			6962		110.4	112.8	2.4			tr.
112.8	116.8	<p><u>GARNET-BIOTITE METASEDIMENT</u> - dark grey, medium to fine grained, schistose, massive at top of unit becoming weakly banded at base.</p> <p><u>Average Modes</u></p> <p>Biotite 45% Garnet 40% Quartz 10% Amphibole 5% Carbonate trace Chlorite trace Pyrite trace Magnetite trace</p> <p>Few weakly magnetic patches. Banding near base of unit consists of chert-amphibole bands and garnet-biotite bands. Banding 20° to 30° to core axis.</p> <p>- 113.4 - 1/2" carbonate vein, no sulphides.</p> <p>- 116.6 - 117.3 - sheared zone - carbonate-chlorite with pyrite as fracture coatings.</p>								
.8	158.2	<p><u>BANDED IRON FORMATION</u> - creamy orange-green, green, grey-green to dark grey, fine grained, moderately to well banded but often highly contorted.</p>								
			6963		112.8	116.8	4.0			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-17 SHEET NO. 5 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		<p><u>Average Modes</u></p> <p>Chert 50%</p> <p>Magnetite 10 - 20%</p> <p>Grunerite 10 - 20%</p> <p>Biotite 2 - 3%</p> <p>Garnet 1 - 2%</p> <p>Hornblende 2%</p> <p>Bands of chert-magnetite, chert, chert-grunerite, biotite and/or hornblende plus garnet. Several 1" carbonate filled fractures both crosscutting and parallel to banding. Numerous pyrite-pyrrhotite clots and veinlets. Numerous chert boudins and hairline displacement fractures. Several fold closures.</p>									
		<p>- 116.8 - 122.3 - contorted banding, 3" magnetite-chert bands. Several fold closures. Numerous pyrite-pyrrhotite clots and veinlets usually following planes of deformed banding. Trace chalcopryrite. Few biotite-garnet bands less than 1/4" wide. 5% grunerite.</p>	6964		116.8	121.8	5.0			tr.	
		<p>- 122.3 - 129.2 - 1/8" to 1/2" contorted bands. 15% grunerite. Increase in creamy-orange chert bands. Several fold closures. Numerous concentrations of pyrrhotite-pyrite in contorted grunerite-chert bands and in fold closures.</p> <p>- 123.4 - 1/2" zone with 3% pyrrhotite, 1% pyrite, trace chalcopryrite in chert-grunerite</p> <p>- 124.8 - 125.3 - as above.</p>	6965		121.8	126.8	5.0			.01	
		<p>- 129.2 - 136.8 - banding almost parallel to core axis and highly contorted.</p> <p>- 129.3 - 3% pyrrhotite, 1% pyrite, trace chalcopryrite.</p> <p>- 132.8 - as above.</p>	6966		126.8	131.8	5.0			tr.	
		<p>- 136.0 - 136.8 - 3% pyrite, 3% pyrrhotite in fold closures.</p>	6967		131.8	136.8	5.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-17 SHEET NO. 6 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 136.8 - 153.0 - numerous pyrite and pyrrhotite concentrations in fold closures.	6968		136.8	141.8	5.0			tr.	
		- 143.2 - 144.9 - banding less contorted, commonly 40° to core axis.	6969		141.8	146.8	5.0			tr.	
		- 144.9 - 153.0 - numerous chert-grunerite bands with stretched quartz boudins. Numerous displacement fractures but minimal sulphides.	6970		146.8	151.8	5.0			.01	
		- 151.8 - 152.3 - 1/8" crosscutting carbonate vein with pyrite.	6971		151.8	156.8	5.0			.01	
			6972		156.8	158.2	1.4			tr.	
158.2	160.4	<u>LAMPROPHYRE DIKE</u> - typical, few fine flecks carbonate.	6973		158.2	160.4	2.2			tr.	
160.4	249.0	<u>BANDED IRON FORMATION</u>									
		- 160.4 - 172.5 - moderately banded, often highly contorted. Banding commonly 25° to 30° to core axis. 10-20% grunerite, 15% magnetite - where grunerite pervasive magnetite 5%. Similar texture, carbonate veinlets and pyrite-pyrrhotite veinlets as in 136.8 to 153.0.									
		- 160.4 - 160.8 - up to 3% pyrite with carbonate.	6974		160.4	165.4	5.0			tr.	
		- 162.3 - 3% pyrite.	6975		165.4	170.4	5.0			.01	
		- 163.4 - 3% pyrite as wispy veinlets and clots.									
		- 172.5 - 192.6 - similar to 160.4 - 172.5. 5-10% magnetite, 15% grunerite, well banded, highly contorted, chert boudins, displacement fractures.	6976		170.4	175.4	5.0			tr.	
		- 178.7 - 3% pyrite as wispy veinlets and clots.	6977		175.4	180.4	5.0			tr.	
		- 189.3 - 1/4" carbonate-chlorite alteration with pyrite and pyrrhotite as fracture coatings and disseminations.	6978		180.4	185.4	5.0			tr.	
			6979		185.4	190.4	5.0			tr.	
		- 190.2 - 190.9 - quartz vein; no visible sulphides	6980		190.4	192.8	2.4			.01	
		- 191.6 - 192.6 - quartz vein.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-17 SHEET NO. 7 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 192.6 - 211.3 - typical. Numerous fold closures. Bands highly contorted. Pinched off boudins. Numerous 1/8" carbonate veinlets. Rare orangy-green chert near base.									
		- 199.0 - 199.4 - pyrrhotite as fine clots and wispy veinlets.	6981		192.8	197.8	5.0			.02	
		- 203.1 - 203.4 - pyrrhotite and pyrite in biotite-garnet layer with chlorite alteration.	6982		197.8	202.8	5.0			tr.	
		- 204.5 - carbonate-chlorite fracture with pyrrhotite and trace arsenopyrite.	6983		202.8	207.8	5.0			tr.	
		- 211.3 - 230.2 - moderately banded and highly contorted. 2" to 3" magnetite-rich bands with 15% magnetite. Few amphibole-garnet rich bands with 5-10% magnetite. Large (1/4") poikiloblastic garnets. Banding 20° to core axis.	6984		207.8	212.8	5.0			tr.	
		- 211.3 - 211.5 - fractured, brecciated zone with 3% pyrite, 1% pyrrhotite and carbonate.	6985		212.8	217.8	5.0			tr.	
		- 221.1 - carbonate with 4% pyrite, 2% pyrrhotite, trace chalcopyrite.	6986		217.8	222.8	5.0			tr.	
		- 228.2 - 228.4 - fine veinlets with pyrite, pyrrhotite, trace arsenopyrite with carbonate.	6987		222.8	227.8	5.0			tr.	
		- 229.1 - as above.	6988		227.8	232.8	5.0			.01	
		- 230.2 - 249.0 - similar to 211.3 - 230.2. Banding almost parallel to core axis. Numerous fold closures. Similar pyrite-pyrrhotite occurrences.	6989		232.8	237.8	5.0			tr.	
		- 240.8 - sulphides.	6990		237.8	242.8	5.0			tr.	
		- 241.5 - sulphides.	6991		242.8	246.8	4.0			tr.	
		- 242.4 - 243.0 - sulphides.									
		- 247.7 - 248.0 - 5% pyrrhotite in fold closure.	6992		246.8	249.0	2.2			.02	
249.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-18 LENGTH 298'
 LOCATION 14+00NW 2+99SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -46°
 STARTED November 13, 1986 FINISHED November 14, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-46.0				
298'	-38.5				

HOLE NO. OP-86-18 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO					TOTAL
0	35.0	<u>CASING</u>								
35.0	37.0	<u>ULTRAMAFIC VOLCANICS</u>								
37.0	53.7	<u>BANDED IRON FORMATION</u>								
53.7	62.2	<u>GARNETIFEROUS METASEDIMENTS</u>								
62.2	91.6	<u>BANDED IRON FORMATION</u>								
91.6	138.0	<u>ULTRAMAFIC VOLCANICS</u>								
138.0	172.5	<u>BANDED IRON FORMATION</u>								
172.5	197.2	<u>ULTRAMAFIC VOLCANICS</u>								
197.2	217.4	<u>BANDED IRON FORMATION</u>								
		- 215.0 - 217.4 - silicified?, 3-5% pyrite, 1-2% pyrrhotite.								
217.4	223.4	<u>MAFIC TO INTERMEDIATE TUFF</u>								
		- 219.2 - 221.3 - 7-10% pyrite and pyrrhotite.								
223.4	298.0	<u>ULTRAMAFIC VOLCANICS</u>								
0		End of Hole.								

[Handwritten signature]

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-18 LENGTH 298'
 LOCATION 14+00NW 2+99SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -46°
 STARTED November 13, 1986 FINISHED November 14, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-46.0°				
298'	-38.5°				

HOLE NO. OP-86-18 SHEET NO. 1 of 7

REMARKS _____

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	35.0	<u>CASING</u>									
35.0	37.0	<u>ULTRAMAFIC VOLCANICS</u> - medium grey, fine grained to very fine grained, schistose. <u>Average Modes</u> Talc 70 - 80% Serpentine 20 - 30% Carbonate 5 - 7% Highly fractured, foliated at 25° to core axis.									
37.0	53.5	<u>BANDED IRON FORMATION</u> - bands of medium grey and dark grey to black with 1/32" to 1/16" poikiloblasts, moderately banded (1/4" to 1/2") commonly with intraband laminations. <u>Average Modes</u> Quartz 30 - 35% Hornblende 25 - 30% Biotite 20 - 25% Garnet 10 - 12% Magnetite 5 - 7% Carbonate 0.5 - 1% Chlorite 0.5 - 1% Pyrite 0.5 - 1% Pyrrhotite trace - 0.5% Chalcopyrite trace Highly fractured ("blocky"), abundant chlorite coated fractures. Sulphides occur as fracture coatings and fillings. Banded at 35° to 40° to core axis.	6794		37.0	42.0	5.0			tr.	
			6795		42.0	47.0	5.0			.01	
			6796		47.0	50.0	3.0			tr.	
			6797		50.0	53.5	3.5			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-18 SHEET NO. 2 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON
					FROM	TO					TOTAL
53.5	62.2	<p>GARNETIFEROUS METASEDIMENTS - dark grey to black with pink poikiloblasts (commonly 1/16" to 1/8"), poorly banded, fine grained.</p> <p><u>Average Modes</u></p> <p>Biotite 40 - 50% Garnet 25 - 30% Quartz 15 - 20% Hornblende 5 - 7% Grunerite 5 - 7% Magnetite 1 - 3% Carbonate 0.5 - 1% Chlorite 0.5 - 1% Pyrite trace - 0.5%</p> <p>Garnet-biotite schist with chert and grunerite-magnetite-rich bands. Pyrite occurs in carbonate veinlets. Abundant chloritic fractures.</p> <p>- 53.5 - 55.0 - as described.</p> <p>- 54.4 - 54.8 - few black, very fine grained veinlets containing magnetite.</p> <p>- 55.0 - 56.5 - increased grunerite content and 3-5% magnetite.</p> <p>- 56.5 - 62.2 - as described, banded at 55° to core axis.</p> <p>- 61.2 - 62.2 - several narrow discontinuous carbonate-pyrite veinlets.</p>								
			6798		53.5	58.2	4.7			tr.
			6799		58.2	62.2	4.0			tr.
62.2	91.6	<p>BANDED IRON FORMATION - bands of light grey, and dark grey to black, well banded (1/8" to 1/4"), fine grained, weak to moderately contorted.</p> <p><u>Average Modes</u></p> <p>Quartz 40 - 50% Grunerite 30 - 40% Magnetite 12 - 15% Hornblende 7 - 10% Carbonate 0.5 - 1%</p>								

LANGRIDDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-18 SHEET NO. 3 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
		Chlorite 0.5 - 1%								
		Pyrrhotite 0.5 - 1%								
		Bands of chert and grunerite-magnetite with grunerite halo between iron-rich and chert bands. Pyrrhotite occurs in carbonate-quartz-chlorite veinlets. Often visible movement along microfractures and veinlets.								
		- 62.2 - 68.0 - poorly banded, abundant chloritic fractures, quite broken.	6800		62.2	66.0	3.8			tr.
		- 68.0 - 83.0 - typical.	16601		66.0	71.0	5.0			tr.
		- 71.8 - banded at 63° to core axis.	16602		71.0	76.0	5.0			tr.
		- 72.6 - veinlet with limonite (oxidized sulphides).	16603		76.0	80.0	4.0			tr.
		- 81.0 - banded at 65° to core axis.	16604		80.0	83.0	3.0			tr.
		- 83.0 - 89.0 - poorly banded.								
		- 83.4 - 84.2 - quartz vein and adjacent veins.	16605		83.0	85.0	2.0			tr.
		Veins contain stranded wisps of iron formation,	16606		85.0	88.6	3.6			tr.
		1/32" hematitic veinlet cuts across the veinlets at	16607		88.6	91.6	3.0			tr.
		84.1. Trace to 0.5% pyrite/pyrrhotite in fractures within vein/veinlets.								
		- 89.0 - 91.6 - typical.								
91.6	138.0	<u>ULTRAMAFIC VOLCANICS</u> - light to medium grey, well foliated, fine grained.								
		<u>Average Modes</u>								
		Talc 40 - 50%								
		Magnesite 15 - 20%								
		Serpentine 15 - 20%								
		Tremolite 10 - 20%								
		Magnesite both as veinlets, bands and disseminated. No visible sulphides.								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-18 SHEET NO. 4 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	G/TON	GZ TON
					FROM	TO	TOTAL			
		- 91.6 - 92.9 - dark green, weakly foliated, fine to very fine grained, grades from dominantly tremolite-plagioclase to typical as described.	16608		91.6	92.9	1.3			tr.
		- 92.5 - 92.7 - 2" section laminated with minor garnet and strong pyrrhotite/pyrite mineralization.								
		- 92.9 - 110.0 - typical with increased magnesite as bands from 105.0 to 107.0.								
		- 110.0 - 128.5 - lighter grey, decreased serpentine.								
		- 128.5 - 138.0 - increase in serpentine and decrease in magnesite to 131.0 where dominantly serpentine-talc with 0.5-1% magnesite, medium green to medium brown.								
138.0	172.5	<u>BANDED IRON FORMATION</u> - typical as in 62.2 - 91.6, moderately banded, moderate to highly contorted, decrease in grunerite to 15-20%, 0.5-1% pyrrhotite along fractures and in contorted banding.								
		- 138.0 - 143.8 - typical.	16609		138.0	143.0	5.0			.01
		- 139.1 - 139.3 - several quartz veinlets (1/16") commonly at 35° to 40° to core axis; no visible sulphides in veinlets.								
		- 143.8 - 149.6 - several near massive magnetite bands; banding contorted with few fold closures.	16610		143.0	148.0	5.0			tr.
		- 149.6 - 153.8 - contorted bands, with angles often near parallel to core axis and several fold closures. Folding appears irregular. 20-25% magnetite.	16611		148.0	153.0	5.0			tr.
		- 153.8 - 168.5 - typical composition but still contorted banding.	16612		153.0	158.0	5.0			tr.
			16613		158.0	163.0	5.0			tr.
			16614		163.0	168.0	5.0			tr.
		- 168.5 - 172.5 - contorted, increased chert bands, 60-70% quartz; 3-5% magnetite; 25-30% amphibole; 5-7% garnet; trace to 0.5% pyrrhotite.	16615		168.0	172.5	4.5			tr.
172.5	197.2	<u>ULTRAMAFIC VOLCANICS</u> - typical as in 91.6 - 138.0, no visible sulphides.								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-18 SHEET NO. 5 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 172.5 - 174.4 - dominantly serpentine and talc as in 128.5 - 138.0.									
		- 174.4 - 177.8 - dominantly talc-carbonate with several bands of magnesite similar to 92.9 - 110.0.									
		- 177.8 - 197.2 - typical.	16616		194.2	197.2	3.0			tr.	
		- 195.1 - quartz-carbonate-feldspar veinlet, discontinuous, no visible sulphides.									
		- 196.2 - quartz-carbonate-feldspar veinlet, discontinuous, no visible sulphides.									
197.2	217.4	<u>BANDED IRON FORMATION</u> - well banded, light grey and dark green to black, fine grained, contorted.									
		<u>Average Modes</u>									
		Quartz 30 - 40%									
		Grunerite 20 - 25%									
		Biotite 15 - 20%									
		Hornblende 10 - 15%									
		Garnet 5 - 7%									
		Sulphide 0.5 - 1%									
		Pyrite and pyrrhotite occurs in parallel to highly contorted bands and in quartz-carbonate veinlets. Several quartz-feldspar veinlets occur with alteration haloes of 1/8" to 1/4" and are commonly at 30° to core axis. The haloes are commonly light green and reddish-brown (chalcedony). Veinlets with alteration haloes contain no visible sulphides and are at large angles to axial plane of microfolds.									
		- 197.2 - 215.0 - as described; veinlets with alteration haloes every 2 to 3 feet.	16617		197.2	202.0	4.8			.04	
			16618		202.0	207.0	5.0			tr.	
			16619		207.0	211.0	4.0			tr.	
		- 198.0 - 200.5 - axial planes of microfolds at 45° to 55° to core axis. Frequency is 1" to 3".	16620		211.0	215.0	4.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-18 SHEET NO. 6 of 7

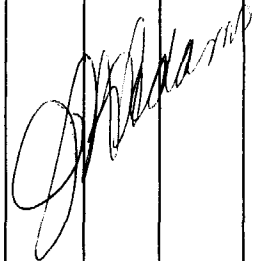
FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON		
					FROM	TO					TOTAL	
217.4	223.4	- 215.0 - 217.4 - silicified? increase in quartz with decrease in magnetite. 3-5% pyrite and 1-2% pyrrhotite in quartz-sulphide veinlets and microfractures.	16621		215.0	217.4	2.4			tr.		
		<u>MAFIC TO INTERMEDIATE TUFF</u> - dark green, fine grained, laminated to banded.										
		<u>Average Modes</u>										
		Amphibole 50 - 60%										
		Quartz 20 - 25%										
		Plagioclase 15 - 20%										
		Pyrrhotite 2 - 3%										
		Pyrite 0.5 - 1%										
		Laminations and bands of hornblende-actinolite, quartz and plagioclase. Sulphides are dominantly within or parallel to bands. Minor sulphide occurs as fracture fillings.										
223.4	298.0	- 217.4 - 219.2 - 0.5-1% sulphide.	16622		217.4	221.4	4.0			tr.		
		- 219.2 - 221.3 - 7-10% sulphide.										
		- 221.3 - 223.4 - 0.5-1% sulphide.	16623		221.4	223.4	2.0			tr.		
		<u>ULTRAMAFIC VOLCANICS</u>										
		- 223.4 - 255.0 - typical as in 91.6 - 138.0.										
		- 242.4 - 246.9 - several 1" bands of calcite with serpentine clots. No visible sulphides.	16624		242.4	246.9	2.5			tr.		
		- 255.0 - 268.5 - dominantly tremolite with 10-15% phlogopite and 3-5% serpentine, trace disseminated sulphide.	16625		255.0	260.0	5.0			tr.		
		Several quartz-plagioclase veinlets with light green and red alteration haloes.	16626		260.0	265.0	5.0			tr.		
- 268.5 - 288.0 - tremolite-serpentine-phlogopite with minor talc.	16627		265.0	268.5	3.5			.01				
		- 274.7 - 277.7 - few quartz-calcite veinlets. No visible sulphides.	16628		274.7	277.7	3.0			.03		

LANGRIDGES - TORONTO - 365-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-18 SHEET NO. 7 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 284.4 - 285.7 - few quartz and calcite-quartz veinlets; no visible sulphides.	16629		284.4	286.4	2.0			tr.	
		- 288.0 - 298.0 - similar to 255.0 - 268.5 with several quartz plagioclase veinlets. Brownish-red staining of quartz within veinlets similar to that in alteration halo veinlets in unit 255.0 - 268.5.	16630 16631		288.0 293.0	293.0 298.0	5.0 5.0			tr. tr.	
298.0		End of Hole.									



DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-19 LENGTH 249'
 LOCATION 14+00NW 0+98SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -46.8°
 STARTED November 16, 1986 FINISHED November 17, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-46.8°				
249'	-34.0°				

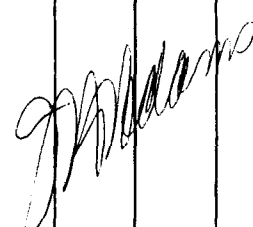
HOLE NO. OP-86-19 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 844238

LOGGED BY B. E. Elliott

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPH IDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0	30.0	<u>CASING</u>									
30.0	31.6	<u>BANDED IRON FORMATION</u>									
31.6	42.3	<u>GARNET-BIOTITE METASEDIMENT</u>									
42.3	64.4	<u>BANDED IRON FORMATION</u> - several narrow intervals with 2-5% pyrrhotite as wispy veinlets and clots, trace chalcopyrite. - 48.5 - 49.0 - fine fractures with pyrrhotite and trace chalcopyrite.	6898		47.3	52.3	5.0			.07	
64.4	65.9	<u>ULTRAMAFIC VOLCANIC</u>									
65.9	81.7	<u>BANDED IRON FORMATION</u>									
81.7	82.9	<u>ULTRAMAFIC TO MAFIC VOLCANIC</u>									
82.9	91.4	<u>BANDED IRON FORMATION</u> - 87.9 - 1/4" quartz-carbonate veinlet with 10% pyrrhotite.									
91.4	92.5	<u>ULTRAMAFIC TO MAFIC VOLCANIC</u>									
92.5	245.9	<u>BANDED IRON FORMATION</u>									
245.9	247.5	<u>LAMPROPHYRE DIKE</u>									
247.5	249.0	<u>BANDED IRON FORMATION</u>									
249.0		End of Hole.									



LAMPROPHYRE - ULTRAMAFIC - 106-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-19 LENGTH 249'
 LOCATION 14+00NW 0+98SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP - 46.8°
 STARTED November 16, 1986 FINISHED November 17, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-46.8°				
249'	-34.0°				

HOLE NO. OP-86-19 SHEET NO. 1 of 8

REMARKS _____

PA - 844238

LOGGED BY B. E. Elliott

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	oz/TON	oz/TON	
					FROM	TO	TOTAL				
0	30.0	<u>CASING</u>									
30.0	31.6	<u>BANDED IRON FORMATION</u> - medium grey to dark grey to black, fine grained, well banded with fine interlamination. <u>Average Modes</u> Chert 60% Magnetite 15% Hornblende 15% Garnet 5% Biotite 5% Grunerite 1 - 2% Pyrite trace Poikiloblastic, pink garnets (1/16"). 75% blue-grey to dark grey chert-magnetite bands; 25% black hornblende-biotite-garnet bands. Minor grunerite on edges of chert-magnetite bands. Garnet-hornblende bands average 1/4", chert-magnetite bands 1/4" to 1". Banding commonly 63° to core axis. Minor chlorite as fracture coatings. Few hairline fractures with carbonate. Numerous fine displacement fractures. Trace pyrite as disseminations. - 30.8 - 1/8" carbonate veinlet.	6893		30.0	31.6	1.6			tr.	
31.6	42.3	<u>GARNET-BIOTITE METASEDIMENT</u> - green to medium grey to black, medium to fine grained, moderate to poorly banded, schistose. <u>Average Modes</u> Biotite 65% Garnet 15% Chert 10%									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-19 SHEET NO. 2 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON
				FROM	TO	TOTAL				
		Grunerite 8% Magnetite 0.5 - 2% Pyrite trace 80% black, up to 4" wide biotite-garnet bands; 20% green to medium grey, up to 1/4" chert-magnetite-grunerite bands. Some garnet-rich areas have increased grunerite content. Pyrite occurs as fine disseminations and as fracture coatings. Few 1/8" carbonate-chlorite veinlets parallel to banding. - 33.0 - 33.3 - shearing with quartz-carbonate veining and trace disseminated pyrite. Rare hairline cross-cutting carbonate veinlets.								
			6894	31.6	36.6	5.0				tr.
			6895	36.6	40.6	4.0				tr.
			6896	40.6	42.3	1.7				tr.
42.3	64.4	<u>BANDED IRON FORMATION</u> - green to blue-grey to dark grey, fine grained, well banded. <u>Average Modes</u> Chert 55 - 60% Grunerite 15 - 20% Magnetite 10 - 15% Biotite 2 - 3% Garnet - 1% Pyrite trace - 5% Pyrrhotite trace Chalcopyrite trace Blue-grey to grey chert-rich bands. Dark grey magnetite-rich bands. Pale creamy green to green grunerite-rich bands. Rare garnet-biotite-rich bands. - 42.3 - 49.0 - 1/4" to 1" chert-magnetite bands with fine inter-laminations, 1/16" grunerite bands, garnet-biotite bands up to 1/2". Many chert bands display boudin structure. Bands moderately contorted. Some chert-rich bands brecciated. Banding commonly 65° to core axis. Several carbonate veinlets, parallel to and crosscutting with fine clots of pyrite and pyrrhotite. Few carbonate-amphibole veinlets. Sulphides as fracture coatings.								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-19 SHEET NO. 3 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 44.6 - 1/2" carbonate-chlorite shear with amorphous sulphides.	6897		42.3	47.3	5.0			tr.	
		- 48.5 - 49.0 - fine fractures with pyrrhotite and trace chalcopryrite.	6898		47.3	52.3	5.0			.07	
		- 49.0 - 49.8 - hornblende-rich zone with 0.5% magnetite and fine wispy veinlets of pyrrhotite.									
		- 49.8 - 64.4 - similar to 43.2 - 49.0. Up to 25% grunerite, 20-30% magnetite with some bands of massive magnetite. Banding moderately contorted. Banding becomes thicker and more distinct near base of section. 1/4" grunerite bands rimming magnetite-rich and chert-rich bands. Rare biotite-garnet bands. Uncontorted bands commonly 65° to core axis. Several 1/4" to 1/2" quartz veins.									
		- 50.4 - 52.8 - sheared zone with crosscutting carbonate veinlets and chlorite alteration. Brecciated chert bands. 30% grunerite, 15% magnetite. Up to 3% pyrrhotite as wispy veinlets and clots. Tourmaline?									
		- 54.0 - 1/4" zone with 5% pyrrhotite, 2% pyrite, chlorite.	6899		52.3	57.3	5.0			.03	
		- 55.0 - 56.1 - sheared zone with intense carbonate alteration, 30% grunerite, up to 5% pyrrhotite and 2% pyrite as wispy fracture filling and as clots.									
		- 56.5 - 57.0 - 1" quartz vein with chlorite.	6900		57.3	62.3	5.0			tr.	
		- 63.6 - 63.9 - quartz vein.	6901		62.3	64.4	2.1			tr.	
64.4	65.9	<u>ULTRAMAFIC VOLCANIC</u> - grey-green, medium to fine grained, schistose, chloritic alteration along fractures.	6902		64.4	65.9	1.5			tr.	
		<u>Average Modes</u>									
		Talc					40%				
		Serpentine					30%				
		Tremolite					10%				
		Magnesite?					10%				

LANGRIDGES - TORONTO - 366-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-19 SHEET NO. 4 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
65.9	81.7	<p><u>BANDED IRON FORMATION</u> - mineralogy and textural features typical, very rare biotite-garnet bands, few local areas with fine interlam- inations within chert-magnetite bands, 10-15% magnetite, few car- bonate veinlets, few 1/2" to 2" quartz veins, banding commonly 70° to core axis.</p> <p>- 66.5 - 66.7 - sheared zone with carbonate and amphibole.</p> <p>- 72.7 - beginning to get few bands of creamy orange-green chert.</p> <p>- 76.8 - 77.0 - quartz vein with 5% pyrrhotite and trace chalcopyrite - 0.2' shear on each side.</p> <p>- 77.5 - 78.0 - quartz vein with minor pyrrhotite as fracture coatings.</p>	6903		65.9	70.9	5.0			.01	
			6904		70.9	75.9	5.0			tr.	
			6905		75.9	79.9	4.0			.02	
			6906		79.9	81.7	1.8			tr.	
81.7	82.9	<p><u>ULTRAMAFIC TO MAFIC VOLCANIC</u> - green-grey to grey, fine grained, schistose, faint banding?</p> <p><u>Average Modes</u></p> <p>Serpentine 40%</p> <p>Talc 30%</p> <p>Tremolite]- 25%</p> <p>Actinolite]-</p> <p>Magnesite 5%</p>	6907		81.7	82.9	1.2			tr.	
82.9	91.4	<p><u>BANDED IRON FORMATION</u> - creamy orange-green to blue-grey to dark grey, fine grained, well to poorly banded, schistose. 50% blue- grey to grey chert-magnetite bands; 30% pale green to grey chert- grunerite bands; 20% creamy orange-green chert-grunerite bands. Rare biotite-garnet bands. Well banded commonly 70° to core axis. Few fine clots and veinlets of pyrrhotite.</p> <p>- 83.8 - 84.6 - massive creamy orange-green chert with grunerite but no magnetite.</p> <p>- 85.8 - veinlets and clots of pyrrhotite.</p> <p>- 87.9 - 1/4" quartz-carbonate veinlet with 10% pyrrhotite.</p>	6908		82.9	87.9	5.0			tr.	
			6909		87.9	91.4	3.5			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-19 SHEET NO. 5 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
		- 91.0 - 91.4 - quartz vein, no visible sulphides.								
91.4	92.5	<u>ULTRAMAFIC TO MAFIC VOLCANIC</u> - similar to 81.7 - 82.9 but dominated by tremolite-actinolite, 0.5% magnetite in fine band.	6910		91.4	92.5	1.1			tr.
92.5	245.9	<u>BANDED IRON FORMATION</u> - creamy orange-green to pale green-grey to dark grey, fine grained, weakly to moderately banded, section dominated by up to 3" bands of chert-magnetite commonly with 15% magnetite. Pale green, up to 1/4" grunerite-rich bands often with darker amphibole. Few 3" wide bands of orangy-green chert and grunerite with no magnetite. Many quartz veins but may be re-crystallized chert. Few 1/4" carbonate-chlorite shears with many sulphides. Numerous parallel and crosscutting carbonate veinlets with minor pyrrhotite. Several fine clots and veinlets of pyrite and pyrrhotite. Rare poikiloblastic garnets.								
		- 94.6 - 95.5 - silicified zone with dark green hornblende. Minor sulphides as very fine veinlets.	6911		92.5	97.5	5.0			.02
		- 99.4 - pyrrhotite and pyrite as fine clots and veinlets.	6912		97.5	102.5	5.0			tr.
		- 106.1 - 106.3 - quartz vein with 5% pyrrhotite, 1% pyrite and trace chalcopyrite.	6913		102.5	107.5	5.0			.01
			6914		107.5	112.5	5.0			.01
		- 112.3 - carbonate-chlorite shear with 1% pyrrhotite.	6915		112.5	117.5	5.0			tr.
		- 122.0 - 122.2 - quartz vein with trace sulphide.	6916		117.5	122.5	5.0			.01
		- 122.3 - 122.5 - carbonate-chlorite shear with sulphides as fracture coatings.								
		- 122.5 - 129.0 - regular, 1/4" to 3/4" bands. Magnetite-rich, chert-rich and grunerite-rich. Rare garnet-biotite and/or hornblende bands. Many chert boudins. Banding commonly 75° to core axis. Several fine clots and veinlets of pyrite and/or pyrrhotite.	6917		122.5	127.5	5.0			.01
			6918		127.5	132.5	5.0			tr.
		- 129.0 - 142.5 - moderate to highly contorted bands often almost parallel to core axis. Several 1/2" thick bands of massive magnetite. Few clots and fine veinlets of pyrite and/or	6919		132.5	137.5	5.0			tr.
		ite.	6920		137.5	142.5	5.0			.02

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-19 SHEET NO. 6 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 142.5 - several carbonate veinlets with pyrrhotite clots.	6921		142.5	147.5	5.0			tr.	
		- 149.5 - 154.0 - numerous fine pyrrhotite filled fractures with fine blebs of arsenopyrite.	6922		147.5	152.5	5.0			.01	
			6923		152.5	157.5	5.0			tr.	
		- 154.0 - brecciated zone with pyrrhotite, arsenopyrite and chlorite.									
		- 159.8 - banding 70° to core axis.	6924		157.5	162.5	5.0			tr.	
		- 160.1 - 1/4" carbonate vein.									
		- 161.0 - sheared and brecciated zone with carbonate and 5% pyrrhotite.									
		- 172.2 - 172.6 - quartz vein with 3% pyrrhotite in fractures.	6925		162.5	167.5	5.0			tr.	
			6926		167.5	172.5	5.0			.01	
		- 174.2 - 174.5 - quartz vein but no visible sulphides.	6927		172.5	177.5	5.0			.01	
		- 176.0 - banding 68° to core axis.									
		- 179.0 - 197.6 - banding weakly to moderately contorted. 70% chert-magnetite bands with 25-30% magnetite. Some fine interlamination within chert-magnetite bands. Bands up to 3" wide. Grunerite bands 1/4" to 1/2" wide. Few thin carbonate veinlets both crosscutting and parallel to banding.	6928		177.5	182.5	5.0			.02	
		- 182.9 - fine pyrrhotite veinlets and clots.	6929		182.5	187.5	5.0			tr.	
		- 184.5 - 1/4" carbonate veinlet with 2% pyrrhotite in narrow halo.									
		- 186.0 - 186.3 - pyrrhotite veinlets and clots with trace arsenopyrite.									
		- 187.0 - banding 72° to core axis.	6930		187.5	192.5	5.0			tr.	
		- 195.0 - banding 70° to core axis.	6931		192.5	197.5	5.0			tr.	
		- 197.6 - 217.7 - well banded but moderately to highly contorted. Rare creamy orange chert. Few brecciated chert bands with grunerite in									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-19 SHEET NO. 7 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		fractures. Bands generally 1/4" to 1".									
		- 198.1 - 198.4 - quartz vein with trace disseminated sulphide.	6932		197.5	202.5	5.0			tr.	
		- 203.8 - 5% wispy pyrrhotite with trace chalcopyrite	6933		202.5	207.5	5.0			.01	
		- 204.2 - 1" quartz vein with rare pyrrhotite.									
		- 205.0 - 2" carbonate-chlorite shear with 2% pyrrhotite as wispy veins and fracture coatings.									
		- 207.8 - 212.6 - numerous hairline carbonate fractures with wispy pyrrhotite as veinlets and clots.	6934		207.5	212.5	5.0			.02	
		- 212.7 - fine pyrrhotite veinlet.	6935		212.5	217.5	5.0			tr.	
		- 217.7 - 237.3 - well banded but highly contorted. Bands generally 1/4" to 1" wide. Some 2" wide chert-magnetite bands.									
		- 220.4 - 1/4" crosscutting carbonate veinlet with minor pyrrhotite as fracture coatings.	6936		217.5	222.5	5.0			tr.	
		- 221.3 - 1/4" carbonate filled shear with trace sulphide.	6937		222.5	227.5	5.0			.03	
		- 228.4 - fine pyrrhotite veinlet.	6938		227.5	232.5	5.0			.02	
		- 231.1 - 1/8" pyrrhotite veinlet with trace arsenopyrite.									
		- 232.5 - 237.3 - banding almost parallel to core axis but highly contorted. Local areas of brecciation and displacement fractures. Numerous fine clots and wispy veinlets of pyrrhotite.	6939		232.5	237.5	5.0			.01	
		- 237.3 - 243.4 - typical, numerous pyrrhotite clots throughout.									
		- 237.3 - 238.7 - carbonate-chlorite alteration. Numerous clots and wispy veinlets and pyrrhotite.	6940		237.5	242.5	5.0			tr.	
			6941		242.5	245.9	3.4			tr.	

