



52F04NE0031 2.5680 BROOKS LAKE

010

SUMMARY REPORT

DIAMOND DRILLING PROGRAM

MARTIN OPTION-CROW LAKE JOINT VENTURE

KENORA MINING DIVISION

NTS 52F-4

RECEIVED

AUG 17 1983

MINING LANDS SECTION

April 9, 1975.
Thunder Bay, Ontario

By: Glen W. Adams



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GENERAL STATEMENT

The members of the Martin Option-Crow Lake Joint Venture consist of Newconex Canadian Exploration Limited, Tombill Mines Limited and Noranda Exploration Company, Limited. The latter Company was appointed as the operating Company of the joint venture and during February and March, 1975, carried out geophysical surveys and a diamond drilling program on the joint venture claims. The work was conducted to investigate the potential of gold-bearing zones previously discovered on two islands within the area covered by the optioned claims.

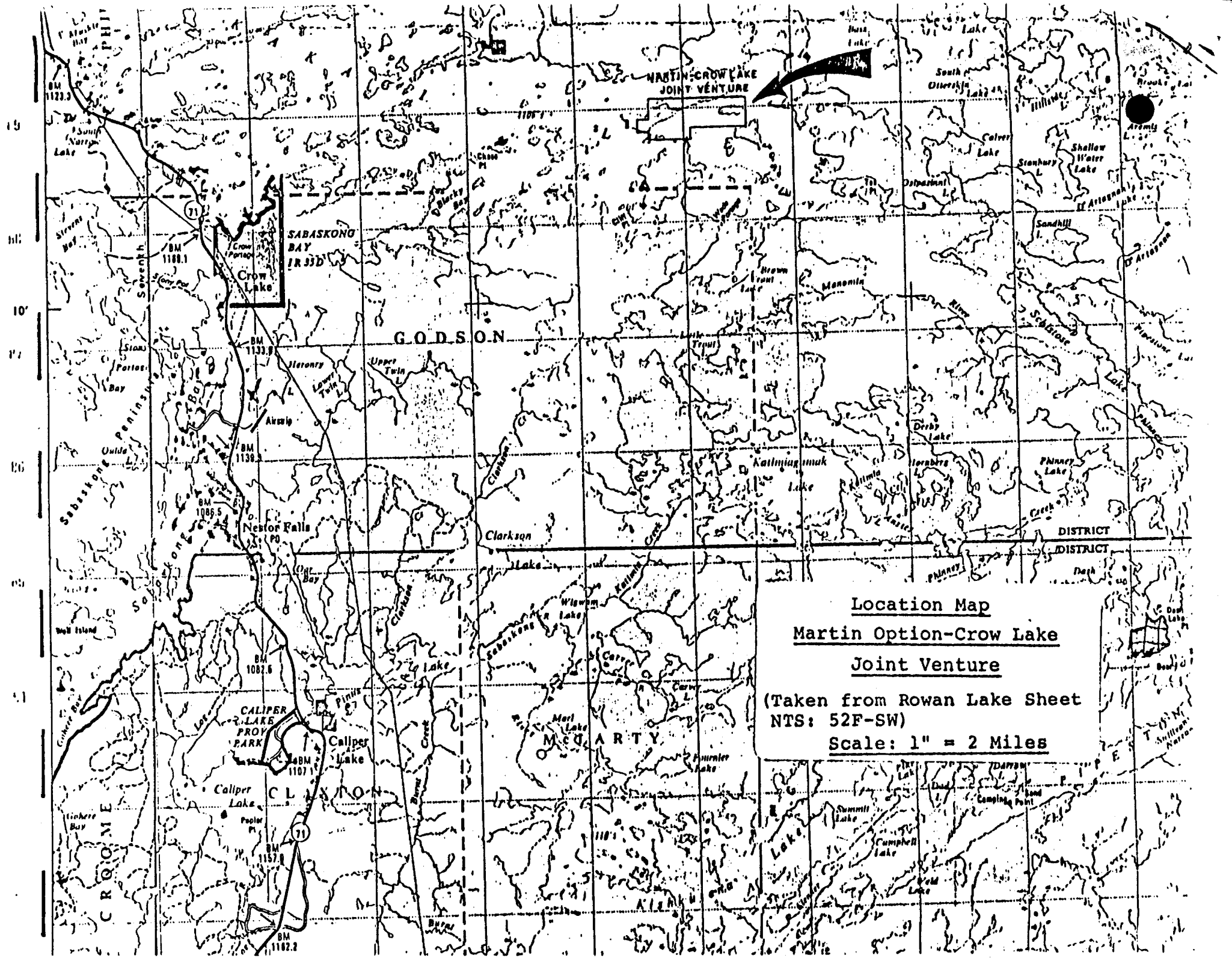
In early February, 1975, a geophysical grid was established over the entire claim group and VLF-EM and Magnetometer surveys were conducted (see separate geophysical report by D. Eaton, 1975). From February 19 to March 14, 1975, seven diamond drill holes totalling 2,016 feet were drilled in the vicinity of known surface gold showings on the small eastern island (East Island) and Hay (west) Island.

The drilling was contracted to Norwescon Development Limited of Fort Frances, Ontario, for a minimum of 2,000 feet of AQ wireline drilling. All core from this present program is stored at Hanson's Wilderness Resort located on Highway 71 at the west end of Crow (Kakagi) Lake, approximately four miles north of Nestor Falls, Ontario.

All sections of core considered worth sampling were split and the samples sent to Pamour Porcupine Mines Limited, Pamour, Ontario, for assaying. The remaining half of the splits were left in sequence in the appropriate core boxes. All samples were assayed by atomic absorption methods and reported in ounces of gold per ton. *

LOCATION AND ACCESS

The Martin Option-Crow Lake Joint Venture claims are located near the east end of Crow (Kakagi) Lake (Fig.1). The claim group lies approximately 11 miles northeast of Nestor Falls, Ontario



Location Map
Martin Option-Crow Lake
Joint Venture

(Taken from Rowan Lake Sheet
NTS: 52F-SW)

Scale: 1" = 2 Miles

and about 42 miles southeast of Kenora, Ontario.

Access to the claim group was by a nine mile ice road starting from Hanson's Wilderness Resort. During the summer months the area is readily accessible by water.

MINING CLAIMS IN THE JOINT VENTURE

The Martin Option-Crow Lake Joint Venture claims consists of 19 contiguous unpatented claims. The claim numbers are as follows: K 364747 - K 364750 incl.; K 364753 - K 364764 incl.; K 365049 - K 365050 incl.; and K 313947. The major portion of the claims group is covered by water. X
Now
37
CLAIMS

Diamond drilling was conducted only on claims K 364759 and K 313947.

PREVIOUS DRILLING

In 1944, Noranda Exploration Company, Limited undertook an x-ray diamond drilling program to test a gold showing discovered by Roy Martin and Jack Kenty. This showing is the present showing of interest on East Island.

The gold-bearing zone was trenched and six x-ray holes drilled (see drill hole location plan, East Island). Assays from the trenches were favourable, the No. 1 trench yielding 0.30 oz. of gold/ton over 11.5 feet. Trenches 2 and 3 returned 0.16 oz. of gold/ton over 14 feet and 0.15 oz. of gold over 18 feet respectively. Assay returns from the drilling were substantially lower. Core recovery averaged only 50% and it was debatable whether the drilling gave representative results. For further information pertaining to previous work refer to the report by MacCormack (1974).

CORE: FIN
X-RAY
D-ASTRO-63
14. 3.20 12
#2 12 0.20 P

GENERAL GEOLOGY FROM DRILL HOLE DATA

East Island

East Island is underlain by a sequence of tuffs and lapilli tuffs predominantly of intermediate to felsic composition. Minor mafic pyroclastics and possible intermediate volcanic flows also exist. Direct correlation of rock units between drill holes is extremely tenuous and facies changes are suspected.

The major rock type is a grey-green rock consisting of a tuffaceous matrix hosting lapilli size fragments. The fragments average 1cm wide and are stretched to 2 to 3cm. Fragments comprise 20% to 90% of the rock and closely resemble the composition of the tuffaceous matrix. When variances in composition occur, more felsic and mafic fragments commonly co-exist within the same host. The pyroclastics are well-foliated with fragment elongation paralleling foliation planes.

Partial alteration of the rocks occurs in the form of sericitization, carbonatization, and minor silicification and chloritization. Sericitization is the most common occurring as films of sericitic minerals along foliation planes and paper-thin sericitic partings parallel to the local foliation.

Narrow quartz and quartz-carbonate veins occur at random intersecting all rock types. They average 1 to 4cm in width and exhibit no preferred orientation. Carbonate content varies from trace amounts to 30%. The veins are typically barren of sulfides. Locally, inclusions of country rock within the veins carry minor pyrite.

Basaltic dikes occur in drill core from holes off the west end of the island. The dikes vary in width from 3 to 4cm to 1m. They are green to dark green, fine grained, massive and exhibit chilled margins and sharp contacts. The dikes cut the pyroclastic volcanics at random angles.

Hay (west) Island

Rock types intersected by hole MC 75-4, drilled beneath the shear zone on the south side of Hay Island, consist of intermediate to felsic tuffs and lapilli tuffs similar to those intersected beneath East Island. The rocks lie within a strong shear zone and are highly sheared and sericitized and contain numerous quartz and quartz-carbonate stringers and quartzose zones 1 to 2cm wide parallel to the shear planes. Fragments are narrow and highly stretched, averaging 1-2cm x 10-12cm. The quartzose zones and elongated fragments are often gently folded with fold axes being near perpendicular to the core axis.

SULFIDE MINERALIZATION

Pyrite is the major sulfide mineral being ubiquitous to all the rock types encountered in drilling. Trace amounts of chalcopyrite occur but are of little significance. No native gold was observed in drill core.

Pyrite averages nearly 1% in the volcanic pyroclastics. It occurs as finely disseminated grains and pyrite-rich bands less than 2cm wide in tuffaceous material. Concentrations of disseminated pyrite of 2% to 3% over several meters is not uncommon.

East Island Pyrite-Rich Zone

A zone of pyrite mineralization is located beneath the western end of East Island. Pyrite occurs in the tuffaceous matrix of slightly siliceous intermediate to felsic lapilli tuffs in the form of medium to coarse grains 1 to 3mm in diameter, and as very finely disseminated grains. The pyrite comprises from 5 to 20% of the rock and averages 10%. Concentrations of pyrite are found along the outer boundaries of lapilli fragments and as isolated aggregates. The fragments contain little or no pyrite.

Associated with the pyrite-rich zone are local concentrations of subhedral to euhedral amphibole (?) crystals less than 1mm x 2mm

in size, and sugary white quartz. These minerals apparently replace portions of the tuffaceous matrix. Both minerals vary greatly in abundance but never exceeding 30% of the rock. When these minerals are found together the sugary quartz appears to host the amphibole (?) as well as appreciable pyrite. The mineral association is not, however, necessary for pyrite mineralization.

The pyrite-rich zone extends for at least 240 feet near surface on the west end of East Island. The zone strikes 080° and dips 80° to 85° to the north. Drill hole and trench data of both the 1944, and present programs indicates the zone probably pinches out on the east (approximately 41 + 70 on the geophysical grid). The zone is open to the west and averages 20 feet in width along its strike. At the far west end of the island the pyrite-rich zone is displaced slightly to the south. The displacement may be the result of a minor flexure or fault. The persistence to depth of the pyrite-rich zone is verified by only one hole. Drill hole MC 75-3 intersected the zone approximately 200 feet below surface where it is 20 feet in horizontal width.

GOLD MINERALIZATION

The present diamond drilling program revealed gold-bearing rocks in two locations on the claim group. The main zone of gold mineralization is associated with the pyrite-rich zone on the west end of East Island. A less important gold-bearing zone occurs within the shear zone on the south shore of Hay Island.

East Island Gold-Bearing Zone

The gold mineralization on East Island lies within the pyrite-rich zone. Only two drill holes of the present drilling program intersected gold-bearing rocks. Drill hole MC 75-5 intersected the gold-bearing zone 70 feet below the No. 1 trench.

Assays revealed an average of 0.13 oz. of gold/ton over 15 feet. Drill hole MC 75-3 intersected the zone 70 feet west of the No. 1 trench and 200 feet below the surface. The zone yielded 0.33 oz. of gold/ton over five feet. Drill hole MC 75-6 intersected the pyrite-rich zone 100 feet above the MC 75-3 hole intersection and drill hole MC 75-7 intersected strong pyrite mineralization about 80 feet west of the MC 75-6 intersection and at about the same depth. In both cases the pyrite-rich zone was low in gold.