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-19 SHEET NO. 8 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 242.5 - 242.9 - minor carbonate alteration, 5% pyrrhotite, 0.5% chalcopyrite.									
		- 243.4 - 245.9 - numerous fine displacement fractures with carbonate filling. Few 1/4" to 1/2" quartz-carbonate veins. Numerous pyrrhotite veinlets and clots.									
245.9	247.5	<u>LAMPROPHYRE DIKE</u> - typical, fine disseminated sulphides. Several fine carbonate veinlets and many fine flecks of carbonate.	6942		245.9	247.5	1.6			tr.	
247.5	249.0	<u>BANDED IRON FORMATION</u> - typical, well banded, little deformation.	6943		247.5	249.0	1.5			tr.	
249.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-20 LENGTH 248'
 LOCATION 15+00NW 1+98NE
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 229° DIP -45.5°
 STARTED November 25, 1986 FINISHED November 26, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.5°				
248'	-34.3°				

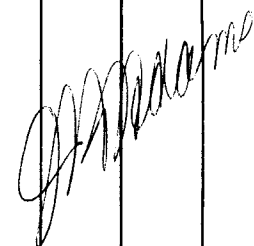
HOLE NO. OP-86-20 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 844239

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	15.3	<u>CASING</u>									
15.3	43.1	<u>MAFIC VOLCANICS</u>									
43.1	77.5	<u>GARNETIFEROUS METASEDIMENT</u>									
77.5	104.2	<u>BANDED IRON FORMATION</u>									
104.2	113.7	<u>GARNETIFEROUS METASEDIMENT</u>									
113.7	119.4	<u>BANDED IRON FORMATION</u>									
		- 117.4 to 118.6 - irregular quartz vein/veinlets with 0.5 to 1.0% pyrrhotite.	16817		117.4	119.4	2.0			.17	
119.4	122.4	<u>LAMPROPHYRE DIKE</u>									
122.4	128.0	<u>BANDED IRON FORMATION</u>									
128.0	132.8	<u>GARNETIFEROUS METASEDIMENT</u>									
132.8	174.0	<u>BANDED IRON FORMATION</u>									
174.0	182.2	<u>INTERBEDDED BANDED IRON FORMATION and GARNETIFEROUS METASEDIMENTS</u>									
182.2	195.2	<u>GARNETIFEROUS METASEDIMENT</u>									
195.2	248.0	<u>BANDED IRON FORMATION</u>									
248.0		End of Hole.									



DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-20 LENGTH 248'
 LOCATION 15+00NW 1+98NE
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 229° DIP -45.5°
 STARTED November 25, 1986 FINISHED November 26, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.5°				
248'	-34.3°				

HOLE NO. OP-86-20 SHEET NO. 1 of 7

REMARKS _____

PA - 844239

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	oz/TON	oz/TON
					FROM	TO	TOTAL				
0	15.3	<u>OVERBURDEN</u> - casing to 15.0'.									
15.3	43.1	<u>MAFIC VOLCANICS</u> - dark grey to black, fine to very fine grained, massive to weakly foliated. Mineralogy dominated by hornblende and actinolite with minor plagioclase and quartz. Trace disseminated pyrite. - 17.0 to 18.3 - few quartz veinlets with no visible sulphides. Veinlets near parallel to core axis. - 21.5 - 1" quartz veinlet; no visible sulphides.	16799		17.0	19.0	2.0			tr.	
			16800		21.0	22.0	1.0			tr.	
43.1	77.5	<u>GARNETIFEROUS METASEDIMENTS</u> - dark brown with pink poikiloblasts, massive, fine grained, schistose. <u>Average Modes</u> Biotite 50 - 60% Garnet 15 - 20% Quartz 15 - 20% Hornblende 10 - 15% Calcite trace - 0.5% Garnet poikiloblasts (1/16" to 1/8") in biotite-quartz or hornblende matrix. Several fine quartz veinlets. Pyrite and pyrrhotite occur both within quartz veinlets or adjacent to them. - 43.1 to 45.1 - several 1/4" quartz bands, no visible sulphides. - 45.1 to 61.5 - 0.5 to 1.0% hornblende; dominantly garnets in biotite-quartz. - 55.0 - 1/2" silicified bands containing a cluster	16801		43.1	48.0	4.9			tr.	
			16802		48.0	53.0	5.0			tr.	
			16803		53.0	58.0	5.0			tr.	
			16804		58.0	63.0	5.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-20 SHEET NO. 2 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
		of quartz veinlets, contains limonite and pyrite.								
		- 61.5 to 63.3 - few garnets and matrix dominantly chlorite, with few 1/2" quartz bands.								
		- 63.3 to 66.8 - larger poikiloblasts than typical (up to 1/4") with the matrix dominated by hornblende. Trace pyrite along chloritic fracture.	16805		63.0	68.0	5.0			tr.
		- 66.8 to 71.0 - similar to above but only 3.0 to 5.0% garnet.	16806		68.0	73.0	5.0			tr.
		- 67.2 - quartz-calcite veinlets.								
		- 70.5 to 70.8 - quartz vein with no visible sulphides.								
		- 71.0 to 77.5 - 40 to 50% garnet occurring as closely spaced poikiloblasts and as near massive bands. Several chert bands with few containing 0.5 to 1.0% magnetite.	16807		73.0	77.5	4.5			tr.
77.5	104.2	BANDED IRON FORMATION - dark grey to black with pink poikiloblastic garnets, moderately banded, fine to very fine grained. Generally consists of bands of quartz-magnetite and garnet-amphibole-biotite (1/4" to 1/2").								
		<u>Average Modes</u>								
		Quartz 25 - 30%								
		Garnet 15 - 20%								
		Hornblende 15 - 20%								
		Biotite 10 - 15%								
		Magnetite 10 - 12%								
		Grunerite 5 - 7%								
		Calcite 1 - 3%								
		Chlorite 1 - 3%								
		Sulphide trace								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-20 SHEET NO. 3 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	GT TON	GT TON
					FROM	TO				TOTAL
		Pyrite and pyrrhotite occur as fine fracture fillings. Few, fine randomly oriented calcite filled fractures. Bands weakly contorted with crenulation visible in many bands.							
		- 77.5 to 81.7 - typical.	16808		77.5	82.0	4.5		.06
		- 80.5 - banded at 15° to core axis.							
		- 81.7 to 84.5 - well banded with highly visible crenulations at high angle to banding.	16809		82.0	87.0	5.0		.01
		- 83.0 - band at 10° to core axis.							
		- 84.5 to 92.6 - quartz-magnetite contain intraband laminations.	16810		87.0	92.0	5.0		tr.
		- 86.8 to 88.5 - several microfolds with axial plane at 10° to 15° to core axis; amplitude of 1" and frequency of 1/2".							
		- 92.6 to 104.2 - poorly banded, with garnets in a matrix of amphibole-magnetite and quartz. Grades into unit below and is an iron-rich garnetiferous meta-sediment.	16811		92.0	97.0	5.0		tr.
			16812		97.0	101.0	4.0		tr.
			16813		101.0	104.2	3.2		tr.
104.2	113.7	<u>GARNETIFEROUS METASEDIMENTS</u> - atypical with 25 to 30% garnets, poorly banded. Few quartz-plagioclase veinlets (1/16" wide) containing no visible sulphides (45° to core axis).	16814		104.2	109.2	5.0		tr.
			16815		109.2	113.7	4.5		tr.
		- 104.2 to 105.0 - typical.							
		- 105.0 to 105.5 - heavily chloritic in matrix between garnets. Two 1" wide ground sections.							
		- 105.5 to 113.7 - typical.							
113.7	119.4	<u>BANDED IRON FORMATION</u> - similar to 77.4 to 104.2, poorly banded, typically at 30° to the core axis. Contains few "z" folds, with amplitude of 1", frequency of 1" and axial plane at 30° to core axis. Trace to 0.5% sulphide.	16816		113.7	117.4	3.7		tr.
			16817		117.4	119.4	2.0		.17

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-20 SHEET NO. 4 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
		- 113.7 to 117.4 - typical.								
		- 117.4 to 118.6 - quartz veinlets to 117.9 and quartz vein from 117.9 to 118.6. Veinlets have irregular boundaries. 0.5 to 1.0% pyrrhotite at contact of vein and wall rock and with wisps of wall rock within vein/veinlets.								
		- 118.6 to 119.4 - typical.								
119.4	122.4	<u>LAMPROPHYRE DIKE</u> - black, massive, porphyritic, fine grained with medium grained phenocrysts, Phenocrysts are subhedral to anhedral. Carbonate occurs as veinlets and disseminated grain replacement (5-7%). Dike dominantly consists of serpentized phenocrysts (pseudomorphs) and serpentine-chlorite in the matrix with carbonate and minor phlogopite. Contact at 119.4 is at 32° to core axis. Well defined chill margins which are separated from main dike by calcite veinlets.	16818		119.4	122.4	3.0		.01	
122.4	128.0	<u>BANDED IRON FORMATION</u> - similar to 113.7 to 119.4, trace to 0.5% sulphide.	16819		122.4	125.0	2.6		tr.	
			16820		125.0	128.0	3.0		.02	
128.0	132.8	<u>GARNETIFEROUS METASEDIMENTS</u> - atypical, 40 to 50% garnet (1/32" to 1/16"). Few bands containing 1 to 2% magnetite and minor grunerite. Few quartz veinlets with no visible sulphides.	16821		128.0	132.8	4.8		.01	
132.8	174.0	<u>BANDED IRON FORMATION</u> - 1/4" to 1/2" bands of light grey and dark grey to black, fine to very fine grained, well defined bands with 1/16" grunerite rim between chert and magnetite-rich bands. Dark bands contain magnetite-grunerite-quartz while light bands contain quartz ± grunerite ± magnetite. Most bands display fine laminations.								
		<u>Average Modes</u>								
		Quartz 40 - 50%								
		Magnetite 20 - 25%								
		Grunerite 15 - 20%								
		Hornblende 1 - 3%								
		Calcite 1 - 2%								
		Chlorite trace - 0.5%								
		trace - 0.5%								

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-20 SHEET NO. 5 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		Banding occurs at low angle to core axis. Most chert bands have been boudinaged. Pyrrhotite and pyrite occur dominantly parallel to banding in contorted sections and adjacent to chert boudins. Local sulphide concentrations of up to 2%. Calcite occurs as disseminated grains within bands and few veinlets. Chlorite occurs as fracture coatings.									
		- 132.8 to 139.7 - highly contorted bands.	16822		132.8	136.7	3.9			.02	
			16823		136.7	139.7	3.0			tr.	
		- 132.9 to 133.2 - calcite veinlet with wisps of wall rock and no visible sulphides.									
		- 139.7 to 141.2 - sheared at 45° to core axis with strong quartz-calcite mineralization, minor tourmaline and 2 to 4% pyrrhotite. Sulphide occurs generally near edge of zone and with wisps of wall rock within quartz.	16824		139.7	141.2	1.5			tr.	
		- 141.2 to 152.3 - typical with banding near parallel to core axis. Low amplitude folds are common with frequency often 4" to 12". Abundant boudinaging of chert bands.	16825		141.2	146.0	4.8			.03	
			16826		146.0	149.0	3.0			tr.	
			16827		149.0	152.0	3.0			tr.	
		- 152.3 to 152.7 - brecciated with calcite filling and 1 to 3% pyrite as blebs in calcite.	16828		152.0	153.0	1.0			tr.	
			16829		153.0	158.0	5.0			tr.	
			16830		158.0	163.0	5.0			tr.	
		- 152.7 to 173.4 - similar to 141.2 to 152.3 with trace to 0.5% pyrrhotite.	16831		163.0	168.0	5.0			tr.	
			16832		168.0	173.0	5.0			tr.	
			16833		173.0	174.0	1.0			tr.	
		- 156.0 to 157.0 - 1 to 2% pyrrhotite at contact of chert and magnetite bands and in fractures.									
		- 173.4 to 173.6 - brecciated with 15 to 20% calcite filling. Many fragments have been chloritized.									
		- 173.6 to 174.0 - typical.									
174.0	182.2	<u>INTERBEDDED BANDED IRON FORMATION AND GARNETIFEROUS METASEDIMENTS</u> -	16834		174.0	178.0	4.0			tr.	
		40 to 50% Banded Iron Formation, 50 to 60% Garnetiferous Bands,	16835		178.0	182.2	4.2			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-20 SHEET NO. 6 of 7

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		well defined bands. Banded Iron Formation is similar to 132.8 to 174.0. Garnetiferous bands are similar to 128.0 to 132.8 but with 3 to 5% magnetite. Banding near parallel to core till 177.5 and 25° to core axis from 177.5 to 182.2. Trace sulphides.									
182.2	195.2	<u>GARNETIFEROUS METASEDIMENT</u> - similar to 128.0 to 132.8, trace sulphide. - 183.0 - banded at 10° to core axis. - 189.0 - banded at 20° to core axis. - 193.0 - banded at 70° to core axis.	16836 16837 16838		182.2 187.2 192.2	187.2 192.2 195.2	5.0 5.0 3.0			tr. tr. tr.	
195.2	248.0	<u>BANDED IRON FORMATION</u> - similar to 132.8 to 174.0 but with grunerite rims of up to 1/4". Bands are weak to moderately contorted and are at a high angle to core axis. Trace to 0.5% pyrrhotite. - 195.2 to 200.7 - typical. - 199.0 - banded at 55° to core axis. - 200.7 to 204.0 - 10 to 15% garnet-biotite bands. - 204.0 to 223.5 - typical. - 215.0 - banded at 57° to core axis. - 223.5 to 223.8 - quartz vein, no visible sulphides. - 223.8 to 231.3 - typical. - 225.0 - banded at 45° to core axis. - 227.5 to 228.5 - 0.5% pyrrhotite in fractures in quartz veinlets and parallel to bands. - 231.3 to 232.3 - quartz vein with trace pyrite, several wisps of wall rock.	16839 16840 16841 16842 16843 16844 16845 16846 16847		195.2 200.0 205.0 205.0 210.0 215.0 220.0 225.0 227.5 231.2 231.2	200.0 205.0 210.0 215.0 220.0 225.0 227.5 231.2 233.2	4.8 5.0 5.0 5.0 5.0 5.0 2.5 3.7 2.0			tr. tr. tr. tr. tr. tr. tr. tr. tr.	

LANGRANGES - TORONTO - 386-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-20 SHEET NO. 7 of 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 232.3 to 232.7 - typical.									
		- 232.7 to 233.2 - quartz vein with 0.5% pyrrhotite in fractures in vein.	16848		233.2	238.0	4.8			tr.	
			16849		238.0	243.0	5.0			.01	
			16850		243.0	248.0	5.0			tr.	
		- 233.2 to 248.0 - moderately contorted bands.									
248.0		End of Hole.									

J. Williams

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-21 LENGTH 298'
 LOCATION 10+03NW 0+97NE
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -44.7°
 STARTED November 25, 1986 FINISHED November 26, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-44.7°				
298'	-37.5°				

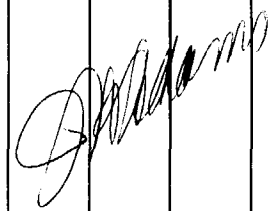
HOLE NO. OP-86-21 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	19.8	<u>CASING</u>									
19.8	91.3	<u>BANDED IRON FORMATION</u>									
91.3	96.9	<u>GARNETIFEROUS METASEDIMENTS</u>									
96.9	100.8	<u>BANDED IRON FORMATION</u>									
100.8	114.7	<u>GARNETIFEROUS METASEDIMENTS</u>									
114.7	129.5	<u>INTERBEDDED BANDED IRON FORMATION and GARNETIFEROUS METASEDIMENTS</u>									
129.5	151.0	<u>MAFIC TO INTERMEDIATE VOLCANIC (TUFF)</u>									
151.0	164.5	<u>GARNETIFEROUS METASEDIMENTS</u>									
164.5	209.0	<u>ULTRAMAFIC TO MAFIC VOLCANIC</u>									
209.0	298.0	<u>GARNETIFEROUS METASEDIMENTS - abundant 1/4" to 1/2" chert bands, trace disseminated sulphides.</u>	16790		254.0	259.0	5.0			.16	
298.0		End of Hole.									



DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-21 LENGTH 298'
 LOCATION 10+03NW 0+97NW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -44.7°
 STARTED November 25, 1986 FINISHED November 26, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-44.7°				
298'	-37.5°				

HOLE NO. OP-86-21 SHEET NO. 1 of 6

REMARKS _____

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO					TOTAL
0	19.8	<u>CASING</u>								
19.8	91.3	<p><u>BANDED IRON FORMATION</u> - bands of light grey, dark grey to black and light cream-green, fine grained, well banded, moderate to highly contorted. Consists of 1/8" to 1/4" bands of chert, grunerite-chert and magnetite-grunerite-chert. Grunerite-rich bands are at the contact between chert and iron-rich bands.</p> <p><u>Average Modes</u></p> <p>Quartz 45 - 55%</p> <p>Grunerite 25 - 35%</p> <p>Magnetite 10 - 15%</p> <p>Calcite 3 - 5%</p> <p>Sulphide trace - 0.5%</p> <p>Calcite most often occurs in iron-rich band as fine grained disseminations. Pyrite and pyrrhotite occur parallel to banding in contorted zones and as fracture fillings and coatings. In contorted zones banding is commonly tightly folded, boudinaged or fractured and displaced up to 1/4".</p> <p>- 19.8 to 24.6 - banded nearly parallel to core axis with several small parasitic folds. Several bands appear thickened (because top of fold?). Several limonitic fractures.</p> <p>- 24.6 to 37.0 - folded with large folds (3' to 5') containing parasitic folds (1" to 2") which in turn contain parasitic folds (less than 1/16").</p> <p>- 26.0 - banded at 32° to core axis.</p>								
			16746		19.8	25.0	5.2			tr.
			16747		25.0	30.0	5.0			tr.
			16748		30.0	35.0	5.0			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-21 SHEET NO. 2 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	02 TON	02 TON
				FROM	TO	TOTAL				
		- 29.0 - banded parallel to core axis.								
		- 32.0 - banded at 50° to core axis.								
		- 37.0 to 42.1 - wide bands 1/2" to 1" with near massive iron-rich bands and laminated chert and grunerite which form wide bands. Well folded.	16749		35.0	40.0	5.0			tr.
			16750		40.0	45.0	5.0			tr.
		- 42.1 to 48.8 - narrow banding near parallel to core axis, with many 1/2" to 1" folds. Visible thickening at hinges of small folds. Axial planes commonly at 40° to core axis.	16751		45.0	50.0	5.0			tr.
		- 48.8 to 67.3 - typical contorted.	16752		50.0	55.0	5.0			tr.
			16753		55.0	60.0	5.0			tr.
		- 49.7 - 1/8" calcite-chlorite veinlet at 28° to core axis; 0.5% pyrite within veinlet.	16754		60.0	65.0	5.0			tr.
		- 54.4 - 1/2" wide band containing several 1/32" to 1/8" calcite veinlets at 30° to core axis. Several pyrite blebs with these veinlets.								
		- 67.3 to 78.9 - 10 to 15% garnet-biotite schist bands. 0.5 to 1.0% pyrrhotite and pyrite as wisps in contorted zones and as fracture filling.	16755		65.0	70.0	5.0			tr.
			16756		70.0	75.0	5.0			tr.
			16757		75.0	80.0	5.0			tr.
		- 77.7 - pyrrhotite-rich band containing trace chalcopyrite.								
		- 78.9 to 90.3 - typical.	16758		80.0	85.0	5.0			tr.
			16759		85.0	88.0	3.0			tr.
		- 90.3 to 91.3 - similar to 67.3 to 78.9.	16760		88.0	91.3	3.3			tr.
91.3	96.9	<u>GARNETIFEROUS METASEDIMENTS</u> - black with 1/16" to 1/32" poikiloblasts, fine grained, poorly banded.	16761		91.3	94.3	3.0			tr.
			16762		94.3	96.9	2.6			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-21 SHEET NO. 3 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	oz TON	oz TON
				FROM	TO	TOTAL				
		<p><u>Average Modes</u></p> <p>Biotite 50 - 60%</p> <p>Garnets 15 - 20%</p> <p>Grunerite 7 - 10%</p> <p>Quartz 5 - 7%</p> <p>Hornblende 5 - 7%</p> <p>Pyrite trace</p> <p>Pyrite occurs in quartz-calcite fractures. Banding commonly at 60° to core axis.</p>								
96.9	100.8	<u>BANDED IRON FORMATION</u> - atypical, poor to moderately banded, 1 to 3% magnetite. Dominantly quartz-grunerite with 15-20% biotite-hornblende-garnet bands.	16763	96.9	100.8	3.9				tr.
100.8	114.7	<u>GARNETIFEROUS METASEDIMENTS</u> - atypical, trace to 0.5% pyrrhotite and pyrite.	16764	100.8	103.8	3.0				tr.
		- 100.8 to 103.8 - larger garnets (up to 1/8")								
		- 103.8 to 114.7 - dominantly garnets with grunerite and hornblende	16765	103.8	107.8	4.0				tr.
		Poorly defined garnets. 10 to 15% garnet-	16766	107.8	111.8	4.0				tr.
		biotite bands. 0.5 to 1.0% magnetite. Abundant quartz-calcite-chlorite and chlorite fine veinlets. (Possible altered zone.)	16767	111.8	114.7	2.9				tr.
		- 105.0 to 105.1 - 1/4" quartz-calcite veinlets with 20-25% massive pyrite.								
114.7	129.5	<u>INTERBEDDED BANDED IRON FORMATION AND GARNETIFEROUS METASEDIMENTS</u> - 60% metasediments, similar to 100.8 to 103.8, 40% banded iron formation, atypical with 7 to 10% magnetite. Moderately banded to laminated. Few calcite-quartz amphibole bands. Trace to 0.5% pyrite. Bands weakly contorted.	16768	114.7	119.5	4.8				tr.
			16769	119.5	124.5	5.0				tr.
			16770	124.5	129.5	5.0				tr.
		- 118.0 - banded at 40° to core axis.								
		- 128.0 - banded at 45° to core axis.								

DIAMOND DRILL RECORD

NAME OF PROPERTY _____ OPAPIMISKAN LAKE

HOLE NO. OP-86-21 SHEET NO. 4 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
129.5	151.0	<p><u>MAFIC TO INTERMEDIATE VOLCANIC (TUFF)</u> - dark green-brown, fine grained, laminated.</p> <p><u>Average Modes</u></p> <p>Amphibole 40 - 50% (hornblende, actinolite) Plagioclase 20 - 30% Quartz 15 - 20% Biotite 10 - 15% Pyrite trace</p> <p>Laminated commonly at 40° to 50° to core axis. Several calcite hairline fractures at 40° to core axis. (90° to lamination)</p> <p>- 129.5 to 145.8 - typical.</p> <p>- 138.4 - 1" calcite band at 55° to core axis.</p> <p>- 143.0 to 145.8 - few 1/4" quartz-calcite veinlets</p> <p>- 145.8 to 148.0 - less well laminated, 15-20% biotite.</p> <p>- 148.0 to 151.0 - typical.</p>									
			16771		138.0	139.0	1.0			tr.	
			16772		142.9	146.0	3.1			tr.	
151.0	164.5	<p><u>GARNETIFEROUS METASEDIMENTS</u> - moderately banded, fine grained. Garnet rich and poor bands. Some garnetiferous bands are near massive while others contain distinct poikiloblasts. Consists dominantly of garnets, hornblende and grunerite with 3 to 5% magnetite occurring in some garnet poor bands. 0.5 to 1% pyrrhotite and pyrite occurring mostly in and adjacent to calcite veinlets as blebs and wisps.</p> <p>- 151.0 to 158.5 - typical.</p> <p>- 153.5 - 1/2" to 1" calcite veinlet with 1/2" bleached zone and 7 to 10% pyrrhotite.</p> <p>- 158.5 to 160.5 - garnet poor section.</p>									
			16773		151.0	156.0	5.0			tr.	
			16774		156.0	161.0	5.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-21 SHEET NO. 5 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
		- 160.1 - calcite veinlet with chlorite and contact with wall rock.								
		- 160.5 to 164.5 - typical.	16775		161.0	164.5	3.5		tr.	
		- 161.8 - contorted calcite veinlet with 0.5% pyrrhotite in adjacent wall rock.								
		- 163.6 to 164.1 - light grey garnetiferous band with abundant quartz grains with hornblende.								
164.5	209.0	<u>ULTRAMAFIC TO MAFIC VOLCANIC</u> - medium to dark green, fine grained, moderate to well foliated (commonly at 50° to core axis). Several fine quartz veinlets, no visible sulphides.								
		- 164.5 to 170.8 - dominantly talc-serpentine schist.	16776		170.0	171.0	1.0		tr.	
		- 170.5 - 1/8" calcite-pyrite veinlet.								
		- 170.8 to 171.8 - 5 to 7% phlogopite with talc-serpentine schist.								
		- 171.8 to 179.2 - dominantly tremolite-serpentine.	16777		172.8	176.2	3.4		tr.	
		- 173.3 to 173.5 - quartz vein with trace to 0.5% remnant amphibole. No visible sulphides.								
		- 174.5 - quartz veinlet. No visible sulphides.								
		- 174.3 to 174.7 - silicified with trace to 0.5% pyrite.								
		- 174.2 to 174.5 - 1/8" contorted quartz-calcite veinlet.								
		- 179.2 to 195.7 - dominantly actinolite-tremolite, moderately foliated, few narrow quartz veinlets, no visible sulphides.	16778		186.7	191.7	5.0		.01	
		- 195.7 to 208.0 - similar to 164.5 to 171.8.								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-21 SHEET NO. 6 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON	
					FROM	TO	TOTAL				
209.0	298.0	- 208.0 to 209.0 - brecciated with dark green to black serpentine filling and few garnets within the serpentine.	16779		208.0	209.0	1.0		.02		
		GARNETIFEROUS METASEDIMENTS - similar to 91.3 to 96.9, poorly banded, fine grained, with abundant chert bands (1/4" to 1/2"). Trace disseminated sulphides.									
		- 209.0 to 211.0 - grading from rare in garnets at 209.0 to typical at 211.0.	16780	209.0	213.0	4.0		tr.			
			16781	213.0	218.0	5.0		tr.			
			16782	218.0	223.0	5.0		.02			
		- 211.0 to 237.5 - typical.	16783	223.0	228.0	5.0		tr.			
			16784	228.0	233.0	5.0		tr.			
		- 218.2 - 1/8" calcite-pyrite veinlet at 25° to core axis.	16785	233.0	237.0	4.0		tr.			
			16786	237.0	239.0	2.0		tr.			
			16787	239.0	244.0	5.0		tr.			
		- 237.5 to 238.5 - quartz vein and adjacent quartz veinlet, trace pyrite within wisp of wall rock within vein. Increase in hornblende and decrease in biotite.	16788	244.0	249.0	5.0		tr.			
			16789	249.0	254.0	5.0		.02			
			16790	254.0	259.0	5.0		.16			
		- 238.5 to 279.7 - typical variable band angles.	16791	259.0	264.0	5.0		tr.			
			16792	264.0	269.0	5.0		tr.			
			16793	269.0	274.0	5.0		tr.			
		- 238.0 - 1/8" calcite-pyrrhotite-chalcopyrite veinlet at 25° to core axis.	16794	274.0	279.0	5.0		tr.			
		- 249.8 - 1/2" calcite veinlet with 0.5 to 1% pyrite. Calcite occurs as subhedral to euhedral crystals while pyrite occurs euhedrally in vugs in calcite.									
		- 279.7 to 298.0 - 20 to 25% hornblende with corresponding decrease in biotite content.	16795	279.0	284.0	5.0		tr.			
			16796	284.0	289.0	5.0		tr.			
	16797	289.0	294.0	5.0		tr.					
- 292.5 to 293.3 - silicified zone with replacement of biotite and hornblende by quartz and quartz-calcite from 292.5 to 292.7. No visible sulphides.	16798	294.0	298.0	4.0		tr.					
298.0		End of Hole.									

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-22 LENGTH 279'
 LOCATION 15+02NW 1+04SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -45.3°
 STARTED November 27, 1986 FINISHED November 30, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.3°				
279'	-34.7°				

HOLE NO. OP-86-22 SHEET NO. 1 of 1

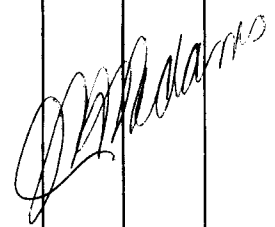
REMARKS Summary Log

PA - 844238

LOGGED BY L. Jones

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	32.0	<u>CASING</u>									
32.0	78.3	<u>GARNETIFEROUS SEDIMENT</u>									
78.3	98.4	<u>BANDED IRON FORMATION</u> - Garnetiferous - 81.9 - 82.1 - 1-2% pyrite, disseminated and as stringers. - 83.1 - 83.3 - 1-2% pyrite, disseminated and as fine stringers.	16405		80.8	83.4	2.6			.14	
98.4	100.5	<u>MAFIC FLOW</u>									
100.5	109.8	<u>GARNETIFEROUS SEDIMENT</u>									
109.8	272.6	<u>BANDED IRON FORMATION</u> - trace-0.5% pyrrhotite, trace pyrite, sporadically distributed as fine stringers and disseminations.	16437 16440		229.0 244.0	234.0 249.0	5.0 5.0			.06 .07	
272.6	274.3	<u>LAMPROPHYRE DIKE</u>									
274.3	279.0	<u>BANDED IRON FORMATION</u> - as in 109.8 - 272.6.									
279.0		End of Hole.									

LANGR DUES - OPAPIMISKAN LAKE - 366-1168



DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-22 LENGTH 279'
 LOCATION 15+02NW 1+04SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -45.3°
 STARTED November 27, 1986 FINISHED November 30, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.3°				
279'	-34.7°				

HOLE NO. OP-86-22 SHEET NO. 1 of 5

REMARKS _____

PA - 844238

LOGGED BY L. Jones

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	32.0	<u>CASING</u>									
32.0	78.3	<u>GARNETIFEROUS SEDIMENT</u> - medium to dark grey-black; very fine grained with medium to coarse grained garnets. Garnets are pink, commonly poikiloblastic; larger garnets subhedral to anhedral; smaller garnets euhedral. 1/2 - 1 cm magnetite-rich bands common; these bands commonly have 2 mm grunerite rims; banding usually 50° to core axis. Garnet content varies locally from 5% to 50%. <u>Average Modes</u> Garnets 40 - 50% Biotite 20 - 30% Chlorite 15 - 20% Chert 5 - 10% Magnetite 5 - 10% Grunerite 3 - 5% - 32.0 - 49.6 - very coarse garnets. - 36.3 - 36.7 - core blocky, broken. - 36.7 - fractures 40° to core axis, limonite stained. - 49.6 - 65.4 - garnets fine to medium grained. - 49.6 - 51.5 - chert bands folded. Axial plane of folds approximately 50° to core axis, fold amplitude approximately 1 cm. - 65.4 - 78.3 - 5-10% coarse grained garnets; no magnetite present. - 67.7 - trace pyrite as fine stringers.	6993		32.0	34.2	2.2				tr.
			6994		34.2	39.0	4.8				tr.
			6995		39.0	44.1	5.1				tr.
			6996		44.1	49.5	5.4				tr.
			6997		49.5	52.8	3.3				tr.
			6998		52.8	57.9	5.1				tr.
			6999		57.9	61.5	3.6				tr.
			6700		61.5	65.4	3.9				tr.
			16401		65.4	69.0	4.6				tr.
			16402		69.0	73.2	4.2				tr.
			16403		73.2	78.3	5.1				tr.

ANGRIDSES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-22 SHEET NO. 2 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
				FROM	TO	TOTAL					
78.3	98.4	<p>BANDED IRON FORMATION - Garnetiferous - medium to dark grey; fine to very fine grained; very finely laminated at 50° to core axis; laminations disturbed, occasionally destroyed, by 1-2 mm garnets. Infrequent grunerite rims on magnetite-chert bands. Chert bands often disrupted, appear boudinaged. Biotite as very fine grained bands 1-2 cm wide, infrequently up to 15 cm wide.</p> <p><u>Average Modes</u></p> <p>Magnetite 10 - 15% Chert 20 - 25% Biotite 20 - 25% Chlorite 10 - 15% Garnet 20 - 25% Grunerite 5 - 10% Pyrrhotite trace Pyrite trace</p> <p>- 80.8 - 81.0 - trace-0.5% pyrrhotite, as very fine stringers. - 81.4 - fracture at 25° to core axis across banding; .6cm displacement; trace pyrite. - 81.9 - 82.1 - 1-2% pyrite; disseminated and as stringers. - 83.1 - 83.3 - 1-2% pyrite; disseminated and as fine stringers.</p>									
			16404	78.3	80.8	2.5				tr.	
			16405	80.8	83.4	2.6				.14	
			16406	83.4	88.1	4.7				.01	
			16407	88.1	93.2	5.1				.01	
			16408	93.2	98.4	5.2				tr.	
98.4	100.5	<p>MAFIC FLOW - medium to dark green; very fine grained; contorted foliation; minor carbonate in patches; typical mineralogy.</p>	16409	98.4	100.5	2.1				.01	
100.5	109.8	<p>GARNETIFEROUS SEDIMENT - fine to medium grained; medium grey with pink hues; 1-2 mm euhedral garnets; indistinct banding outlined by biotite-rich and grunerite-rich bands at 55° to core axis; occasionally magnetic.</p> <p><u>Average Modes</u></p> <p>Garnet 40 - 50%</p>	16410	100.5	104.9	4.4				tr.	
			16411	104.9	108.9	4.9				tr.	