The dimensions and attitudes of the gold-bearing zone duplicate those of the pyrite-rich zone with the exception of strike length which reached only about 150 feet. The zone of gold mineralization apparently pinches out on the east along with pyrite-rich zone. To the west, near surface, the gold-bearing zone terminates at the end of the island. The drop in gold content of the pyrite-rich zone near surface occurs in the vicinity of the zone's slight southerly displacement. The displacement, or cause of it, may have acted as a barrier to the gold mineralization.

The gold-bearing zone apparently does not plunge to the east as it was not intersected in drill holes MC 75-1 and 2. The zone may be plunging westward as the pyrite-rich zone was intersected at depths of about 100 feet and 200 feet below the surface off the west end of the island (MC 75-3 and 6) with only the lower intersection yielding significant gold values.

Gold-Bearing Zone - Hay Island

Drill hole MC 75-4 intersected a narrow zone yielding 0.21 over five feet (three feet true horizontal width). Surface chip samples taken by MacCormack (1974) in the vicinity of the surface expression of the shear zone yielded 0.017 oz. of gold/ton over 20 feet at one location and 0.035 oz. of gold/ton over 20 feet at another location. The low surface assay results combined with the narrow gold-bearing intersection at depth within the shear zone are not encouraging.

The gold mineralization in drill hole MC 75-4, occurs in a very siliceous felsic to intermediate tuff and lappili tuff that contains 1 to 2% pyrite. Similar zones occur elsewhere in the hole but gold mineralization does not accompany them.

PRESENT DRILL PROGRAM STATISTICS

All drill holes were collared on the ice resulting in an approximate collar elevation of 1106± feet (Rowan Lake Topographic Sheet). Drill hole collar locations were spotted using the geophysical grid. The statistical data and results of the holes drilled are as follows:

MC 75-1

Collar Location: 2 + 70N - 41 + 06E Azimuth: 170°
 Angle @collar : -54°
 @185 feet: -43°
 @357 feet: -24°
 Total Depth : 357 feet Cased to: 72 feet
 Results : All sections of core assayed indicated no gold present.

MC 75-2

Collar Location: 2 + 85N - 42 + 10E Azimuth: 170°
 Angle @collar : -56°
 @326 feet: -29.5°
 Total Depth : 336 feet Cased to: 45 feet
 Results : All sections of core assayed indicated no gold present.

* MC 75-3

Collar Location: 2 + 40N - 41 + 00E Azimuth: 170°
 Angle @collar : -54°
 @87 feet : -48.5°
 @331 feet: -24°
 Total Depth : 331 feet Cased to: 87 feet

Results: : A five foot section from 296.0 feet to 301.0 feet yielded 0.33 oz. of gold/ton. The rock was a fairly siliceous felsic lapilli tuff with 5% to 10% pyrite. Local pyrite concentrations reached 20%.

* MC 75-4 (HAY ISLAND)

Collar Location: 6 + 90S - 8 + 75W Azimuth: 010°
Angle at collar: -57°
@332 feet: -48.5°
Total Depth : 320 feet Cased to: 63 feet
Results : A narrow gold-bearing zone was intersected in sheared, siliceous, felsic and felsic to intermediate lapilli tuffs. The zone, 231.0 feet to 236.0 feet, assayed 0.21 oz. of gold/ton.

* MC 75-5

Collar Location: 1 + 10N - 41 + 00E Azimuth: 170°
Angle @collar : -48.5°
@265 feet: -16.5°
Total Depth : 276 feet Cased to: 14 feet
Results : A gold-bearing zone averaged 0.13 oz. of gold/ton and was intersected from 87.5 feet to 102.5 feet, approximately 70 feet below the old No. 1 trench. The rock was a fairly siliceous felsic lapilli tuff which averaged 10-15% pyrite.

MC 75-6

Collar Location: 1 + 00S - 40 + 55E Azimuth: 350°
Angle @collar : -50°
@195 feet: -31.5°
Total Depth : 195 feet Cased to: 19 feet
Results : A siliceous pyritiferous zone was intersected from 107.0 feet to 134.0 feet. The best assay results averaged 0.026 oz. of gold/ton over 15 feet from 122 feet to 137 feet.

MC 75-7

Collar Location: 1 + 00S - 40 + 55E Azimuth: 310°
 Angle @collar : -50°
 @190 feet: -40°
 Total Depth : 190 feet Cased to: 19 feet
 Results : A zone similar to that encountered in hole
 MC 75-6 was intersected from 151 feet to 190
 feet. Assay returns did not exceed 0.02 oz.
 of gold/ton with most results being nil gold.

CONCLUSIONS

A total of seven diamond drill holes totalling 2,016 feet of AQ drilling were completed in the vicinity of known gold occurrences on claims of the Martin Option-Crow Lake Joint Venture. Six holes were drilled on a gold zone known since 1944 on the west end of East Island and one hole was drilled through the shear zone on the south shore of Hay Island.

Rock types encountered in the drilling consist predominantly of intermediate to felsic tuffs and lapilli tuffs. A sequence of narrow basaltic dikes were intersected in the drilling near the west end of East Island. The volcanic pyroclastic rocks are sericitized and carbonatized and to a lesser extent silicified and chloritized.

Pyrite mineralization averaging almost 1% is ubiquitous to all the rock types encountered in the drill core. The pyrite occurs as finely disseminated grains and pyrite-rich bands in tuffaceous material. Local concentrations of 2% to 3% pyrite over several meters is not uncommon.

A pyrite-rich zone is present beneath the west end of East Island. It consists of pyrite concentrations averaging 10% in slightly siliceous intermediate to felsic lapilli tuffs. Small subhedral to euhedral amphibole crystals and sugary white

Y. A. MARTIN
D GOLD SHOWING
AKAGI LAKE
MINING DIVISION ONT.

K.33327

1'-20"

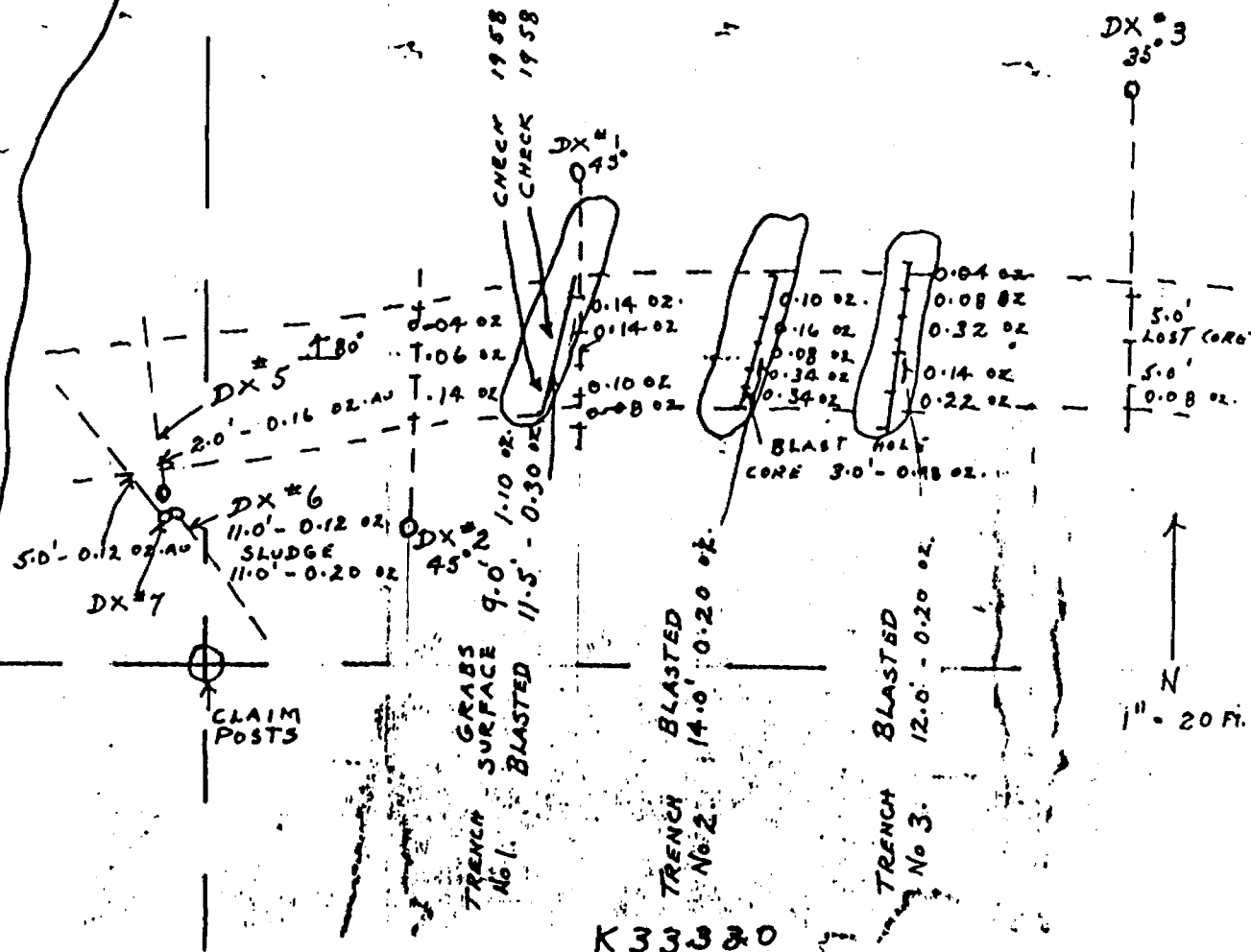
ISLAND					
K 32009	K 32062	K 30926	K 33327	K 33329	K 31993
K 31991	K 30925	K 33328	K 33330	K 31994	
SHEARING PANS GOLD IN RUST					
K 32000	K 31998	K 31996	K 31995		

KAKAGI LAKE

K.33329

NOTE
X RAY CORE RECOVERY
LESS THAN 50% IN ZONE

DX #3
35° 3'



quartz are commonly associated with the pyrite zone. The pyrite zone strikes 080° and dips approximately 80° to 85° northward. The zone appears to pinch out at the east end but is open to the west. It is at least 240 feet in length, approximately 20 feet wide near surface and was intersected 200 feet below surface in drill hole No. MC 75-3. *

The pyrite-rich zone is gold-bearing. Past and present work indicate that a gold-bearing zone approximately 150 feet long and 20 feet wide occurs within the pyrite-rich zone. The extent of the gold-bearing zone has been verified to a depth of 200 feet below the surface in one drill hole (MC 75-3). At this depth the gold-bearing zone is less than five feet thick. + 5' + 3' FROM DRILL SECTION

A narrow gold-bearing zone was intersected in the shear zone on the south shore of Hay Island. This zone is not considered to be of significant width.

The present drill program has better delineated the East Island gold-bearing zone. Further diamond drilling would be necessary to establish the zone's parameters, as well as to determine grade and tonnage figures. The size and grade of the gold mineralization encountered to date, however, is not encouraging.

RECOMMENDATIONS

Evaluation of the results from the recent diamond drilling program, combined with previous drilling, does not justify any further exploration work on the joint venture claims.

Submitted by,

Glen W. Adams

Glen W. Adams,
Exploration Geologist,
Western Ontario Division.

BIBLIOGRAPHY

MacCormack, L.V., 1974, Report on Geological Survey of Roy Martin claim group Kakagi (Crow) Lake, Kenora Mining Division, Newconex Canadian Exploration Limited, Company Report.

Rowan Lake Sheet, 1970, Lands and Surveys Branch, Ontario Department of Lands and Forests, Scale: 1" = 2 miles.



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SUMMARY REPORT
DIAMOND DRILLING PROGRAMME
AND
GEOCHEMICAL REPORT
CROW (KAKAGI) LAKE GOLD PROSPECT
MARTIN OPTION
KENORA MINING DIVISION
NTS 52F-4

RECEIVED

AUG 17 1983

MINING LANDS SECTION

April 20, 1983
Vancouver, B.C.

By: R. M. Blais, P.Eng.