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. QP-86-22 SHEET NO. 3 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON
				FROM	TO	TOTAL				
		Biotite 20 - 30% Grunerite 10 - 15% Chlorite 5 - 10% Quartz 3 - 5%								
109.8	272.6	BANDED IRON FORMATION - medium to dark grey; very fine grained; well banded; chert and magnetite bands commonly less than 2 cm wide; grunerite rims on magnetite bands, usually 3-5 mm. Entire section has patches of moderate carbonatization. Infrequent chlorite-biotite bands usually less than 5cm wide. Chert bands frequently boudinaged, commonly 50° to 70° to core axis. Trace-0.5% pyrrhotite sporadically distributed as fine stringers and disseminations. Trace pyrite, sporadically distributed as fine stringers.	16412	109.8	114.8	5.0				tr.
			16413	114.8	119.0	4.2				tr.
			16414	119.0	124.0	5.0				tr.
			16415	124.0	129.0	5.0				tr.
			16416	129.0	134.0	5.0				tr.
			16417	134.0	139.0	5.0				tr.
		<u>Average Modes</u>	16418	139.0	144.0	5.0				tr.
		Magnetite 30 - 40%	16419	144.0	149.0	5.0				tr.
		Chert 30 - 40%	16420	149.0	154.0	5.0				tr.
		Grunerite 10 - 20%	16421	154.0	159.0	5.0				tr.
		Chlorite 2 - 3%	16422	159.0	164.0	5.0				tr.
		Biotite 2 - 3%								
		Pyrrhotite trace - 0.5%								
		Pyrite trace								
		Garnets trace								
		- 109.8 - 117.0 - 1-2% garnets.								
		- 140.6 - 140.8 - blocky, possible shear.								
		- 166.5 - 168.0 - banding parallel to core axis.	16423	164.0	169.0	5.0				tr.
		- 179.0 - 179.9 - banding contorted, folded, axial plane of folds 70° to core axis.	16424	169.0	174.0	5.0				tr.
			16425	174.0	179.0	5.0				tr.
		- 181.4 - 181.9 - folded, axial plane of folds approximately 60° to core axis.	16426	179.0	184.0	5.0				tr.
			16427	184.0	189.0	5.0				tr.
		- 189.0 - 190.4 - contorted, folded, axial plane of folds approximately 50° to core axis.	16428	189.0	194.0	5.0				tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-22 SHEET NO. 4 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	GZ TON
					FROM	TO	TOTAL				
		- 194.0 - 195.3 - banding parallel to core axis.	16429		194.0	199.0	5.0			tr.	
		- 199.6 - 199.8 - chlorite, biotite, garnet-rich zone; garnets 6-8 mm.	16430		199.0	204.0	5.0			tr.	
		- 200.0 - 200.5 - chlorite, biotite, garnet zone.									
		- 200.5 - 211.2 - banding wispy, irregular, in places banding parallels core axis.	16431		204.0	209.0	5.0			tr.	
			16432		209.0	211.2	2.2			tr.	
		- 211.2 - fracture 25° to core axis with pyrite blebs.	16433		211.2	215.5	3.3			tr.	
		- 211.2 - 220.4 - massive magnetite band, very fine grained, 20-30% chert, 1-2% grunerite, trace-0.5% pyrrhotite.	16434		215.5	220.4	4.9			tr.	
			16435		220.4	224.2	3.8			tr.	
			16436		224.2	229.0	4.8			.01	
			16437		229.0	234.0	5.0			.06	
		- 249.0 - 250.2 - banding folded, contorted, axial plane of folds approximately 90° to core axis.	16438		234.0	239.0	5.0			.01	
			16439		239.0	244.0	5.0			tr.	
			16440		244.0	249.0	5.0			.07	
		- 252.8 - 253.8 - banding contorted, folded, axial plane of folds approximately 90° to core axis.	16441		249.0	254.0	5.0			.04	
		- 256.0 - .6cm wide garnet-rich zone.	16442		254.0	259.0	5.0			.02	
		- 257.0 - 258.5 - banding contorted, folded, axial planes of folds 60° to 90° to core axis.	16443		259.0	264.0	5.0			.01	
			16444		264.0	269.0	5.0			tr.	
		- 271.2 - 272.6 - banding folded, axial plane of folds 60° to core axis.	16445		269.0	272.6	3.6			tr.	
272.6	274.3	LAMPROPHYRE DIKE - black, fine to medium grained, infrequent quartz-carbonate stringers. Chill margins very fine grained, 10 cm. wide, separated from medium grained section by quartz-carbonate stringers. 2-3 mm dark chlorite patches in medium grained area; possibly olivine pseudomorphs. Hematite (?) disseminated as very fine bright red flecks.	16446		272.6	274.3	1.7			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-22 SHEET NO. 5 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON
				FROM	TO	TOTAL				
		<p><u>Average Modes</u></p> <p>Chlorite 50 - 60%</p> <p>Serpentine? 30 - 40%</p> <p>Carbonate 1 - 2%</p> <p>Hematite trace</p> <p>The relation of the chill margins to the core of the dike (separated by quartz-carbonate stringers, no gradation in grain size) suggests the dike may be of two generations.</p>								
274.3	279.0	<p><u>BANDED IRON FORMATION</u> - as in 109.8 - 272.6.</p> <p>- 274.3 - 278.6 - banding folded, axial planes of folds 60° to 90° to core axis.</p>	16447	274.3	279.0	4.7			.02	
279.0		End of Hole.								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-23 LENGTH 348'
 LOCATION 16+03NW 1+53SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -45°
 STARTED November 27, 1986 FINISHED November 29, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.0°				
348'	-40.3°				

HOLE NO. OP-86-23 SHEET NO. 1 of 1


REMARKS Summary Log

PA - 844238

LOGGED BY L. Jones

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	32.0	<u>CASING</u>									
32.0	56.0	<u>GARNETIFEROUS SEDIMENT</u>									
56.0	63.0	<u>ULTRAMAFIC FLOW</u>									
63.0	70.2	<u>GARNETIFEROUS SEDIMENT</u>									
70.2	74.8	<u>ULTRAMAFIC FLOW</u>									
74.8	109.6	<u>GARNETIFEROUS SEDIMENT</u>									
109.6	110.6	<u>MAFIC FLOW</u>									
110.6	156.9	<u>GARNETIFEROUS SEDIMENT</u> - magnetite 5-10% in bands up to 1 cm.									
156.9	174.0	<u>BANDED IRON FORMATION</u> - very finely laminated; 10-15% garnets.									
174.0	184.2	<u>GARNETIFEROUS SEDIMENT</u> - strongly magnetic; 5-10% magnetite.									
184.2	348.0	<u>BANDED IRON FORMATION</u>									
		- 308.0 - 313.0 - few narrow pyrrhotite stringers with 2-3% pyrrhotite from 308.0 - 308.2.	16511		308.0	313.0	5.0			.17	
		- 318.2 - 320.7 - several quartz veinlets with trace to 0.5% pyrrhotite at contact with wall rock.	16513		318.0	320.7	2.7			.21	
		- 337.4 - 337.7 - quartz vein.	16519		337.1	338.6	1.5			.06	
348.0		End of Hole.									

ANGRUBES - TORONTO - 366-1168



DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-23 LENGTH 348'
 LOCATION 16+03NW 1+53SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -45°
 STARTED November 27, 1986 FINISHED November 29, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.0°				
348'	-40.3°				

HOLE NO. OP-86-23 SHEET NO. 1 of 6

REMARKS _____

PA - 844238

LOGGED BY L. Jones

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	32.0	<u>CASING</u>									
32.0	56.0	<u>GARNETIFEROUS SEDIMENT</u> - matrix dark grey, very fine grained with 1-2 mm subhedral to euhedral pink poikiloblastic garnets. Quartz stringers 1.5-2.5 cm wide common; generally at 40° to core axis. <u>Average Modes</u> Garnets 30 - 40% Biotite 40 - 50% Quartz 5 - 10% Chlorite 5 - 10% Hornblende trace - 43.0 - 48.0 - quartz stringers parallel to sub-parallel to core axis. - 49.8 - 49.9 - possible shear, very friable. - 50.0 - 56.0 - core blocky, broken.	16448	-	32.0	36.0	4.0			tr.	
			16449	-	36.0	39.9	3.9			.01	
			16450	-	39.9	44.2	4.3			tr.	
			16451	-	44.2	48.7	4.5			tr.	
			16452	-	48.7	52.0	3.3			tr.	
			16453	-	52.0	56.0	4.0			tr.	
56.0	63.0	<u>ULTRAMAFIC FLOW</u> - light to medium grey, very fine grained, generally friable, talcy; well carbonatized - calcite plus magnesite(?); very blocky, broken up.	16454	-	56.0	58.0	2.0			tr.	
			16455	-	58.0	63.0	5.0			tr.	
63.0	70.2	<u>GARNETIFEROUS SEDIMENT</u> - matrix dark brown-black, very fine grained, infrequent chert bands and chloritic bands, 40° - 55° to core axis. Weakly carbonatized in patches. Garnets 1-2 mm, subhedral to euhedral, poikiloblastic.	16456	tr.	63.0	68.0	5.0			tr.	
			16357	tr.	68.0	70.2	2.2			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-23 SHEET NO. 2 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON
				FROM	TO	TOTAL				
		<p><u>Average Modes</u></p> <p>Garnets 20 - 30%</p> <p>Biotite 50 - 60%</p> <p>Chlorite 10 - 15%</p> <p>Chert 10 - 15%</p> <p>Carbonate 0.5 - 1%</p> <p>Pyrite trace</p> <p>- 63.0 - 65.0 - fractures parallel to subparallel to core axis, displacements up to 1.5cm pyrite as very fine stringers, or as rare smears on fractures.</p>								
70.2	74.8	<p><u>ULTRAMAFIC FLOW</u> - medium grey, fine grained, talcy texture, greenish hues, possibly due to chlorite, very friable, carbonatized at contact at 70.2.</p> <p><u>Average Modes</u></p> <p>Talc 20 - 30% (?)</p> <p>Serpentine 60 - 70% (?)</p> <p>Chlorite 5 - 10% (?)</p>								
74.8	109.6	<p><u>GARNETIFEROUS SEDIMENT</u> - matrix dark grey-black, very fine grained, garnets 1-2 mm, moderately banded; 10-15% magnetite bands 2/3cm to 1 1/3cm wide. Banding 60° to core axis at 84.0'.</p> <p><u>Average Modes</u></p> <p>Garnets 30 - 40%</p> <p>Biotite 40 - 50%</p> <p>Chlorite 3 - 5%</p> <p>Magnetite 5 - 10%</p> <p>Chert 3 - 5%</p> <p>- 74.8 - 79.0 - fractures subparallel to parallel to core axis, up to 2.5 cm displacement.</p> <p>- 81.3 - 82.3 - very chloritic, 3-5% garnets.</p>	16458	74.8	78.0	3.2			tr.	
			16459	78.0	83.0	5.0			tr.	
			16460	83.0	88.0	5.0			tr.	
			16461	88.0	93.0	5.0			tr.	
			16462	93.0	98.0	5.0			tr.	
			16463	98.0	103.0	5.0			tr.	
			16464	103.0	108.0	5.0			tr.	
			16465	108.0	109.6	1.6			tr.	

LANGRIDGE - TORONTO - 366-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-23 SHEET NO. 3 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 82.5 - 83.0 - fracture parallel to core axis with pyrite smears.									
		- 96.4 - 99.4 - magnetite bands folded, axial planes of folds 90° to core axis.									
		- 101.3 - 101.8 - same as above.									
		- 108.0 - 109.0 - 1 cm subhedral garnets.									
109.6	110.6	<u>MAFIC FLOW</u> - medium green, very fine grained, chloritic, foliation at irregular angles to core axis. Silicified (?) in patches.	16466	-	109.6	110.6	1.0				tr.
110.6	156.9	<u>GARNETIFEROUS SEDIMENT</u> - matrix black; very fine grained; garnets generally 1-2 mm, subhedral to euhedral; magnetite bands up to 1 cm wide common, at 118' banding 65° to core axis. Magnetite bands often folded.	16467	-	110.6	114.3	3.7				tr.
			16468	-	114.3	118.0	3.7				tr.
			16469	-	118.0	123.0	5.0				tr.
		<u>Average Modes</u>	16470	tr.	123.0	128.0	5.0				tr.
		Biotite 50 - 60%	16471	-	128.0	133.0	5.0				tr.
		Garnets 20 - 30%	16472	-	133.0	138.0	5.0				tr.
		Magnetite 5 - 10%	16473	-	138.0	143.0	5.0				tr.
		Chert 3 - 5%	16474	-	143.0	148.0	5.0				tr.
		Chlorite 3 - 5%	16475	-	148.0	153.0	5.0				tr.
		- 120.9 - 125.5 - garnets 3-5%, up to 1 cm, euhedral.	16476	-	153.0	156.9	3.9				tr.
		- 124.2 - 124.8 - trace-0.5% pyrite and pyrrhotite disseminated and as fine stringers.									
		- 130.0 - 133.5 - magnetite bands folded, axial planes of folds approximately 80° to core axis.									
		- 131.0 - 131.4 - pyrite coated fracture 20° to core axis.									
		- 146.6 - 156.9 - 3-5 mm garnets 5-8%, increase in abundance towards 156.9'.									
		- 154.3 - 154.5 - quartz vein.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-23 SHEET NO. 4 of 6

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON	
					FROM	TO	TOTAL					
		- 154.7 - 154.8 - quartz vein.										
156.9	174.0	<p><u>BANDED IRON FORMATION</u> - medium to dark grey, fine to very fine grained, very finely laminated, laminations relatively undisturbed at 63° to core axis at 160'. Chert bands occasionally boudinaged. Garnets in biotite-rich zones. Very finely disseminated trace pyrite; trace pyrrhotite sporadically disseminated as fine stringers.</p> <p><u>Average Modes</u></p> <p>Magnetite 20 - 30% Chert 30 - 40% Biotite 20 - 25% Garnets 10 - 15%</p> <p>- 156.9 - 158.2 - banding coarse, somewhat disturbed, trace-0.5% pyrrhotite disseminated on foliation planes.</p> <p>- 167.5 - 170.4 - 30-40% garnets; coarsely banded garnet growth destroying laminations.</p>	16477	tr.	156.9	159.0	2.1			tr.		
				16478	tr.	159.0	164.0	5.0			tr.	
				16479	tr.	164.0	169.0	5.0			tr.	
				16480	tr.	169.0	174.0	5.0			tr.	
174.0	184.2	<p><u>GARNETIFEROUS SEDIMENT</u> - matrix dark green to black, very fine grained, sporadically magnetic, often strongly magnetic. Some zones approach 80% garnets.</p> <p><u>Average Modes</u></p> <p>Garnet 30 - 40% Biotite 40 - 50% Chlorite 5 - 10% Magnetite 5 - 10% Chert 3 - 5%</p> <p>- 175.4 - 175.9 - chloritic, no garnets, possibly a small mafic flow.</p>	16481	-	174.0	179.1	5.1			tr.		
				16482	-	179.1	184.2	5.1			tr.	
184.2	348.0	<p><u>BANDED IRON FORMATION</u> - medium to dark grey, very fine grained, bands generally less than 2.5 cm wide, chert bands commonly boudinaged, occasionally hematite stained. Weakly to moderately carbonatized</p>										

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-23 SHEET NO. 5 of 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON	
					FROM	TO					TOTAL
		in patches. Trace pyrite as rare stringers; trace-0.5% pyrrhotite as erratically distributed stringers and disseminations, locally it may approach 2-3%. Grunerite as rims 1/2 cm wide on magnetite bands.	16483	tr.	184.2	188.0	3.8			tr.	
			16484	tr.	188.0	193.0	5.0			tr.	
			16485	tr.	193.0	198.0	5.0			tr.	
			16486	tr.	198.0	203.0	5.0			.01	
			16487	tr.	203.0	208.0	5.0			tr.	
			16488	tr.	208.0	213.0	5.0			tr.	
			16489	tr.	213.0	218.0	5.0			tr.	
			16490	tr.	218.0	223.0	5.0			tr.	
			16491	tr.	223.0	228.0	5.0			tr.	
			16492	tr.	228.0	233.0	5.0			tr.	
			16493	tr.	233.0	238.0	5.0			tr.	
			16494	tr.	238.0	243.0	5.0			tr.	
			16495	tr.	243.0	248.0	5.0			tr.	
			16496	tr.	248.0	253.0	5.0			tr.	
			16497	tr.	253.0	258.0	5.0			tr.	
			16498	tr.	258.0	263.0	5.0			tr.	
			16499	tr.	263.0	268.0	5.0			.02	
			16500	tr.	268.0	273.0	5.0			.02	
			16501	tr.	273.0	278.0	5.0			.02	
			16502	tr.	278.0	281.5	3.5			.02	
		<u>Average Modes</u>									
		Magnetite 20 - 30%									
		Chert 30 - 40%									
		Grunerite 10 - 15%									
		Chlorite 5 - 10%									
		Pyrrhotite trace - 0.5%									
		Pyrite trace									
		Garnets trace									
		- 184.5 - Two 1/8" bands of very fine grained, dark blue mineral, unidentified.									
		- 185.2 - 185.5 - brecciated.									
		- 188.1 - 190.2 - banding contorted.									
		- 198.0 - 198.5 - banding contorted and folded.									
		- 205.3 - 205.5 - pyrite coated fracture 25° to core axis.									
		- 207.3 - 210.5 - banding contorted.									
		- 213.2 - 214.0 - 40-50% chlorite.									
		- 213.2 - 214.9 - banding contorted.									
		- 217.3 - 217.5 - quartz vein.									
		- 227.3 - 242.8 - banding contorted, folded, axial planes of folds approximately 70° to core axis.									
		- 243.1 - 243.5 - banding subparallel to core axis.									
		- 248.7 - pyrite coated fracture 65° to core axis.									
		- 250.2 - 253.6 - banding folded, axial planes 70° to 90° to core axis.									
		- 254.5 - 263.0 - banding weakly to strongly folded, axial planes 70° to 90° to core axis.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-23 SHEET NO. 6 of 6

FOOTAGE		DESCRIPTION	SAMPLE					ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON	
					FROM	TO	TOTAL					
		- 282.2	- trace arsenopyrite, disseminated and in a very fine stringer.	16503	tr.	281.5	282.5	1.0			tr.	
				16504	tr.	282.5	285.2	2.7			tr.	
		- 285.7	- trace disseminated arsenopyrite.	16505	tr.	285.2	286.0	0.8			tr.	
				16506	tr.	286.0	288.0	2.0			tr.	
		- 308.0 - 313.0	- few narrow pyrrhotite stringers with 2-3% pyrrhotite from 308.0 to	16507	tr.	288.0	293.0	5.0			tr.	
				16508	tr.	293.0	298.0	5.0			tr.	
				16509	tr.	298.0	303.0	5.0			.02	
		- 318.2 - 320.7	- several quartz veinlets with trace-0.5% pyrrhotite at contact with wall rock.	16510	tr.	303.0	308.0	5.0			.02	
				16511	tr.	308.0	313.0	5.0			.17	
		- 320.7 - 322.6	- banding wispy, irregular, several quartz-carbonate stringers.	16512	tr.	313.0	318.0	5.0			tr.	
				16513	tr.	318.0	320.7	2.7			.21	(.23 on check)
				16514	tr.	320.7	322.6	1.9			.01	
		- 326.2 - 326.7	- massive magnetite band.	16515	tr.	322.6	328.0	5.4			tr.	
		- 328.9 - 329.5	- massive magnetite band.	16516	tr.	328.0	329.9	1.9			tr.	
			- 328.9 - 329.2 - quartz-carbonate filled fracture 20° to core axis, irregular grunerite alteration halo.	16517	tr.	329.9	333.0	3.1			tr.	
				16518	tr.	333.0	337.1	4.1			.01	
				16519	tr.	337.1	338.6	1.5			.06	
				16520	tr.	338.6	343.0	4.4			tr.	
		- 337.4 - 338.2	- 1 1/3 cm wide quartz-carbonate filled fracture sub-parallel to core axis. Grunerite alteration halo where magnetite bands are crossed.	16521	tr.	343.0	348.0	5.0			tr.	
			- 337.4 - 337.7 - quartz vein.									
		- 343.0	- banding 70° to core axis.									
		- 345.0 - 348.0	- banding folded, axial planes 70° to 90° to core axis.									
			- 347.3 - 348.0 - fractures subparallel to core axis, up to 2/3 cm displacement.									
348.0		End of Hole.										

LANGRIDGES TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-24 LENGTH 278'
 LOCATION 14+99NW 3+00SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -46.5°
 STARTED December 1, 1986 FINISHED December 3, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-46.5°				
278'	-38.0°				

HOLE NO. OP-86-24 SHEET NO. 1 of 2

REMARKS Summary Log

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO					TOTAL
0	35.0	<u>CASING</u>								
35.0	47.0	<u>LEAN BANDED IRON FORMATION</u> - trace pyrite, few calcite veinlets. - 46.9 - epidote along calcitic fracture in chert band.	16853		43.0	47.0	4.0		.08	
47.0	94.2	<u>ULTRAMAFIC VOLCANICS</u>								
94.2	96.6	<u>INTERBEDDED MAFIC VOLCANICS AND METASEDIMENTS</u>								
96.6	98.0	<u>BANDED IRON FORMATION</u>								
98.0	99.6	<u>ULTRAMAFIC VOLCANICS</u>								
99.6	118.5	<u>BANDED IRON FORMATION</u>								
118.5	130.5	<u>GARNETIFEROUS METASEDIMENTS</u>								
130.5	195.1	<u>BANDED IRON FORMATION</u>								
195.1	201.8	<u>GARNETIFEROUS METASEDIMENTS</u>								
201.8	240.6	<u>BANDED IRON FORMATION</u> - 213.2 to 240.6 - 0.5 to 1.0% pyrrhotite, trace - 0.5% pyrite. - 238.0 to 240.6 - few narrow quartz veinlets.	16895		237.0	240.6	3.6		.96	(rerun tr.)
240.6	246.2	<u>ULTRAMAFIC VOLCANICS</u> - 245.2 - 1/4" calcite-hematite veinlet.	16896		244.8	246.2	1.4		.46	(rerun tr.)

DIAMOND DRILL RECORD

NAME OF PROPERTY _____ OPAPIMISKAN LAKE _____

HOLE NO. OP-86-24 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
246.2	267.7	<u>BANDED IRON FORMATION</u>									
267.7	272.2	<u>ULTRAMAFIC VOLCANICS</u>									
272.2	272.8	<u>BANDED IRON FORMATION</u>									
272.8	278.0	<u>ULTRAMAFIC VOLCANICS</u>									
278.0		End of Hole.									

J. Williams

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-24 SHEET NO. 2 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FROM	TO	TOTAL	1	2	OZ TON	OZ TON
		- 54.7 to 67.2 - abundant serpentine clots (1/8") which are often elongated parallel to foliation which is 65° to 70° to the core axis. Several calcite veinlets, with no visible sulphide.	16854		56.6	59.6	3.0			tr.	
		- 67.2 to 69.2 - typical.									
		- 69.2 to 75.2 - few calcite-hematite coated fractures oriented from 0° to 25° to core axis. No visible sulphides.	16855		69.2	72.2	3.0			tr.	
			16856		72.2	75.2	3.0			tr.	
		- 75.2 to 79.1 - typical.									
		- 79.1 to 88.6 - similar to 54.7 to 67.2.									
		- 88.6 to 89.5 - typical.									
		- 89.5 to 94.2 - dark grey-green with increase in serpentine.									
94.2	96.6	<u>INTERBEDDED MAFIC VOLCANICS AND METASEDIMENTS</u> - 1" to 2" interbeds of mafic volcanics (60%) and metasediments (40%). Mafic volcanics are dark green, very fine grained, massive with mineralogy dominated by hornblende-actinolite. Metasediments consist of laminations of garnet-biotite and chert. Crenulations in laminae are common. Trace pyrite occurs parallel to laminations in sediment and as fracture coatings. Few en echelon calcite veinlets containing pyrrhotite blebs.	16857		94.2	96.6	2.4			tr.	
96.6	98.0	<u>BANDED IRON FORMATION</u> - medium grey to dark green, fine to very fine grained, laminated to moderately banded. Consists of laminations of chert-magnetite ± grunerite with laminations of hornblende-garnets. Weak to moderately contorted.	16858		96.6	98.0	1.4			.01	
		<u>Average Modes</u>									
		Chert 30 - 40%									
		Magnetite 15 - 20%									
		Hornblende 15 - 20%									
		Grunerite 15 - 20%									
		Garnet 7 - 10%									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-24 SHEET NO. 3 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON
				FROM	TO	TOTAL				
		<p>Sulphide 0.5 - 1%</p> <p>Calcite 0.5 - 1%</p> <p>Tourmaline trace - 0.5%</p> <p>Pyrite and pyrrhotite occur in calcite-quartz-tourmaline veinlet and with quartz veinlet at 97.1 to 97.2. Banded at 60° to 65° to to core axis.</p>								
98.0	99.6	ULTRAMAFIC VOLCANICS - atypical with mineralogy dominated by tremolite with minor serpentine and talc. No visible sulphides.	16859	98.0	99.6	1.6				tr.
99.6	118.5	<p><u>BANDED IRON FORMATION</u> - similar to 96.6 to 98.0.</p> <p>- 99.6 to 101.1 - several 1/4" to 1/2" chert bands with 1 to 3% pyrrhotite and edges to the bands. Bands folded with axis near 90° to core axis.</p> <p>- 101.1 to 104.1 - typical, banded at 65° to core axis.</p> <p>- 104.1 to 105.2 - several small folds with variable orientations.</p> <p>- 105.2 to 108.3 - weakly chloritized with weak green hue and several chloritic fractures.</p> <p>- 108.3 to 109.1 - heavily chloritized and weathered.</p> <p>- 109.1 to 110.1 - typical, banded at 50° to core axis.</p> <p>- 110.1 to 112.8 - similar to 105.2 to 108.3.</p> <p>- 112.8 to 115.8 - heavily chloritized, very broken.</p> <p>- 115.8 to 118.5 - several calcite veinlets.</p> <p>- 118.2 - calcite-pyrite veinlet.</p>	16860	99.6	104.0	4.4				tr.
			16861	104.0	109.0	5.0				tr.
			16862	109.0	114.0	5.0				tr.
			16863	114.0	118.5	4.5				tr.
118.5	130.5	<p><u>GARNETIFEROUS METASEDIMENTS</u> - medium cream-grey, fine grained with 1/16" poikiloblastic garnets. Massive to weakly banded, schistose. Consists of garnets in a matrix of biotite-quartz-grunerite. Unit has been carbonatized.</p>	16864	118.5	122.5	4.0				tr.
			16865	122.5	126.5	4.0				tr.
			16866	126.5	130.5	4.0				tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-24 SHEET NO. 4 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	GT TON	GT TON
				FROM	TO	TOTAL			
		<p><u>Average Modes</u></p> <p>Garnet 40 - 50%</p> <p>Biotite 25 - 30%</p> <p>Quartz 7 - 10%</p> <p>Grunerite 7 - 10%</p> <p>Calcite 7 - 10%</p> <p>Magnetite 0.5 - 1%</p> <p>Chlorite 0.5 - 1%</p> <p>Sulphides trace</p> <p>Magnetite disseminated in few bands. Few calcite veinlets. Sulphide occurs as fine grained disseminations. Several chloritic fractures; some contain pyrite coatings.</p>							
130.5	195.1	<p>BANDED IRON FORMATION - bands of light grey, cream-yellow and dark grey to black, well banded, fine to very fine grained, contorted, consist of 1/4" to 1/2" bands with iron bands of magnetite and grunerite band with grunerite haloes. Iron-rich bands are often laminated.</p> <p><u>Average Modes</u></p> <p>Chert 40 - 45%</p> <p>Grunerite 30 - 35%</p> <p>Magnetite 20 - 25%</p> <p>Calcite 1 - 3%</p> <p>Sulphides 0.5 - 1%</p> <p>Pyrrhotite and pyrite occur parallel to bands and in veinlets. Calcite occurs in few chert bands but more commonly as veinlets, and in brecciated and altered zones. Band angles vary and display folding.</p>							
		<p>- 130.5 to 133.2 - several 1/16" calcite tourmaline veinlets, with no visible sulphides, 1 to 2% parallel to banding and in fractures in chert bands.</p>	16867	130.5	133.2	2.7			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-24 SHEET NO. 5 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 133.2 to 134.2 - brecciated with calcite filling and alteration. Trace disseminated pyrite.	16868		133.2	134.2	1.0			tr.	
		- 133.4 - 1/2" calcite veinlet at 30° to the core axis which is visibly connected to other veinlets and filling within the breccia.									
		- 134.2 to 143.8 - poor to moderately banded, 1 to 3% pyrrhotite and 0.5% pyrite parallel and minor amounts within fractures but the seam relates. Several small 1/2" bands of 7 to 10% sulphide. Section contains 10 to 15% garnets.	16869		134.2	139.2	5.0			tr.	
			16870		139.2	143.6	4.4			tr.	
		- 143.8 to 144.2 - two quartz veins, separated by 1/2" of Banded Iron Formation. 3 to 5% pyrrhotite as blebs and wisps within veins and at contact with wall rock.	16871		143.6	144.6	1.0			tr.	
		- 144.2 to 156.7 - typical, few 1/2" quartz veinlets, nil to trace sulphides within veinlets.	16872		144.6	148.7	4.1			tr.	
			16873		148.7	152.7	4.0			tr.	
			16874		152.7	156.7	4.0			tr.	
		- 146.8 to 147.4 - three calcite-pyrite filled hairline fractures at 45° to core axis.									
		- 156.7 to 160.5 - abundant calcite-chlorite fine veinlets, many with pyrite.	16875		156.7	160.5	3.8			.02	
		- 157.8 to 158.0 - brecciated with 7 to 10% pyrrhotite and pyrite.									
		- 159.6 to 160.2 - brecciated with quartz-calcite veinlet at 159.9 to 161.1 at 50° to core axis.									
		- 160.5 to 168.0 - typical, trace to 0.5% sulphide.	16876		160.5	164.0	3.5			.01	
			16877		164.0	168.0	4.0			tr.	
		- 161.1 to 161.4 - quartz vein, no visible sulphides.									
		- 162.4 to 162.7 - no banding, foliated at 42° to core axis. Probable shear zone. 1 to 3% sulphides. Moderately chloritized.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-24 SHEET NO. 6 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FROM	TO	TOTAL	%	%	OZ TON	OZ TON
		- 168.0 to 170.4 - brecciated from 168.4 to 168.8 and 169.7 to 170.0. These contain quartz fillings which have also been brecciated and filled with quartz-calcite-chlorite (2 periods?). Fragments of wall rock are altered to light green and pink. Sections between and around the brecciated zone are well fractured and altered to light green and pink. No visible sulphides.	16878		168.0	170.4	2.4			tr.	
		- 170.4 to 171.4 - well folded, no banding, well foliated, moderately chloritized.	16879		170.4	171.4	1.0			tr.	
		- 171.4 to 181.0 - typical, trace to 0.5% sulphide.	16880		171.4	176.0	4.6			tr.	
		- 181.0 to 184.9 - 3 to 5% pyrrhotite and 1 to 2% pyrite as wisps and blebs parallel to banding; 0.5 to 1% sulphide in fractures and veinlets.	16881		176.0	181.0	5.0			tr.	
			16882		181.0	184.9	3.9			tr.	
		- 184.9 to 195.1 - typical with several hairline quartz fractures at 32° to core axis with fine alteration haloes on some.	16883		184.9	190.1	5.2			tr.	
			16884		190.1	195.1	5.0			tr.	
		- 188.5 - 1/4" quartz-calcite veinlet at 30° to core axis.									
		- 191.5 - 1/16" hematitic alteration with quartz-calcite veinlet.									
		- 194.0 - banded at 55° to core axis.									
195.1	201.8	<u>GARNETIFEROUS METASEDIMENTS</u> - similar to 118.5 to 130.5 with rare well spaced chert bands and quartz veinlets. Trace disseminated sulphides.	16885		195.1	198.1	3.0			tr.	
			16886		198.1	201.8	3.7			tr.	
8	240.6	<u>BANDED IRON FORMATION</u> - similar to 130.5 to 195.1, weak to moderately contorted, trace to 0.5% sulphides.									
		- 201.8 to 205.7 - typical.	16887		201.8	205.7	3.9			tr.	
		- 205.7 to 213.2 - poorly banded, 1 to 2% pyrrhotite, parallel to	16888		205.7	209.2	3.5			tr.	

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DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-24 SHEET NO. 7 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
		- 207.3 to 207.5 - calcite-chlorite veinlet at 207.3 and calcite band to 207.5. 5 to 7% sulphides.								
		- 211.7 to 212.0 - four hairline quartz veinlets at 37° to core axis with 1/4" to 1/2" cream, pink and red alteration haloes (jasper?).	16889		209.2	213.2	4.0		tr.	
		- 213.2 to 240.6 - typical, 0.5 to 1% pyrrhotite, trace to 0.5% pyrite in narrow blebs and stringers.	16890		213.2	218.0	4.8		tr.	
			16891		218.0	223.0	5.0		tr.	
			16892		223.0	228.0	5.0		tr.	
		- 224.5 - banded at 65° to core axis.	16893		228.0	233.0	5.0		tr.	
			16894		233.0	237.0	4.0		tr.	
		- 227.6 - 1/8" calcite-chlorite veinlet with trace to 0.5% pyrite 45° to core axis.	16895		237.0	240.6	3.6		.96	(rerun tr.)
		- 231.0 - 1/8" quartz veinlet with red and green alteration halo.								
		- 233.5 to 235.5 - 1 to 2% pyrrhotite and 0.5 to 1% pyrite parallel to banding and as fracture filling.								
		- 238.0 to 240.6 - few narrow quartz veinlets.								
240.6	246.2	<u>ULTRAMAFIC VOLCANICS</u> - similar to 47.0 to 94.2, trace disseminated sulphides.	19234		240.6	244.8	4.2		tr.	
			16896		244.8	246.2	1.4		.46	(rerun tr.)
		- 245.2 - 1/4" calcite-hematite veinlet.								
246.2	267.7	<u>BANDED IRON FORMATION</u> - similar to 35.0 to 47.0 with garnet-biotite-amphibole bands with quartz-magnetite bands but atypical since not lean with 10 to 15% magnetite. Trace to 0.5% pyrrhotite	16897		246.2	250.4	4.2		tr.	
			16898		250.4	254.4	4.0		tr.	
			16899		254.4	258.4	4.0		tr.	
			16900		258.4	262.4	4.0		.01	
		- 246.2 to 262.4 - typical.								
		- 262.4 to 264.6 - laminated to poorly banded, with strong sulphide mineralization. 3 to 5% pyrrhotite and 1 to 2% pyrite as wisps, blebs and stringers parallel as well as crosscutting laminations.	16522		262.4	264.6	2.2		tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-24 SHEET NO. 8 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 264.6 - 267.7 - similar to above but with 15 to 20% pyrrhotite and 0.5 to 1% pyrite. Contains few narrow nearly massive bands.	16523		264.6	267.7	3.1			tr.	
267.7	272.2	ULTRAMAFIC VOLCANICS - medium to dark green, fine grained, moderately foliated, mineralogy dominated by tremolite-serpentine with minor phlogopite. Few narrow chert bands. Trace sulphides.									
272.2	272.8	BANDED IRON FORMATION - similar to 264.6 to 267.7 with a 1.5" band of near massive pyrrhotite and 3 to 5% pyrite. The unit has 15 to 20% sulphides.	16524		272.0	273.0	1.0			tr.	
272.8	278.0	ULTRAMAFIC VOLCANICS - similar to 267.7 to 272.2 with chert bands near contact with Banded Iron Formation above. Trace phlogopite except 272.8 to 274.2 where there is 5 to 7% phlogopite.									
		- 273.3 to 273.5 - 3 to 5% pyrrhotite.	16525		273.0	274.0	1.0			tr.	
278.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-25 LENGTH 347'
 LOCATION 15+93NW 2+98NE
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 229° DIP -44.8°
 STARTED December 3, 1986 FINISHED December 5, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-44.8°				
347'	38.0°				

HOLE NO. OP-86-25 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 844239

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH- IDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	5.0	<u>CASING</u>									
5.0	58.9	<u>BANDED GARNETIFEROUS METASEDIMENT</u>									
58.9	111.2	<u>ULTRAMAFIC VOLCANICS</u>									
111.2	158.7	<u>GARNETIFEROUS METASEDIMENT</u>									
158.7	209.2	<u>BANDED IRON FORMATION</u>									
		- 192.4 to 209.2 - contorted banding, near parallel to core axis from 195.2 to 209.2. 0.5 to 1.0% pyrite in fractures in chert bands.	6562		194.0	199.0	5.0			.09	
		- 195.0 to 195.6 - highly contorted with 1 to 3% pyrite.									
209.2	229.4	<u>METASEDIMENTS</u> - argillite.									
229.4	236.4	<u>GARNETIFEROUS METASEDIMENTS</u>									
236.4	238.5	<u>LAMPROPHYRE DIKE</u>									
238.5	241.5	<u>GARNETIFEROUS METASEDIMENTS</u>									
241.5	347.0	<u>BANDED IRON FORMATION</u>									
7.0		End of Hole.									

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DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-25 LENGTH 347'
 LOCATION 15+93NW 2+98NE
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 229° DIP -44.8°
 STARTED December 3, 1986 FINISHED December 5, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	44.8°				
347'	38.0°				

HOLE NO. OP-86-25 SHEET NO. 1 of 8

REMARKS _____

PA - 844239

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS																																
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON																											
					FROM	TO	TOTAL																															
0	5.0	<u>CASING</u>																																				
5.0	58.9	<p><u>GARNETIFEROUS METASEDIMENTS</u> - dark green to black with pink garnet poikiloblasts (commonly 1/32" to 1/8"), weak to moderately banded, fine grained. Common narrow chert bands (1/4" to 1/2" wide). Few chert bands contain minor magnetite-grunerite.</p> <p><u>Average Modes</u></p> <table> <tr><td>Biotite</td><td>30</td><td>-</td><td>40%</td></tr> <tr><td>Hornblende</td><td>20</td><td>-</td><td>25%</td></tr> <tr><td>Garnet</td><td>20</td><td>-</td><td>25%</td></tr> <tr><td>Quartz</td><td>15</td><td>-</td><td>20%</td></tr> <tr><td>Grunerite</td><td>0.5</td><td>-</td><td>1%</td></tr> <tr><td>Magnetite</td><td>trace</td><td>-</td><td>0.5%</td></tr> <tr><td>Sulphide</td><td>trace</td><td></td><td></td></tr> </table> <p>Dominantly garnets in biotite and hornblende with quartz grains, laminations and narrow bands. Pyrite and pyrrhotite occur parallel to banding and as fracture coatings.</p> <p>- 5.0 to 9.4 - moderately banded with minor sericite.</p> <p>- 9.4 to 20.5 - typical, few limonite coated fractures.</p> <p>- 20.5 to 21.1 - quartz vein, no visible sulphides. Vein oriented at 30° to core axis.</p> <p>- 21.1 to 25.6 - moderately banded with hornblende dominating over biotite.</p> <p>- 25.6 to 34.0 - typical.</p>	Biotite	30	-	40%	Hornblende	20	-	25%	Garnet	20	-	25%	Quartz	15	-	20%	Grunerite	0.5	-	1%	Magnetite	trace	-	0.5%	Sulphide	trace										
Biotite	30	-	40%																																			
Hornblende	20	-	25%																																			
Garnet	20	-	25%																																			
Quartz	15	-	20%																																			
Grunerite	0.5	-	1%																																			
Magnetite	trace	-	0.5%																																			
Sulphide	trace																																					
			16526		5.0	10.0	5.0			.01																												
			16527		10.0	15.0	5.0			.01																												
			16528		15.0	20.0	5.0			tr.																												
			16529		20.0	21.5	1.5			tr.																												
			16530		21.5	26.0	4.5			tr.																												
			16531		26.0	31.0	5.0			.02																												
			16532		31.0	36.0	5.0			tr.																												