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Appendixes

A References

- B Summary Report for Noranda Exploration Ltd.,
Diamond Drilling Programme, Martin Option,
Crow Lake Joint Venture, including updated drill
logs and cross sections of holes 1 to 7.
(Dwgs. No. 83-009 - 83-014)
- by G. W. Adams, 1975

C Plans and Cross Sections 1983 Drilling Programme

- 83-001 Geology and Diamond Drill Hole Plan 1" = 200'
83-002 Lake Sediment Sampling and Depth of
 Lake Water Plan 1" = 200'
83-003 Section 69+42 E DDH 8 & 9 1" = 40'
83-004 Section 16+50 E DDH 10 1" = 40'
83-005 Section 28+86 E DDH 11 1" = 40'
83-006 Section 82+00 E DDH 12 1" = 40'
83-007 Section 60+80 E DDH 13 1" = 40'
83-008 Section 42+00 E DDH 14 1" = 40'

D Summary of Diamond Drill Hole Locations

Holes 1 to 7, 1975

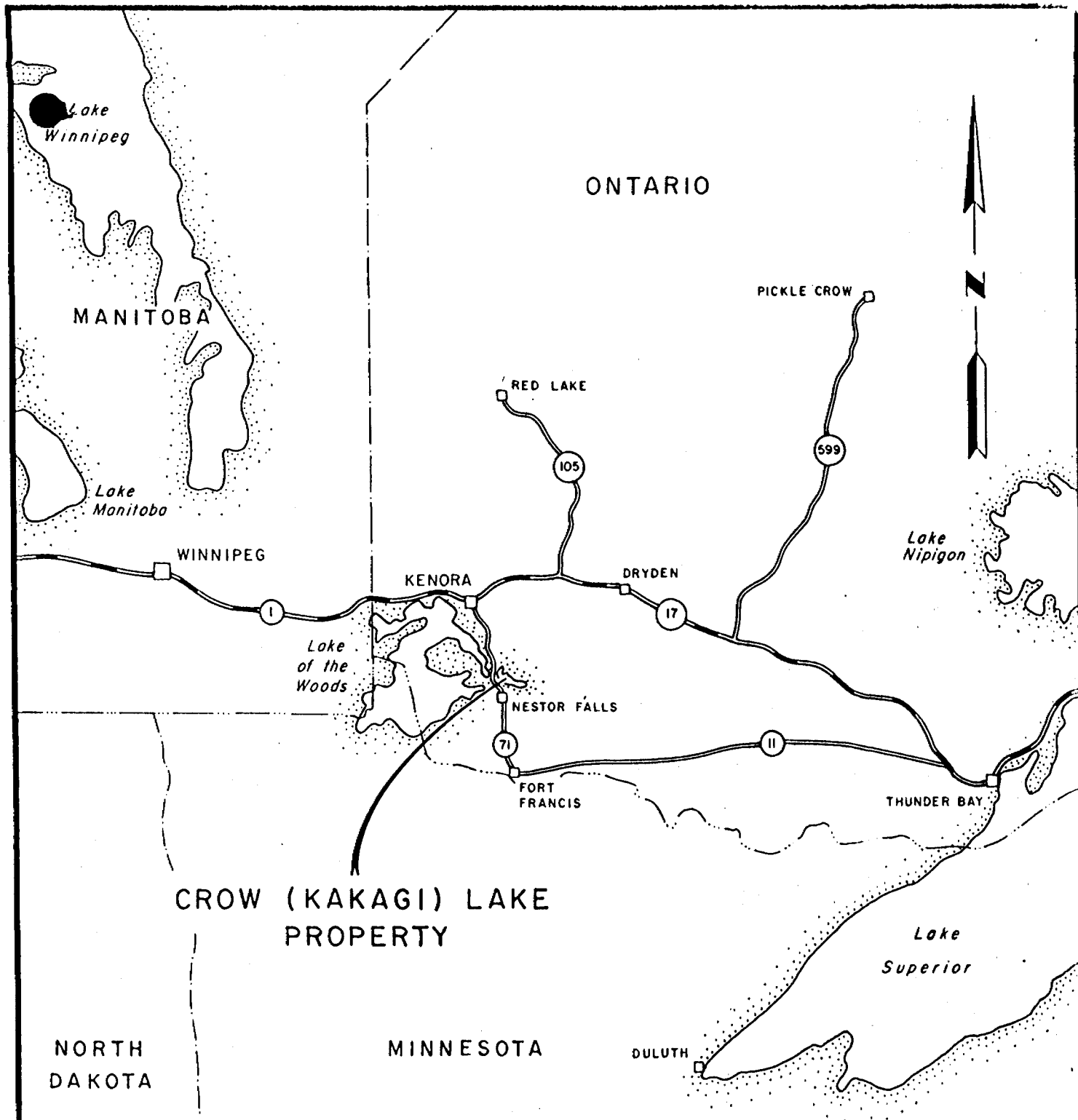
and

Holes 8 to 14, 1983

E Diamond Drill Hole Logs - 1983.

F Geochemical Assay Certificates

- Lake Sediment Samples (see folder)



BARRIER REEF RESOURCES LTD.

LOCATION MAP
CROW (KAKAGI) LAKE
GOLD PROSPECT

KENORA MINING DIVISION, ONTARIO.

Tech. Work by : R M. Blois

Scale : 1 inch = 64 miles

Date : April, 1983

Figure No 1

Introduction -

Barrier Reef Resources Ltd. of Vancouver, B.C. optioned the Crow (Kakagi) Lake Gold Prospect from Roy Martin in the fall of 1982. Crow Lake is located near Nestor Falls, Ontario, in the Kenora Mining district. Exploration work was planned to test an extensive zone of sheared and mineralized volcanoclastic rocks for a large tonnage gold deposit.

In early January, 1983, additional claims were staked by Barrier bringing the claim group total to 97 unpatented mining claims. Later in the month a grid was established for drilling control and a lake bottom survey.

From February 9, 1983, to March 6, 1983, seven drill holes totalling 3877 feet were drilled in the vicinity of known gold occurrences on East Island and Hay Island. Holes were drilled on the islands and on the ice surface of the lake in maximum water depths of 105 feet.

Drilling was contracted to Canadian Longyear of North Bay, Ontario. All BQ wireline core from this programme is stored in a core shack located at Lakeview Camp (owner Ray Haggberg).

Summary and Conclusions

During the winter of 1982-83 Barrier Reef Resources tested an east-west trending zone of gold mineralization on the bottom of Crow (Kakagi) Lake in the vicinity of East and Hay Islands. Seven holes totalling approximately 3900 feet were drilled at average intervals of 1000 feet along the apparent strike of the favourable formation.

A more or less continuous zone with an average true thickness of 100 feet and an average gold concentration of 300 parts per billion was outlined along a strike length of 6500 feet. The best section averaged .03 oz/T over a width of 48 feet including seven feet of .10 oz/T. The gold bearing unit is a near vertical bed of felsic to rhyolitic lapilli tuff containing up to 25% banded and disseminated pyrite.

These results do not represent material of commercial grade but indicate a geologically important structure which appears to extend along a seven and one-half mile strike length from Chase Point Peninsula eastward to within one mile of Otterskin Lake.

The mineralization is generally similar in character to auriferous volcanic sediments which occur in the Detour Lakes, Hemlo and Val d'Or Districts, suggesting potential for a large Tonnage gold deposit at some point along the projected strike of the gold bearing unit.

Continued exploration work is required to test this extensive geological target.

Location, Access and Geography

The property is located in northwestern Ontario about 50 miles southeast of Kenora and about 42 miles north of Fort Francis on the International Boundary. The Village of Nestor Falls on Provincial Highway #71 lies about 11 miles southwest of the claim block. The claims cover a series of islands and peninsulas near the east end of Kakagi Lake.

Access is by road from either Winnipeg (five hours) or from Kenora to the west end of Kakagi Lake and then by boat for approximately 10 miles to the center of the claims. During the winter of 1982-83 access to claims was by ice road from Lakeview Camp located on Highway #71 north of Nestor Falls.

About 60% of the property is covered by water; elevation of the lake surface is approximately 1100 feet a.s.l. Topography is typical of low, rolling shield country, maximum relief being in the order of 150 feet with a dense growth of scrubby spruce interspersed with willows and alder.

Exploration History

Gold was discovered on the west end of East Island by Noranda Mines prospectors in August, 1944. Three trenches were reported as follows:

Trench No. 1	0.30 oz. Au over 11.5 feet
Trench No. 2	0.16 oz. Au over 14 feet
Trench No. 3	0.15 oz. Au over 18 feet

In 1973 the area was mapped by the Ontario Department of Mines and two samples taken from a rusty schist zone on Hay Island, about 5000 feet west of the original discovery, returned values of 0.04 oz. Au and 0.34 oz. Au.

In 1974 the property was optioned by Roy Martin to a joint venture consisting of Noranda, Newconex and Tombill Mines. Geological mapping was carried out during the summer of 1974. Geophysical surveys and a diamond drilling programme was completed during February and March 1975. Seven holes, totalling 2016 feet were drilled; six of these at the East Island showings and one at the Hay Island occurrence.

In February and March of 1983 Barrier Reef Resources drilled seven holes totalling 3877 feet along an east-west trending zone 6500 feet in length which included Hay Island, East Island and the intervening lake bottom.

A survey was carried out to detail the Topography

of the lake bottom and to recover lake sediment samples which were analysed for gold and arsenic.

Mining Claims in Martin Agreement

The Martin Agreement claims consist of 97 contiguous unpatented mining claims as Follows:

<u>Claim Numbers</u>	<u>No. of Claims</u>	<u>Expiry Date</u>
K 365049, K 365050 (200 days work completed. Waiting final approval of Legal Survey). Extending time for applying and paying for lease.	2	February 24, 1984
K 590290 (surveyed unpatented mining claim. Old # K 313947)	1	July 27, 1983
K 590291 - K 590299 incl.	9	July 27, 1983
K 590618 - K 590623 incl.	6	October 22, 1983
K 590624 - K 590644 incl.	21	October 28, 1983
K 590732 - K 590749 incl.	18	November 12, 1983
K 590652 - K 590659 incl.	8	November 12, 1983
K 638401 - K 638419 incl.	19	January 26, 1984
K 638473 - K 638485 incl.	13	January 26, 1984
Total	<u>97</u>	

These claims are registered in the name of Francis Resources Ltd. of 904 - 675 West Hastings Street, Vancouver, B.C.

General Geology

The general area of Kakagi Lake is underlain by a complex assemblage of mafic to felsic metavolcanic and metasedimentary units which are locally intruded by differentiated basic to ultrabasic sills. All units are strongly affected by large scale, east trending, tight isoclinal folds which plunge north to north-northeast. Shearing is common and faulting is widespread.

On the subject claim block, felsic volcanics are by far the most abundant rock type. An east trending lense of intermediate to basic volcanics is found on the west part of the large island immediately north of Hay Island. In addition similar rocks occur in an east-northeasterly trending band near the east end of the property. Areas of metamorphosed mafic to ultramafic intrusive rocks are found on the island north of Hay Island.

Shearing is common on the property. Recent mapping by the Ontario Department of Mines has outlined a strong zone of shearing and deformation extending from Hay Island, through East Island to the mainland, a distance of about three miles. The two presently known gold showings are located in this zone of deformation and a third showing, just outside the property boundary, lies on strike with the first two, approximately 2.5 miles east of the East Island and a mile west of Otterskin Lake. A fourth showing is located on strike approximately four

miles west of the Hay Island occurrence in the vicinity of Blacky Bay on Chase Point Peninsula.

Associated with the shear zone and gold showings are a series of felsic, quartz and feldspar porphyry sills. They appear intermittently along the shear zone and are metamorphosed to about the same degree as their volcanic host rocks.

Geology of the Gold Bearing Zone

The 1983 drilling programme explored an east-west strike length of 6500 feet across a maximum width of 1000 feet. Most of this area is covered by lake water and the geological interpretation is based on drill core. (See Geology and Diamond Drill Hole Plan appended.)

The explored area is underlain by an assemblage of Archean volcanoclastic rocks. Low grade metamorphism has produced textures varying from weak foliation with stretched fragments to strongly foliated schist bands. The average strike is N 85° E with dips of 85° N to 90°. The isoclinal fold pattern is not well known so the local stratigraphic top and bottom has not been determined.

The volcanic sequence is divided into two parts; a group of intermediate tuffs and lapilli tuffs (IF) to the north and a group of felsic tuffs and lapilli tuffs (FF) to the south. There are textural and compositional variations in the detailed foot by foot stratigraphy of both units, however the overall contrast is well defined, particularly in the more rhyolitic parts of the Felsic group.

Within the Felsic group, immediately adjacent to the Intermediate contact, is located a gold bearing zone approximately 200 feet in average thickness. The richest part of this zone carries 300 ppb gold over an average

thickness of 100 feet. It is composed of felsic to rhyolitic clastic material sparsely flecked with fuchsite mica and up to 25% banded and disseminated pyrite.

A band of Quartz Sericite Schist (QSS) also follows that part of the Felsic group immediately adjacent to the intermediate sequence. The schist band appears to be structurally controlled and partly overprints itself on the gold bearing unit.

An apparently concordant sill which has been called "Quartz Feldspar Porphyry" (QFP) appears intermittently along the gold bearing zone. It has a coarse granitic texture, composed of K-feldspar, Quartz and Hornblende. It is well altered and can only be seen plainly in hole #9. Elsewhere it is broken down by metamorphism to quartz-sericite schist with a spotted amphibole texture noted in the drill logs as "remanent QFP".

The gold bearing zone appears to be a bed of volcanic-sedimentary material identifiable principally by its gold and pyrite content.

Previous Drilling

In 1944 Noranda bored six x-ray diamond drill holes on East Island and in 1975 seven holes, numbered 1 - 7, totalling 2016 feet. A description of this work is contained in a report by G. W. Adams which is appended.

1983 Drilling Results

The geological and assay results from the 1983 drilling are summarized on the Geology and Diamond Drill Hole Plan and are presented in detail on the cross sections and drill logs which are appended.

In general core recoveries and rate of advance were very good. Some difficulties were encountered due to unusually thin ice conditions (maximum 16 inches) caused by mild winter weather.

A summary comment on each drill hole is as follows:

DDH-#8 - Dip - 45° @ 170° Az.
- Location 69+60 E 1+50 N
- Depth 46 feet.

Lost hole due to thin ice.

DDH-#9 - Dip - 56° @ 350° Az.
- Location 69+42 E 0+98 S
- Depth 406 feet

The gold bearing zone was encountered from 155 feet to 225 feet with an average gold concentration of 1025 ppb over a true thickness of 48 feet. The zone is composed of quartz-sericite schist with 15 to 25% pyrite. The walls of the zone are felsic tuff and lapilli tuff.

DDH-#10 - Dip -45° @ 350° Az.

- Location 16+50 E 2+32 N

- Depth 586 feet

The gold bearing zone was intersected from 60 feet to 475 feet. The best continuous section averaged 214 ppb Au across a true thickness of 80 feet. This mineralized zone is composed of very siliceous felsic tuff and lapilli tuff with 10 to 15% pyrite and quartz sericite schist with 5 to 10% pyrite.

DDH-#11 - Dip -45° @ 170° Az.

- Location 28+86 E 6+19 N

- Depth 1077 feet

Hole #11 intersected the gold bearing zone from 460 feet to 855 feet. The best continuous section averaged 212 ppb Au over a true thickness of 207 feet. The best single assay was 3200 ppb across 3.5 feet. The zone is composed of alternating bands of felsic to intermediate tuff and lapilli tuff containing 5 to 10% pyrite and quartz sericite schist with 2 to 6% pyrite.

DDH-#12 - Dip -45° @ 170° Az.

- Location 82+00 E 2+70 N

- Depth 540 feet

The gold bearing zone was encountered from 385 feet to the end of the hole at 540 feet. The best continuous section was from 385 to 465 feet averaging 378 ppb Au over a true width of 65 feet. The mineralized unit consists of siliceous felsic and intermediate tuff with 5 to 8% pyrite. The best single assay in this hole was 2800 ppb Au over a true width of 3.5 feet.

DDH-#13 - Dip -45° @ 170° Az.

- Location 60+80 E 3+00 N

- Depth 566 feet

Gold bearing felsic tuff and lapilli tuff was intersected from 440 feet to 566 feet. The average gold concentration was 170 ppb Au over a true thickness of 108 feet. The best assay was 925 ppb Au over 3.5 feet. Pyrite content ranged from 1 to 8%.

DDH-#14 - Dip -45° @ 170° Az.

- Location 42+00 E 8+00 N

- Depth 656 feet

Hole #14 was lost due to casing not being adequately collared in bedrock on lake bottom.

Assay Procedures

All drill core suspected to be gold bearing was routinely split and sampled in 5 foot sections and analysed for gold and silver using geochemical procedures by the atomic absorption method. Where gold concentrations approaching possible commercial grades were detected, samples were re-analysed by atomic absorption assay procedures. All of this analytical work was carried out by Acme Analytical Laboratories in Vancouver, B.C. Check assays of crushed rejects by the fire assay method were carried out at Chemex Labs in North Vancouver, B.C.

The following is a table comparing the results of geochemical analysis with the two assay procedures in Drill Hole #9:

Sample No.	From	To	AA Au ppb Geochem Acme	AA Au ppb Assay Acme	FA Au ppb Fire Assay Chemex
85219	180'	185'	4,500	2,379	2,690
85220	185'	190'	785	828	621
85221	190'	195'	135	207	345
85222	195'	200'	105	138	345
85223	200'	205'	1,500	1,586	2,483
85224	205'	210'	1,700	1,690	4,483
85225	210'	215'	3,600	2,517	2,414
85226	215'	220'	975	1,103	1,310

Lake Bottom Survey

The depth of lake water was determined by plumb line soundings on a 200 foot by 200 foot grid between Hay and East Islands. At each sounding point a sample of lake bottom sediment was taken and analysed for gold and arsenic. The lake sediment has a known maximum thickness of 35 feet and is composed of grey silty clay probably of glacial origin. As anticipated, the background levels and range of values for gold and arsenic concentration are very low. One weak east-west arsenic trend was noted off the NW end of Hay Island. The significance of this is uncertain. Gold and arsenic concentration for each sample point as well as water depth are plotted on the Lake Sediment Sampling and Depth of Water Plan @ 1 inch equals 200 feet enclosed in the appendix.

Recommendation

It is recommended that a programme of surface geological mapping and geochemical rock sampling be carried out on the islands and mainland between Chase Point Peninsula and Otterskin Lake during the summer of 1983. This should be followed in the early winter of 1983 by a drilling programme to test the strike projection of the gold bearing zone. Particular emphasis should be placed on exploration of the area east of Hay Island including the gold prospect on four claims held by Bob Fairservice to the west of Otterskin Lake.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "R. M. Blais".

R. M. Blais, P.Eng.

April 20, 1983

APPENDIX 'A'

References

- Martin, Roy Various private files of Roy Martin.
- MacCormack, L. V. (1974): Report on Geological Survey of the Roy Martin Claim Group, Kakagi Lake, Kenora Mining Division, Ontario; Private report to Noranda Mines Ltd.
- Adams, G. W. (1975): Summary Report, Diamond Drilling Programme, Martin Option - Crow Lake Joint Venture, Kenora Mining Division, Ontario - Private Report to Noranda Mines Ltd.
- Edwards, G. R. (1975): Geology of the Schistose Lake Area, Dist. of Kenora; Ontario Geological Survey Report #194.
- Kay, L. (1974): Crow Lake Area (Eastern Part). Dist. of Kenora; Ontario Div. Mines Prelim. Map p 921 Geol. Series.
- Dawson, J. M. (1982) Report on the Kakagi Gold Prospect, Kenora Mining Division, Ontario for Barrier Reef Resources Ltd.
- Clark G. Kenora area mineral potential sponsored by: Tri-Municipal Economic Development Commission compiled by: Mining Sector Work Program Staff
Editor: G. Clark.
Assessment Record Files, Resident Geologist Office, Kenora Mining Division Kenora, Ontario.
- Beard, R. C. Gold Deposits of Kenora-Fort Francis Area, Districts of Kenora and Rainy River
Garratt, G. L. by
Richard C. Beard and Glen L. Garratt
Mineral Deposit Circular 16, 1976
Ministry of Natural Resources.

APPENDIX 'B'

Summary Report for Noranda Exploration Ltd.,
Diamond Drilling Programme, Martin Option,
Crow Lake Joint Venture, including updated
drill logs and cross sections of holes 1 to 7.

(Dwgs. No. 83-009 - 83-014)

- by G. W. Adams, 1975

(See Folder)

APPENDIX 'C'

Plans and Cross Sections 1983 Drilling Programme

83-001	Geology and Diamond Drill Hole Plan	1" = 200'
83-002	Lake Sediment Sampling and Depth of Lake Water Plan	1" = 40'
83-003	Section 69+42 E DDH 8 & 9	1" = 40'
83-004	Section 16+50 E DDH 10	1" = 40'
83-005	Section 28+86 E DDH 11	1" = 40'
83-006	Section 82+00 E DDH 12	1" = 40'
83-007	Section 60+80 E DDH 13	1" = 40'
83-008	Section 42+00 E DDH 14	1" = 40'

APPENDIX 'D'

DSummary of Diamond Drill Hole Locations
Holes 1 to 7 (1975)

<u>DDH MC 75-1</u>	Dip -54°	Azimuth 170°
Collar Location:	70+37 East 2+39 North	Elevation 1106'
Casing 72'	Total Depth 357' AQ	
<u>DDH MC 75-2</u>	Dip -56°	Azimuth 170°
Collar Location:	71+40 East 2+36 North	Elevation 1106'
Casing 45'	Total Depth 336' AQ	
<u>DDH MC 75-3</u>	Dip -57°	Azimuth 170°
Collar Location:	69+25 East 2+26 North	Elevation 1106' ±
Casing 87'	Total Depth 331' AQ	
<u>DDH MC 75-4</u>	Dip -59°	Azimuth 010°
Collar Location:	19+25 East 2+30 North	Elevation 1106' ±
Casing 63'	Total Depth 332' AQ	
<u>DDH MC 75-5</u>	Dip -48.5'	Azimuth 170' AQ
Collar Location:	70+00 East 0+80 North	Elevation 1106' ±
Casing 14'	Total Depth 275' AQ	
<u>DDH MC 75-6</u>	Dip -50°	Azimuth 350°
Collar Location	69+20 East 1+25 South	Elevation 1106' ±
Casing 19'	Total Depth 195' AQ	

Appendix "D" continued

<u>DDH MC 75-7</u>	Dip -50°	Azimuth 310°
Collar Location:	68+40 East 1+25 South	Elevation 1106' $\pm$

Casing 19' Total Depth 190' AQ

Holes 8 to 14 (1983)

DDH-8 Dip -45° @ 170° Az.

Collar Location: 69+60 East Elevation 1106' $\pm$
 1+50 North

Casing 35' Total Depth 46' BQ

DDH-9 Dip -56° @ 350° Az.

Collar Location: 69+42 East Elevation 1109.0'
 0+98 South

Casing 10' Total Depth 406' BQ

DDH-10 Dip -45° @ 350° Az.

Collar Location: 16+50 East Elevation 1107.7'
 2+32 North

Casing 7' Total Depth 586 ' BQ

DDH-11 Dip -45° @ 170° Az.

Collar Location: 28+86 East Elevation 1111.7'
 6+19 North

Casing 10' Total Depth 1077' BQ

DDH-12 Dip -45° @ 170° Az.

Collar Location: 82+00 East Elevation 1107.6'
 2+70 North

Casing 11' Total Depth 540' BQ

Appendix 'D' continued

DDH-13

Dip - 45° @ 170° Az.

Collar Location: 60+80 East Elevation 1107.5'
3+00 North

Casing 229' Total Depth 566' BQ

DDH-14

Dip - 45° @ 170° Az.

Collar Location: 42+00 East Elevation 1107.1'
8+00 North

Casing 173' Total Depth 656' BQ

APPENDIX 'E'

Diamond Drill Hole Logs - 1983

(See Folder)



CHEMEX LABS LTD.

MAR 16 1983

212 BROOKSBANK AV
NORTH VANCOUVER, B
CANADA V7J 2

TELEPHONE: (604) 984-02
TELEX: 043-525

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

*** INVOICE ***

To : BARRIER REEF RESOURCES LIMITED

** Invoice # : 18310618

904 - 675 W. HASTINGS STREET
VANCOUVER, B.C.
V6B 1N2

Date : 14-MAR-83
P.O. # : NONE
Project FILE 83-0171

Invoice for analytical work reported on certificate(s) A8310618-001

Quantity	Analysed for code description	unit price	amount
8	383 - Ag FA oz/T		
	396 - Au FA oz/T	10.00	80.00

Sample preparation and other charges :

8	207 - Assay - PULVERIZE	3.75	30.00
---	-------------------------	------	-------

TOTAL \$ 110.00

Please pay this amount ----> \$ 110.00

TERMS -- NET 30 DAYS

1.5 % per month (18 % per annum) charged on overdue accounts

RECEIVED

MAR 11 1983

MINING LANDS SECTION

COPY TO

11-11-83

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Mar 11/83



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CANADIAN TESTING
ASSOCIATION

ACME ANALYTICAL LABORATORIES LTD.