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-25 SHEET NO. 2 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS							
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON		
					FROM	TO	TOTAL						
58.9	111.2	- 34.0 to 55.2 - moderate to well banded with many quartz-grunerite bands. 0.5 to 1.0% magnetite which is disseminated to laminated within these bands.	16533		36.0	41.0	5.0			tr.			
			16534		41.0	46.0	5.0			.01			
			16535		46.0	51.0	5.0			tr.			
			16536		51.0	55.0	4.0			tr.			
				- 50.0 - banded at 50° to core axis.									
				- 55.2 to 58.9 - moderate to poorly banded, grading to very nearly nil biotite with hornblende-garnet with narrow chert bands.	16537		55.0	58.9	3.9			.03	
				ULTRAMAFIC VOLCANIC - light to medium grey, fine grained, moderately foliated, mineralogy dominated by tremolite-serpentine with minor talc. Trace disseminated pyrite, trace to 0.5% disseminated magnetite.									
				- 58.9 to 63.1 - medium to dark grey-green, massive to weakly laminated, dominated by actinolite-tremolite with few quartz laminations. Few bands of disseminated to laminated magnetite; trace to 0.5% pyrrhotite parallel to lamination and as fracture fillings.	16538		58.9	62.8	3.9			tr.	
				- 63.1 to 66.5 - similar to above with several quartz veinlets. Trace sulphides.									
				- 63.1 to 63.5 - 1 to 2% pyrrhotite with trace chalcopyrite and arsenopyrite in fractures associated with quartz veinlets.	16539		62.8	63.8	1.0			tr.	
					16540		63.8	66.5	2.7			tr.	
				- 66.5 to 84.6 - typical, as described with few narrow bands containing magnesite.									
		- 84.6 to 87.4 - abundant dark clots (1/8" to 1/4") of serpentine with minor magnetite.											
		- 87.4 to 89.8 - as in 66.5 to 84.6.											
		- 89.8 to 92.7 - as in 84.6 to 87.4.											
		- 92.7 to 101.0 - typical wisp serpentine coating fracture from near parallel at 92.7 to 20° to core axis at 100.0											

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-25 SHEET NO. 3 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 101.0 to 103.0 - medium grey-green with increased serpentine content.									
		- 103.0 to 104.0 - 10 to 15% phlogopite and biotite.									
		- 104.0 to 111.2 - dominantly tremolite-actinolite with minor phlogopite.									
111.2	158.7	GARNETIFEROUS METASEDIMENTS - dark grey with pink garnets, fine grained, schistose, massive.									
		<u>Average Modes</u>									
		Biotite 40 - 50%									
		Garnets 35 - 45%									
		Quartz 10 - 15%									
		Sulphide trace									
		Garnet poikiloblasts (1/16" to 1/8") occur in a matrix of biotite and fine grained quartz. Sulphides occur as fracture coatings and in fine quartz veinlets.									
		- 111.2 to 121.4 - grades from dominantly quartz, 7 to 10% garnets, minor hornblende and grunerite to typical at 121.4. Trace to 0.5% magnetite.	16541		111.2	116.0	4.8			tr.	
			16542		116.0	121.0	5.0			tr.	
		- 121.4 to 129.0 - typical.	16543		121.0	126.0	5.0			tr.	
			16544		126.0	131.0	5.0			tr.	
		- 129.0 to 132.7 - moderate compositional banding with bands of biotite-quartz.	16545		131.0	136.0	5.0			tr.	
		- 132.7 to 133.7 - typical.									
		- 133.7 to 135.3 - biotite-quartz, no garnets.									
		- 135.3 to 140.0 - 20 to 30% garnets.	16546		136.0	139.8	3.8			tr.	
			16547		139.8	141.8	2.0			tr.	
		- 140.0 to 140.8 - 10 to 12% garnets, several quartz-plagioclase veinlets with green to pink alteration halo veinlets containing several fine blue-grey inclusions (?). Veinlets commonly at 65° to									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-25 SHEET NO. 4 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		core axis. No visible sulphides.									
		- 140.8 to 141.8 - dominantly hornblende, with 7 to 10% garnets and minor quartz. Few veinlets similar to those in 140.0 to 140.8.									
		- 141.8 to 144.5 - interbedding of garnet-biotite (60%) and garnet-hornblende (40%). Few boudinaged quartz veinlets with trace to 0.5% pyrite adjacent these veinlets or around garnets.	16548		141.8	146.0	4.2			tr.	
		- 144.5 to 150.0 - typical with trace to 0.5% pyrite adjacent quartz veinlets.	16549		146.0	151.0	5.0			tr.	
		- 149.1 - 1/8" calcite-pyrite veinlet at 47° to core axis.									
		- 150.0 to 157.0 - few 1/4" bands of chert-magnetite laminations. 1 to 3% magnetite. Banding at 13° to core axis at 152.0 and becomes nearly parallel to core axis at 155.0. Several 1/4" concordant quartz veins with 0.5 to 1% pyrite and pyrrhotite within the veins, with associated veinlets and in adjacent wall rock. Also several fine quartz veinlets at high angles to core axis and cut concordant veins. No visible sulphide with these veinlets.	16550		151.0	154.0	3.0			tr.	
			16551		154.0	157.0	3.0			tr.	
		- 157.0 to 158.7 - 1 to 3% garnet, contorted quartz veinlets, no visible sulphides.	16552		157.0	158.7	1.7			tr.	
158.7	209.2	BANDED IRON FORMATION - bands of light grey, dark grey to black and dark green, fine grained, moderate to well banded with strong lamination within bands. Generally band of chert-magnetite and hornblende-biotite-garnet. Band angles are variable and are given in various subunits.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-25 SHEET NO. 5 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		<u>Average Modes</u>									
		Quartz 30 - 40%									
		Hornblende 25 - 30%									
		Magnetite 20 - 25%									
		Biotite 7 - 10%									
		Garnets 5 - 7%									
		Sulphides trace - 0.5%									
		Pyrite and pyrrhotite occur commonly as fracture coatings but in few sections as veinlets and band replacement.									
		- 158.7 to 164.5 - 7 to 10% magnetite and abundant chloritic fractures. Fractures are at 15° to core axis (discordant).	16553		158.7	161.5	2.8				tr.
			16554		161.5	164.5	3.0				tr.
		- 164.0 - banded at 20° to core axis.									
		- 164.5 to 165.8 - 12 to 15% pyrrhotite and 2 to 5% pyrite parallel to bands (replacement) and as wisps and stringers across bands.	16555		164.5	166.0	1.5				tr.
		- 165.8 to 168.8 - 1 to 2% pyrite as wisps associated with hairline fractures.	16556		166.0	169.0	3.0				.03
		- 166.0 - banded at 66° to core axis.									
		- 168.8 to 172.8 - 10 to 15% magnetite.									
		- 171.0 - banded at 20° to core axis.	16557		169.0	174.0	5.0				tr.
			16558		174.0	179.0	5.0				tr.
		- 172.8 to 192.4 - hornblende-biotite bands/laminae are garnet free. Several hairline quartz-calcite filled fractures at high angle to core axis. Trace sulphide.	16559		179.0	184.0	5.0				tr.
			16560		184.0	189.0	5.0				tr.
			16561		189.0	194.0	5.0				tr.
		- 177.0 - banded at 37° to core axis.									
		- 177.3 - quartz veinlet with light green alteration band. No visible sulphides.									

DIAMOND DRILL RECORD

NAME OF PROPERTY _____ OPAPIMISKAN LAKE

HOLE NO. OP-86-25 SHEET NO. 6 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON
				FROM	TO	TOTAL				
		- 186.0 - 1/4" calcite veinlet with 1% pyrite.								
		- 186.5 - banded at 35° to core axis.								
		- 192.4 to 195.0 - banding contorted.								
		- 195.0 to 209.2 - banding near parallel to core axis but abundant small folds cause constant variations. Folds have 3" to 6" frequency and 1" to 2" amplitude. 0.5 to 1% pyrite in fracture chert bands.	16562		194.0	199.0	5.0			.09
			16563		199.0	204.0	5.0			.01
			16564		204.0	209.2	5.2			tr.
		- 195.0 to 195.6 - highly contorted with 1 to 3% pyrite.								
209.2	229.4	<u>METASEDIMENTS</u> - dark grey, fine grained, well foliated, argillite.	16565		209.2	214.4	5.2			tr.
		<u>Average Modes</u>	16566		214.4	219.4	5.0			tr.
		Biotite 25 - 35%	16567		219.4	224.4	5.0			tr.
		Hornblende 25 - 35%	16568		224.4	229.4	5.0			tr.
		Quartz 25 - 35%								
		Calcite trace - 0.5%								
		Pyrite trace								
		Pyrite occurs as fracture coatings. Calcite occurs in many fine veinlets. Several discontinuous quartz veinlets with minor calcite.								
		- 217.9 to 218.0 - quartz vein at 45° to core axis; no visible sulphides.								
		- 219.8 to 219.9 - quartz vein; no visible sulphides.								
229.4	236.4	<u>GARNETIFEROUS METASEDIMENTS</u> - medium to dark grey, fine to very fine grained with medium to coarse garnet poikiloblasts. Matrix for garnets is hornblende-biotite with minor grunerite. Trace to 0.5% magnetite disseminated in small bands. Several chlorite and calcite filled fractures. Trace sulphides.								
		- 229.4 to 231.7 - typical, garnet content is 30 to 40%.	16569		229.4	232.4	3.0			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. QP-86-25 SHEET NO. 7 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 231.7 to 236.4 - garnet content is 50 to 60% and unit appears nearly massive.	16570		232.4	236.4	4.0			tr.	
236.4	238.5	LAMPROPHYRE DIKE - dark grey to black, fine grained, porphyritic with black phenocrysts, massive. Phenocrysts are serpentinized pseudomorphs. Mineralogy consists dominantly of serpentine, chlorite and calcite with minor phlogopite. Few fine calcite veinlets. 4" chilled margins. No visible sulphides.	16571		236.4	238.5	2.1			tr.	
238.5	241.5	GARNETIFEROUS METASEDIMENTS - similar to 229.4 to 236.4. Trace pyrite.	16572		238.5	241.5	3.0			.02	
241.5	347.0	BANDED IRON FORMATION - bands of light grey, dark grey and cream-yellow. Well banded, fine to very fine grained, weak to moderately contorted. Generally consists of 1/2" to 2" band of chert interbedded with iron-rich bands. The iron rich bands consist of magnetite-grunerite and have a 1/8" grunerite rim. <u>Average Modes</u> Quartz 35 - 45% Grunerite 25 - 35% Magnetite 20 - 25% Calcite 3 - 5% Sulphide trace - 0.5% Calcite occurs disseminated in iron-rich bands and in few fine veinlets. Pyrrhotite occurs generally within iron-rich bands but also occurs as fracture coatings and fillings. - 241.5 to 243.0 - typical. - 243.0 to 245.2 - contorted bands, several brecciated bands, few calcite veinlets in brecciated zone. - 245.2 to 262.0 - moderately banded and contorted. - 262.0 to 263.2 - 3 to 5% garnet and 1 to 3% pyrite.	16573		241.5	246.0	4.5			tr.	
			16574		246.0	251.0	5.0			tr.	
			16575		251.0	256.0	5.0			tr.	
			16576		256.0	259.0	3.0			.02	
			16577		259.0	262.0	3.0			tr.	
			16578		262.0	265.0	3.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-25 SHEET NO. 8 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 263.2 to 265.1 - massive to finely laminated, dominantly magnetite	16579		265.0	270.0	5.0			tr.	
		-grunerite with 1 to 2% pyrrhotite parallel to	16580		270.0	275.0	5.0			.02	
		lamination. Laminated at 30° to core axis.	16581		275.0	280.0	5.0			tr.	
			16582		280.0	283.0	3.0			tr.	
		- 265.1 to 283.8 - typical.									
		- 283.8 to 284.0 - quartz vein with 0.5 to 1% pyrrhotite.	16583		283.0	285.0	2.0			tr.	
		- 284.0 to 284.5 - 7 to 10% pyrrhotite parallel to banding.									
		- 284.5 to 347.0 - typical, 0.5 to 1% pyrrhotite parallel to banding	16584		285.0	290.0	5.0			tr.	
		and as fracture filling. Sulphide mainly in	16585		290.0	295.0	5.0			tr.	
		contorted bands. Few narrow quartz veinlets.	16586		295.0	300.0	5.0			tr.	
			16587		300.0	305.0	5.0			.01	
		- 289.0 - banded at 40° to core axis.	16588		305.0	310.0	5.0			tr.	
			16589		310.0	315.0	5.0			.01	
		- 305.0 to 332.0 - banding highly variable with	16590		315.0	320.0	5.0			tr.	
		many small folds recognizable.	16591		320.0	325.0	5.0			.01	
			16592		325.0	330.0	5.0			tr.	
		- 314.0 - 1" quartz vein with 1% pyrrhotite	16593		330.0	335.0	5.0			tr.	
		in fractures.	16594		335.0	340.0	5.0			tr.	
			16595		340.0	344.0	4.0			tr.	
		- 340.0 - banded at 50° to core axis.	16596		344.0	347.0	3.0			tr.	
347.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-26 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
263.6	266.5	<u>BANDED IRON FORMATION</u>									
266.5	271.3	<u>METASEDIMENTS</u>									
271.3	272.3	<u>BANDED IRON FORMATION</u>									
272.3	275.5	<u>MAFIC VOLCANICS</u>									
275.5	277.3	<u>BANDED IRON FORMATION</u>									
277.3	280.6	<u>GARNETIFEROUS METASEDIMENTS</u>									
280.6	294.4	<u>BANDED IRON FORMATION</u>									
294.4	298.0	<u>GARNETIFEROUS METASEDIMENTS</u>									
298.0		End of Hole.									

[Handwritten Signature]

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-26 LENGTH 298'
 LOCATION 17+00NW 1+02SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -46°
 STARTED December 7, 1986 FINISHED December 9, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-46.0°				
298'	-42.0°				

HOLE NO. OP-86-26 SHEET NO. 1 of 8

REMARKS _____

PA - 844239

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	25.0	<u>CASING</u>									
25.0	40.3	<u>GARNETIFEROUS METASEDIMENT</u> - dark grey, fine grained with coarse white to pink garnet poikiloblasts; well foliated. <u>Average Modes</u> Biotite 25 - 35% Quartz 25 - 35% Garnet 15 - 25% Staurolite 5 - 7% Pyrite trace - 0.5% Few narrow quartz bands and laminations. Several chloritic fractures. Pyrite occurs rimming garnets and in fine veinlets with quartz. Several limonitic fractures. - 25.0 to 27.3 - 3 to 5% garnet. - 27.3 to 31.3 - typical. - 31.3 to 33.0 - few narrow sericite-rich bands. - 33.0 to 40.3 - typical.									
			16597		25.0	30.0	5.0				tr.
			16598		30.0	35.0	5.0				tr.
			16599		35.0	40.3	5.3				tr.
40.3	42.4	<u>MAFIC VOLCANICS</u> - dark green, fine to very fine grained, weakly foliated, mineralogy dominated by hornblende-actinolite. Gradational contact from sediments above and below, thus few garnetiferous bands near contacts. Also few garnets in 1/2" band at 43.8. Trace to 0.5% pyrite and pyrrhotite as fracture fillings.	16600		40.3	42.4	2.1				tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-26 SHEET NO. 2 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
42.4	62.8	<p><u>GARNETIFEROUS METASEDIMENTS</u> - atypical with 20 to 30% garnets, trace staurolite, and 15 to 20% amphibole as narrow interbeds and with biotite. 0.5 to 1% pyrite as disseminations and as fine fracture fillings.</p> <p>- 42.4 to 42.9 - grades from mafic flow with banding of mafics and sediments.</p> <p>- 42.6 - chalcopyrite wisp with chert lamination in garnet pressure shadow.</p> <p>- 42.9 to 47.5 - as described.</p> <p>- 44.2 - 1/2" band of 3 to 5% pyrite and pyrrhotite with trace arsenopyrite.</p> <p>- 47.5 to 49.0 - sheared and silicified, minor brecciated, highly contorted foliation, no visible sulphides.</p> <p>- 49.0 to 60.8 - contains several 1/4" to 1/2" chert bands.</p> <p>- 60.8 to 61.4 - sheared at 65° to core axis. Zone is chloritized and contains 1" quartz-calcite vein at 60.0. Several fine calcite filled fractures, 0.5 to 1% pyrite in fracture in adjacent wall rock.</p> <p>- 61.4 to 62.8 - amphibole dominates over biotite.</p>									
			19001		42.4	47.4	5.0			.02	
			19002		47.4	49.0	1.6			tr.	
			19003		49.0	53.0	4.0			tr.	
			19004		53.0	57.0	4.0			tr.	
			19005		57.0	60.0	3.0			tr.	
			19006		60.0	62.8	2.8			tr.	
62.8	70.8	<p><u>MAFIC VOLCANIC (SHEARED?)</u> - light to medium grey-green, fine grained, schistose, mineralogy dominated by chlorite-carbonate. Many carbonate and quartz veinlets. Trace disseminated pyrite.</p> <p>- 62.8 to 64.8 - as in 40.3 to 42.4, with several garnet-biotite interbeds. (Transition from sediments)</p> <p>- 64.8 to 67.6 - ground core.</p> <p>- 67.6 to 70.8 - typical.</p>									
			19007		62.8	64.8	2.0			tr.	
			19008		64.8	67.8	3.0			tr.	
			19009		67.8	70.8	3.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-26 SHEET NO. 3 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPH IOES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
70.8	90.3	<p><u>GARNETIFEROUS METASEDIMENTS</u> - atypical, well banded with 1" to 2" garnet-biotite, garnet-hornblende (± grunerite) with 1/4" to 1/2" chert interbeds. Moderately contorted. Trace to 0.5% pyrite.</p> <p>- 70.8 to 88.0 - as described.</p> <p>- 88.0 to 90.3 - 0.5% magnetite as disseminations and laminations in chert bands.</p>	19010		70.8	75.3	4.5			tr.
			19011		75.3	80.3	5.0			tr.
			19012		80.3	85.3	5.0			tr.
			19013		85.3	90.3	5.0			tr.
90.3	151.7	<p><u>ULTRAMAFIC VOLCANICS (INTRUSIVE?)</u> - medium to dark grey, fine grained, well foliated,</p> <p><u>Average Modes</u></p> <p>Serpentine 45 - 50%</p> <p>Talc 35 - 45%</p> <p>Carbonate 3 - 5%</p> <p>Magnetite trace - 0.5%</p> <p>Magnetite occurs as disseminations or within serpentine clots. Carbonate (magnesite and dolomite) is both disseminated and in laminations.</p> <p>- 90.3 to 98.0 - typical.</p> <p>- 98.0 to 102.7 - few 1/4" serpentine clots.</p> <p>- 102.7 to 120.8 - typical, few hematite coated fractures.</p> <p>- 120.8 to 138.1 - abundant serpentine clots (1/8" to 1/4") with 0.5 to 1% magnetite.</p> <p>- 125.2 to 126.0 - asbestos.</p> <p>- 138.1 to 147.2 - typical.</p> <p>- 147.2 to 150.0 - greenish hue with increase in serpentine.</p> <p>- 150.0 to 151.7 - transition to sediment below. 1" bands of tremolite-actinolite with minor phlogopite</p>	19014		150.0	151.7	1.7			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-26 SHEET NO. 4 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON
					FROM	TO	TOTAL			
151.7	167.0	<p>interbedded with 1/4" bands of chert, bands containing 1 to 3% magnetite. 1/8" grunerite rim surround chert bands.</p> <p><u>GARNETIFEROUS METASEDIMENTS</u> - atypical, well banded to near massive, trace disseminated sulphides.</p> <p>- 151.7 to 158.0 - similar to 70.8 to 90.3, with 15 to 20% garnet.</p> <p>- 158.0 to 167.0 - dark grey with pink garnets, fine to very fine grained, nearly massive.</p> <p><u>Average Modes</u></p> <p>Biotite 25 - 35%</p> <p>Quartz 25 - 35%</p> <p>Garnet 10 - 15%</p> <p>Hornblende 7 - 10%</p> <p>Sulphides trace</p> <p>- 158.1 to 158.7 - 10 to 12% pyrite parallel to foliation.</p>	19015		151.7	157.0	5.3			tr.
			19016		157.0	162.0	5.0			tr.
			19017		162.0	167.0	5.0			tr.
167.0	188.4	<p><u>BANDED IRON FORMATION</u> - bands of dark grey and dark green to black with pink garnets, fine to very fine grained. Consists of bands of hornblende-biotite-garnet interbedded with bands of chert-magnetite. Chert-magnetite bands are well laminated and contain disseminated grunerite.</p> <p><u>Average Modes</u></p> <p>Quartz 25 - 30%</p> <p>Magnetite 20 - 25%</p> <p>Biotite 15 - 20%</p> <p>Hornblende 10 - 15%</p> <p>Garnets 10 - 15%</p> <p>Grunerite 5 - 7%</p> <p>Pyrrhotite trace - 0.5%</p> <p>Pyrrhotite occurs parallel to banding.</p>								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-26 SHEET NO. 5 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
188.4	191.4	- 167.0 to 179.3 - typical.	19018		167.0	172.0	5.0			tr.	
		- 176.0 - banded at 70° to core axis.	19019		172.0	177.0	5.0			tr.	
		- 179.3 to 184.0 - garnet-biotite free.	19020		177.0	182.0	5.0			.02	
		- 181.2 - several pyrite blebs in 1/2" zone with contorted bands.	19021		182.0	185.0	3.0			.01	
		- 184.0 to 188.4 - typical.	19022		185.0	188.4	3.4			.02	
		GARNETIFEROUS METASEDIMENTS - dark grey to black with pink garnets, fine grained with medium grained garnet poikiloblasts, weakly banded	19023		188.4	191.4	3.0			tr.	
		<u>Average Modes</u>									
		Biotite	35	-	45%						
		Garnet	25	-	35%						
		Plagioclase	7	-	10%						
Hornblende	7	-	10%								
Magnetite	0.5	-	1%								
Sulphide			trace								
		Sulphides are disseminated. Magnetite is disseminated in small bands.									
		- 188.6 to 188.7 - 3 to 5% disseminated magnetite.									
191.4	192.9	BANDED IRON FORMATION - similar to 167.0 to 188.4. Trace sulphides.	19024		191.4	192.9	1.5			tr.	
192.9	199.7	GARNETIFEROUS METASEDIMENT - similar to 188.4 to 191.4 but with 40 to 50% garnet. Trace sulphide.	19025		192.9	196.7	3.8			tr.	
			19026		196.7	199.7	3.0			tr.	
199.7	245.5	BANDED IRON FORMATION - bands of light grey, dark grey and cream-yellow, well banded, fine to very fine grained, weak to moderately contorted. Generally bands of chert interbedded with iron-rich bands of magnetite, grunerite, quartz and carbonate. Iron-rich bands have a 1/8" to 1/4" grunerite halo.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-26 SHEET NO. 6 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		<u>Average Modes</u>									
		Chert 30 - 40%									
		Grunerite 30 - 40%									
		Magnetite 15 - 20%									
		Calcite 5 - 7%									
		Hornblende 1 - 3%									
		Garnets 0.5 - 1%									
		Sulphide 0.5 - 1%									
		Pyrrhotite and pyrite generally occurs parallel to banding (commonly in iron-rich bands) with minor amounts and fracture fillings. Few narrow calcite veinlets at 35° to core axis. Dominantly garnet free but contains sections with garnetiferous bands.									
		- 199.7 to 202.8 - typical.	19027		199.7	204.0	4.7				tr.
		- 201.0 - band at 65° to core axis.									
		- 202.8 to 205.0 - few 1/4" garnet-biotite bands.									
		- 205.0 to 208.0 - moderately banded, 3 to 5% pyrrhotite.	19028		204.0	208.0	4.0				tr.
		- 208.0 to 218.7 - typical.	19029		208.0	213.0	5.0				tr.
			19030		213.0	218.0	5.0				.01
		- 218.7 to 221.2 - several garnet-hornblende-biotite bands.	19031		218.0	223.0	5.0				.02
		- 221.2 to 231.4 - typical.	19032		223.0	228.0	5.0				.01
		- 229.0 - banded at 70° to core axis.									
		- 231.4 to 233.5 - several narrow garnetiferous bands.	19033		228.0	233.0	5.0				tr.
		- 233.5 to 236.4 - banding near parallel to core axis with several fold closures. Axial planes are near 90° to core axis.	19034		233.0	238.0	5.0				.01
			19035		238.0	242.0	4.0				.01
		- 236.4 to 245.5 - typical with several small folds visible.	19036		242.0	245.5	3.5				.02

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-26 SHEET NO. 7 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
245.5	253.6	<u>GARNETIFEROUS METASEDIMENT</u> - similar to earlier garnetiferous units. Trace sulphides. - 245.5 to 250.2 - similar to 192.9 to 199.7. - 250.2 to 250.5 - 7 to 10% magnetite in garnet-grunerite bands. - 250.5 to 253.6 - similar to 184.4 to 191.4.	19037		245.5	249.6	4.1			.02	
			19038		249.6	253.6	4.0			tr.	
253.6	255.7	<u>BANDED IRON FORMATION</u> - similar to 167.0 to 188.4 but poorly banded well laminated. Trace sulphide. - 255.2 - 1/2" band of 7 to 10% pyrrhotite around a boudinaged chert band.	19039		253.6	255.7	2.1			tr.	
255.7	263.6	<u>GARNETIFEROUS METASEDIMENTS</u> - similar to 184.4 to 191.4, trace sulphide. - 262.7 - 1/2" quartz vein with no visible sulphide	19040		255.7	259.6	3.9			.01	
			19041		259.6	263.6	4.0			.03	
263.6	266.5	<u>BANDED IRON FORMATION</u> - similar to 167.0 to 188.4 but moderately banded and moderately laminated. Trace to 0.5% pyrrhotite. - 263.9 to 264.1 - several quartz calcite veinlets. - 265.9 to 266.5 - several quartz-calcite veinlets, 0.5 to 1% pyrrhotite at boundaries of veinlets.	19042		263.6	266.5	2.9			.02	
266.5	271.3	<u>METASEDIMENT</u> - dark brown-grey, fine grained, well foliated, similar to 158.0 to 167.0 but with no garnets. Trace disseminated sulphide. Few narrow quartz veinlets with no visible sulphides.	19043		266.5	271.0	4.5			tr.	
271.3	272.3	<u>BANDED IRON FORMATION</u> - similar to 179.3 to 184.0 with chlorite and calcite veinlets from 179.3 to 179.4. No visible sulphides.	19044		271.0	271.3	1.3			tr.	
272.3	275.5	<u>MAFIC VOLCANICS</u> - similar to 266.3 to 271.3.	19045		271.3	275.5	4.2			tr.	
275.5	277.3	<u>BANDED IRON FORMATION</u> - similar to 167.0 to 188.4, trace sulphides.	19046		275.5	277.3	1.8			tr.	

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-26 SHEET NO. 8 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
277.3	280.6	<u>GARNETIFEROUS METASEDIMENT</u> - similar to 192.9 to 197.7.	19047		277.3	280.6	3.3			tr.	
280.6	294.4	<u>BANDED IRON FORMATION</u> - similar to 199.7 to 245.5, trace to 0.5% pyrrhotite parallel to banding. - 294.0 - banded at 63° to core axis.	19048		280.6	284.4	3.8			tr.	
			19049		284.4	289.4	5.0			.03	
			19050		289.4	294.4	5.0			tr.	
294.4	298.0	<u>GARNETIFEROUS METASEDIMENT</u> - similar to 192.9 to 197.7, trace sulphides. - 294.4 to 296.0 - typical. - 296.0 to 297.0 - 3 to 5% disseminated magnetite. - 297.0 to 298.0 - typical.	19051		294.4	298.0	3.6			tr.	
298.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-27 LENGTH 397'
 LOCATION 17+00NW 2+98NE
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 229° DIP -58.3°
 STARTED December 9, 1986 FINISHED December 11, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-58.3°				
397'	-49.3°				

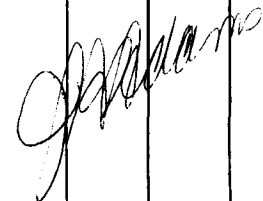
HOLE NO. OP-86-27 SHEET NO. 1 of 1

REMARKS Summary Log

PA - 844239

LOGGED BY L. Jones

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	10.4	<u>CASING</u>									
10.4	84.3	<u>GARNETIFEROUS SEDIMENT</u>									
84.3	117.0	<u>ULTRAMAFIC FLOW</u>									
117.0	127.0	<u>MAFIC FLOW (?)</u>									
127.0	180.0	<u>GARNETIFEROUS SEDIMENT</u>									
180.0	217.9	<u>INTERBEDDED GARNETIFEROUS SEDIMENT and BANDED IRON FORMATION</u>									
217.9	291.2	<u>BANDED IRON FORMATION</u> - 217.9 - 241.8 - bands are commonly finely laminated. - 241.8 - 291.2 - few laminations within bands.									
291.2	309.6	<u>MAFIC VOLCANIC</u> - 303.0 - 306.7 - Lamprophyre Dike.									
309.6	397.0	<u>BANDED IRON FORMATION</u> - trace pyrite and pyrrhotite.	19171		347.0	352.0	5.0			.11	
397.0		End of Hole.									



LANGRICE - CARBON - 366-1188

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-27 LENGTH 397'
 LOCATION 17+00NW 2+98NE
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 229° DIP -58.3°
 STARTED December 9, 1986 FINISHED December 11, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-58.3°				
397'	-49.3°				

HOLE NO. OP-86-27 SHEET NO. 1 of 5

REMARKS _____

PA - 844239

LOGGED BY L. Jones

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON	
					FROM	TO	TOTAL				
0	10.4	<u>CASING</u>									
10.4	84.3	<u>GARNETIFEROUS SEDIMENT</u> - matrix dark grey-black, very fine grained, infrequently banded, banding 15° to core axis at 38', 50° at 82'. Garnets 1-5 mm, pink, subhedral to euhedral; garnet content varies locally from 15% to 60%. Magnetite in 2/3-2.5 cm chert-magnetite bands. Sulphides occur as fine, infrequent stringers and blebs. Chlorite in infrequent bands up to 2.5 cm. <u>Average Modes</u> Biotite 40 - 50% Garnets 30 - 40% Magnetite 3 - 5% Chert 5 - 10% Pyrite trace Pyrrhotite trace - 81.7 - 82.1 - trace <u>chalcopyrite</u> as fine stringers and blebs.	19101		10.4	14.2	3.8				tr.
			19102		14.2	17.0	2.8				tr.
			19103		17.0	22.0	5.0				tr.
			19104		22.0	27.0	5.0				tr.
			19105		27.0	32.0	5.0				.01
			19106		32.0	37.0	5.0				tr.
			19107		37.0	42.0	5.0				.01
			19108		42.0	47.0	5.0				.01
			19109		47.0	52.0	5.0				tr.
			19110		52.0	57.0	5.0				tr.
			19111		57.0	62.0	5.0				tr.
			19112		62.0	67.0	5.0				.02
			19113		67.0	72.0	5.0				.01
			19114		72.0	77.0	5.0				tr.
			19115		77.0	81.2	4.2				tr.
			19116		81.2	82.5	1.3				.01
			19117		82.5	84.3	1.8				tr.
84.3	117.0	<u>ULTRAMAFIC FLOW</u> - medium to dark grey, greenish hues towards contacts. Generally fine grained. Mildly magnetic. Mineralogy predominantly talc and serpentine. - 84.3 - 87.0 - section has greenish hues, almost appears to be mafic flow but grades into ultramafic. - 92.0 - 105.0 - serpentine as dark, irregular clots 3-5 cm across, possibly pseudomorphs after olivine.									

LANGRISH - 11/27/86 - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-27 SHEET NO. 2 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 109.0 - 111.0 - foliation parallel to core axis.									
		- 112.0 - 117.0 as in 84.3 - 87.0.									
		- 114.1 - 114.5 - very friable, possibly sheared, general appearance of this unit indicates that it may be intrusive.									
117.0	127.0	<u>MAFIC FLOW ?</u> - fine grained, dark green with irregular, wispy light grey streaks, possibly due to tremolite-actinolite. Upper and lower contacts both gradational.	19118		117.0	122.0	5.0			.01	
			19119		122.0	127.0	5.0			tr.	
		- 121.0 - 127.0 - 3-5% garnets, 2-3 mm, irregularly distributed. Banding generally 25° to core axis.									
127.0	180.0	<u>GARNETIFEROUS SEDIMENT</u> - matrix dark brown-black, very fine grained, garnets 1-5 mm, commonly 1-2 mm. Garnet content varies locally from 5% to 50%. Infrequent chert-magnetite bands. Trace pyrite and pyrrhotite erratically distributed as fine stringers and blebs.	19120		127.0	132.0	5.0			tr.	
			19121		132.0	134.7	2.7			tr.	
			19122		134.7	138.1	3.4			tr.	
			19123		138.1	139.4	1.3			tr.	
			19124		139.4	143.0	3.6			tr.	
		<u>Average Modes</u>	19125		143.0	147.0	4.0			tr.	
		Garnets 30 - 40%	19126		147.0	152.0	5.0			tr.	
		Biotite 50 - 60%	19127		152.0	157.0	5.0			tr.	
		Chert 5 - 10%	19128		157.0	162.0	5.0			tr.	
		Plagioclase 5 - 10%	19129		162.0	167.0	5.0			tr.	
		Chlorite 5 - 10%	19130		167.0	170.2	3.2			tr.	
		Grunerite 3 - 5%	19131		170.2	174.3	4.1			tr.	
		Pyrite trace	19132		174.3	178.1	3.8			.02	
		Pyrrhotite trace	19133		178.1	180.0	1.9			.01	
		- 138.2 - 139.2 - mafic flow.									
		- 163.0 - 164.5 - banding parallel to core axis.									
		- 171.0 - 174.0 - banding parallel to core axis.									
180.0	217.9	<u>INTERBEDDED GARNETIFEROUS SEDIMENT AND BANDED IRON FORMATION</u> - bands commonly 1/2 - 1 cm wide, with iron formation bands finely laminated. Proportion of garnetiferous sediment decreases towards 217.9'. Banding usually less than 20° to core axis.									