PHONE: 253-3158

852 Ea. Hastings St., Vancouver, B.C. V6A 6

File: 83-0093

Date: Feb. 9, 1983

Barrier Reef Resources Ltd.,
904 - 675 W. Hastings St.,
Vancouver, B.C.
V6B 1N2

TERMS:
NET-TWO WEEKS
2% PER MONTH CHARGED ON
OVERDUE ACCOUNTS.

NUMBER	ASSAY	PRICE	AMOUNT
	Project : Crow Lake		
94	Ag (Geochem) assays @	\$1.85	\$173.90
94	Geochem Au assays @	3.75	352.50
94	Core sample preparations @	2.50	235.00
			\$761.40
COMPANY <u>BAF</u> PROJECT <u>K</u> ACCT. No. <u>5120</u> APPROVED <u>[Signature]</u> EXTENSIONS <u>\$761.40</u> INVOICE No. <u>2328</u> <u>Feb 28/83</u> <u>[Signature]</u> <u>LIST-K</u>			

PLEASE PAY LAST AMOUNT →

ACME ANALYTICAL LABORATORIES LTD.

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File: 83-0171

Date: Mar. 1, 1983

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Barrier Reef Resources Ltd.,
904 - 675 W. Hastings St.,
Vancouver, B.C.
V6B 1N2

TERMS:
NET TWO WEEKS
2% PER MONTH CHARGED ON
OVERDUE ACCOUNTS.

NUMBER	ASSAY	PRICE	AMOUNT
	Project : Crow Lake		
88	Geochem Ag assays @	\$1.85	\$162.80 ✓
88	Geochem Au assays @	3.75	330.00 ✓
88	Cores sample preparations @	2.50	220.00 ✓
			\$712.80 ✓

COMPANY BAF

PROJECT (K)

ACCT. No. 512

APPROVED [Signature]

EXTENSIONS \$712.80

VOUCHER No. 2358

DATE PAID Mar 8/83

PLEASE PAY LAST AMOUNT →

ACTIVE ANALYTICAL LABORATORIES LTD.

PHONE: 253-3158

852 E. Hastings St., Vancouver, B.C. V6 2G6

File: 83-0213

Date: March 11, 1983

Barrier Reef Res. Ltd.,
904 - 675 W. Hastings St.,
Vancouver, B.C.
V6B 1N2

TERMS:
NET TWO WEEKS
2% PER MONTH CHARGED ON
OVERDUE ACCOUNTS.

Project : Crow Lake Project

NUMBER	ASSAY	PRICE	AMOUNT
153	Geochem Ag @	\$1.85	\$ 283.05
153	Geochem Au @	\$3.75	\$ 573.75
3	Au assay @	\$6.50	\$ 19.50
153	Core sample preparations @	\$2.50	\$ 382.50
			\$1258.80

BAF
K
512
H
\$1323.80
2365
Mar 14/83

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33-3158

852 E. Hastings St., Vancouver, B.C. V6 R6

File: 83-0171 (Re-run)

Date: Mar. 8, 1983

Barrier Reef Res. Ltd.,
904 - 675 W. Hastings St.,
Vancouver, B.C.

TERMS:

NET TWO WEEKS
2% PER MONTH CHARGED ON
OVERDUE ACCOUNTS.

NUMBER	ASSAY	PRICE	AMOUNT
10	Project : Crow Lake Au assays @	\$6.50	\$65.00

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ACME ANALYTICAL LABORATORIES LTD.

E: 253-3158

852 Ea. Hastings St., Vancouver, B.C. V6A 46

File: 83-0257

Date: Mar. 24, 1983

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MAR 25 1983

Barrier Reef Res. Ltd.,
904 - 675 W. Hastings St.,
Vancouver, B.C.

TERMS:

NET TWO WEEKS
2% PER MONTH CHARGED ON
OVERDUE ACCOUNTS.

NUMBER	ASSAY	PRICE	AMOUNT
	Project : Crow Lake - Ontario		
96	Geochem Ag assays @		
96	Geochem Au assays @	\$1.85	\$177.60
96	Core sample preparations @	3.75	360.00
1	Au assays @	2.50	240.00
		6.50	6.50
			\$784.10

COMPANY BAF
PROJECT K
512
2645.50
VOLUME 2384
DATE PAID Mar 28/83

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852 East Hastings St., Vancouver, B.C. V6A 1G6

File 83-0247

Date Mar. 22, 1983

Barrier Reef Res. Ltd.,
904 - 675 W. Hastings St.,
Vancouver, B.C.
V6B 1N2

TERMS:
NET TWO WEEKS
2% PER MONTH CHARGED ON
OVERDUE ACCOUNTS

NUMBER	ASSAY	PRICE	AMOUNT
	Project : Crow Lake		
134	Geochem Ag assays @	\$1.85	\$247.90
134	Geochem Au assays @	3.75	502.50
134	Core sample preparations @	2.50	335.00
			\$1085.40

Handwritten signature and stamp:
#1361.40

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TERMS:
NET TWO WEEKS
2% PER MONTH CHARGED ON
OVERDUE ACCOUNTS.

ASSAY		PRICE	AMOUNT
NUMBER			
	Project : Crow Lake - Ontario		
95	Geochem Ag assays @	\$1.85	\$175.75
95	Geochem Au assays @	3.75	356.25
95	R Core sample preparations @	2.50	237.50
1	Au assays @	6.50	6.50
			\$776.00

COMPANY

PROJECT

ACCT. No.

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VOUCHER No.

DATE PAID

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File: 83-0341

Date: Apr. 12, 1983

APR 15 1983

Barrier Reef Resources Ltd.,
904 - 675 W. Hastings St.,
Vancouver, B.C.
V6B 1N2

TERMS:
NET TWO WEEKS
2% PER MONTH CHARGED ON
OVERDUE ACCOUNTS.

NUMBER	ASSAY	PRICE	AMOUNT
	Project : Crow Lake		
6	Geochem Ag assays @	\$1.85	\$11.10 -
6	Geochem Au assays @	3.75	22.50 -
6	Core sample preparations @	2.50	15.00 -
			\$48.60 -

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TELEX: 043-52597

CERTIFICATE OF ASSAY

TO : BARRIER REEF RESOURCES LIMITED

904 - 675 W. HASTINGS STREET
VANCOUVER, B.C.
V6B 1N2

CERT. # : A8310618-001-
INVOICE # : 18310618
DATE : 14-MAR-83
P.O. # : NONE
FILE 83-0171

ATTN: MR. REEVE

HOLE #9

Sample description	Prep code	Ag FA oz/T	Au FA oz/T				
85219 (180'-185')	207	0.07	0.078	--	--	--	--
85220	207	0.07	0.018	--	--	--	--
85221	207	0.04	0.010	--	--	--	--
85222	207	0.02	0.010	--	--	--	--
85223	207	0.05	0.072	--	--	--	--
85224	207	0.10	0.130	--	--	--	--
85225 (215'-220')	207	0.06	0.070	--	--	--	--
85226	207	0.04	0.038	--	--	--	--



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To: Barrier Reef Res. Ltd.,
904 - 675 W. Hastings St.,
Vancouver, B.C.
c.c. Westor Falls, Ontario
Project : Crow Lake

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Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

Telephone: 253-3158

File No. 83-0171 (Re-run)

Type of Samples Core

Disposition

ASSAY CERTIFICATE

HELEF 9

No.	Sample	Au oz/ton							No.
1	85218	.005							1
2	85219	.069							2
3	85220	.024							3
4	85221	.006							4
5	85222	.004							5
6	85223	.046							6
7	85224	.049							7
8	85225	.073							8
9	85226	.032							9
10	85227	.009							10
11									11
12									12
13									13
14									14
15									15
16									16
17									17
18									18
19									19
20									20

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DATE SAMPLES RECEIVED Mar. 1, 1983

DATE REPORTS MAILED Mar. 8, 1983

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

phone: 253-3158

To: Barrier Reef Resources
904 - 675 W. Hastings St.,

Vancouver, B.C.

c.c. Nestor Falls, Ontario

Project : Crow Lake

GEOCHEMICAL ASSAY CERTIFICATE

1975 DRILL CORES

83-0093

File No.

Cores

Type of Samples

Disposition

SAMPLE No.	Ag	Au ppb	DDH NO	From	To	SAMPLE LENGTH				
88001	.1	70	1	350'	355'					1
88002	.1	25	1	344	350					2
88003	.2	60	1	337	342					3
88004	.1	160	1	332	337					4
88005	.2	280	1	327	332					5
88006	.2	30	1	322	327					6
88007	.2	35	1	319	322					7
88008	.1	30	1	312	317					8
88009	.1	20	1	307	312					9
88010	.1	5	1	302	307					10
88011	.1	5	1	297	302					11
88012	.1	10	1	293	297					12
88013	.1	5	1	260	262.7					13
88014	.1	5	1	255	259					14
88015	.1	50	1	251	255					15
88016	.2	20	3	226	231					16
88017	.3	70	3	221	226					17
88018	.1	90	3	216	221					18
88019	.1	220	3	210	213.8					19
88020	.2	30	3	205	211					20
88021	.1	20	3	226	231					21
88022	.1	30	3	219	224					22
88023	.1	35	3	212	217					23
88024	.1	20	3	207	212					24
88025	.1	50	3	202	207					25
88026	.2	30	3	197	202	5				26
88027	.4	30	3	192	197	5				27
88028	.3	35	3	187	192	5				28
88029	.9	150	3	184.5	187	5.5				29
88030	.2	40	3	178	178	5				30
88031	.3	50	3	171.5	173.0	1.5				31
88032	.1	110	3	164.5	169.5	5				32
88033	.1	100	3	159.5	164.5	5				33
88034	.1	20	3							34
88035	.1	25	3							35
88036	.1	10	3							36
88037	.2	25	3							37

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Feb. 4, 1983

DATE REPORTS MAILED Feb. 9, 1983

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

To: Barrier Reef Resources,

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

phone: 253 - 3158

83-0093

File No.

Type of Samples Cores

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au ppb										
88038	.1	15	5									1
88039	.6	10	5									2
88040	.3	320	5									3
												4
88041	.4	25	5									5
88042	.2	10	5									6
88043	.3	20	5									7
88044	.2	15	5									8
88045	.1	30	5									9
88046	.1	80	5									10
88047	.3	40	5									11
88048	.2	35	5									12
88049	.3	50	5									13
88050	.2	210	5									14
												15
88051	.2	55	5									16
88052	.3	50	5									17
88053	.1	30	5									18
88054	.3	120	5									19
88055	.2	150	5									20
88056	.2	25	5									21
88057	.1	30	5									22
88058	.1	20	5									23
88059	.2	90	5									24
88060	.2	60	6									25
												26
88061	.2	45	6									27
88062	.1	20	6									28
88063	.2	25	6									29
88064	.1	15	6									30
88065	.1	25	6									31
88066	.3	50	6									32
88067	.1	35	6									33
88068	.1	25	6									34
88069	.4	65	6									35
88070	.2	130	6									36
												37
88071	.3	35	6									38
88072	.2	20	6									39
88073	.1	25	6									40

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All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Feb. 4, 1983DATE REPORTS MAILED Feb. 9, 1983

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

To: Barrier Reef Resources,

83-0093

File No.

Type of Samples Cores

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au ppb											
88074	.2	15	6										1
88075	.3	30	6										2
88076	.5	25	6										3
88077	.6	15	6										4
88078	.5	30	6										5
88079	.2	20	6										6
88080	.2	15	4										7
													8
88081	.3	15	4										9
88082	.4	110	4										10
88083	.4	75	4										11
88084	.3	35	4										12
88085	.5	130	4										13
88086	.4	125	4										14
88087	.2	35	4										15
88088	.7	375	4										16
88089	.2	140	4										17
88090	.1	75	4										18
													19
88091	.2	115	4										20
88092	.2	45	4										21
88093	.1	65	4										22
88094	.1	105	4										23
													24
													25
													26
													27
													28
													29
													30
													31
													32
													33
													34
													35
													36
													37
													38
													39
													40

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Feb. 4, 1983DATE REPORTS MAILED Feb. 9, 1983

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Barrier Reef Res. Ltd.,
904 - 675 W. Hastings St.,
Vancouver, B.C.
c.c. Westor Falls, Ontario

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

phone: 253-3158

Project : Crow Lake

File No. 83-0171

Type of Samples Core

GEOCHEMICAL ASSAY CERTIFICATE

Disposition 1983

F.A. F.A.

SAMPLE No.	Ag	Au ppb	DDH N°	FROM	TO	SAMPLE DEPTH	AU O.P.T.	AU ACME CHECK	AU SWEET CHECK	
85201	.1	50	9	90	95	5	.002			1
85202	.3	40	9	95	100	5	.001			2
85203	.1	30	9	100	105	5	.001			3
85204	.1	90	9	105	110	5	.003			4
85205	.1	35	9	110	115	5	.001			5
85206	.1	25	9	115	120	5	.001			6
85207	.2	20	9	120	125	5	.001			7
85208	.2	50	9	125	130	5	.002			8
85209	.1	25	9	130	135	5	.001			9
85210	.1	20	9	135	140	5	.001			10
										11
85211	.1	20	9	140	145	5	.001			12
85212	.1	45	9	145	150	5	.001			13
85213	.1	40	9	150	155	5	.001			14
85214	.1	415	9	155	160	5	.012			15
85215	.1	30	9	160	165	5	.001			16
85216	.1	10	9	165	170	5				17
85217	.1	45	9	170	175	5	.001			18
85218	.1	220	9	175	180	5	.006	.005		19
85219	.7	4500	9	180	185	5	.121	.069	.078	20
85220	.3	785	9	185	190	5	.022	.014	.016	21
										22
85221	.2	135	9	190	195	5	.004	.006	.010	23
85222	.1	105	9	195	200	5	.003	.004	.010	24
85223	.3	1500	9	200	205	5	.044	.046	.072	25
85224	.3	1700	9	205	210	5	.069	.049	.130	26
85225	.8	3600	9	210	215	5	.104	.073	.070	27
85226	.7	975	9	215	220	5	.028	.032	.038	28
85227	.3	325	9	220	225	5	.005	.009		29
85228	.1	90	9	225	230	5	.003			30
85229	.1	30	9	230	235	5	.001			31
85230	.1	35	9	235	240	5	.001			32
										33
85231	.1	65	9	240	245	5	.002			34
85232	.1	20	9	245	250	5	.001			35
85233	.1	25	9	250	255	5	.001			36
85234	.1	15	9	255	260	5				37
85235	.1	10	9	260	265	5				38
85236	.1	20	9	265	270	5	.001			39
85237	.1	25	9	270	275	5	.001			40

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Feb. 24, 1983

DATE REPORTS MAILED Mar. 1, 1983

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

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To: Barrier Reef Resources,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

phone: 253 - 3158

File No. 83-0171

Type of Samples Core

Disposition 12323

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au ppb	DDH N ^o	FROM	TO	LENGTH	AD OPT				
85238	.1	5	9	275	280	5'	---				1
85239	.1	10	9	280	285	5'	---				2
85240	.2	55	9	285	290	5'	.002				3
											4
85241	.2	15	9	290	295	5'	---				5
85242	.2	25	9	295	300	5'	.001				6
85243	.1	15	9	300	305	5'	---				7
85244	.1	5	9	305	310	5'	---				8
85245	.5	30	9	310	315	5'	.001				9
85246	.3	75	9	315	320	5'	.002				10
85247	.1	5	9	320	325	5'	---				11
85248	.1	5	9	325	330	5'	---				12
85249	.3	5	9	330	335	5'	---				13
85250	.3	5	9	335	340	5'	---				14
											15
85251	.3	5	9	340	345	5'	---				16
85252	.3	5	9	345	350	5'	---				17
85253	.6	30	9	350	355	5'	.001				18
85254	.3	5	9	355	360	5'	---				19
85255	.2	25	9	360	365	5'	.001				20
85256	.1	5	9	365	370	5'	---				21
85257	.2	5	9	370	375	5'	---				22
85258	.3	30	9	375	380	5'	.001				23
85259	.6	55	9	380	385	5'	.002				24
85260	.2	5	9	385	390	5'	---				25
											26
85261	.3	15	9	390	395	5'	---				27
85262	.3	5	9	395	400	5'	---				28
85263	.5	90	9	400	406	6'	.002				29
85264	.1	65	9	9.0	17.8	8.8	.002				30
85265	.1	5	9	17.8	18.8	1.0	---				31
85266	.1	40	9	18.8	20.5	1.7	.001				32
85267	.1	5	9	20.5	22.5	2.0	---				33
85268	.1	25	9	22.5	23.2	0.7	.001				34
85269	.1	5	9	23.2	24.5	1.2	---				35
85270	.1	15	9	24.5	27.2	2.8	---				36
											37
85271	.1	5	9	27.2	30.5	3.2	---				38
85272	.1	20	9	30.5	33.0	2.5	.001				39
85273	.1	5	9	33.0	36.0	3.0	---				40

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Feb. 24, 1983

DATE REPORTS MAILED Mar. 1, 1983

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Barrier Reef Resources,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

phone: 253-3158

File No. 83-0171

Type of Samples Core

GEOCHEMICAL ASSAY CERTIFICATE

Disposition 1283

SAMPLE No.	Ag	Au ppb	DDH No	FROM	TO	SAMPLE LENGTH	AU OPT.				
85274	.1	25	9	36.0	38.8	2.8	.001				1
85275	.1	5	9	38.8	42.4	3.6	—				2
85276	.1	30	9	42.4	45.2	2.8	.001				3
85277	.1	5	9	45.2	46.8	1.6	—				4
85278	.1	20	9	46.8	48.5	1.7	.001				5
85279	.1	5	9	48.5	51.0	2.5	—				6
85280	.1	50	9	51.0	56.4	5.4	.002				7
											8
85281	.1	5	9	56.4	60.0	3.6	—				9
85282	.1	85	9	60	65	5	.002				10
85283	.1	45	9	65	70	5	.002				11
85284	.1	85	9	70.0	73.0	3.0	.002				12
85285	.1	160	9	73.0	75.0	2.0	.005				13
85286	.1	65	9	75	80	5	.002				14
85287	.1	25	9	80	85	5	.001				15
85288	.1	60	9	85	90	5	.002				16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
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											37
											38
											39
											40

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All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Feb. 24, 1983

DATE REPORTS MAILED Mar. 1, 1983

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

Telephone: 253-3158

To: Barrier Reef Res. Ltd.,
904 - 675 W. Hastings St.,
Vancouver, B.C.
c.c. Westor Falls, Ontario
Project : Crow Lake

83-0171 (Re-run)

File No. _____

Type of Samples CoreDisposition 1982

ASSAY CERTIFICATE

No.	Sample	Au oz/ton		CHEMEX AU oz/TON					No.
1	85218	.005							1
2	85219	.069		.078					2
3	85220	.024		.018					3
4	85221	.006		.010					4
5	85222	.004		.010					5
6	85223	.046		.072					6
7	85224	.049		.130					7
8	85225	.073		.070					8
9	85226	.032		.028					9
10	85227	.009							10
11									11
12									12
13									13
14									14
15									15
16									16
17									17
18									18
19									19
20									20

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DATE SAMPLES RECEIVED Mar. 1, 1983DATE REPORTS MAILED Mar. 8, 1983

ASSAYER

Dean Toye
DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Barrier Reef Res. Ltd.,

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
Telephone: 253-3158

File No. 83-0213
Type of Samples Pulp
Disposition 1282

ASSAY CERTIFICATE

No.	Sample	Au oz/ton	Precn	TD	HOLE				No.
1	85386	.068	75	89	9				1
2	85387	.032	80	85	2				2
3	85404	.084	465	490	12				3
4									4
5									5
6									6
7									7
8									8
9									9
10									10
11									11
12									12
13									13
14									14
15									15
16									16
17									17
18									18
19									19
20									20

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DATE SAMPLES RECEIVED March 7, 1983
DATE REPORTS MAILED March 11, 1983
ASSAYER Dean Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

phone:253-3158

To: Barrier Reef Res. Ltd.,
904 - 675 W. Hastings St.,
Vancouver, B.C.
V6B 1N2

File No. 83-0213

Project : Crow Lake Project

Type of Samples Core

Disposition 1983

GEOCHEMICAL ASSAY CERTIFICATE

F.A.

SAMPLE No.	Ag	Au ppb	CDH No	FROM	TO	SAMPLE LENGTH	AU OPT	AU ACME MUSE	
85289	.2	170	10	7	10	3	.005		1
85290	.5	100	10	10	15	5	.003		2
									3
85291	.1	5	10	15	20	5	—		4
85292	.1	125	10	20	25	5	.004		5
85293	.1	25	10	25	30	5	.001		6
85294	.1	25	10	30	35	5	.001		7
85295	.2	50	10	35	40	5	.002		8
85296	.1	125	10	40	45	5	.004		9
85297	.5	100	10	45	50	5	.003		10
85298	.1	65	10	50	55	5	.001		11
85299	.2	135	10	55	60	5	.002		12
85300	.1	110	10	60	65	5	.003		13
									14
85301	.2	60	10	65	70	5	.003		15
85302	.5	225	10	70	75	5	.007		16
85303	.1	95	10	75	80	5	.003		17
85304	.3	30	10	80	85	5	.001		18
85305	.1	160	10	85	90	5	.005		19
85306	.1	25	10	90	95	5	.001		20
85307	.1	290	10	95	100	5	.007		21
85308	.2	130	10	100	105	5	.004		22
85309	.1	5	10	105	110	5	—		23
85310	.1	70	10	110	115	5	.002		24
									25
85311	.1	25	10	115	120	5	.001		26
85312	.1	40	10	120	125	5	.001		27
85313	.1	15	10	125	130	5	—		28
85314	.1	65	10	130	135	5	.002		29
85315	.1	155	10	135	140	5	.005		30
85316	.1	135	10	140	145	5	.004		31
85317	.1	795	10	145	150	5	.007		32
85318	.1	40	10	150	155	5	.001		33
85319	.1	35	10	155	160	5	.001		34
85320	.1	25	10	160	165	5	.001		35
									36
85321	.1	30	10	165	170	5	.001		37
85322	.1	85	10	170	175	5	.003		38
85323	.1	15	10	175	180	5	—		39
85324	.1	45	10	180	185	5	.001		40

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All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED March 7, 1983

DATE REPORTS MAILED March 11, 1983

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

To: Barrier Reef Res. Ltd.,

File No. 83-0213

Type of Samples - Core

Disposition - 1283

GEOCHEMICAL ASSAY CERTIFICATE

F.A.

SAMPLE No.	Ag	Au ppb	DDH No	FROM	TO	SAMPLE LENGTH	AU OPT	AU ACME CHECK	
85325	.1	20	10	185	190	5	.001		1
85326	.1	15	10	190	195	5	-		2
85327	.1	5	10	195	200	5	-		3
85328	.1	10	10	200	205	5	-		4
85329	.1	15	10	205	210	5	-		5
85330	.4	25	10	210	215	5	.001		6
85331	.4	110	10	215	220	5	.003		7
85332	.3	25	10	220	225	5	.001		8
85333	.1	5	10	225	230	5	-		9
85334	.1	85	10	230	235	5	.003		10
85335	.2	150	10	235	240	5	.005		11
85336	.3	20	10	240	245	5	.001		12
85337	.4	115	10	245	250	5	.003		13
85338	.2	70	10	250	255	5	.002		14
85339	.4	250	10	255	260	5	.007		15
85340	.1	20	10	260	265	5	.001		16
85341	.3	125	10	265	270	5	.004		17
85342	.3	30	10	270	275	5	.001		18
85343	.1	35	10	275	280	5	.001		19
85344	.3	20	10	280	285	5	.001		20
85345	.1	5	10	285	290	5	-		21
85346	.1	45	10	290	295	5	.001		22
85347	.2	265	10	295	300	5	.003		23
85348	.1	185	10	300	305	5	.005		24
85349	.1	205	10	305	310	5	.006		25
85350	.1	40	10	310	315	5	.001		26
85351	.1	15	10	315	320	5	-		27
85352	.1	65	10	320	325	5	.002		28
85353	.3	150	10	325	330	5	.004		29
85354	.4	790	10	330	335	5	.003		30
85355	.1	95	10	335	340	5	.003		31
85356	.1	275	10	340	345	5	.005		32
85357	.3	80	10	345	350	5	.003		33
85358	.6	135	10	350	355	5	.004		34
85359	.1	80	10	355	360	5	.003		35
85360	.1	65	10	360	365	5	.001		36
									37
									38
									39
									40

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED March 7, 1983

DATE REPORTS MAILED March 11, 1983

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

To: Barrier Reef Res. Ltd.,

File No. 83-0213

Type of Samples Core

GEOCHEMICAL ASSAY CERTIFICATE

Disposition 1983

F.A.