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-27 SHEET NO. 3 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		<p><u>Average Modes</u></p> <p>Garnets 10 - 15%</p> <p>Biotite 20 - 30%</p> <p>Chlorite 5 - 10%</p> <p>Chert 20 - 30%</p> <p>Magnetite 5 - 10%</p> <p>Pyrite trace</p> <p>- 187.5 - 209.0 - banding parallel to core axis.</p> <p>- 189.1 - 190.7 - 2-3% pyrite as irregular stringers and blebs.</p>	19134		180.0	184.7	4.7			.04	
			19135		184.7	189.1	4.4			.04	
			19136		189.1	190.7	1.6			.03	
			19137		190.7	195.4	4.7			tr.	
			19138		195.4	200.2	4.8			tr.	
			19139		200.2	204.1	3.9			tr.	
			19140		204.1	208.8	4.7			tr.	
			19141		208.8	213.3	4.5			tr.	
			19142		213.3	217.9	4.6			tr.	
217.9	241.8	<p><u>BANDED IRON FORMATION</u> - banding commonly finely laminated, trace grunerite concentrated as halos 1-2 mm around fractures at 55° to core axis. 5-8% garnets, decrease in frequency away from 217.9'. Trace pyrite very finely disseminated around fractures, and as smears on foliation planes. Banding 20° to core axis at 217.9', 55° at 238.0'.</p> <p><u>Average Modes</u></p> <p>Chert 40 - 50%</p> <p>Magnetite 20 - 30%</p> <p>Garnets 5 - 8%</p> <p>Chlorite 5 - 10%</p> <p>Biotite 10 - 15%</p> <p>Grunerite trace</p> <p>Pyrite trace</p>	19143		217.9	222.2	4.3			tr.	
			19144		222.2	227.0	4.8			tr.	
			19145		227.0	232.0	5.0			tr.	
			19146		232.0	237.0	5.0			tr.	
			19147		237.0	241.8	4.8			tr.	
241.8	291.2	<p><u>BANDED IRON FORMATION</u> - light to medium grey, very fine grained, moderately well banded. Extensive replacement of magnetite by grunerite. Infrequent quartz-carbonate stringers. Garnets confined to chlorite-rich zones.</p>	19148		241.8	246.0	4.2			tr.	
			19149		246.0	250.4	4.4			.02	
			19150		250.4	254.3	3.9			.01	
			19151	3	254.3	258.4	4.1			tr.	
			19152		258.4	262.6	4.2			tr.	
			19153		262.6	267.0	4.4			.01	
			19154		267.0	272.0	5.0			tr.	
			19155		272.0	276.0	4.0			tr.	
			19156		276.0	281.0	5.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-27 SHEET NO. 4 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		<p><u>Average Modes</u></p> <p>Magnetite 20 - 30%</p> <p>Chert 30 - 40%</p> <p>Chlorite 5 - 10%</p> <p>Garnets 3 - 5%</p> <p>Biotite 3 - 5%</p> <p>Grunerite 15 - 20%</p> <p>Pyrrhotite trace - 0.5%</p> <p>Pyrite trace</p> <p>- 253.0 - 263.0 - banding subparallel to parallel to core axis.</p> <p>- 254.3 - 258.4 - 2-3% pyrrhotite, trace-0.5% pyrite.</p> <p>- 274.8 - 276.0 - chert band.</p> <p>- 276.0 - 291.2 - banding irregular, contorted, brecciated in places. Degree of disturbance increases towards 291.2'.</p>	19157		281.0	286.3	5.3			tr.	
			19158		286.3	291.2	4.9			tr.	
291.2	309.6	<p><u>MAFIC VOLCANIC</u> - light to medium green, fine grained, upper and lower contacts sharp, well defined, no phenocrysts. Possibly intrusive due to disturbance of surrounding banded iron formation.</p> <p><u>Average Modes</u></p> <p>Biotite 10 - 20 (?)</p> <p>Hornblende 40 - 50 (?)</p> <p>Tremolite]- 20 - 30 (?)</p> <p>Actinolite]- 20 - 30 (?)</p> <p>Feldspar 10 - 20 (?)</p> <p>Quartz 5 - 10 (?)</p> <p>Mineral percentages uncertain due to fine grained nature of unit.</p> <p>- 303.0 - 306.7 - Lamprophyre Dike - black, fine to medium grained, mineralogy dominated by biotite and hornblende; minor hematite stains. Chill</p>	19159		291.2	294.5	3.3			tr.	
			19160		300.1	303.0	2.9			tr.	
			19161		303.0	306.7	3.7			tr.	
			19162		306.7	309.6	2.9			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-27 SHEET NO. 5 of 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	UZ TON	UZ TON
				FROM	TO	TOTAL				
309.6	397.0	margin at 303.0 grades into medium grained section, while chill margin at 306.7 separated from medium grained section by a quartz-carbonate stringer.								
		<u>BANDED IRON FORMATION</u> - as in 241.8 - 291.2.	19163	309.6	313.4	3.8			tr.	
		- 309.6 - 312.6 - banding disturbed.	19164	313.4	317.0	3.6			.01	
		- 312.3 - 312.6 - grunerite alteration halos around fractures.	19165	317.0	322.0	5.0			tr.	
			19166	322.0	327.0	5.0			tr.	
			19167	327.0	332.0	5.0			tr.	
			19168	332.0	337.0	5.0			tr.	
			19169	337.0	342.0	5.0			tr.	
		- 317.5 - banding 50° to core axis.	19170	342.0	347.0	5.0			.01	
			19171	347.0	352.0	5.0			.11	
		- 326.2 - 1-3 mm euhedral quartz crystals on open fracture 40° to core axis.	19172	352.0	357.0	5.0			.01	
			19173	357.0	362.0	5.0			.02	
			19174	362.0	367.0	5.0			.03	
		- 343.0 - banding 20° to core axis.	19175	367.0	372.0	5.0			tr.	
			19176	372.0	377.0	5.0			tr.	
		- 346.5 - 347.0 - grunerite alteration halos around fractures 85° to core axis.	19177	377.0	381.7	4.7			tr.	
			19178	381.7	383.1	1.4			tr.	
			19179	383.1	387.0	3.9			tr.	
		- 364.0 - 367.0 - banding irregular, wispy.	19180	387.0	392.0	5.0			tr.	
			19181	392.0	397.0	5.0			tr.	
		- 368.8 - 372.2 - banding parallel to subparallel to core axis.								
		- 381.7 - 383.1 - quartz vein, may be recrystallized chert.								
		- 384.0 - 387.5 - banding parallel to subparallel to core axis.								
397.0		End of Hole.								

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LANGRIDDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-28 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPH IDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
305.3	321.3	<u>GARNETIFEROUS METASEDIMENTS</u>									
321.3	483.4	<u>BANDED IRON FORMATION</u>									
483.4	485.9	<u>LAMPROPHYRE DIKE</u>									
485.9	496.0	<u>BANDED IRON FORMATION</u>									
496.0		End of Hole.									

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DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-28 LENGTH 496'
 LOCATION 18+00NW 2+39SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -46°
 STARTED December 13, 1986 FINISHED December 15, 1986

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-46.0				
496'	-35.7				

HOLE NO. OP-86-28 SHEET NO. 1 of 8

REMARKS _____

PA - 844239

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON
0	20.8	<u>CASING</u>							
20.8	78.5	<u>MAFIC VOLCANICS</u> - dark green, fine grained, massive to weakly foliated. <u>Average Modes</u> Hornblende 45 - 55% Plagioclase 20 - 30% Quartz 10 - 15% Biotite 0.5 - 1% Chlorite trace - 0.5% Sulphides trace Pyrite and pyrrhotite occur as disseminations and as fracture coatings. Abundant fractures with chlorite coating. Several quartz-calcite veinlets with no visible sulphides (1/16" to 1/2"). - 20.8 to 50.0 - as described. - 37.7 - fine, irregular quartz-calcite veinlet with 0.5 to 1% pyrite and pyrrhotite. - 50.0 to 78.5 - weakly foliated to weakly laminated (tuffaceous). - 53.7 to 53.9 - 2" quartz-calcite veinlet, no visible sulphides. - 61.5 to 61.7 - 2" quartz-calcite veinlet with 0.5% pyrite-pyrrhotite and trace chalcopyrite. - 70.2 to 70.4 - 2" quartz-calcite veinlet, no visible sulphides.							
			19182		21.6	26.6	5.0		tr.
			19183		35.0	38.0	3.0		tr.
			19184		46.0	51.0	5.0		tr.
			19185		53.3	54.3	1.0		tr.
			19186		61.1	62.1	1.0		tr.
			19187		69.8	70.8	1.0		tr.
			19309		70.8	74.5	3.7		tr.
			19419		74.5	78.5	4.0		tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-28 SHEET NO. 2 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON
				FROM	TO	TOTAL				
78.5	205.8	<p><u>GARNETIFEROUS METASEDIMENT</u> - dark brown, fine grained with coarse garnet poikiloblasts, schistose.</p> <p><u>Average Modes</u></p> <p>Biotite 50 - 60% Quartz 15 - 20% Garnet 15 - 20% Hornblende 3 - 5% Sericite 1 - 3% Sulphides trace</p> <p>Pyrite and pyrrhotite occur as disseminations and fracture coatings. Several narrow quartz bands containing no visible sulphides.</p> <p>- 78.5 to 78.9 - laminated with mafic volcanic.</p> <p>- 78.9 to 84.4 - 5 to 7% fine grained disseminated staurolite.</p> <p> - 78.9 to 82.0 - 0.5 to 1% pyrite and pyrrhotite.</p> <p> - 82.6 to 82.7 - two 1/4" - 1/2" quartz-calcite veinlets with alteration haloes.</p> <p>- 84.4 to 85.1 - 7 to 10% sericite.</p> <p>- 85.1 to 86.8 - typical.</p> <p>- 86.8 to 90.0 - 30 to 40% sericite, 3 to 5% garnet.</p> <p>- 90.0 to 91.0 - typical.</p> <p>- 91.0 to 93.6 - weakly banded, dark green and dark brown, dominantly biotite and hornblende, trace garnets.</p> <p>- 93.6 to 94.0 - typical.</p> <p>- 94.0 to 94.9 - similar to 91.0 to 93.6.</p> <p>- 94.9 to 105.1 - 7 to 10% staurolite.</p>								
			19188	78.5	83.0	4.5			.21	
			19189	83.0	87.0	4.0			tr.	
			19190	87.0	91.0	4.0			tr.	
			19191	91.0	94.9	3.9			.02	
			19192	94.9	100.0	5.1			tr.	
			19193	100.0	105.0	5.0			.02	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-28 SHEET NO. 3 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 105.1 to 106.7 - several quartz veinlets in dominantly garnet-hornblende, 0.5 to 1% pyrite at boundary of veinlets.	19194		105.0	107.0	2.0			.02	
		- 106.7 to 127.7 - 7 to 10% staurolite, 10 to 15% garnets, several quartz laminations and narrow bands.	19195		107.0	112.0	5.0			.01	
			19196		112.0	117.0	5.0			.02	
			19197		117.0	122.0	5.0			.02	
		- 118.1 to 118.3 - 1 to 3% pyrite parallel to schistosity.	19198		122.0	127.0	5.0			tr.	
		- 127.7 to 128.8 - similar to 105.1 to 106.7, 2 to 4% pyrite parallel to veinlets and in crosscutting quartz-calcite veinlets (1/8").	19199		127.0	129.0	2.0			.05	
		- 128.8 to 129.5 - typical.									
		- 129.5 to 130.4 - medium green, fine grained, dominantly amphibole-chlorite-quartz. Few fine quartz veinlets. No visible sulphides.									
		- 130.4 to 138.8 - 20 to 25% garnets. Trace to 0.5% pyrite.	19200		129.0	134.0	5.0			tr.	
			19052		134.0	139.0	5.0			tr.	
		- 138.8 to 143.8 - few 1" bands where hornblende replaces biotite.	19053		139.0	144.0	5.0			tr.	
		- 143.8 to 189.4 - atypical, well banded with 20 to 25% highly contorted quartz bands interbedded with garnet-biotite-hornblende-grunerite bands. An increase in hornblende often occurs near the boundary of a chert band. Trace disseminated sulphides.	19054		144.0	149.0	5.0			.01	
			19055		149.0	154.0	5.0			tr.	
			19056		154.0	159.0	5.0			.01	
			19057		159.0	164.0	5.0			.01	
			19058		164.0	169.0	5.0			tr.	
		From 176.0 to 189.4 only, 15 to 20% quartz bands	19059		169.0	174.0	5.0			tr.	
			19060		174.0	178.0	4.0			tr.	
			19061		178.0	181.0	3.0			tr.	
		- 181.6 to 181.7 - several quartz-calcite veinlets. Centre of veinlets are calcite with 1/16" orange stained quartz rims. One veinlet contains apparently brecciated fragments. 1% pyrite as bleb at contact of veinlets.	19062		181.0	182.0	1.0			tr.	
		- 185.7 - narrow calcite veinlet with 0.5 to 1% pyrite.	19063		182.0	186.0	4.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-28 SHEET NO. 4 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 187.4 to 187.6 - calcite veinlet, no visible sulphides.	19064		186.0	189.4	3.4			.01	
		- 189.4 to 190.3 - similar to 129.5 to 130.4, no visible sulphides.	19065		189.4	190.4	1.0			tr.	
		- 190.3 to 194.9 - similar to 143.8 to 189.4 with 10 to 15% quartz bands.	19066		190.4	194.9	4.5			tr.	
		- 194.9 to 196.9 - similar to 129.5 to 130.4 but contains no quartz veinlets. No visible sulphides.	19067		194.9	196.9	2.0			tr.	
		- 196.9 to 205.8 - similar to 190.3 to 194.9 but many quartz bands are only weakly contorted.	19068		196.9	201.9	5.0			tr.	
		- 200.0 - banded at 70° to core axis.	19069		201.9	205.8	3.9			tr.	
205.8	217.4	<u>ULTRAMAFIC VOLCANIC</u> - medium grey, fine to very fine grained, well foliated, mineralogy dominated by talc and serpentine with 1 to 3% carbonate (calcite and magnesite) both disseminated and in many fine veinlets. No visible sulphides.									
217.4	241.0	<u>GARNETIFEROUS METASEDIMENTS</u> - atypical with few chert bands containing 0.5 to 1% magnetite. Trace sulphides.	19070		217.4	220.0	2.6			tr.	
			19071		220.0	225.0	5.0			tr.	
			19072		225.0	230.0	5.0			tr.	
		- 222.7 to 223.1 - three quartz-calcite veinlets, no visible sulphides.	19073		230.0	235.0	5.0			tr.	
			19074		235.0	241.0	6.0			tr.	
241.0	242.8	<u>ULTRAMAFIC VOLCANIC</u> - similar to 205.8 to 217.4.	19075		241.0	242.8	1.8			tr.	
242.8	281.0	<u>GARNETIFEROUS METASEDIMENTS</u> - typical but moderately compositionally banded and contains 7 to 10% chert bands. Trace to 0.5% sulphides.									
		- 242.8 to 246.0 - no banding.	19076		242.8	246.0	3.2			tr.	
		- 246.0 to 255.1 - as described above.	19077		246.0	251.0	5.0			tr.	
		- 251.0 to 251.6 - 1/8" quartz-feldspar veinlet with green copper oxides.	19078		251.0	252.1	1.1			tr.	
			19088		252.1	256.0	3.9			.01	
		- 255.1 to 256.1 - hornblende-rich and 1 to 3% garnets.									

LANGRIDDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-28 SHEET NO. 5 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON	
				FROM	TO	TOTAL					
281.0	296.4	<p>- 256.1 to 276.1 - as described, few chert bands (1/4") have 1 to 3% disseminated magnetite within bands (trace to 0.5% magnetite total).</p> <p>- 276.1 to 281.0 - dark grey, no banding, 0.5 to 1% garnets.</p> <p>BANDED IRON FORMATION - dark grey, fine to very fine grained, banded, well developed intraband laminations. Generally biotite-hornblende-garnet bands interbedded with laminated chert-magnetite bands.</p> <p><u>Average Modes</u></p> <p>Quartz 35 - 45%</p> <p>Magnetite 20 - 25%</p> <p>Biotite 10 - 15%</p> <p>Hornblende 7 - 10%</p> <p>Garnet 2 - 4%</p> <p>Calcite 0.5 - 1%</p> <p>Sulphide trace - 0.5%</p> <p>Pyrite and pyrrhotite occur parallel to laminations and as fracture fillings. Calcite occurs in few 1/4" to 1/2" quartz-calcite veinlets (no visible sulphides).</p> <p>- 281.0 to 283.0 - 1/16" quartz-calcite fractures.</p> <p>- 284.9 - 1/2" band of 25 to 30% pyrrhotite parallel to surrounding bands.</p> <p>- 294.0 - banded at 55° to core axis.</p>	19079	256.0	261.0	5.0				tr.	
			19080	261.0	266.0	5.0				tr.	
			19081	266.0	271.0	5.0				tr.	
			19082	271.0	276.0	5.0				tr.	
			19083	276.0	281.0	5.0				.04	
			19084	281.0	285.0	4.0				tr.	
			19085	285.0	289.0	4.0				.03	
			19086	289.0	293.0	4.0				tr.	
			19087	293.0	296.4	3.4				tr.	
			296.4	300.3	<p>GARNETIFEROUS METASEDIMENTS - atypical with 15 to 20% garnet in matrix of biotite and 10 to 15% grunerite and 3 to 5% hornblende. Weak compositional banding. Three chert bands, one calcite veinlet, no visible sulphides.</p>	19089	296.4	300.3	3.9		
300.3	302.3	<p>BANDED IRON FORMATION - similar to 281.0 to 296.4 but less well laminated. Trace sulphide.</p>	19090	300.3	302.3	2.0				tr.	

LANGRIDGES - TORONTO - 365-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-86-28 SHEET NO. 6 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
302.3	305.3	INTERBEDDED IRON FORMATION AND METASEDIMENTS - well banded, 70% garnetiferous metasediments (similar to 296.4 to 300.3) and 30% chert-magnetite bands. Trace sulphides. Banding commonly at 55° to core axis.	19091		302.3	305.3	3.0			tr.	
305.3	321.3	GARNETIFEROUS METASEDIMENT - similar to 296.4 to 300.3 but with 40 to 50% garnets. Trace sulphides. Sharp contact with Banded Iron Formation below.									
		- 305.3 to 310.0 - 10 to 15% garnet, many irregular quartz-calcite veinlets (no visible sulphides) with alteration around the veinlets to hornblende and chlorite.	19092		305.3	310.0	4.7			tr.	
		- 310.0 to 321.3 - as described.	19093		310.0	314.0	4.0			tr.	
			19094		314.0	318.0	4.0			tr.	
		- 318.8 - 1" quartz veinlet, no visible sulphides.	19095		318.0	321.3	3.3			tr.	
321.3	483.4	BANDED IRON FORMATION - bands of dark grey, light grey and cream-yellow, well banded, weakly contorted. Generally bands of chert interbedded with iron-rich bands, where iron-rich bands consist of grunerite-magnetite-calcite with 1/8" to 1/4" grunerite rims. Bands are usually 1/4" to 1/2" wide.									
		<u>Average Modes</u>									
		Quartz 30 - 40%									
		Grunerite 25 - 30%									
		Magnetite 15 - 20%									
		Calcite 3 - 5%									
		Sulphide 0.5 - 1%									
		0.5 to 1% pyrrhotite and trace pyrite within and adjacent iron bands and as fracture fillings. Often where banding is contorted chert bands will be boudinaged.	19096		321.3	326.0	4.7			tr.	
			19097		326.0	331.0	5.0			tr.	
			19098		331.0	336.0	5.0			.01	
			19099		336.0	341.0	5.0			.01	
			19100		341.0	346.0	5.0			tr.	
		- 321.3 to 375.7 - as described, few dispersed quartz veinlets with nil to trace sulphide mineralization.	19201		346.0	351.0	5.0			tr.	
			19202		351.0	356.0	5.0			tr.	
			19203		356.0	361.0	5.0			tr.	
			19204		361.0	366.0	5.0			tr.	
			19205		366.0	371.0	5.0			tr.	
		- 334.0 - banded at 70° to core axis.	19206		371.0	376.0	5.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-28 SHEET NO. 7 of 8

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 375.7 to 438.0 - similar to above but with few, well spaced hornblende-biotite-garnet bands which usually occur in contorted zones and in fold closures (1/8" to 1" wide).	19207		376.0	381.0	5.0			tr.	
			19208		381.0	386.0	5.0			tr.	
			19209		386.0	391.0	5.0			tr.	
			19210		391.0	396.0	5.0			.04	
			19211		396.0	401.0	5.0			tr.	
		- 411.0 to 413.0 - few small folds with fold axis near 90° to core axis.	19212		401.0	406.0	5.0			tr.	
			19213		406.0	411.0	5.0			tr.	
			19214		411.0	416.0	5.0			tr.	
		- 418.0 - banded at 80° to core axis.	19215		416.0	421.0	5.0			.01	
			19216		421.0	426.0	5.0			.01	
		- 430.8 - 1/2" band of 2 to 4% pyrrhotite.	19217		426.0	431.0	5.0			tr.	
			19218		431.0	435.0	4.0			tr.	
		- 435.0 - banded at 65° to core axis.	19219		435.0	438.0	3.0			tr.	
		- 436.6 - 1/4" band of 2 to 4% pyrrhotite.									
		- 438.0 to 438.6 - quartz vein with wisps of Banded Iron Formation. No visible sulphides.	19220		438.0	439.0	1.0			.01	
		- 438.6 to 445.8 - typical.	19221		439.0	444.0	5.0			tr.	
		- 445.8 to 465.5 - 7 to 10% biotite-garnet bands, several calcite veinlets both parallel and crosscutting banding, and calcite concentrations at the apex of small folds.	19222		444.0	449.0	5.0			tr.	
			19223		449.0	454.0	5.0			.01	
			19224		454.0	459.0	5.0			.02	
			19225		459.0	464.0	5.0			tr.	
			19226		464.0	469.0	5.0			tr.	
		- 465.5 to 480.5 - typical.	19227		469.0	474.0	5.0			.01	
			19228		474.0	478.0	4.0			.02	
		- 480.5 to 483.4 - weak to nil banding, 1 to 3% magnetite, heavily chloritized, weak to moderately carbonatization, moderate to well foliated (sheared?). No visible sulphides.	19229		478.0	480.5	2.5			tr.	
			19230		480.5	483.4	2.9			.02	
483.4	485.9	<u>LAMPROPHYRE DIKE</u> - black, massive, porphyritic, fine grained with medium to coarse pseudomorphs. Pseudomorphs are serpentine with matrix dominantly serpentine and chlorite with minor phlogopite and carbonate. Several calcite veinlets. No visible sulphides.	19231		483.4	486.0	2.6			.01	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-86-28 SHEET NO. 8 of 8

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
485.9	496.0	<u>BANDED IRON FORMATION</u> - similar to 321.3 to 483.4, 0.5 to 1% pyrrhotite within iron-rich bands. - 485.9 to 487.0 - similar to 480.5 to 483.4. - 487.0 to 496.0 - typical.	19232		486.0	491.0	5.0			tr.	
			19233		491.0	496.0	5.0			.01	
496.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-87-1 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	GT TON	GT TON
				FROM	TO	TOTAL				
423.1	429.1	<u>IRON FORMATION (SULPHIDE FACIES?)</u> - 15 to 20% pyrrhotite and 3 to 5% pyrite.								
429.1	498.0	<u>ULTRAMAFIC TO MAFIC VOLCANICS</u>								
498.0		End of Hole.								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-87-1 LENGTH 498'
 LOCATION 15+00NW 3+97SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -44.7°
 STARTED January 10, 1987 FINISHED January 12, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-44.7°				
498'	-38.0°				

HOLE NO. OP-87-1 SHEET NO. 1 of 10

REMARKS _____

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM TO TOTAL	%	%	OZ/TON	OZ/TON
0	28.5	<u>CASING</u>							
28.5	61.0	<u>GARNETIFEROUS METASEDIMENTS</u> - dark grey-brown with pink poikiloblastic garnets, fine grained, schistose, exhibits some weak compositional banding. <u>Average Modes</u> Biotite 50 - 60% Garnet 20 - 25% Quartz 15 - 20% Hornblende 3 - 5% Calcite trace Pyrite trace Few narrow (1/16" - 1/8") chert bands and quartz veinlets. Abundant chlorite coated fractures. Calcite occurs as veinlets and fracture coatings. Pyrite occurs as disseminations and fracture coatings. - 28.5 to 52.6 - as described. - 29.5 - banding at 50° to core axis. - 34.2 - 1/2" carbonate veinlet with 5 to 7% pyrrhotite as blebs. Veinlet at 38° to core axis. - 37.0 - banding at 60° to core axis. - 52.6 to 53.4 - dark grey-green, few garnets, dominantly hornblende-actinolite with chert laminations. No visible sulphides.							
			19235		28.5 33.5 5.0			tr.	
			19236		33.5 35.0 1.5			tr.	
			19237		35.0 40.0 5.0			tr.	
			19238		40.0 45.0 5.0			tr.	
			19239		45.0 49.0 4.0			tr.	
			19240		49.0 52.5 3.5			.01	
			19241		52.5 53.5 1.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. QP-87-1 SHEET NO. 2 of 10

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	OZ TON	OZ TON	
					FROM	TO	TOTAL				
		- 53.4 to 57.0 - as described.	19242		53.5	57.0	3.5			.01	
		- 57.0 to 61.0 - weak to moderately banded with few sections of chert bands interbedded with amphibole-rich bands.	19243		57.0	61.0	4.0			.01	
61.0	90.5	<u>BANDED GARNETIFEROUS METASEDIMENTS</u> - well banded with 25 to 35% quartz bands (1/8" - 1/4") interbedded with garnet ± biotite ± hornblende ± grunerite bands. Trace to 1% magnetite disseminated within quartz bands. Trace to 0.5% calcite in fractures and within bands. Trace sulphides as disseminations and fracture coating. Several chlorite coated fractures.									
		- 61.0 to 70.6 - as described.	19244		61.0	66.0	5.0			.03	
		- 65.0 - banded at 33° to core axis.	19245		66.0	71.0	5.0			.06	
		- 70.0 - banded at 30° to core axis.									
		- 70.6 to 85.5 - banded at 0° to 15° with abundant fold closures.	19246		71.0	76.0	5.0			.01	
		- 79.0 to 80.5 - 10 to 12% calcite which occurs in a chert band near parallel to core axis.	19247		76.0	81.0	5.0			.01	
		- 85.5 to 89.5 - as described.	19248		81.0	86.0	5.0			tr.	
		- 88.0 - banded at 40° to core axis.	19249		86.0	90.5	4.5			tr.	
		- 89.5 to 90.5 - grades into unit below with 0.5 to 1% disseminated magnetite in chert bands.									
90.5	96.3	<u>LEAN BANDED IRON FORMATION</u> - grades from unit above with 1 to 5% magnetite in bands. 10 to 15% grunerite in 1/8" rim around magnetite bearing chert bands. Trace pyrite as fracture coating.	19250		90.5	93.3	2.8			tr.	
			19251		93.3	96.3	3.0			.01	
	100.9	<u>MAFIC VOLCANIC</u> - chlorite schist, dark green, fine grained, few carbonate coated fractures.	19252		96.3	100.9	4.6			tr.	
100.9	110.0	<u>CHLORITIZED METASEDIMENTS</u> - dark grey to black, dominantly chlorite schist with visible remnants of chert banding and garnets. 0.5 to 1% pyrite parallel to banding.	19253		100.9	105.0	4.1			tr.	
			19254		105.0	110.0	5.0			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-87-1 SHEET NO. 3 of 10

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS																																				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON																															
					FROM	TO	TOTAL																																			
110.0	145.8	<p><u>ULTRAMAFIC (INTRUSIVE?)</u> - medium to dark grey, fine to very fine grained, well foliated (35° - 40°), mineralogy dominated by serpentine with talc and minor carbonate (magnesite ± calcite) and 2 to 5% magnetite which is disseminated and in dark serpentine clots. Trace hematite occurs as fracture coating with carbonate. Dark grey-black clots (pseudomorphs?) occur throughout the section but are less common at contacts. These generally consist of serpentine with magnetite. These are often stretched parallel to foliation indicating shearing.</p> <p>- 110.0 to 115.5 - few clots, 0.5 to 1% magnetite. - 110.0 to 112.0 - very blocky. - 115.5 to 131.0 - as described. - 131.0 to 143.7 - several bands (1/4" - 1") consisting of magnesite with serpentinized subhedral pseudomorphs, several fine clots. Carbonate filled fractures which contain minor hematite. - 143.7 to 145.8 - few clots.</p>																																								
			19255		131.0	135.7	4.7				tr.																															
			19256		135.7	139.7	4.0				tr.																															
			19257		139.7	143.7	4.0				tr.																															
			19258		143.7	145.8	2.1				tr.																															
145.8	171.5	<p><u>BANDED IRON FORMATION</u> - medium to dark grey, fine to very fine grained, laminated to moderately banded.</p> <p><u>Average Modes</u></p> <table border="0"> <tr> <td>Chert</td> <td>35</td> <td>-</td> <td>45%</td> </tr> <tr> <td>Hornblende]-</td> <td>25</td> <td>-</td> <td>35%</td> </tr> <tr> <td>Chlorite</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Magnetite</td> <td>7</td> <td>-</td> <td>10%</td> </tr> <tr> <td>Garnet</td> <td>5</td> <td>-</td> <td>10%</td> </tr> <tr> <td>Grunerite</td> <td>1</td> <td>-</td> <td>3%</td> </tr> <tr> <td>Calcite</td> <td>trace</td> <td>-</td> <td>0.5%</td> </tr> <tr> <td>Sulphide</td> <td>trace</td> <td>-</td> <td>0.5%</td> </tr> </table> <p>Pyrite and pyrrhotite occur parallel to banding and as fracture fillings. Several chlorite coated fractures.</p>	Chert	35	-	45%	Hornblende]-	25	-	35%	Chlorite				Magnetite	7	-	10%	Garnet	5	-	10%	Grunerite	1	-	3%	Calcite	trace	-	0.5%	Sulphide	trace	-	0.5%								
Chert	35	-	45%																																							
Hornblende]-	25	-	35%																																							
Chlorite																																										
Magnetite	7	-	10%																																							
Garnet	5	-	10%																																							
Grunerite	1	-	3%																																							
Calcite	trace	-	0.5%																																							
Sulphide	trace	-	0.5%																																							

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-87-1 SHEET NO. 4 of 10

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	GZ TON
				FROM	TO	TOTAL					
		- 145.8 to 150.0 - laminated, 65° to core axis; few garnets.	19259		145.8	151.1	5.3			tr.	
		- 150.0 to 151.1 - as described.									
		- 151.1 to 151.3 - chlorite schist.	19260		151.1	154.2	3.1			tr.	
		- 151.3 to 157.2 - 1 to 3% magnetite.	19261		154.2	157.2	3.0			tr.	
		- 156.2 - 1.5" band with 7 to 10% pyrrhotite.									
		- 157.2 to 162.2 - 10 to 20% garnet, moderately banded.	19262		157.2	162.2	5.0			tr.	
		- 162.2 to 165.5 - laminated, 0.5 to 3% magnetite.	19263		162.2	164.5	2.3			tr.	
		- 164.5 to 164.8 - two 1/8" - 1/4" pyrite filled fractures.	19264		164.5	165.5	1.0			tr.	
		- 165.5 to 171.5 - laminated, 10 to 15% magnetite, few boudinaged chert bands.	19265		165.5	168.5	3.0			tr.	
			19266		168.5	171.5	3.0			tr.	
171.5	179.7	GARNETIFEROUS METASEDIMENTS - dark grey to black with light grey garnet poikiloblasts (1/32" to 1/16"), fine grained, schistose, 40 to 50% garnets with matrix of biotite, chlorite, amphibole and trace to 2% magnetite which concentrates in narrow bands. Weak compositional bands are visible. Several fine calcite-chlorite filled fractures. Abundant chlorite coated fractures. Nil to trace sulphides.	19267		171.5	175.7	4.2			tr.	
			19268		175.7	179.7	4.0			tr.	
179.7	183.2	BRECCIATED-ALTERED BANDED IRON FORMATION - dark grey to black, fine to very fine grained, well foliated, brecciated and heavily infilled with calcite, 3 to 5% magnetite, strong chlorite alteration mask original sedimentary texture. Still high quartz content. Trace to 0.5% pyrite with carbonate.	19269		179.7	183.2	3.5			tr.	
		- 179.7 to 181.2 - very blocky.									
		- 181.2 to 182.1 - very fine calcite infilling of brecciation.									
		- 182.1 to 182.5 - 20 to 25% calcite.									
		- 182.5 to 183.2 - weak banding visible									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-87-1 SHEET NO. 6 of 10

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS						
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	02 TON	02 TON		
				FROM	TO	TOTAL						
217.2	320.4	- 201.3 to 210.5 - several chloritic clots replacing amphiboles.	19277		201.3	205.0	3.7			tr.		
		- 210.5 to 215.0 - moderate to highly contorted with few calcite filled fractures.	19278		205.0	210.0	5.0			tr.		
			19279		210.0	215.0	5.0			tr.		
		- 215.0 to 217.2 - several calcite-pyrite filled fractures (anastomosing).	19280		215.0	217.2	2.2			tr.		
		ULTRAMAFIC VOLCANIC - light to dark grey, fine grained, well foliated, friable, mineralogy dominated by talc-serpentine with 10 to 15% carbonate (magnesite). Nil to trace disseminated magnetite. Nil to trace disseminated pyrite.										
		- 217.2 to 219.2 - medium grey-green, higher concentration of serpentine.	19281		217.2	219.2	2.0			tr.		
		- 218.8 to 219.0 - quartz-carbonate veinlet with 7 to 10% pyrrhotite and pyrite in wall rock in associated fractures.										
		- 219.2 to 241.0 - several narrow blocky sections.										
		- 241.0 to 264.5 - as described.										
		- 264.5 to 268.2 - very blocky.										
		- 268.2 to 319.1 - as described.										
		- 319.1 to 320.4 - light grey to white fragments? (talc, magnesite) in dark grey-green matrix (serpentine, minor phlogopite). Fragments become larger toward contact with Banded Iron Formation at 320.4.	19282		319.1	320.4	1.3			tr.		
320.4	339.8	BANDED IRON FORMATION - well banded, light to medium grey and dark grey-brown to black, fine to very fine grained, contorted.										
		<u>Average Modes</u>										
		Quartz 30 - 40%										
		Grunerite 15 - 20%										

LANGRANGES - TORONTO - 366-1166

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-87-1 SHEET NO. 7 of 10

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON	
					FROM	TO	TOTAL				
		Chlorite]- 15 - 20%									
		Hornblende]- 10 - 15%									
		Garnet 10 - 15%									
		Magnetite 10 - 15%									
		Pyrrhotite 1 - 4%									
		Pyrite 0.5 - 1%									
		Calcite trace - 0.5%									
		Chalcopyrite nil - trace									
		Consists of bands of chert, magnetite-grunerite ± chert, garnet-chlorite ± hornblende. Chert bands are often boudinaged. Sulphides dominantly occur parallel to banding in more highly contorted zones. Minor sulphides occur as fracture fillings.									
		- 320.4 to 323.0 - few garnets.	19283		320.4	323.0	2.6				tr.
		- 322.3 to 322.5 - brecciated with 7 to 10% pyrite and pyrrhotite.									
		- 323.0 to 329.1 - 7 to 10% chlorite and hornblende.	19284		323.0	325.0	2.0				tr.
		- 325.3 to 325.8 - 20 to 25% pyrite and pyrrhotite (1:1) and trace chalcopyrite in contorted bands with chlorite.	19285		325.0	326.0	1.0				tr.
		- 328.7 to 329.1 - 20 to 30% pyrrhotite parallel to banding.	19286		326.0	328.4	2.4				tr.
			19287		328.4	329.4	1.0				tr.
		- 329.1 to 336.3 - 7 to 10% magnetite, blue-grey chert bands, 0.5 to 1% sulphide.	19288		329.4	333.3	3.9				tr.
			19289		333.3	336.3	3.0				tr.
		- 331.0 - banded at 70° to core axis.									
		- 336.3 to 339.8 - poor to moderately banded dominantly chert-grunerite with 3 to 5% magnetite, 0.5 to 1% pyrrhotite.	19290		336.3	339.8	3.5				tr.
		- 338.3 to 339.0 - 65 to 75% quartz with 2 to 4% pyrrhotite as wisps and stringers in quartz and at contact of quartz and grunerite.									

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-87-1 SHEET NO. 8 of 10

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	07 TON	02 TON
					FROM	TO	TOTAL				
339.8	423.1	<p>ULTRAMAFIC TO MAFIC VOLCANIC - medium to dark grey, fine to very fine grained, well foliated, mineralogy dominated by tremolite-actinolite with serpentine foliations and minor phlogopite and biotite. Trace disseminated pyrite. Several narrow (1/4") quartz and quartz-carbonate veinlets with no visible sulphides.</p> <p>- 339.8 to 344.0 - dominantly talc-serpentine with minor magnesite.</p> <p>- 342.5 to 343.0 - one 1" quartz vein and few quartz lenses, no visible sulphide.</p> <p>- 344.0 to 345.2 - sheared, dominantly serpentine.</p> <p>- 344.2 to 344.5 - 5 to 7% pyrite along foliations.</p> <p>- 345.2 to 352.0 - similar to 339.0 to 344.0.</p> <p>- 352.0 to 406.0 - as described for unit, commonly foliated at 60° to core axis.</p> <p>- 406.0 to 411.1 - several narrow quartz-carbonate veinlets of which some have narrow jasper alteration. Many are oriented parallel to the foliation at 40° to 50° to core axis. Few form network,</p> <p>- 411.1 to 412.7 - quartz-carbonate alteration, quartz-carbonate veinlets at 411.4 and 411.8. Alteration is weaker from 412.2 to 412.7.</p> <p>- 412.7 to 418.4 - as described for the unit.</p> <p>- 418.4 to 423.1 - several quartz veinlets.</p>									
			19291		342.3	343.8	1.5			tr.	
			19292		343.8	344.8	1.0			tr.	
			19293		383.0	388.0	5.0			tr.	
			19294		406.0	411.0	5.0			tr.	
			19295		411.0	413.0	2.0			tr.	
			19296		418.1	423.1	5.0			.02	
423.1	429.7	<p>IRON FORMATION (SULPHIDE FACIES?) - dark grey, fine to very fine grained, laminated to weakly banded. Consists of chert, minor grunerite and chlorite, few garnets and 15 to 20% pyrrhotite and 3 to 5% pyrite. Sulphides may be syngenetic or replacement. Sulphide occurs as bands and infilled in brecciated zones.</p>									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-87-1 SHEET NO. 9 of 10

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 423.1 to 424.8 - highly brecciated.									
		- 424.8 to 428.0 - weakly banded, well folded with axes at 70° to 80° to core axis. Several chert bands boudinaged.	19297		423.1	426.8	3.7			tr.	
			19298		426.8	429.8	3.0			tr.	
		- 428.0 to 429.5 - highly brecciated.									
		- 429.5 to 429.7 - chert.									
429.7	498.0	<u>ULTRAMAFIC TO MAFIC VOLCANIC</u> - similar to 339.8 to 423.1, nil to trace sulphides.									
		- 429.7 to 444.7 - dominantly talc-serpentine and with minor magnesite.									
		- 431.3 to 433.0 - sheared near parallel to core axis with 2 to 4% pyrite and pyrrhotite as fracture filling along shear plane.	19299		431.3	433.0	1.7			tr.	
		- 435.1 to 435.5 - dark green and white bands of serpentine and magnesite with trace magnetite.	19300		434.8	435.8	1.0			.03	
		- 444.7 to 468.0 - dark grey-green, dominantly actinolite-tremolite with minor hornblende, plagioclase and phlogopite - several quartz-carbonate veinlets.									
		- 449.9 to 450.6 - network of quartz-calcite veinlets with light green and orange alteration.	19301		449.7	450.7	1.0			tr.	
		- 457.3 to 457.7 - quartz-calcite vein with red hematitic staining.	19302		457.0	458.0	1.0			tr.	
		- 468.0 to 476.0 - as above but with several quartz-carbonate vein/veinlets (1/16" to 1") with jasper alteration rims. Common angle to core axis are 15° - 20° and 70° - 75°	19303		468.0	472.0	4.0			tr.	
			19304		472.0	475.2	3.2			tr.	
		- 475.0 to 475.2 - quartz-calcite (1/4") veinlet at 20° to core axis cuts 1" quartz-calcite-hematite vein at 75° to core axis									

LANGRIDGES - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-87-1 SHEET NO. 10 of 10

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 475.3 to 476.0 - minute quartz fractures with light green alteration of wall rock. 5 to 7% pyrrhotite and pyrite as fracture filling.	19305		475.2	476.2	1.0			tr.	
		- 476.0 to 479.2 - similar to 444.7 to 468.0.									
		- 479.2 to 498.0 - dominantly serpentine-talc with minor magnesite. Several quartz-carbonate and carbonate-serpentine veinlets.	19306		484.0	489.0	5.0			tr.	
			19307		489.0	493.0	4.0			tr.	
			19308		493.0	495.5	2.5			tr.	
498.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-87-2 LENGTH 498'
 LOCATION 15+99NW 2+50SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -45°
 STARTED January 13, 1987 FINISHED January 15, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.0°				
498'	-36.3°				

HOLE NO. OP-87-2 SHEET NO. 1 of 2

REMARKS Summary Log

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ/TON	OZ/TON
					FROM	TO					TOTAL
0	20.3	<u>CASING</u>								
20.3	89.2	<u>GARNETIFEROUS METASEDIMENTS</u> - 63.6 to 82.8 - well banded with 20-25% quartz bands. Trace to 0.5% magnetite. Trace sulphide.	19321		63.6	68.0	4.4			1.01
89.2	134.6	<u>ULTRAMAFIC (INTRUSIVE?)</u>								
134.6	136.7	<u>BANDED GARNETIFEROUS METASEDIMENTS</u>								
136.7	145.3	<u>BANDED IRON FORMATION</u>								
145.3	147.0	<u>GARNETIFEROUS METASEDIMENTS</u>								
147.0	149.3	<u>BANDED IRON FORMATION</u>								
149.3	165.0	<u>GARNETIFEROUS METASEDIMENTS</u>								
165.0	181.0	<u>BANDED IRON FORMATION</u> - well banded, 15-20% magnetite, 0.5-1% pyrrhotite and pyrite.	19337		167.0	169.7	2.7			.06
		- 172.7 to 173.7 - 7-10% pyrrhotite and pyrite in contorted zone.	19339		172.7	173.7	1.0			.12
181.0	185.4	<u>BANDED GARNETIFEROUS METASEDIMENTS</u>								
185.4	199.6	<u>GARNETIFEROUS METASEDIMENTS</u>								
199.6	222.0	<u>BANDED IRON FORMATION</u> - 214.7 to 215.0 - quartz vein with 3-5% pyrite and pyrrhotite at contact with wall rock and along fractures.	19352		214.3	215.3	1.0			.16

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-87-2 SHEET NO. 2 of 2

FOOTAGE		DESCRIPTION SUMMARY LOG	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
222.0	226.8	<u>GARNETIFEROUS METASEDIMENTS</u>									
226.8	280.6	<u>BANDED IRON FORMATION</u>									
280.6	313.3	<u>ULTRAMAFIC VOLCANICS</u>									
313.3	326.3	<u>BANDED IRON FORMATION</u> - 0.5-1% pyrrhotite parallel to banding.	19372		320.3	324.3	4.0			.08	
326.3	333.7	<u>INTERBEDDED BANDED IRON FORMATION</u> and <u>MAFIC TUFF</u>									
333.7	335.1	<u>MAFIC TUFF</u>									
335.1	339.4	<u>BANDED CHEMICAL SEDIMENTS</u> - dominantly chert.									
339.4	341.2	<u>BANDED IRON FORMATION</u> (SULPHIDE FACIES?) - 15-20% pyrrhotite.									
341.2	342.4	<u>ULTRAMAFIC VOLCANIC</u>									
342.4	362.4	<u>BANDED IRON FORMATION</u> (SULPHIDE FACIES?) - 20-30% pyrrhotite, 1-3% pyrite, with sections of brecciation and sulphide infilling.									
362.4	473.4	<u>BANDED IRON FORMATION</u>									
473.4	475.5	<u>LAMPROPHYRE DIKE</u>									
475.5	498.0	<u>BANDED IRON FORMATION</u>									
498.0		End of Hole.									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-87-2 LENGTH 498'
 LOCATION 15+99NW 2+50SW
 LATITUDE _____ DEPARTURE _____
 ELEVATION _____ AZIMUTH 049° DIP -45°
 STARTED January 13, 1987 FINISHED January 15, 1987

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45.0°				
498'	-36.3°				

HOLE NO. OP-87-2 SHEET NO. 1 of 10

REMARKS _____

PA - 844238

LOGGED BY D. J. Corkery

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	20.3	<u>CASING</u>									
20.3	89.2	<u>GARNETIFEROUS METASEDIMENTS</u> - dark brown, fine grained with coarse garnet poikiloblasts, schistose. <u>Average Modes</u> Biotite 50 - 60% Garnet 20 - 25% Quartz 10 - 15% Hornblende 3 - 5% Sulphides trace Weak compositional banding, several narrow chert bands, few hornblende rich, garnet poor bands. Pyrite occurs as disseminations and fracture coatings with chlorite. - 20.3 to 22.6 - nearly massive, no compositional banding. - 22.6 to 27.7 - 3 to 5% fine grained disseminated staurolite. - 27.7 to 31.9 - typical. - 31.9 to 32.5 - hornblende rich, garnet-biotite poor, laminated. - 32.5 to 34.7 - 3 to 5% staurolite. - 34.7 to 61.6 - several quartz bands which are commonly surrounded by hornblende-garnet bands. - 39.0 to 39.5 - chloritic bands around chert band.									
			19310		20.3	24.3	4.0				tr.
			19311		24.3	28.3	4.0				tr.
			19312		28.3	31.5	3.2				tr.
			19313		31.5	33.0	1.5				tr.
			19314		33.0	38.0	5.0				tr.
			19315		38.0	43.0	5.0				tr.
			19316		43.0	48.0	5.0				tr.
			19317		48.0	53.0	5.0				tr.
			19318		53.0	58.0	5.0				tr.
			19319		58.0	61.6	3.6				tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-87-2 SHEET NO. 2 of 10

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 61.6 to 63.6 - silicified zone with minor carbonated 40 to 50% quartz with remnant garnet-hornblende. Trace to 0.5% pyrrhotite in fractures in quartz.	19320		61.6	63.6	2.0			tr.	
		- 62.6 - chalcopyrite bleb in strain shadow of garnet.									
		- 63.6 to 82.8 - atypical, well banded with 20 to 25% quartz bands interbedded with garnet-biotite-hornblende-grunerite bands. An increase in hornblende often occurs near the boundary of a chert band. Trace to 0.5% magnetite. Trace sulphide.	19321		63.6	68.0	4.4			1.01	
			19322		68.0	73.0	5.0			.02	
			19323		73.0	78.0	5.0			tr.	
			19324		78.0	82.8	4.8			tr.	
		- 68.0 - banded at 67° to core axis.									
		- 82.0 - banded at 70° to core axis.									
		- 82.8 to 89.2 - similar to above but with 1-3% magnetite.	19325		82.8	86.2	3.4			.01	
		- 85.5 to 86.9 - few garnets with bands at 70° to core axis.	19326		86.2	89.2	3.0			tr.	
89.2	134.6	<u>ULTRAMAFIC (INTRUSIVE?)</u> -medium to dark grey with dark grey to black clots, fine to very fine grained, well foliated. Mineralogy dominated by serpentine and tremolite with minor talc. 1 to 3% magnetite which is concentrated in dark serpentine pseudomorphs. Pseudomorphs are anhedral and have been stretched parallel to foliation due to weak shearing. At margins of unit there are no clots (chill margins?). Nil to trace sulphides as fracture coating.									
		- 89.2 to 93.7 - light grey-green, no clots, dominantly serpentine with talc; trace to 0.5% magnetite.									
		- 93.7 to 132.4 - as described.									
		- 132.4 to 134.6 - similar to 89.2 to 93.7.									
134.6	136.7	<u>BANDED GARNETIFEROUS METASEDIMENTS</u> - similar to 62.9 to 82.8.	19327		134.6	136.7	2.1			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-87-2 SHEET NO. 3 of 10

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON
				FROM	TO	TOTAL				
136.7	145.3	<u>BANDED IRON FORMATION</u> - dark grey, fine to very fine grained, massive to weakly banded. Generally consists of chert, magnetite (3-5%), chlorite, hornblende, biotite and few sections garnet-grunerite. Abundant randomly oriented calcite filled fractures. Trace pyrite as fracture coating.	19328	136.7	140.3	3.6			tr.	
			19329	140.3	145.3	5.0			.04	
145.3	147.0	<u>GARNETIFEROUS METASEDIMENTS</u> - dark grey, fine grained with 1/32" to 1/8" poikiloblastic garnets, schistose. <u>Average Modes</u> Garnet 20 - 30% Chlorite]- 20 - 30% Hornblende Biotite 10 - 20% Quartz 5 - 10% Grunerite 5 - 10% Magnetite trace - 0.5% Pyrite trace	19330	145.3	147.0	1.7			tr.	
		Pyrite occurs as fracture coating.								
147.0	149.3	<u>BANDED IRON FORMATION</u> - similar to 136.7 to 145.3. Trace pyrite as fracture coating with chlorite-calcite.	19331	147.0	149.3	2.3			.02	
149.3	165.0	<u>GARNETIFEROUS METASEDIMENTS</u> - similar to 145.3 to 147.0 but with 40-50% garnets and 0.5-1% magnetite as disseminated grains concentrated in 1/2 to 1' zones. - 149.3 to 155.1 - typical. - 155.1 to 156.5 - 1 to 2% magnetite. - 156.5 to 165.0 - typical.	19332	149.3	153.0	3.7			tr.	
			19333	153.0	157.0	4.0			tr.	
			19334	157.0	161.0	4.0			tr.	
			19335	161.0	165.0	4.0			tr.	
165.0	181.0	<u>BANDED IRON FORMATION</u> - dark grey, fine to very fine grained, moderately banded with intraband laminations. Generally hornblende-garnet-biotite-grunerite bands interbedded with laminated chert-magnetite ± grunerite bands.								

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-87-2 SHEET NO. 4 of 10

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	OZ TON	OZ TON
				FROM	TO	TOTAL				
		<u>Average Modes</u>								
		Quartz 30 - 40%								
		Magnetite 15 - 20%								
		Hornblende 15 - 20%								
		Grunerite 10 - 15%								
		Garnet 3 - 5%								
		Biotite 3 - 5%								
		Calcite 0.5 - 1%								
		Sulphide 0.5 - 1%								
		Pyrrhotite and pyrite occur parallel to laminations, in contorted bands and along fractures. Calcite occurs in few 1/4" to 1/2" quartz-calcite veinlets and lenses. (no visible sulphides)								
		- 165.0 to 167.0 - 10 to 15% garnet, few 1/8" quartz-carbonate-feldspar veinlets at 35° to core axis.	19336		165.0	167.0	2.0			tr.
		- 167.0 to 172.7 - typical, banded at 53° to core axis.	19337		167.0	169.7	2.7			.06
			19338		169.7	172.7	3.0			.03
		- 172.7 to 173.7 - 7 to 10% pyrrhotite and pyrite in band dilations in a contorted zone.	19339		172.7	173.7	1.0			.12
		- 173.7 to 176.4 - typical.	19340		173.7	176.0	2.7			tr.
		- 176.4 to 176.5 - 10 to 15% pyrrhotite and pyrite in contorted zone.	19341		176.0	177.0	1.0			.04
		- 176.5 to 181.0 - typical.	19342		177.0	181.0	4.0			tr.
		- 179.0 - banded at 50° to core axis.								
181.0	185.4	<u>BANDED GARNETIFEROUS METASEDIMENTS</u> - similar to 62.9 to 82.8, trace sulphide.	19343		181.0	185.4	4.4			tr.
185.4	199.6	<u>GARNETIFEROUS METASEDIMENTS</u> - dark grey, fine grained with coarse pink garnets (7-10%), moderately foliated. Matrix dominated by biotite-quartz with minor hornblende. Trace pyrite as fracture coating.	19344		185.4	189.6	4.2			tr.
			19345		189.6	194.6	5.0			tr.
			19346		194.6	199.6	5.0			tr.

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-87-2 SHEET NO. 5 of 10

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
				FROM	TO	TOTAL					
199.6	222.0	<p>BANDED IRON FORMATION - similar to 165.0 to 181.0 but with more distinct lamination; trace to 0.5% sulphides.</p> <p>- 199.6 to 206.7 - typical.</p> <p>- 204.0 - banded at 70° to core axis.</p> <p>- 206.7 to 207.2 - brecciated with 10 to 15% quartz-carbonate infilling and fracture filling.</p> <p>- 207.2 to 214.7 - typical.</p> <p>- 214.7 to 215.0 - quartz vein with 3 to 5% pyrite and pyrrhotite at contact with wall rock and along fractures. Vein has irregular boundaries.</p> <p>- 215.0 to 217.2 - typical.</p> <p>- 217.2 to 219.0 - several garnet-biotite-chlorite bands (1/2" to 1").</p> <p>- 219.0 to 222.0 - typical.</p>	19347	199.6	203.6	4.0			tr.		
			19348	203.6	206.7	3.1			tr.		
			19349	206.7	207.7	1.0			tr.		
			19350	207.7	210.7	3.0			tr.		
			19351	210.7	214.3	3.6			tr.		
			19352	214.3	215.3	1.0			.16		
			19353	215.3	219.0	3.7			.02		
			19354	219.0	222.0	3.0			tr.		
222.0	226.8		<p>GARNETIFEROUS METASEDIMENTS - similar to 149.3 to 165.0 but with 30-40% garnets. Trace sulphides.</p>	19355	222.0	226.8	4.8			tr.	
226.8	280.6			<p>BANDED IRON FORMATION - bands of dark grey, medium grey and cream-green, well banded, weak to moderately contorted. Generally bands of chert interbedded with iron-rich band and minor hornblende-garnet bands. Iron-rich bands consist of grunerite-magnetite ± calcite with 1/8" to 1/2" grunerite rims. Bands are usually 1/4" to 1/2" wide.</p> <p><u>Average Modes</u></p> <p>Quartz 30 - 40%</p> <p>Grunerite 25 - 30%</p> <p>Magnetite 15 - 20%</p> <p>Hornblende 2 - 5%</p>							

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-87-2 SHEET NO. 6 of 10

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	G/T TON	G2 TON
					FROM	TO	TOTAL				
		Calcite 2 - 5%									
		Garnet 0.5 - 1%									
		Sulphide 0.5 - 2%									
		Pyrrhotite occurs parallel to bands and at fracture fillings in chert bands, quartz veins and at contact of quartz veins and Banded Iron Formation.									
		- 226.8 to 228.0 - transition from garnetiferous metasediments to typical Banded Iron Formation at 227.5.	19356		226.8	228.0	1.2			tr.	
		- 228.0 to 229.0 - brecciated and quartz-carbonate infilled from 228.4 to 228.5 surrounded by zone of light green alteration and several chlorite and calcite-chlorite veinlets. Minor hematite in both brecciated and altered zone.	19357		228.0	229.0	1.0			tr.	
		- 228.8 to 229.0 - 2 to 4% pyrrhotite and chalcopryrite.									
		- 229.0 to 238.0 - typical.	19358		229.0	234.0	5.0			.01	
		- 230.3 to 230.5 - several quartz-calcite veinlets, no visible sulphides.	19359		234.0	238.0	4.0			tr.	
		- 238.0 to 241.0 - several 1/2" to 2" quartz veins with 2 to 4% pyrite and pyrrhotite in fractures and in adjacent wall rock.	19360		238.0	241.0	3.0			tr.	
		- 241.0 to 267.0 - typical, moderately contorted.	19361		241.0	245.0	4.0			tr.	
			19362		245.0	250.0	5.0			tr.	
			19363		250.0	255.0	5.0			tr.	
			19364		255.0	260.0	5.0			.02	
			19365		260.0	265.0	5.0			tr.	
		- 267.0 to 268.0 - nearly massive iron-rich band.	19366		265.0	270.0	5.0			tr.	
			19367		270.0	275.0	5.0			tr.	
		- 268.0 to 269.3 - same as 241.0 to 267.0.	19368		275.0	278.0	3.0			tr.	
			19369		278.0	280.5	2.5			tr.	
		- 269.3 to 280.6 - weak to very weakly contorted, trace garnets.									
		272.0 - banded 57° to zone axis									

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-87-2 SHEET NO. 7 of 10

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
280.6	313.3	ULTRAMAFIC VOLCANICS - light grey-green, fine grained, well foliated, mineralogy dominated by tremolite-serpentine-talc-phlogopite. Phlogopite content increases toward boundaries of the unit. Very minor phlogopite from 293.0 to 306.2. In few locations alteration of tremolite to serpentine is visible. Foliated at 50° to 55° to core axis. No visible sulphides.									
313.3	326.3	BANDED IRON FORMATION - similar to 226.8 to 280.6 but with 10 to 15% calcite as laminations and bands. Moderately contorted. 0.5 to 1% pyrrhotite parallel to banding. - 313.3 to 324.3 - typical. - 324.3 to 326.3 - laminated to weakly banded, moderate to highly contorted, 2 to 4% pyrrhotite.	19370 19371 19372		313.3 316.3 320.3	316.3 320.3 324.3	3.0 4.0 4.0			tr. .02 .08	
326.3	333.7	INTERBEDDED BANDED IRON FORMATION AND MAFIC TUFF - 7:3 ratio Banded Iron Formation; Mafic Tuff. Banded Iron Formation similar to 226.8 to 280.6 but with finer banding (commonly 1/16" to 1/4"), moderate to strongly contorted. 1 to 2% pyrrhotite parallel to banding and with quartz-calcite filled fractures. Mafic Tuff medium to dark green, fine grained, laminated, dominantly hornblende-chlorite and plagioclase. Trace sulphides.	19374 19375		326.3 329.7	329.7 333.7	3.4 4.0			tr. tr.	
333.7	335.1	MAFIC TUFF - similar to above with few narrow bands of quartz and grunerite. Trace sulphides.	19376		333.7	335.1	1.4			tr.	
335.1	339.4	BANDED CHEMICAL SEDIMENTS - dark grey, fine to very fine grained, laminated to weakly banded, 65 to 70% quartz with interbeds of grunerite, hornblende-actinolite. Trace to 0.5% magnetite. 1 to 3% pyrrhotite and trace to 0.5% pyrite along fractures.	19377		335.1	339.4	4.3			tr.	
339.4	341.2	BANDED IRON FORMATION (SULPHIDE FACIES?) - grades from above. Laminated to weakly banded, light grey, medium green and bronze. Consists of laminations of chert (40-50%), grunerite-hornblende (30-40%), pyrrhotite (15-20%) and 1-2% garnet. Chert is often boudinaged.	19378		339.4	341.2	1.8			tr.	
341.2	342.5	ULTRAMAFIC VOLCANIC - similar to 280.6 to 313.3 but with no phlogopite. Foliated at 35° to 40° to core axis. No visible sulphides.	19379		341.2	342.5	1.3			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE

HOLE NO. OP-87-2 SHEET NO. 8 of 10

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	OZ TON	OZ TON
				FROM	TO	TOTAL			
342.5	362.4	<p><u>BANDED IRON FORMATION (SULPHIDE FACIES?)</u> - similar to 339.4 to 341.2 but with 20 to 30% pyrrhotite and 1 to 3% pyrite. Large sections heavily brecciated with pyrrhotite infilling. These sections contain up to 30 to 40% pyrrhotite. Most sections are contorted (sheared?), strong fracturing and boudinaging of chert.</p> <p>- 342.5 to 344.1 - typical.</p> <p>- 343.9 to 344.0 - calcite band.</p> <p>- 344.1 to 348.7 - heavily brecciated, 20 to 30% pyrrhotite.</p> <p>- 348.7 to 350.5 - typical.</p> <p>- 350.1 to 350.3 - near massive band of pyrrhotite.</p> <p>- 350.5 to 357.7 - heavily brecciated, 20 to 30% pyrrhotite.</p> <p>- 350.5 to 352.5 - 30 to 40% pyrrhotite.</p> <p>- 357.7 to 359.0 - sheared, 15 to 20% pyrrhotite.</p> <p>- 359.0 to 362.4 - heavily brecciated, 20 to 30% pyrrhotite.</p>							
			19380	342.5	344.1	1.6			tr.
			19381	344.1	348.7	4.6			tr.
			19382	348.7	350.5	1.8			tr.
			19383	350.5	353.7	3.2			tr.
			19384	353.7	357.7	4.0			tr.
			19385	357.7	359.0	1.3			tr.
			19386	359.0	362.4	3.4			tr.
362.4	473.4	<p><u>BANDED IRON FORMATION</u> - similar to 226.8 to 280.6, with moderate contortion of bands. 0.5 to 1% calcite in bands and as fracture fillings. 0.5 to 1% pyrrhotite parallel to band (commonly as stringers) and as fracture fillings.</p> <p>- 362.4 to 368.2 - 3 to 5% calcite.</p> <p>- 368.2 to 368.8 - quartz vein, no visible sulphides, contact at 40° to core axis.</p> <p>- 368.8 to 407.3 - typical, abundant small folds.</p> <p>- 385.0 - fold axial plane at 65° to core axis.</p> <p>- 391.0 - banded at 63° to core axis.</p>							
			19387	362.4	367.4	5.0			.01
			19388	367.4	369.0	1.6			.02
			19389	369.0	373.0	4.0			.02
			19390	373.0	378.0	5.0			.01
			19391	378.0	383.0	5.0			.01
			19392	383.0	388.0	5.0			.01
			19393	388.0	393.0	5.0			.01
			19394	393.0	398.0	5.0			tr.
			19395	398.0	403.0	5.0			.01
			19396	403.0	407.3	4.3			.01

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-87-2 SHEET NO. 9 of 10

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPH IDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
		- 407.3 to 413.6 - 5 to 7% calcite, 2 to 4% pyrrhotite parallel to banding. 3 to 5% magnetite. Zone has undergone strong calcite-chlorite alteration.	19397		407.3	410.3	3.0			.03	
		- 407.8 - calcite-chlorite veinlet (1/4") at 25° to core axis.	19398		410.3	413.3	3.0			.02	
		- 413.6 to 419.0 - typical with 1 to 3% calcite.	19399		413.3	418.3	5.0			tr.	
		- 419.0 to 423.2 - 10 to 15% garnet poikiloblasts, trace to 0.5% pyrrhotite.	19400		418.3	423.2	4.9			tr.	
		- 423.2 to 427.1 - typical, trace to 0.5% pyrrhotite.	19401		423.2	428.2	5.0			tr.	
		- 427.1 to 432.9 - similar to 419.0 to 423.2.	19402		428.2	433.2	5.0			tr.	
		- 432.9 to 438.3 - typical.	19403		433.2	438.3	5.1			tr.	
		- 438.3 to 440.8 - 10 to 15% pyrrhotite in magnetite bands.	19404		438.3	440.8	2.5			tr.	
		- 440.8 to 442.5 - 1 to 3% pyrrhotite.	19405		440.8	442.5	1.7			tr.	
		- 442.5 to 444.7 - 3 to 5% pyrrhotite.	19406		442.5	444.7	2.2			tr.	
		- 444.7 to 473.4 - typical, trace to 0.5% pyrrhotite, few garnets.	19407		444.7	449.0	4.3			tr.	
		- 450.0 - banded at 52° to core axis.	19408		449.0	454.0	5.0			tr.	
			19409		454.0	459.0	5.0			tr.	
			19410		459.0	464.0	5.0			.01	
			19411		464.0	469.0	5.0			tr.	
			19412		469.0	473.4	4.4			tr.	
473.4	475.5	LAMPROPHYRE DIKE - black, porphyritic, fine grained with coarse grained pseudomorphs, massive, dominantly chlorite and serpentine with 5 to 10% carbonate as replacement and veinlets - Contacts Banded Iron Formation at 55° to core axis.	19413		473.4	475.5	2.1			tr.	

DIAMOND DRILL RECORD

NAME OF PROPERTY OPAPIMISKAN LAKE
 HOLE NO. OP-87-2 SHEET NO. 10 of 10

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	OZ TON	OZ TON
					FROM	TO	TOTAL				
475.5	498.0	BANDED IRON FORMATION - similar to 362.4 to 473.4 but with few garnets; weak to moderately contorted, trace to 0.5% pyrrhotite. - 488.0 - banded at 50° to core axis.	19414		475.5	478.0	2.5			tr.	
			19415		478.0	483.0	5.0			tr.	
			19416		483.0	488.0	5.0			tr.	
			19417		488.0	493.0	5.0			tr.	
			19418		493.0	498.0	5.0			.01	
498.0		End of Hole.									



53B09NW0031 15 SKINNER LAKE

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Misc

Section



Ministry of Natural Resources

Report of Work

Ontario

Assess. Library

The Mining Act

Revised

#87-104

Instructions - Supply required data on a separate form for each type of work to be recorded (see table below). For Geo technical work use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical and Expenditures)".

Name and Postal Address of Recorded Holder Power Drillations Inc. 1003 - 34 King St. E. Toronto, Ontario M5C 1E5	Prospector's Licence No. T 4642
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Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 10,467	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.
	Prefix	Number		Prefix	Number		Prefix	Number	
for Performance of the following work. (Check one only)	Sec Attached								
<input type="checkbox"/> Manual Work									
<input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work.									
<input type="checkbox"/> Compressed Air, other Power driven or mechanical equip.									
<input type="checkbox"/> Power Stripping									
<input checked="" type="checkbox"/> Diamond or other Core drilling									
<input type="checkbox"/> Land Survey									

All the work was performed on Mining Claim(s): Pa844238, Pa844239

G2210 Skinner Lake

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Contractor: Langley Drilling Ltd, 49 Jayfield Rd, Brampton, Ontario L6S 3G3

Core Size: B.Q. 1 7/16.

Geologist in Charge: Daniel J. Corkery, R.R.#6 Cobourg, Ontario, K9A 4J9

Number of Holes: 30

Total Footage: 10,467 Allowable Credits Sect. 76(6) 6449 days

Dates: September 18th, 1986 to December 15th, 1986
January 10th, 1987 to January 15th, 1987

PATRICIA MINING DIV
 RECEIVED
 AUG - 4 1987
 A.M. P.M.
 7|8|9|10|11|12|1|2|3|4|5|6

1st Rec'd & Recorded
May 29, 1987
Louis H. H. H.

Pa. 818016

Date of Report May, 1987	Recorded Holder or Agent (Signature) <i>[Signature]</i>
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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
J.H. Adams, 1003 - 34 King St. E. Toronto, Ontario M5C 1E5

Date Certified July 1987	Certified by (Signature) <i>[Signature]</i>
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Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific Information per type	Other Information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping done.	Work Sketch (as above) in duplicate
Power Stripping	Type of equipment and amount expanded. Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling	Signed core log showing: footage, diameter of core, number and angles of holes.	Nil	Nil
Land Survey	Name and address of Ontario land surveyor.		

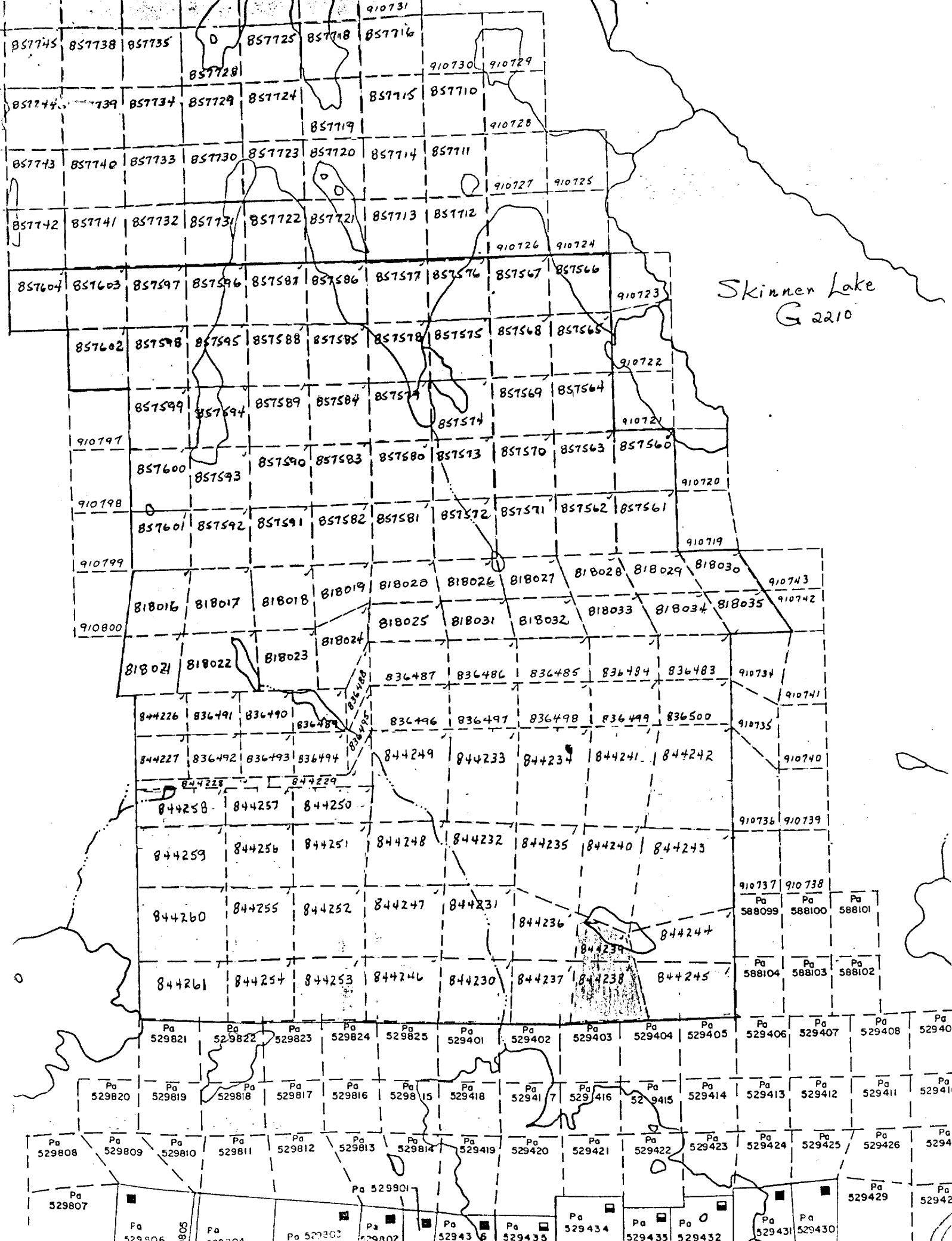
OPAPIMISKAN LAKE PROPERTY

LIST OF CLAIMS

	^{46.46} Credits requested:		^{46.46} Credits requested:		^{46.46} Credits requested:		Credits requested:
Pa 818016	70	Pa 836490	70	Pa 857575	70	Pa 844230	70
818017	"	836491	"	857576	"	844231	"
818018	"	836492	"	857577	"	844232	"
818019	"	836493	"	857578	"	844233	"
818020	"	836494	"	857579	"	844234	"
818021	"	836495	"	857580	"	844235	"
818022	"	836496	"	857581	"	844236	"
818023	"	836497	"	857582	"	844237	"
818024	"	836498	"	857583	"	844238	"
818025	"	836499	"	857584	"	844239	"
818026	"	836500	"	857585	"	844240	"
818027	"		"	857586	"	844241	"
818028	"	Pa 844226	"	857587	"	844242	"
818029	"	844227	"	857588	"	844243	"
818030	"	844228	130	857589	"	844244	"
818031	"	844229	130	857590	"	844245	"
818032	"		^{46.46} 70	857591	"	844246	"
818033	"	Pa 857560	"	857592	"	844247	"
818034	"	857561	"	857593	"	844248	"
818035	"	857562	"	857594	"	844249	"
		857563	"	857595	"	844250	"
		857564	"	857596	"	844251	"
		857565	"	857597	"	844252	"
Pa 836483	^{46.46} 70	857566	"	857598	"	844253	"
836484	"	857567	"	857599	"	844254	"
836485	"	857568	"	857600	"	844255	"
836486	"	857569	"	857601	"	844256	"
836487	"	857570	"	857602	"	844257	"
836488	"	857571	"	857603	"	844258	"
836489	"	857572	"	857604	"	844259	"
		857573	"			<u>844260</u>	"
		857574	"			<u>844261</u>	"

Total Claims: 119

Credits requested: ~~10,110~~
6,449.1



Skinner Lake
G 2210

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 857728 910730 910729
 857744 857739 857734 857729 857724 857715 857710
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 844226 836491 836490 836489 836496 836497 836498 836499 836500 910735
 844227 836492 836493 836494 844249 844233 844234 844241 844242 910740
 844228 844229
 844258 844257 844250 910736 910739
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 844260 844255 844252 844247 844231 844236 844244
 844261 844254 844253 844246 844230 844237 844238 844245
 Pa 529821 Pa 529822 Pa 529823 Pa 529824 Pa 529825 Pa 529401 Pa 529402 Pa 529403 Pa 529404 Pa 529405 Pa 529406 Pa 529407 Pa 529408 Pa 529409
 Pa 529820 Pa 529819 Pa 529818 Pa 529817 Pa 529816 Pa 529815 Pa 529418 Pa 529417 Pa 529416 Pa 529415 Pa 529414 Pa 529413 Pa 529412 Pa 529411 Pa 529410
 Pa 529808 Pa 529809 Pa 529810 Pa 529811 Pa 529812 Pa 529813 Pa 529814 Pa 529419 Pa 529420 Pa 529421 Pa 529422 Pa 529423 Pa 529424 Pa 529425 Pa 529426 Pa 529427
 Pa 529807 Pa 529806 Pa 529805 Pa 529804 Pa 529803 Pa 529802 Pa 529436 Pa 529435 Pa 529434 Pa 529433 Pa 529432 Pa 529431 Pa 529430
 Pa 529801 Pa 529429 Pa 529428

DIAMOND DRILLING

AREA: SKINNER LAKE

REPORT NO:15

WORK PERFORMED FOR: Power Explorations Inc.