SAMPLE No.	Ag	Au ppb	DDH No	FROM	TO	SAMPLE LENGTH	AU OPT	ACME CHECK	
85361	.2	130	10	365	370	5	.004		1
85362	.1	350	10	370	375	5	.010		2
85363	.1	420	10	375	380	5	.012		3
85364	.1	835	10	380	385	5	.024		4
85365	.1	90	10	385	390	5	.003		5
85366	.1	115	10	390	395	5	.003		6
85367	.1	125	10	395	400	5	.004		7
85368	.1	200	10	400	406	6	.006		8
85369	.1	35	12	310	315	5	.001		9
85370	.1	55	12	315	320	5	.002		10
									11
85371	.1	25	12	320	325	5	.001		12
85372	.1	150	12	325	330	5	.004		13
85373	.1	50	12	330	335	5	.002		14
85374	.1	50	12	335	340	5	.002		15
85375	.1	90	12	340	345	5	.003		16
85376	.1	30	12	345	350	5	.001		17
85377	.1	40	12	350	355	5	.001		18
85378	.1	145	12	355	360	5	.004		19
85379	.1	90	12	360	365	5	.003		20
85380	.3	135	12	365	370	5	.004		21
									22
85381	.1	60	12	370	375	5	.002		23
85382	.1	35	12	375	380	5	.001		24
85383	.1	60	12	380	385	5	.002		25
85384	.1	205	12	385	390	5	.006		26
85385	.1	250	12	390	395	5	.007		27
85386	.6	2100	12	395	400	5	.061	.063	28
85387	.1	900	12	400	405	5	.026	.032	29
85388	.1	180	12	405	410	5	.005		30
85389	.1	490	12	410	415	5	.014		31
85390	.1	230	12	415	420	5	.007		32
									33
85391	.1	270	12	420	425	5	.008		34
85392	.1	290	12	425	430	5	.008		35
85393	.1	90	12	430	435	5	.003		36
85394	.1	175	12	435	440	5	.005		37
85395	.1	170	12	440	445	5	.005		38
85396	.1	80	12	445	450	5	.002		39
85397	.1	105	12	450	455	5	.003		40

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED March 7, 1983

DATE REPORTS MAILED March 11, 1983

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Barrier Reef Res. Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 83-0213

Type of Samples Core

GEOCHEMICAL ASSAY CERTIFICATE

Disposition 1283

F.A.

SAMPLE No.	Ag	Au ppb	DDH Nº	FROM	TO	SAMPLE DUSTH	AU OPT.	AU ACME CHECK	
85398	.2	390	12	455	460	5	.011		1
85399	.1	130	12	460	465	5	.004		2
85400	.1	45	12	465	470	5	.001		3
									4
85401	.1	60	12	470	475	5	.002		5
85402	.1	35	12	475	480	5	.001		6
85403	.1	40	12	480	485	5	.001		7
85404	.8	2800	12	485	490	5	.001	.084	8
85405	.4	5	12	490	495	5	—		9
85406	.4	30	12	495	500	5	.001		10
85407	.1	80	12	500	505	5	.001		11
85408	.1	55	12	505	510	5	.002		12
85409	.1	305	12	510	515	5	.009		13
85410	.6	860	12	515	520	5	.025		14
									15
85411	.1	45	12	520	525	5	.001		16
85412	.1	25	12	525	530	5	.001		17
85413	.1	340	12	530	535	5	.010		18
									19
85426	.1	5	11	160	165	5	—		20
85427	.1	5	11	165	170	5	—		21
85428	.3	15	11	170	175	5	—		22
85429	.1	10	11	175	180	5	—		23
85430	.1	15	11	180	185	5	—		24
									25
85431	.1	10	11	185	190	5	—		26
85432	.1	45	11	190	195	5	.001		27
85433	1.9	335	11	195	200	5	.010		28
85434	.1	10	11	200	205	5	—		29
85435	.1	10	11	205	210	5	—		30
85436	.1	15	11	210	215	5	—		31
85437	.1	20	11	215	220	5	.001		32
85438	.1	5	11	220	225	5	—		33
85439	.1	5	11	225	230	5	—		34
85440	.1	5	11	230	235	5	—		35
									36
85441	Missing		11	235	240	5	?		37
85442	Missing		11	240	245	5	?		38
85443	.2	5	11	245	250	5	—		39
85444	.1	5	11	250	255	5	—		40

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED March 7, 1983

DATE REPORTS MAILED March 11, 1983

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

To: Barrier Reef Res. Ltd.,

File No. 83-0213

Type of Samples Core

GEOCHEMICAL ASSAY CERTIFICATE

Disposition 1983

F.A.

SAMPLE No.	Ag	Au ppb	DDH NO	FROM	TO	SAMPLE DATE	NO CPT	AD ACME TUCKER	
85445	.1	5	11	255	260	5	—		1
85446	.1	5	11	260	265	5	—		2
85447	.1	5	11	265	270	5	—		3
85448	.1	5	11	270	275	5	—		4
85449	.1	5	11	275	280	5	—		5
85450	.1	5	11	280	285	5	—		6
									7
85451	.1	5	11	285	290	5	—		8
85452	.1	5	11	290	295	5	—		9
85453	.1	5	11	295	300	5	—		10
85454	.1	5	11	300	305	5	—		11
85455	.1	5	11	305	310	5	—		12
									13
									14
									15
									16
									17
									18
									19
									20
									21
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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED March 7, 1983

DATE REPORTS MAILED March 11, 1983

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

phone: 253-3158

To: Barrier Reef Resources Ltd.,
#904 - 675 W. Hastings St.,
Vancouver, B.C.
V6B 1N2

c.c. Nestor Falls, Ont.
Project: Crow Lake - Ontario

83-0239

File No. _____

Type of Samples D. Core

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au ppb	DDH No	FROM	TO	SAMPLE LENGTH	AU O.P.T.			
85078	.1	175	11	595	600	5	1005			1
85079	.2	55	11	600	605	5				2
85080	.4	105	11	605	610	5	1003			3
85081	.3	85	11	610	615	5				4
85082	.1	85	11	615	620	5				5
85083	.1	125	11	620	625	5	1004			6
85084	.1	125	11	625	630	5	1004			7
85085	.3	360	11	630	635	5	1010			8
85086	.1	320	11	635	640	5	1005			9
85087	.1	395	11	640	645	5				10
85088	.1	75	11	645	650	5				11
85089	.1	115	11	650	655	5				12
85090	.1	280	11	655	660	5	1003			13
85091	.1	110	11	660	665	5				14
85092	.1	40	11	665	670	5				15
85093	.1	55	11	670	675	5				16
85094	.1	55	11	675	680	5				17
85095	.4	80	11	680	685	5				18
85096	.6	105	11	685	690	5	1003			19
85097	.2	175	11	690	695	5	1005			20
85098	.1	230	11	695	700	5	1004			21
85099	.1	80	11	700	705	5				22
85100	.1	185	11	705	710	5	1004			23
85101	.1	240	11	710	715	5	1004			24
85102	.1	140	11	715	720	5				25
85103	.2	70	11	720	725	5				26
85104	.1	145	11	725	730	5	1004			27
85105	.2	185	11	730	735	5	1005			28
85106	.3	455	11	735	740	5	1013			29
85107	.1	150	11	740	745	5	1004			30
85108	.1	135	11	745	750	5	1004			31
85109	.1	100	11	750	755	5	1005			32
85110	.2	85	11	755	760	5				33
85111	.1	55	11	760	765	5				34
85112	.1	60	11	765	770	5				35
85113	.4	105	11	770	775	5	1003			36
85114	.1	405	11	775	780	5	1012			37
85115	.1	50	11	780	785	5				38
										39
										40

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Mar. 14, 1983DATE REPORTS MAILED Mar. 21, 1983

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

To: Barrier Reef Resources Ltd.,

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 83-0239

Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

ASSAY

SAMPLE No.	Ag	Au ppb	DCH No	Au oz/ton	FROM	TO	SAMPLE LENGTH	AU OPT.		
85116	.2	85	11		785	790	5			1
85117	.4	3200	11	.096	790	795	5	.003		2
85118	.2	200	11		795	800	5	.006		3
85119	.2	300	11		800	805	5	.005		4
85120	.1	50	11		805	810	5			5
85121	.3	5	11		810	815	5			6
85122	.1	150	11		815	820	5	.004		7
85123	.1	60	11		820	825	5			8
85124	.1	140	11		825	830	5	.004		9
85125	.1	715	11		830	835	5	.001		10
85126	.3	350	11		835	840	5	.010		11
85127	.2	90	11		840	845	5			12
85128	.1	5	11		845	850	5			13
85129	.1	215	11		850	855	5	.000		14
85130	.1	180	11		855	860	5	.005		15
85131	.1	230	11		860	865	5	.007		16
85132	.2	60	11		865	870	5			17
85133	.1	75	11		870	875	5			18
85134	.1	70	11		875	880	5			19
85135	.1	35	11		880	885	5			20
85136	.1	85	11		885	890	5			21
85137	.3	5	11		890	895	5			22
85138	.4	5	11		895	900	5			23
85139	.2	5	11		900	905	5			24
85140	.1	5	11		905	910	5			25
85141	.1	5	11		910	915	5			26
85142	.1	5	11		915	920	5			27
85143	.1	15	11		920	925	5			28
85144	.2	30	11		925	930	5			29
85145	.1	5	11		930	935	5			30
85146	.1	5	11		935	940	5			31
85147	.3	25	11		940	945	5			32
85148	.1	5	11		945	950	5			33
85149	.2	5	11		950	955	5			34
85150	.1	5	11		955	960	5			35
85151	.1	5	11		960	965	5			36
85152	.2	45	11		965	970	5			37
85153	.1	5	11		970	975	5			38
										39
										40

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Mar. 14, 1983

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ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

phone: 253 - 3158

To: Barrier Reef Resources Ltd.,

83-0239

File No. _____

Type of Samples _____

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au ppb	DDH NO.	FROM	TO	SAMPLE LENGTH	AN OPT.				
85154	.1	15	11	980	985	5					1
85155	.2	15	11	985	990	5					2
85156	.1	55	11	990	995	5					3
85157	.3	25	11	995	1000	5					4
85158	.2	20	11	1000	1005	5					5
85159	.2	50	11	1005	1010	5					6
85160	.3	50	11	1010	1015	5					7
85161	.3	90	11	1015	1020	5					8
85162	.1	60	11	1020	1025	5					9
85163	.1	45	11	1025	1030	5					10
85164	.1	20	11	1030	1035	5					11
85165	.1	35	11	1035	1040	5					12
85166	.1	85	11	1040	1045	5					13
85167	.1	35	11	1045	1050	5					14
85168	.3	25	11	1050	1055	5					15
85169	.2	15	11	1055	1060	5					16
85170	.3	45	11	1060	1065	5					17
85171	3.2	30	11	1065	1070	5					18
85172	.2	35	11	1070	1077	7					19
											20
											21
											22
											23
											24
											25
											26
											27
											28
											29
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											31
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											33
											34
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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Mar. 14, 1983DATE REPORTS MAILED Mar. 21, 1983

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

phone: 253-3158

To: Barrier Reef Res. Ltd.,
904 - 675 W. Hastings St.,Vancouver, B.C.
c.c. Nestor Falls, Ontario