RECORDED HOLDER: Same as above [xx]
: Other []

<u>Claim No.</u>	<u>Hole No.</u>	<u>Footage</u>	<u>Date</u>	<u>Note</u>
Pa 844238	OP-86-1	428'	Sept/86	(1)
	OP-86-2	818'	Sept/86	(1)
	OP-86-3	378'	Oct/86	(1)
	OP-86-4	526'	Oct/86	(1)
	OP-86-5	259'	Oct/86	(1)
	OP-86-6	305'	Oct/86	(1)
	OP-86-7	339'	Oct/86	(1)
	OP-86-8	297'	Oct/86	(1)
	OP-86-9	199'	Oct/86	(1)
	OP-86-10	339'	Oct/86	(1)
	OP-86-11	289'	Oct/86	(1)
	OP-86-12	335'	Oct-Nov/86	(1)
	OP-86-13	299'	Nov/86	(1)
	OP-86-14	269'	Nov/86	(1)
	OP-86-15	309'	Nov/86	(1)
	OP-86-16	297'	Nov/86	(1)
Pa 844239	OP-86-17	249'	Nov/86	(1)
Pa 844238	OP-86-18	298'	Nov/86	(1)
	OP-86-19	249'	Nov/86	(1)
Pa 844239	OP-86-20	248'	Nov/86	(1)
Pa 844238	OP-86-21	298'	Nov/86	(1)
	OP-86-22	279'	Nov/86	(1)
	OP-86-23	348'	Nov/86	(1)
	OP-86-24	278'	Dec/86	(1)
Pa 844239	OP-86-25	347'	Dec/86	(1)
	OP-86-26	298'	Dec/86	(1)
	OP-86-27	397'	Dec/86	(1)
	OP-86-28	496'	Dec/86	(1)
Pa 844238	OP-87-01	498'	Jan/87	(1)
	OP-87-02	498'	Jan/87	(1)

NOTES: (1) #104-87, filed in Feb/88

AKOW LAKE G-1928

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.F.R. - MINING AND SURFACE RIGHTS

Description Order No. Date Disposition File

AREA IN WINDIGO TRIBAL COUNCIL PLANNING BOARD FOR DETAILS CALL 737-1585

LEGEND

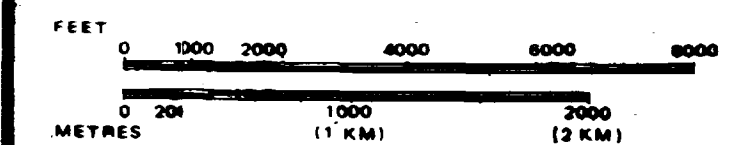
- HIGHWAY AND ROUTE No. [Symbol]
- OTHER ROADS [Symbol]
- TRAILS [Symbol]
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC. [Symbol]
 - LOTS, MINING CLAIMS, PARCELS, ETC. [Symbol]
- UNSURVEYED LINES:
 - LOT LINES [Symbol]
 - PARCEL BOUNDARY: [Symbol]
 - MINING CLAIMS ETC. [Symbol]
- RAILWAY AND RIGHT OF WAY [Symbol]
- UTILITY LINES [Symbol]
- NON-PERENNIAL STREAM [Symbol]
- FLOODING OR FLOODING RIGHTS [Symbol]
- SUBDIVISION OR COMPOSITE PLAN [Symbol]
- RESERVATIONS [Symbol]
- ORIGINAL BOUNDARY LINE [Symbol]
- MARSH OR MUSKIEG [Symbol]
- MINES [Symbol]
- TRAVERSE MONUMENT [Symbol]
- REMOTE TOURIST SET-UP [Symbol]

DISPOSITION OF CROWN LANDS

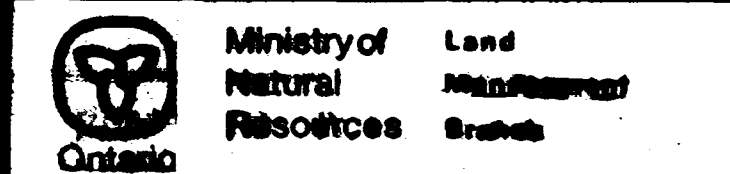
TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	○
LEASE, SURFACE & MINING RIGHTS	○
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	○
LICENCE OF OCCUPATION	○
ORDER-IN-COUNCIL	○
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1915, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 360, SEC. 63, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS



AREA
SKINNER LAKE
M.N.R. ADMINISTRATIVE DISTRICT
SIoux LOOKOUT DATE OF
MINING DIVISION
PATRICIA MAY 29 1999
LAND TITLES / REGISTRY DIVISION PROVINCIAL RECORDS OFFICE - SKIN
KENORA / PATRICIA PORTION



Date: JANUARY, 1998
Number: **G-2210**

Sept 9 '88
Aug 14/90
Dec 1988
Feb 5/91
March 13/91
MAY 8/91
JULY 25/91 L
94 MAR 04
Sept 19/94 R
March 1996
Nov 2/95
Apr 11/96
97 FEB 24
97 June 17 Rec

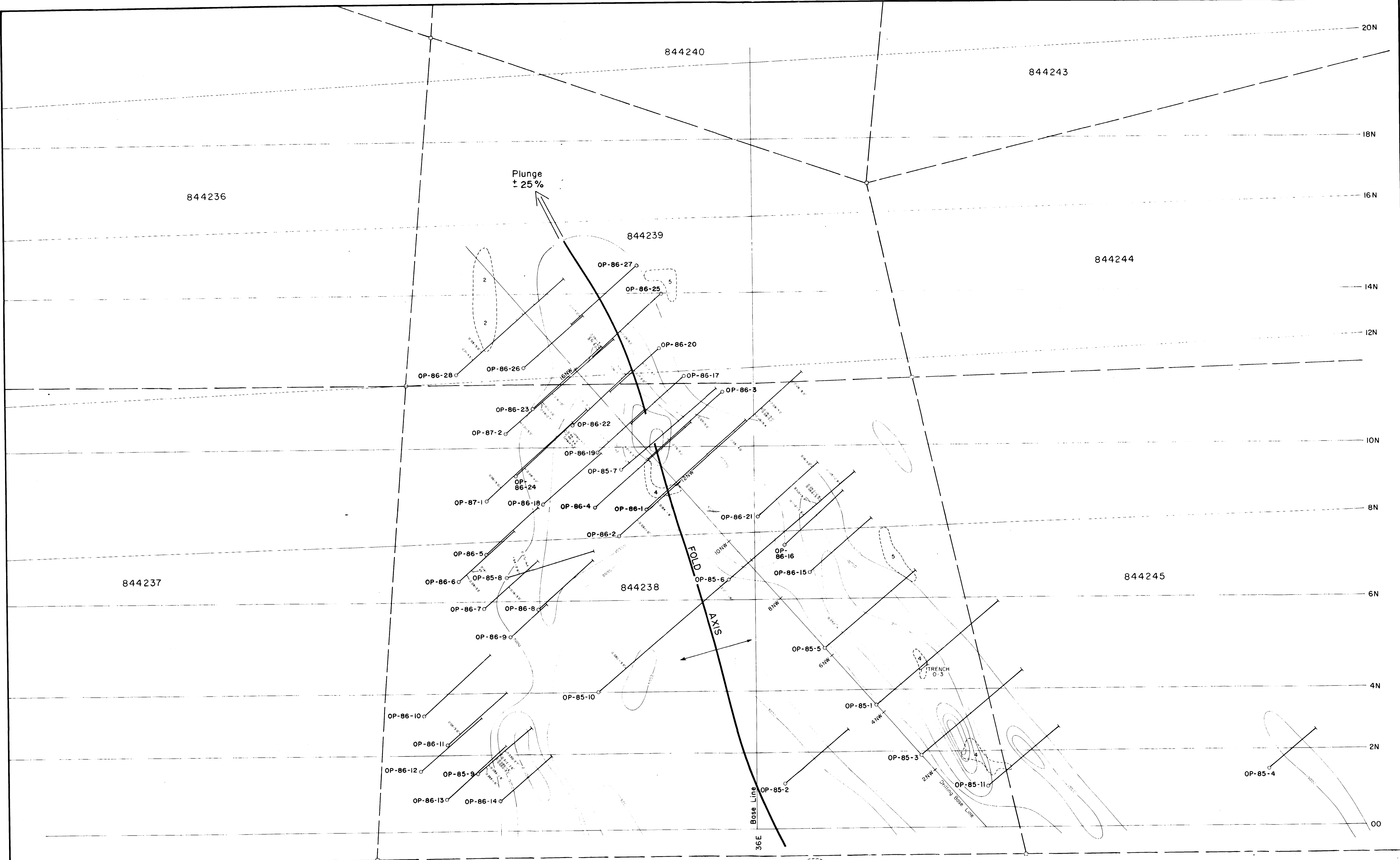
S.E. ARM OF NORTH CARIBOU LAKE G-2215

WASTAYANIPI LAKE G-3864

ZEEMEL LAKE G-2278

5269





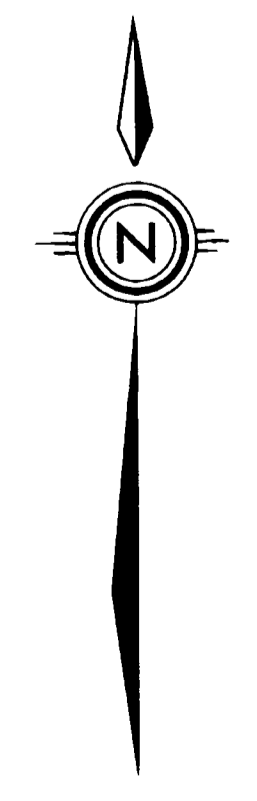
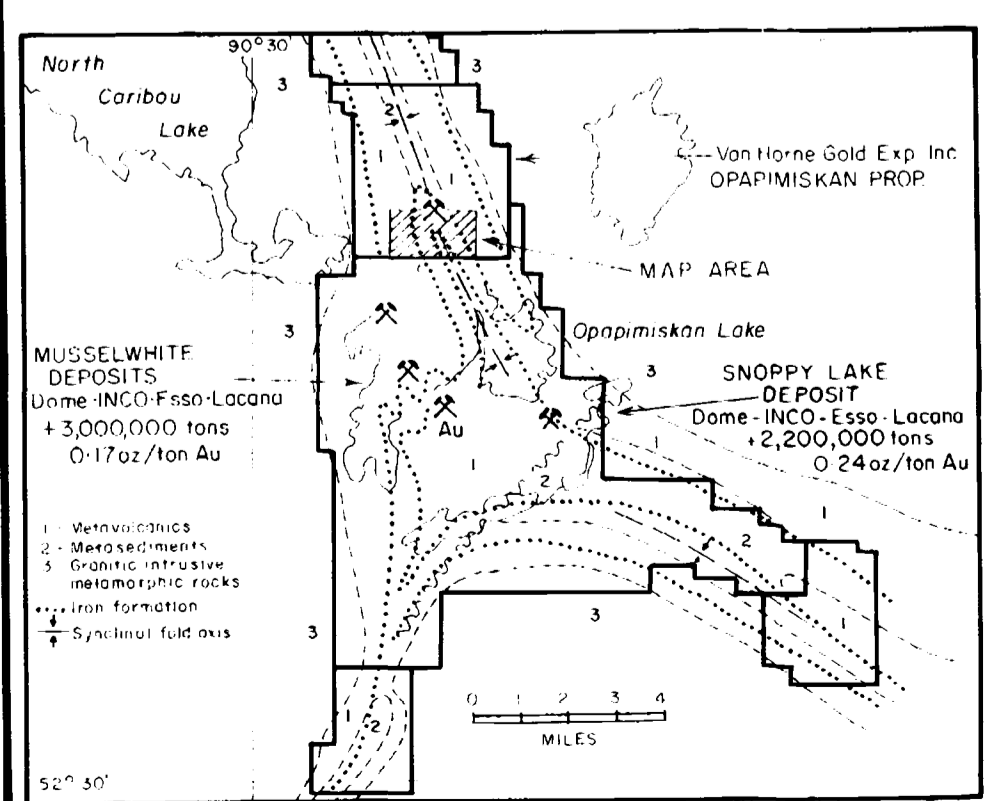
Plunge
± 25%

FOLD
AXIS

Base Line
36E

TRENCH
0-3

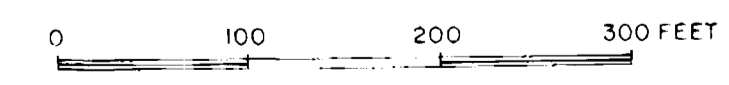
Drilling Base Line



LEGEND

0/5	Overburden
1	Ultramafic volcanics
2	Mafic volcanics
3	Chlorite schist
4	Banded iron formation
5	Sediments: a) biotite, garnet ± amphibole ± quartz ± magnetite b) biotite ± amphibole ± quartz ± magnetite
6	Greywacke
7	Mafic tuff
8	Felsic volcanics
9	Lamprophyte
10	Intermediate volcanics
11	Quartz vein

- Outcrop Boundary
- Magnetic contour
- Surface projection of diamond drill hole with projected intercepts with gold values in ounces per ton over interval in feet



ORACLE RESOURCES LTD.

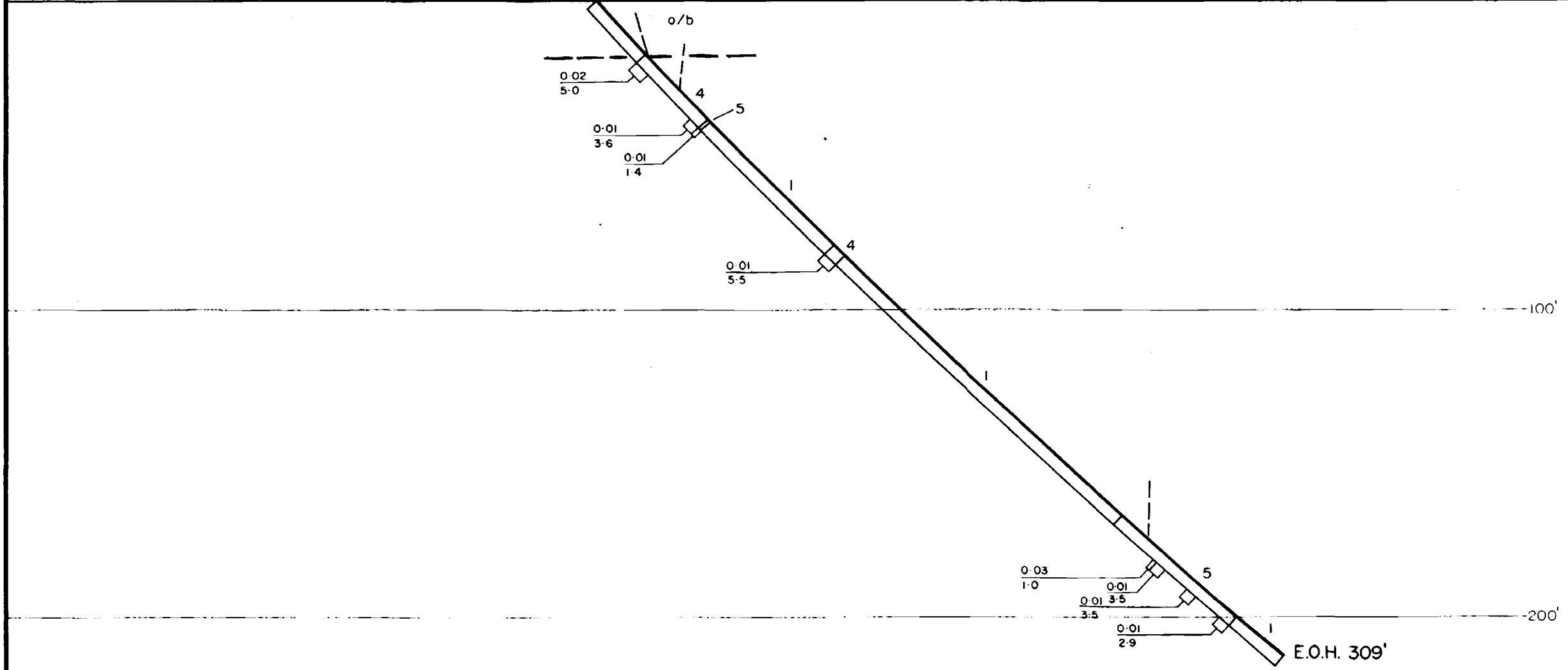
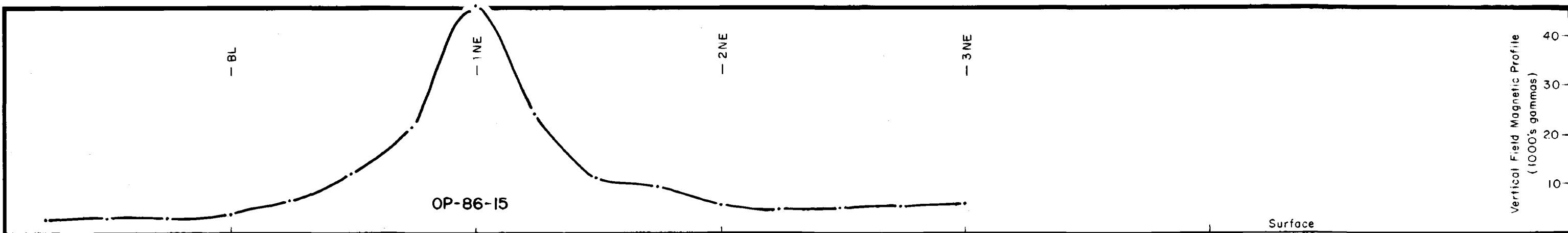
OPAPIMISKAN LAKE PROPERTY
Patricia M.D., Ontario

Surface Plan—Anticline Area

Showing drill hole locations and surface projections, assays and magnetic highlights

BY: J.H.A./R.T.M.
DATE: Nov. 1987
SCALE: 1" = 100'
DWG. No.: 1

GEOCANEX LTD
TORONTO, CANADA



LEGEND

o/b	Overburden
1	Ultramafic volcanics
2	Mafic volcanics
3	Chlorite schist
4	Banded Iron formation
5	Sediments: a) biotite, garnet ± amphibole ± quartz ± magnetite b) biotite ± amphibole ± quartz ± magnetite
6	Greywacke
7	Mafic tuff
8	Felsic volcanics
9	Lamprophyre
10	Intermediate volcanics
qv.	Quartz vein

——— Banding
 ——— Geological contacts defined
 - - - - - inferred
 - ? - ? - questionable

$\frac{0.014}{2.5}$ Gold assay in ounces per ton
 Core interval in feet

~~~~~ Magnetic profile

0 50  
FEET

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OPAPIMISKAN LAKE PROPERTY  
Patricia M.D., Ontario

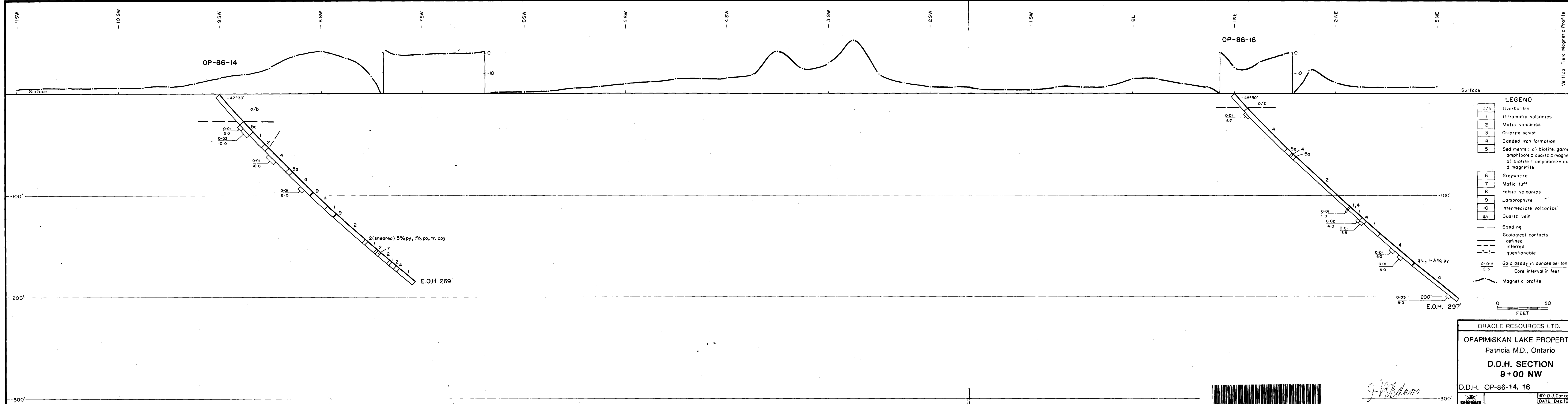
**D.D.H. SECTION  
8 + 00 NW**

D.D.H. OP-86-15

|                                 |                  |
|---------------------------------|------------------|
|                                 | BY: D.J. Corkery |
| GEOCANEX LTD<br>TORONTO, CANADA | DATE: Dec. 1986  |
|                                 | SCALE: 1" = 40'  |
|                                 | DWG. No. 2       |



*J.P. Adams*



**LEGEND**

|      |                                                                                                               |
|------|---------------------------------------------------------------------------------------------------------------|
| o/b  | Overburden                                                                                                    |
| 1    | Ultramafic volcanics                                                                                          |
| 2    | Mafic volcanics                                                                                               |
| 3    | Chlorite schist                                                                                               |
| 4    | Banded iron formation                                                                                         |
| 5    | Sediments: a) biotite, garnet ± amphibole ± quartz ± magnetite<br>b) biotite ± amphibole ± quartz ± magnetite |
| 6    | Greywacke                                                                                                     |
| 7    | Mafic tuff                                                                                                    |
| 8    | Felsic volcanics                                                                                              |
| 9    | Lamprophyre                                                                                                   |
| 10   | Intermediate volcanics                                                                                        |
| q.v. | Quartz vein                                                                                                   |

--- Banding  
 --- Geological contacts defined  
 --- Geological contacts inferred  
 -? -? Geological contacts questionable  
 0.014 Gold assay in ounces per ton  
 2.5 Core interval in feet  
 --- Magnetic profile

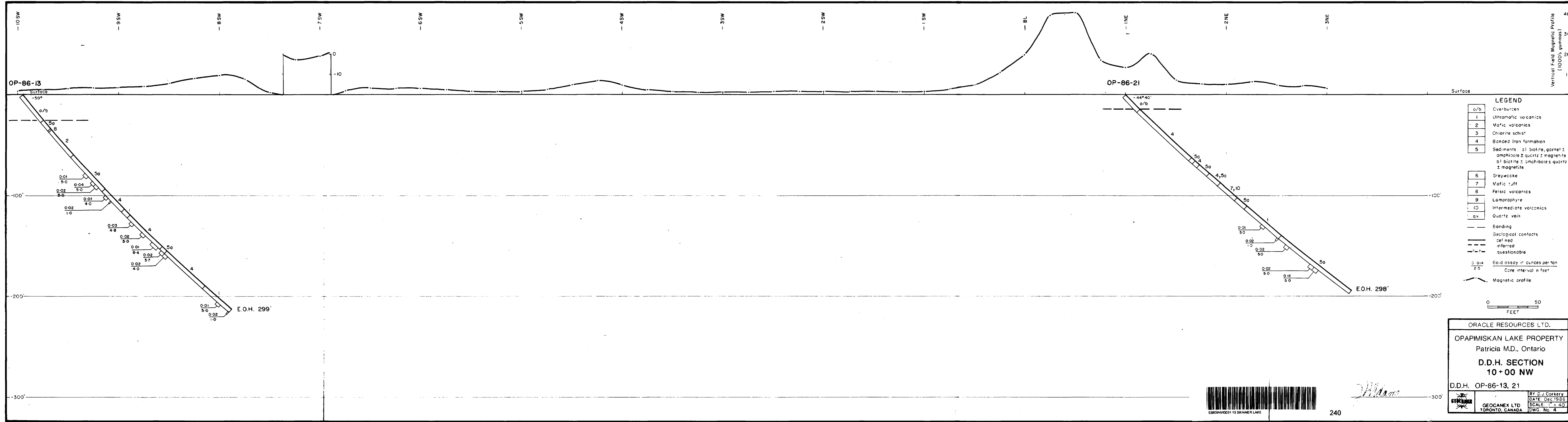
ORACLE RESOURCES LTD.  
 OPAPIMISKAN LAKE PROPERTY  
 Patricia M.D., Ontario  
**D.D.H. SECTION  
 9+00 NW**  
 D.D.H. OP-86-14, 16

BY: D.J. Corkery  
 DATE: Dec. 1986  
 SCALE: 1" = 40'  
 DWG. No. 3

GEOCANEX LTD  
 TORONTO, CANADA



230



- LEGEND**
- o/b Overburden
  - 1 Ultramafic volcanics
  - 2 Mafic volcanics
  - 3 Chlorite schist
  - 4 Banded iron formation
  - 5 Sediments: a) biotite, garnet ± amphibole ± quartz ± magnetite  
b) biotite ± amphibole ± quartz ± magnetite
  - 6 Greywacke
  - 7 Mafic tuff
  - 8 Felsic volcanics
  - 9 Lamprophyre
  - 10 Intermediate volcanics
  - qv Quartz vein
  - Banding
  - Geological contacts: defined, inferred, questionable
  - 0.014 / 2.5 Gold assay in ounces per ton  
Core interval in feet
  - Magnetic profile



ORACLE RESOURCES LTD.  
 OPAPIMISKAN LAKE PROPERTY  
 Patricia M.D., Ontario  
**D.D.H. SECTION  
 10+00 NW**  
 D.D.H. OP-86-13, 21

BY D.J. Corkery  
 DATE: Dec 1985  
 SCALE: 1" = 40'  
 DWG. No. 4



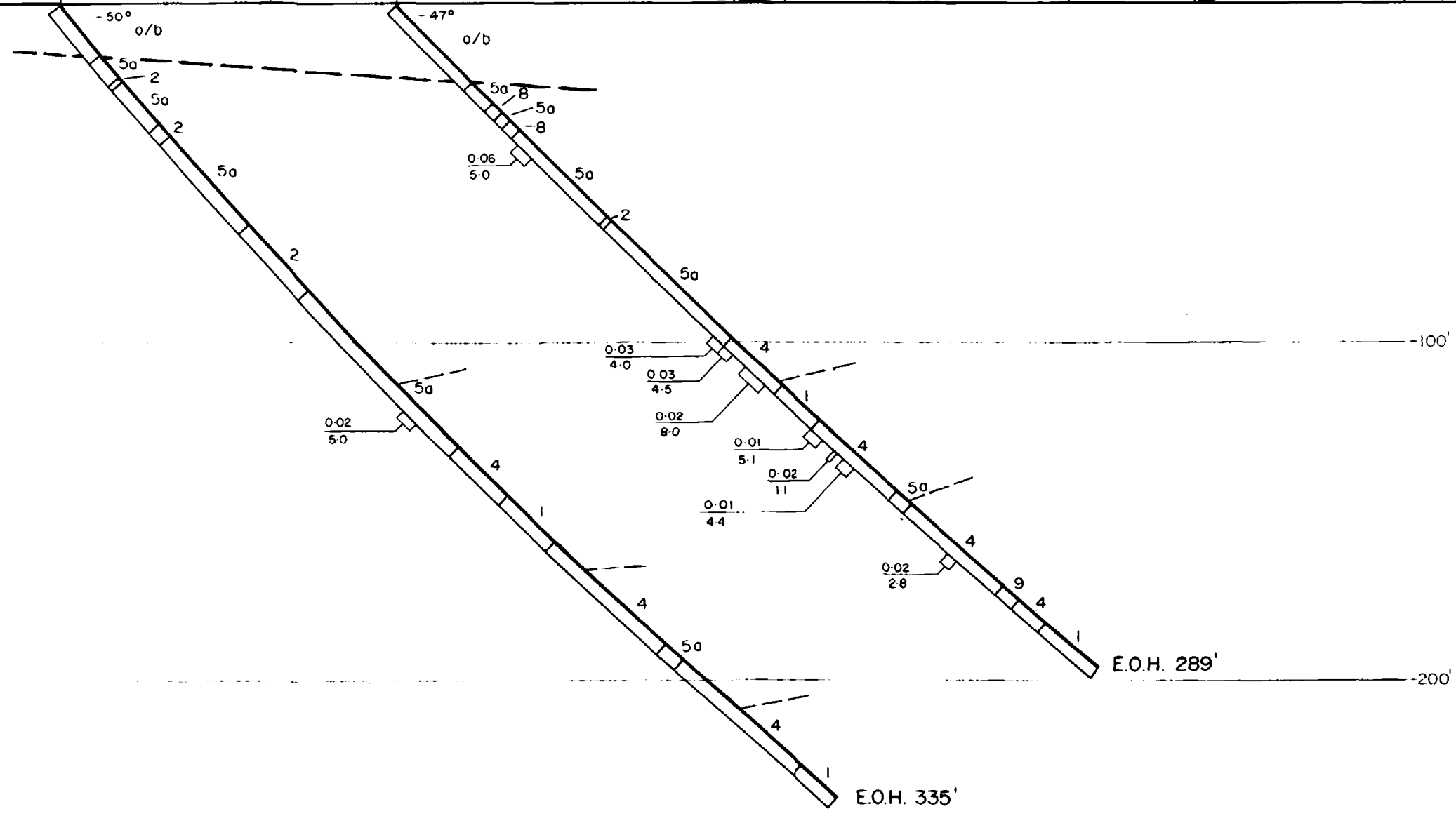
10SW 9SW 8SW 7SW 6SW

Vertical Field Magnetic Profile  
(1000's gammas)

OP-86-12

OP-86-11

Surface



LEGEND

- o/b Overburden
  - 1 Ultramafic volcanics
  - 2 Mafic volcanics
  - 3 Chlorite schist
  - 4 Banded iron formation
  - 5 Sediments: a) biotite, garnet ± amphibole ± quartz ± magnetite  
b) biotite ± amphibole ± quartz ± magnetite
  - 6 Greywacke
  - 7 Mafic tuff
  - 8 Felsic volcanics
  - 9 Lamprophyre
  - 10 Intermediate volcanics
  - q.v. Quartz vein
- Banding  
 — Geological contacts defined  
 - - - - - inferred  
 - ? - ? - questionable
- $\frac{0.014}{2.5}$  Gold assay in ounces per ton  
 Core interval in feet
- - - - - Magnetic profile



ORACLE RESOURCES LTD.

OPAPIMISKAN LAKE PROPERTY  
Patricia M.D., Ontario  
D.D.H. SECTION  
11+00 NW

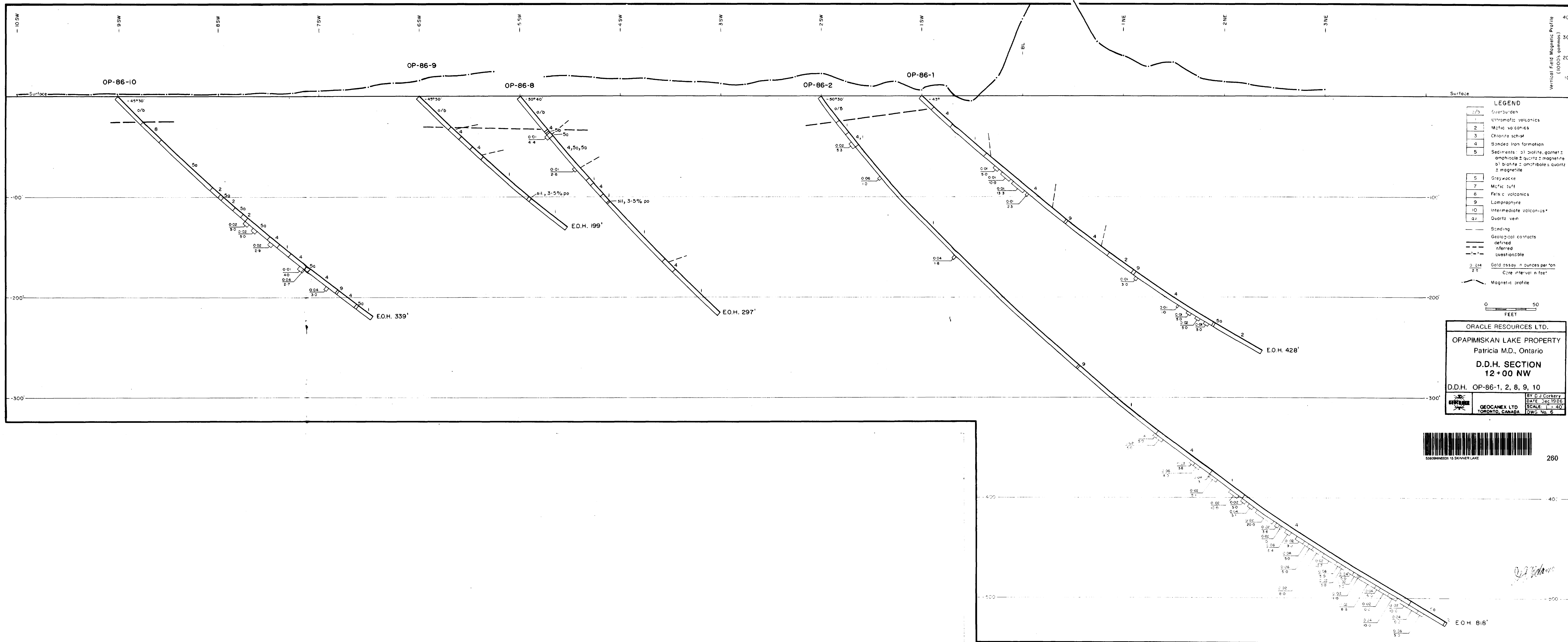
D.D.H. OP-86-11, 12

|  |                 |
|--|-----------------|
|  | BY D.J. Corkery |
|  | DATE: Dec 1986  |
|  | SCALE: 1" = 40' |
|  | DWG. No. 5      |

GEOCANEX LTD  
TORONTO, CANADA



*John Williams*



- LEGEND**
- 1/5 Overburden
  - 1 Ultramafic volcanics
  - 2 Mafic volcanics
  - 3 Chlorite schist
  - 4 Banded iron formation
  - 5 Sediments: a) biotite, garnet ± amphibole ± quartz ± magnetite  
b) biotite ± amphibole ± quartz ± magnetite
  - 6 Greywacke
  - 7 Mafic tuff
  - 8 Felsic volcanics
  - 9 Lamprophyre
  - 10 Intermediate volcanics\*
  - qv Quartz vein
- Scandling  
 - - - defined  
 - - - inferred  
 - - - questionable
- 0.014 Gold assay in ounces per ton  
 2.5 Core interval in feet
- ▲ Magnetic profile



ORACLE RESOURCES LTD.  
 OPAPIMISKAN LAKE PROPERTY  
 Patricia M.D., Ontario  
**D.D.H. SECTION  
 12+00 NW**  
 D.D.H. OP-86-1, 2, 8, 9, 10

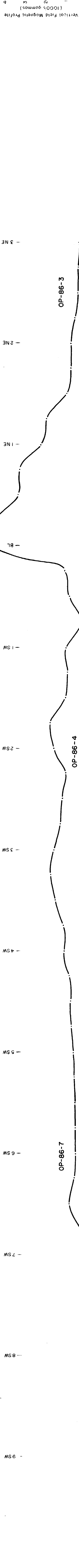
BY G.J. Corkery  
 DATE Dec 1986  
 SCALE 1" = 40'  
 DWG No. 6

GEOCANEX LTD  
 TORONTO, CANADA



*G.J. Corkery*

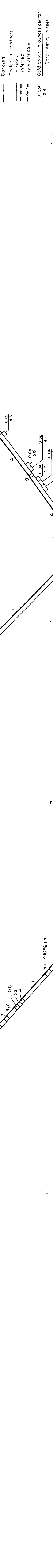




Surface

Vertical Field Magnetic Profile (1000's gammas)

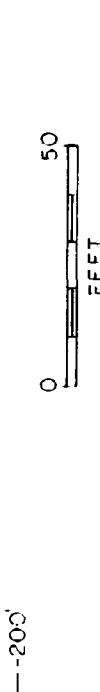
OP-86-7 OP-86-4 OP-86-3



**LEGEND**

|     |                                                                                                    |
|-----|----------------------------------------------------------------------------------------------------|
| 1/5 | Quaternary                                                                                         |
| 2   | Ultramafic volcanics                                                                               |
| 3   | Mafic volcanics                                                                                    |
| 4   | Chlorite schist                                                                                    |
| 5   | Sediments of biotite, garnet, amphibole, quartz, magnetite, chlorite, amphibole, quartz, magnetite |
| 6   | Greywacke                                                                                          |
| 7   | Mafic tuff                                                                                         |
| 8   | Felsic volcanics                                                                                   |
| 9   | Lamprophyre                                                                                        |
| 10  | Marble, etc. volcanics                                                                             |
| 11  | Quartz vein                                                                                        |
| 12  | Banding                                                                                            |
| 13  | Geological contacts                                                                                |
| 14  | defined                                                                                            |
| 15  | inferred                                                                                           |
| 16  | questionable                                                                                       |

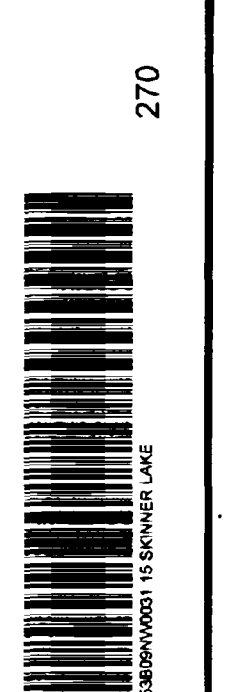
|      |                              |
|------|------------------------------|
| 0.04 | Gold assay in ounces per ton |
| 2.5  | Core interval in feet        |
| —    | Magnetic profile             |



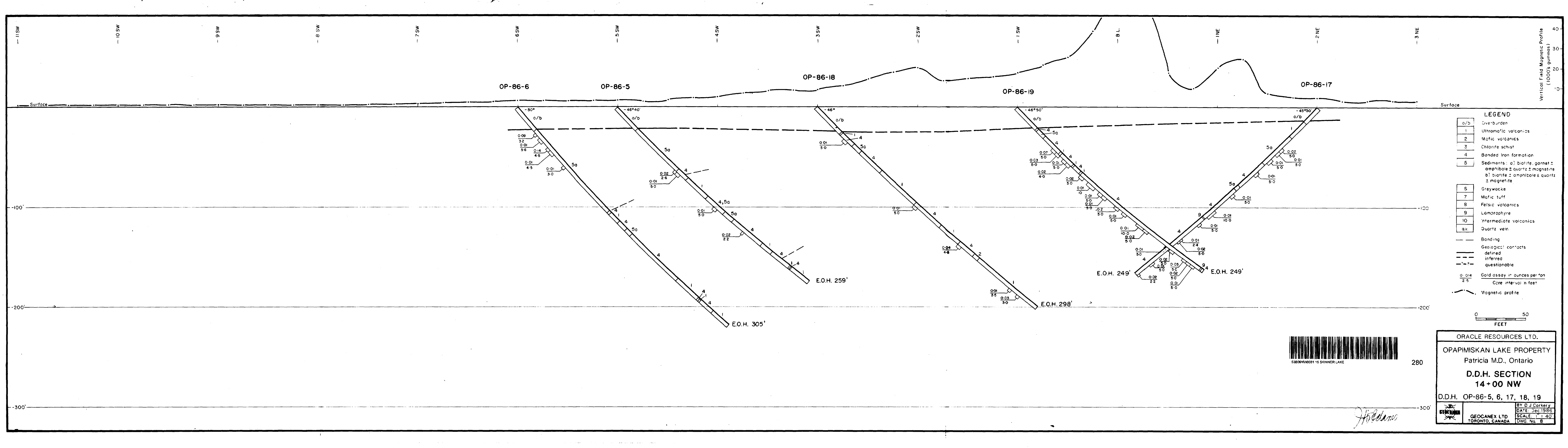
ORACLE RESOURCES LTD.  
 OPAPIMISKAN LAKE PROPERTY  
 Patricia M.D., Ontario  
**D.D.H. SECTION**  
**13 + 00 NW**  
 D.D.H. OP-86-3, 4, 7

BY D.J. CONNERY  
 DATE: Dec 1986  
 SCALE: 1" = 40'  
 DIVS. NO. 7

GEOCANEX LTD  
 TORONTO, CANADA







- LEGEND**
- o/b Overburden
  - 1 Ultramafic volcanics
  - 2 Mafic volcanics
  - 3 Chlorite schist
  - 4 Banded iron formation
  - 5 Sediments: a) biotite, garnet ± amphibole ± quartz ± magnetite  
b) biotite ± amphibole ± quartz ± magnetite
  - 5a Greywacke
  - 7 Mafic tuff
  - 8 Felsic volcanics
  - 9 Lamprophyre
  - 10 Intermediate volcanics
  - av. Quartz vein
  - Banding
  - Geological contacts defined
  - - - inferred
  - · - · - questionable
  - 0.014 Gold assay in ounces per ton
  - 2.5 Core interval in feet
  - ~ Magnetic profile



ORACLE RESOURCES LTD.  
 OPAPIMISKAN LAKE PROPERTY  
 Patricia M.D., Ontario  
**D.D.H. SECTION  
 14+00 NW**  
 D.D.H. OP-86-5, 6, 17, 18, 19

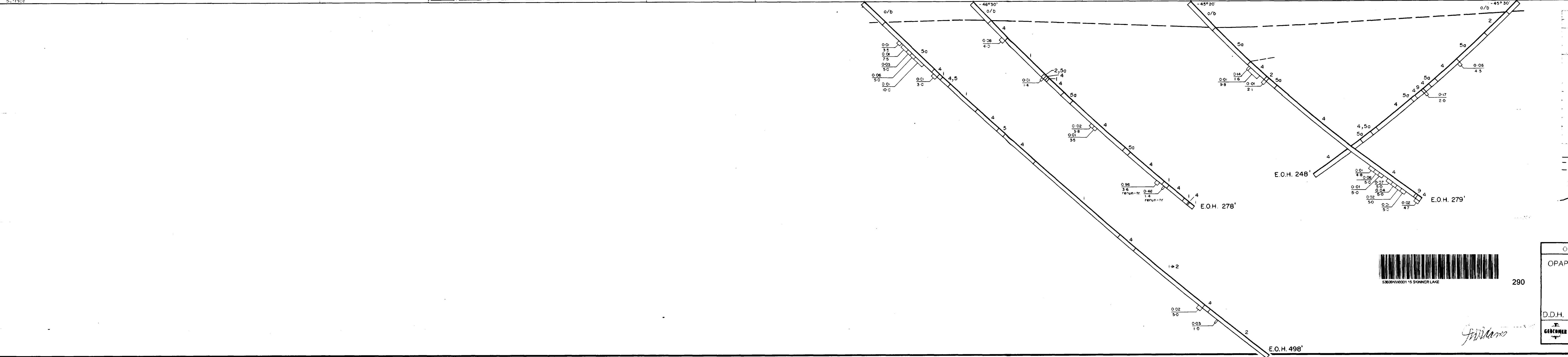
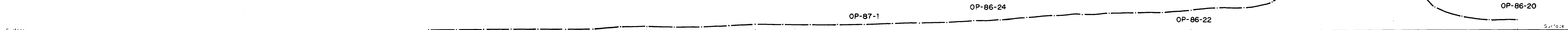
BY: D.J. Corkery  
 DATE: Dec 1986  
 SCALE: 1" = 40'  
 DWG. No. 8

GEOCANEX LTD.  
 TORONTO, CANADA

*H. Williams*

- 8 SW      - 7 SW      - 6 SW      - 5 SW      - 4 SW      - 3 SW      - 2 SW      - 1 SW      - BL      - 1 NE      - 2 NE

Vertical Field Magnetic Profile  
(1000's gamma)



**LEGEND**

|     |          |
|-----|----------|
| 1   | Unit 1   |
| 2   | Unit 2   |
| 3   | Unit 3   |
| 4   | Unit 4   |
| 5   | Unit 5   |
| 6   | Unit 6   |
| 7   | Unit 7   |
| 8   | Unit 8   |
| 9   | Unit 9   |
| 10  | Unit 10  |
| 11  | Unit 11  |
| 12  | Unit 12  |
| 13  | Unit 13  |
| 14  | Unit 14  |
| 15  | Unit 15  |
| 16  | Unit 16  |
| 17  | Unit 17  |
| 18  | Unit 18  |
| 19  | Unit 19  |
| 20  | Unit 20  |
| 21  | Unit 21  |
| 22  | Unit 22  |
| 23  | Unit 23  |
| 24  | Unit 24  |
| 25  | Unit 25  |
| 26  | Unit 26  |
| 27  | Unit 27  |
| 28  | Unit 28  |
| 29  | Unit 29  |
| 30  | Unit 30  |
| 31  | Unit 31  |
| 32  | Unit 32  |
| 33  | Unit 33  |
| 34  | Unit 34  |
| 35  | Unit 35  |
| 36  | Unit 36  |
| 37  | Unit 37  |
| 38  | Unit 38  |
| 39  | Unit 39  |
| 40  | Unit 40  |
| 41  | Unit 41  |
| 42  | Unit 42  |
| 43  | Unit 43  |
| 44  | Unit 44  |
| 45  | Unit 45  |
| 46  | Unit 46  |
| 47  | Unit 47  |
| 48  | Unit 48  |
| 49  | Unit 49  |
| 50  | Unit 50  |
| 51  | Unit 51  |
| 52  | Unit 52  |
| 53  | Unit 53  |
| 54  | Unit 54  |
| 55  | Unit 55  |
| 56  | Unit 56  |
| 57  | Unit 57  |
| 58  | Unit 58  |
| 59  | Unit 59  |
| 60  | Unit 60  |
| 61  | Unit 61  |
| 62  | Unit 62  |
| 63  | Unit 63  |
| 64  | Unit 64  |
| 65  | Unit 65  |
| 66  | Unit 66  |
| 67  | Unit 67  |
| 68  | Unit 68  |
| 69  | Unit 69  |
| 70  | Unit 70  |
| 71  | Unit 71  |
| 72  | Unit 72  |
| 73  | Unit 73  |
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| 76  | Unit 76  |
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| 83  | Unit 83  |
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| 85  | Unit 85  |
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| 87  | Unit 87  |
| 88  | Unit 88  |
| 89  | Unit 89  |
| 90  | Unit 90  |
| 91  | Unit 91  |
| 92  | Unit 92  |
| 93  | Unit 93  |
| 94  | Unit 94  |
| 95  | Unit 95  |
| 96  | Unit 96  |
| 97  | Unit 97  |
| 98  | Unit 98  |
| 99  | Unit 99  |
| 100 | Unit 100 |



ORACLE RESOURCES LTD.  
 OPAPIMISKAN LAKE PROPERTY  
 Patricia M.D., Ontario  
**D.D.H. SECTION**  
**15 + 00 NW**  
 D.D.H. OP-86-20, 22, 24, OP-87-1

BY: D.J. Gaskery  
 DATE: Dec 1985  
 SCALE: 1" = 40'  
 DWG. No. 9

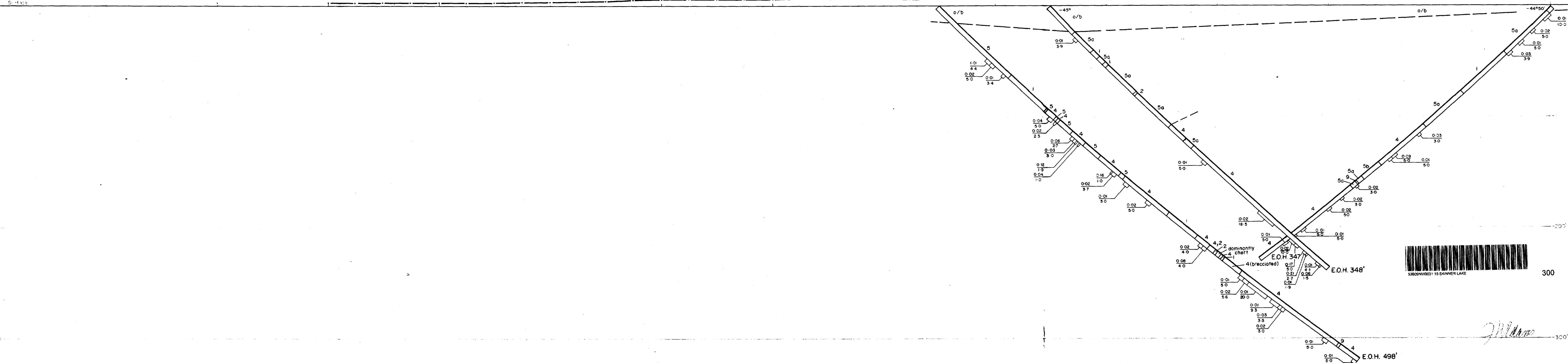
GEOCANEX LTD.  
 TORONTO, CANADA

*J. Williams*

- 8 SW      - 7 SW      - 6 SW      - 5 SW      - 4 SW      - 3 SW      - 2 SW      - 1 SW      - B.L.      - 1 NE      - 2 NE      - 3 NE

OP-87-2      OP-86-23      OP-86-25

Vertical Field Magnetic Profile  
(100-15 gamma<sub>n</sub>)



**LEGEND**

|    |                                                                                                             |
|----|-------------------------------------------------------------------------------------------------------------|
| 1  | Overburden                                                                                                  |
| 2  | Ultramafic volcanics                                                                                        |
| 3  | Mafic volcanics                                                                                             |
| 4  | Chlorite schist                                                                                             |
| 5  | Sediments: ol. biotite gneiss; amphibole ± quartz ± magnetite; bi. biotite ± amphibole ± quartz ± magnetite |
| 6  | Greywacke                                                                                                   |
| 7  | Mafic tuff                                                                                                  |
| 8  | Felsic volcanics                                                                                            |
| 9  | Lumprophire                                                                                                 |
| 10 | Intermediate volcanics                                                                                      |
| 11 | Quartz vein                                                                                                 |
| 12 | Fracturing                                                                                                  |
| 13 | Geological contacts                                                                                         |
| 14 | defined                                                                                                     |
| 15 | inferred                                                                                                    |
| 16 | questionable                                                                                                |
| 17 | Rock density in tonnes per ton                                                                              |
| 18 | Core interval in feet                                                                                       |
| 19 | Magnetic profile                                                                                            |



ORACLE RESOURCES LTD.  
 OPAPIMISKAN LAKE PROPERTY  
 Patricia M.D., Ontario  
 D.D.H. SECTION  
 16 + 00 NW  
 D.D.H. OP-86-23, 25, OP-87-2

BY: D.J. Corkery  
 DATE: Dec '88  
 SCALE: 1" = 40'  
 DWG. No. 10

GEOCANEX LTD.  
 TORONTO, CANADA

*J.M. M...*

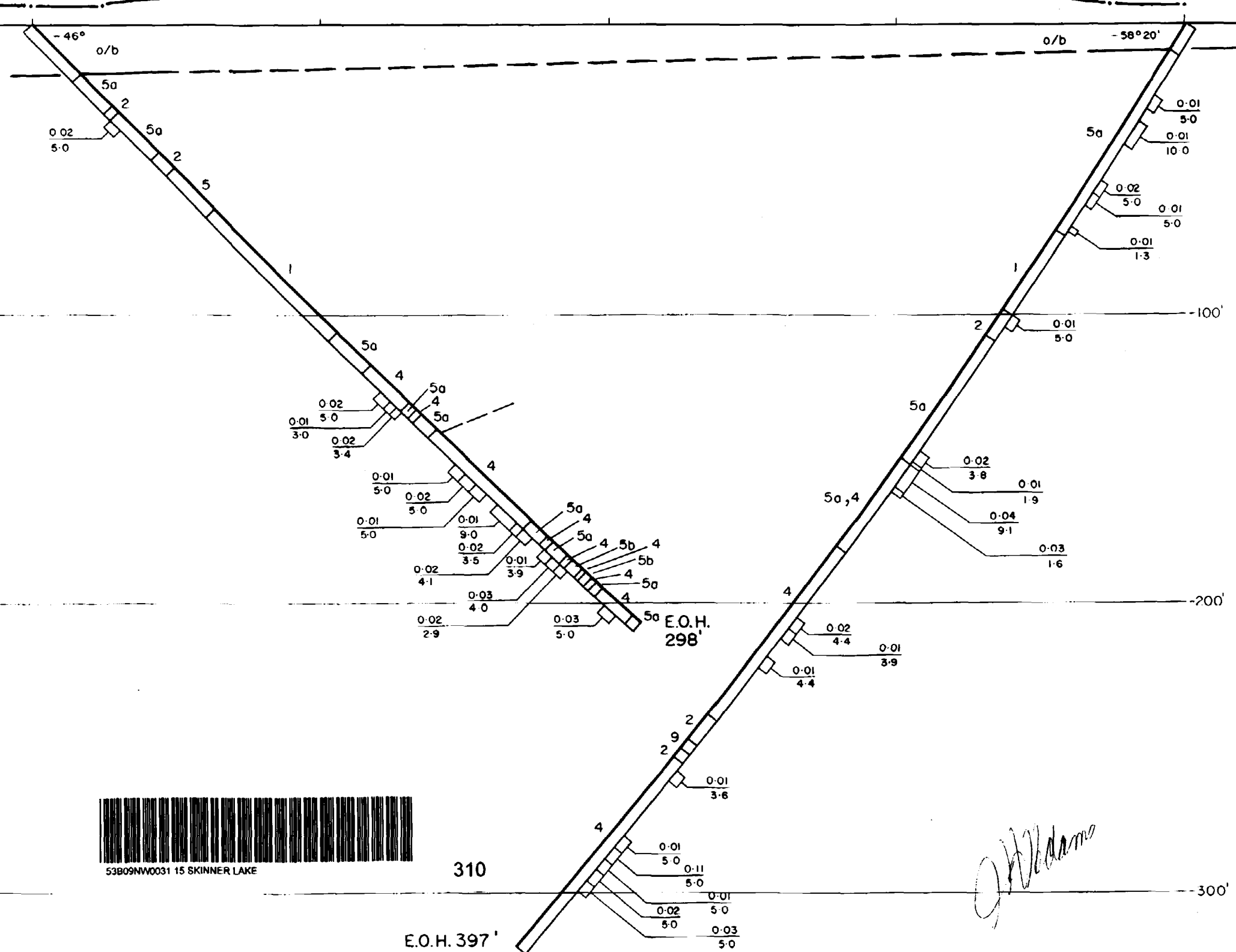
- 1 SW                      - 8L                      - 1NE                      - 2NE                      - 3NE

OP-86-26

OP-86-27

Vertical Field Magnetic Profile  
(1000's gammas)

40  
30  
20  
10



**LEGEND**

- o/b Overburden
  - 1 Ultramafic volcanics
  - 2 Mafic volcanics
  - 3 Chlorite schist
  - 4 Banded Iron formation
  - 5 Sediments: a) biotite, garnet ± amphibole ± quartz ± magnetite  
b) biotite ± amphibole ± quartz ± magnetite
  - 6 Greywacke
  - 7 Mafic tuff
  - 8 Felsic volcanics
  - 9 Lamprophyre
  - 10 Intermediate volcanics
  - qv Quartz vein
- Banding
- Geological contacts defined
- - - - - inferred
- ? - ? - questionable
- $\frac{0.014}{2.5}$  Gold assay in ounces per ton
- Core interval in feet
- Magnetic profile



310

E.O.H. 397'

*Handwritten signature*

ORACLE RESOURCES LTD.

OPAPIMISKAN LAKE PROPERTY  
Patricia M.D., Ontario

**D.D.H. SECTION  
17+00 NW**

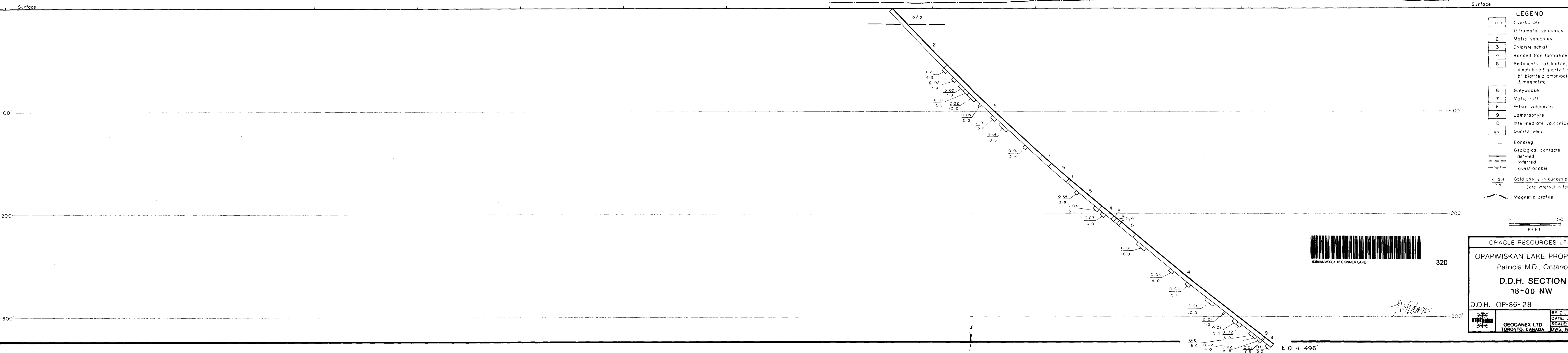
D.D.H. OP-86-26, 27

BY: D.J. Corkery  
DATE: Dec. 1986  
SCALE: 1" = 40'  
DWG. No. 11

GEOCANEX LTD  
TORONTO, CANADA

3W 2W 1W B.L. 1E 2E 3E

OP - 86 - 28



**LEGEND**

|     |                                                                                                               |
|-----|---------------------------------------------------------------------------------------------------------------|
| 0/5 | Overburden                                                                                                    |
| 1   | Ultramafic volcanics                                                                                          |
| 2   | Mafic volcanics                                                                                               |
| 3   | Chlorite schist                                                                                               |
| 4   | Banded iron formation                                                                                         |
| 5   | Sediments: a) biotite, garnet ± amphibole ± quartz ± magnetite<br>b) biotite ± amphibole ± quartz ± magnetite |
| 6   | Greywacke                                                                                                     |
| 7   | Mafic tuff                                                                                                    |
| 8   | Felsic volcanics                                                                                              |
| 9   | Lamprophyre                                                                                                   |
| 10  | Intermediate volcanics                                                                                        |
| qv  | Quartz vein                                                                                                   |

———— Bonding  
 ———— Geological contacts defined  
 - - - - - inferred  
 - ? - ? - questionable

0.014 Gold assay in ounces per ton  
 2.5 Core interval in feet

~~~~~ Magnetic profile



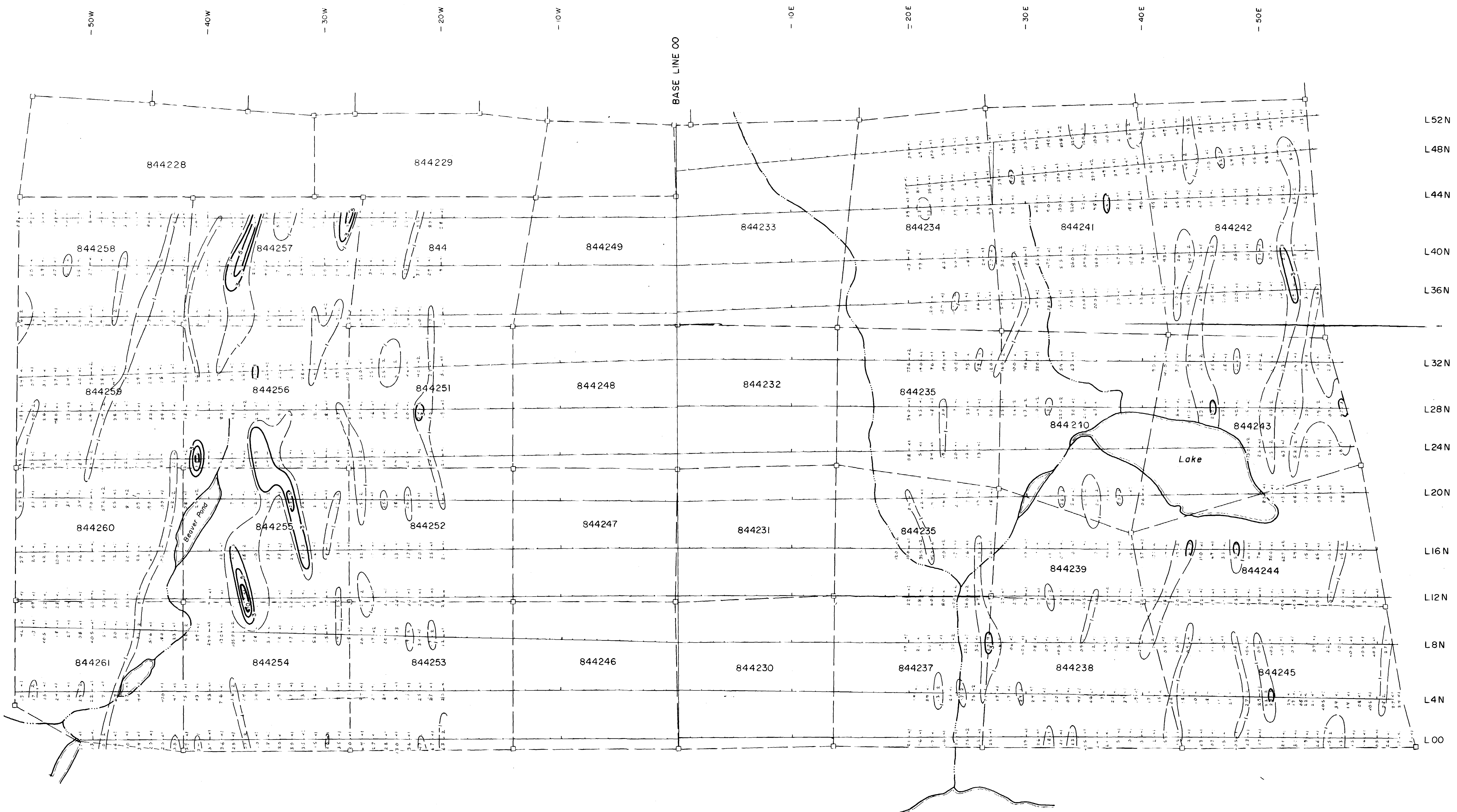
320

ORACLE RESOURCES LTD.
 OPAPIMISKAN LAKE PROPERTY
 Patricia M.D., Ontario
D.D.H. SECTION
 18+00 NW
 D.D.H. OP-86-28

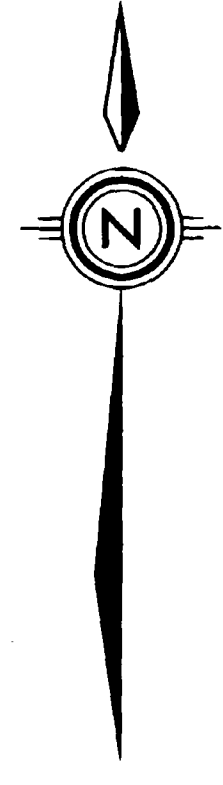
BY: E.J. Corkery
 DATE: Dec 1986
 SCALE: 1" = 40'
 DWG. No. 12

GEOCANEX LTD
 TORONTO, CANADA

E.O.H. 496



L52N
L48N
L44N
L40N
L36N
L32N
L28N
L24N
L20N
L16N
L12N
L8N
L4N
L00



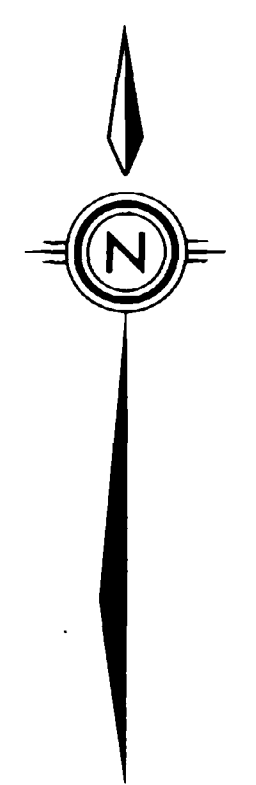
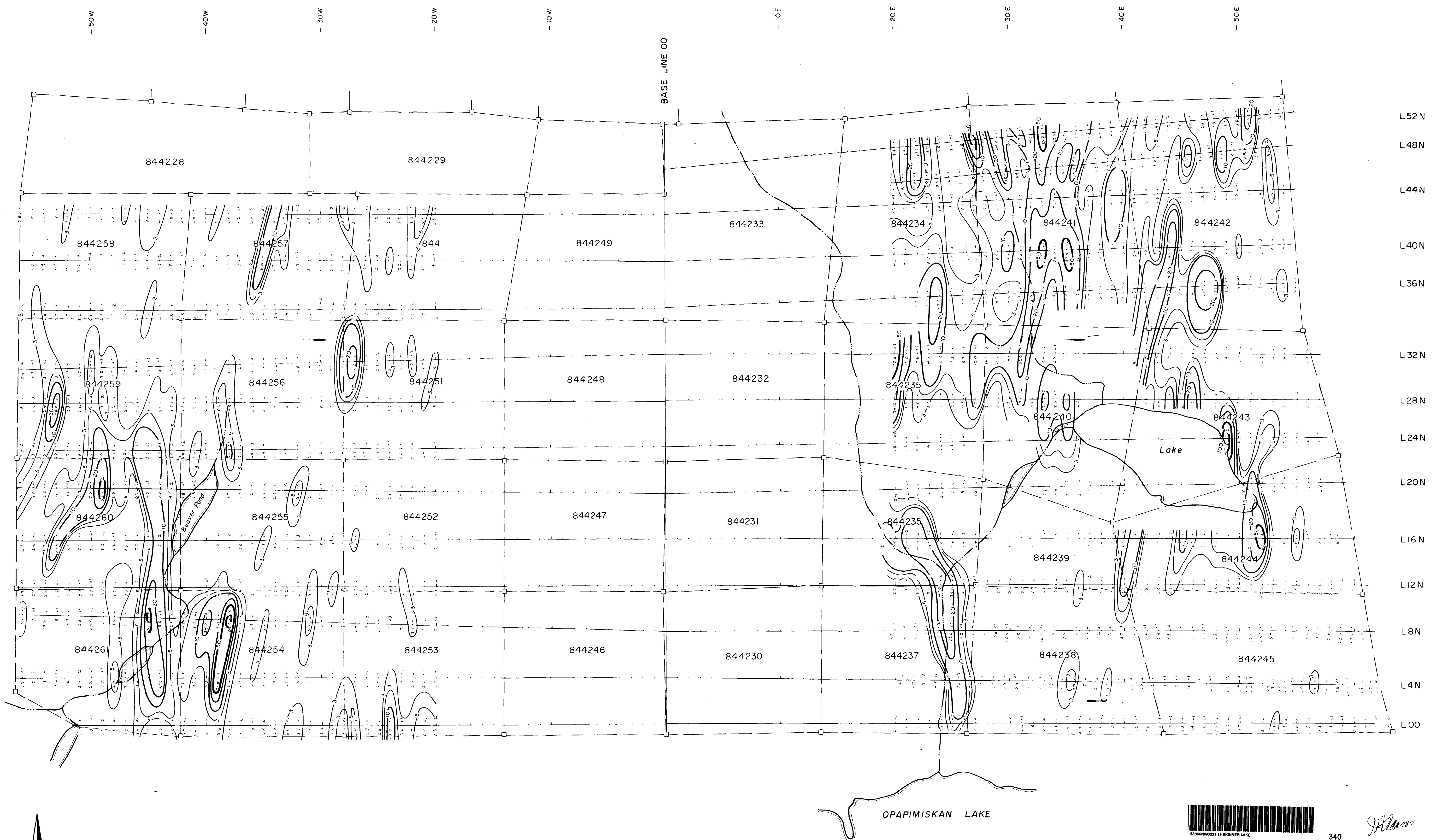
LEGEND
 Soil analysis for Au in ppb 1
 Soil analysis for As in ppm 2
 Gold contours:
 1 ppb
 3 & 5 ppb
 10 ppb

0 500' 1000' 1500'
 Scale 1" = 4800'



330 *J.M.M.*

| | |
|----------------------------------|------------------|
| ORACLE RESOURCES LTD. | |
| OPAPIMISKAN LAKE PROPERTY | |
| Patricia M.D., Ontario | |
| Geochemical Soil Survey | |
| GOLD CONTOURS | |
| | BY: R.T.M. |
| | DATE: Feb. 1987 |
| | SCALE: 1" = 400' |
| GEOCANEX LTD
TORONTO, CANADA | |
| DWG. No: 13 | |



LEGEND

Soil analysis for Au in ppb.....

Soil analysis for As in ppm.....

Arsenic contours:

3 & 5 ppm.....

10 & 20 ppm.....

50 & 100 ppm.....

0 500' 1000' 1500'

Scale 1:4800



340 *J.M.M.*

| | |
|---------------------------------|------------------|
| ORACLE RESOURCES LTD. | |
| OPAPIMISKAN LAKE PROPERTY | |
| Patricia M.D., Ontario | |
| Geochemical Soil Survey | |
| ARSENIC CONTOURS | |
| | BY: RTM |
| | DATE: Feb 1987 |
| | SCALE: 1" = 400' |
| GEOCANEX LTD
TORONTO, CANADA | |
| DWG. No: 14 | |