Project : Crow Lake

File No. 83-0247

Type of Samples D. Core

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

DDH - 11

SAMPLE No.	Ag	Au ppb	DDH No.	FROM	TO	SAMPLE Size g.	AU OPT				
85023	.1	5	11	310	315	5					1
85024	.1	5	11	315	320	5					2
85025	.1	5	11	320	325	5					3
85026	.1	5	11	325	330	5					4
85027	.1	5	11	330	335	5					5
85028	.1	5	11	335	340	5					6
85029	.2	5	11	340	345	5					7
85030	.4	5	11	345	350	5					8
85031	.2	5	11	350	355	5					9
85032	.1	5	11	355	360	5					10
85033	.1	20	11	360	365	5					11
85034	.1	5	11	365	370	5					12
85035	.2	5	11	370	375	5					13
85036	.1	5	11	375	380	5					14
85037	.1	5	11	380	385	5					15
85038	.1	10	11	385	390	5					16
85039	.1	5	11	390	395	5					17
85040	.1	40	11	395	400	5					18
85041	.4	50	11	400	405	5					19
85042	.2	50	11	405	410	5					20
85043	.1	30	11	410	415	5					21
85044	.1	25	11	415	420	5					22
85045	.2	15	11	420	425	5					23
85046	.3	30	11	425	430	5					24
85047	.4	190	11	430	435	5					25
85048	.1	40	11	435	440	5	.006				26
85049	.6	30	11	440	445	5					27
85050	.3	25	11	445	450	5					28
85051	.4	50	11	450	455	5					29
85052	.5	25	11	455	460	5					30
85053	.2	435	11	460	465	5	.012				31
85054	.5	55	11	465	470	5					32
85055	.6	100	11	470	475	5					33
85056	.1	15	11	475	480	5					34
85057	.1	70	11	480	485	5					35
85058	.1	25	11	485	490	5					36
85059	.2	5	11	490	495	5					37
85060	.3	30	11	495	500	5					38
											39
											40

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Mar. 15, 1983

DATE REPORTS MAILED Mar. 22, 1983

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Barrier Reef Res. Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

phone: 253-3158

83-0247

File No. _____

Type of Samples _____

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

DDH - 11

SAMPLE No.	Ag	Au ppb	DDH No	FROM	TO	ANAL EXT.	AD OPT				
85061	.1	10	11	510	515	5					1
85062	.1	30	11	515	520	5					2
85063	.1	25	11	520	525	5					3
85064	.1	360	11	525	530	5	.010				4
85065	.1	5	11	530	535	5					5
85066	.1	80	11	535	540	5					6
85067	.1	40	11	540	545	5					7
85068	.1	60	11	545	550	5					8
85069	.2	70	11	550	555	5	.005				9
85070	.1	150	11	555	560	5					10
85071	.1	35	11	560	565	5					11
85072	.1	40	11	565	570	5					12
85073	.1	170	11	570	575	5	.005				13
85074	.1	100	11	575	580	5	.005				14
85075	.1	30	11	580	585	5					15
85076	.1	100	11	585	590	5	.005				16
85077	.1	315	11	590	595	5	.005				17
85414	.1	5	11	100	105	5					18
85415	.1	5	11	105	110	5					19
85416	.1	5	11	110	115	5					20
85417	.1	5	11	115	120	5					21
85418	.1	5	11	120	125	5					22
85419	.1	5	11	125	130	5					23
85420	.1	5	11	130	135	5					24
85421	.1	5	11	135	140	5					25
85422	.1	5	11	140	145	5					26
85423	.1	5	11	145	150	5					27
85424	.1	5	11	150	155	5					28
85425	.1	5	11	155	160	5					29
											30
											31
											32
											33
											34
											35
											36
											37
											38
											39
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DETERMINATION:.....

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DATE REPORTS MAILED Mar. 22, 1983

ASSAYER Dean Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Barrier Reef Res. Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 83-0247

Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

DDH 13

SAMPLE No.	Ag	Au ppb	CL IN	FECK	TO	SAMPLE SIZE	AU OPT				
85001	.4	700	13	455	260	5	.005				1
85002	.5	240	13	460	465	5	.007				2
85003	.3	175	13	465	470	5	.005				3
85004	.4	35	13	470	475	5					4
85005	.4	30	13	475	480	5					5
85006	.3	195	13	480	485	5	.006				6
85007	.3	65	13	485	490	5					7
85008	.4	100	13	490	495	5	.007				8
85009	.4	205	13	495	500	5	.006				9
85010	.2	105	13	500	505	5	.005				10
85011	.3	115	13	505	510	5					11
85012	.3	15	13	510	515	5					12
85013	.1	100	13	515	520	5	.005				13
85014	.1	925	13	520	525	5	.005				14
85015	.1	105	13	525	530	5	.003				15
85016	.1	305	13	530	535	5	.005				16
85017	.1	35	13	535	540	5					17
85018	.4	80	13	540	545	5					18
85019	.4	20	13	545	550	5					19
85020	.1	130	13	550	555	5	.004				20
85021	.1	210	13	555	560	5	.005				21
85022	.1	75	13	560	565	5					22
											23
85456	.1	25	13	565	570	5					24
85457	.3	30	13	570	575	5					25
85458	.2	15	13	575	580	5					26
85459	.1	5	13	580	585	5					27
85460	.1	5	13	585	590	5					28
85461	.1	15	13	590	595	5					29
85462	.1	35	13	595	600	5					30
85463	.1	30	13	600	605	5					31
85464	.1	30	13	605	610	5					32
85465	.1	15	13	610	615	5					33
85466	.2	20	13	615	620	5					34
85467	.1	5	13	620	625	5					35
85468	.1	10	13	625	630	5					36
85469	.1	5	13	630	635	5					37
85470	.1	10	13	635	640	5					38
											39
											40

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DIGESTION:.....

DETERMINATION:.....

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ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

AA
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To: Barrier Reef Res. Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

phone: 253-3158

83-0247

File No. _____

Type of Samples _____

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

DDH 13

SAMPLE No.	Ag	Au ppb	DDH No	FROM	TO	ANALYST	AU CPT.				
85471	.2	25	13	305	310	S					1
85472	.3	45	13	310	315	S					2
85473	.4	90	13	315	320	S					3
85474	.3	30	13	320	325	S					4
85475	.1	35	13	325	330	S					5
85476	.1	15	13	330	335	S					6
85477	.3	10	13	335	340	S					7
85478	.2	20	13	340	345	S					8
85490	.1	40	13	345	350	S					9
85480	.2	30	13	350	355	S					10
85481	.3	50	13	355	360	S					11
85482	.1	15	13	360	365	S					12
85483	.3	10	13	365	370	S					13
85484	.4	25	13	370	375	S					14
85485	.3	15	13	375	380	S					15
85486	.2	10	13	380	385	S					16
85487	.3	35	13	385	390	S					17
85488	.2	95	13	390	395	S					18
85489	.6	60	13	395	400	S					19
85490	.3	15	13	400	405	S					20
85491	.2	5	13	405	410	S					21
85492	.2	5	13	410	415	S					22
85493	.3	20	13	415	420	S					23
85494	.1	5	13	420	425	S					24
85495	.3	65	13	425	430	S					25
85496	.3	35	13	430	435	S					26
85497	.1	30	13	435	440	S					27
85498	.1	85	13	440	445	S	1005				28
85499	.2	45	13	445	450	S					29
85500	.3	185	13	450	455	S	1005				30
											31
											32
											33
											34
											35
											36
											37
											38
											39
											40

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Mar. 15, 1983

DATE REPORTS MAILED Mar. 22, 1983

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

To: Barrier Reef Res. Ltd.,
904 - 675 W. Hastings St.,
Vancouver, B.C.

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852 E. Hastings St., Vancouver, B.C. V6A 1R6
phone: 253-3158

83-0257

c.c. Nestor Falls, Ontario
Project: Crow Lake, Ontario

APR 3

File No.

Core

Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au ppb	DDM no	From	To	Shrinkage length							
85173	.1	5	12	11	15	4							1
85174	.1	5	12	15	20	5							2
85175	.1	5	12	20	25	5							3
85176	.1	10	12	25	30	5							4
85177	.1	15	12	30	35	5							5
85178	.1	5	12	35	40	5							6
85179	.1	15	12	40	45	5							7
85180	.1	5	12	45	50	5							8
85181	.1	15	12	50	55	5							9
85182	.1	5	12	55	60	5							10
85183	.1	5	12	60	65	5							11
85184	.1	5	12	65	70	5							12
85185	.1	5	12	70	75	5							13
85186	.1	5	12	75	80	5							14
85187	.1	5	12	80	85	5							15
85188	.1	5	12	85	90	5							16
85189	.1	5	12	90	95	5							17
85190	.1	5	12	95	100	5							18
85191	.1	15	12	100	105	5							19
85192	.1	20	12	105	110	5							20
85193	.1	35	12	110	115	5							21
85194	.1	5	12	115	120	5							22
85195	.1	5	12	120	125	5							23
85196	.1	5	12	125	130	5							24
85197	.1	5	12	130	135	5							25
85198	.1	5	12	135	140	5							26
85199	.1	5	12	140	145	5							27
85200	.1	5	12	145	150	5							28
													29
													30
													31
													32
													33
													34
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													36
													37
													38
													39
													40

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Mar. 16, 1983

DATE REPORTS MAILED Mar. 24, 1983

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Barrier Reef Res. Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253-3158

83-0257

File No. _____

Type of Samples _____

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au ppb	DDH NO	From	To	SAMPLE LENGTH						
88176	.1	5	12	275	280	5						1
88177	.1	5	12	280	285	5						2
88178	.1	5	12	285	290	5						3
88179	.1	5	12	290	295	5						4
88180	.1	5	12	295	300	5						5
88181	.1	5	12	300	305	5						6
88182	.1	5	12	305	310	5						7
88183	.5	55	10	406	410	4						8
88184	.7	50	10	410	415	5						9
88185	.1	20	10	415	420	5						10
88186	.6	5	10	420	425	5						11
88187	.5	60	10	425	430	5						12
88188	.2	25	10	430	435	5						13
88189	.9	5	10	435	440	5						14
88190	.5	20	10	440	445	5						15
88191	.6	5	10	445	450	5						16
88192	.7	5	10	450	455	5						17
88193	.8	175	10	455	460	5						18
88194	.7	85	10	460	465	5						19
88195	.8	130	10	465	470	5						20
88196	1.0	625	10	470	475	5						21
88197	.6	5	10	475	480	5						22
88198	.8	15	10	480	485	5						23
88199	.5	20	10	485	490	5						24
88200	.7	20	10	490	495	5						25
88201	.4	15	10	495	500	5						26
88202	.6	30	10	500	505	5						27
88203	.4	5	10	505	510	5						28
88204	.5	5	10	510	515	5						29
88205	.4	5	10	515	520	5						30
88206	.7	5	10	520	525	5						31
88207	.5	5	10	525	530	5						32
88208	.6	5	10	530	535	5						33
88209	.5	5	10	535	540	5						34
88210	.2	95	10	540	545	5						35
88211	.6	5	10	545	550	5						36
88212	.5	5	10	550	555	5						37
												38
												39
												40

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DETERMINATION:.....

DATE SAMPLES RECEIVED Mar. 16, 1983

DATE REPORTS MAILED Mar. 24, 1983

ASSAYER Dean Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

phone: 253-3158

To: Barrier Reef Res. Ltd.,

83-0257

File No.

Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au ppb	DDH No	Au oz/ton	From	To	SAMPLE LE-571				
88213	.7	20	10		555	560	5				1
88214	.3	15	10		560	565	5				2
88215	.5	5	10		565	570	5				3
88216	.5	5	10		570	575	5				4
88217	.6	5	10		575	580	5				5
88218	.7	5	10		580	586	6				6
											7
88301	.3	15	12		150	155	5				8
88302	.5	10	12		155	160	5				9
88303	.2	5	12		160	165	5				10
88304	.8	1120	12	.032	165	170	5				11
88305	.1	25	12		170	175	5				12
88306	.1	20	12		175	180	5				13
88307	.5	5	12		180	185	5				14
88308	.7	5	12		185	190	5				15
88309	.4	5	12		190	195	5				16
88310	.5	5	12		195	200	5				17
88311	.2	10	12		200	205	5				18
88312	.3	5	12		205	210	5				19
88313	.1	5	12		210	215	5				20
88314	.4	5	12		215	220	5				21
88315	.2	5	12		220	225	5				22
88316	.2	5	12		225	230	5				23
88317	.3	20	12		230	235	5				24
88318	.1	10	12		235	240	5				25
88319	.1	5	12		240	245	5				26
88320	.1	5	12		245	250	5				27
88321	.4	5	12		250	255	5				28
88322	.4	5	12		255	260	5				29
88323	.3	45	12		260	265	5				30
88324	.2	20	12		265	270	5				31
88325	.1	5	12		270	275	5				32
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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Mar. 16, 1983DATE REPORTS MAILED Mar. 24, 1983

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Barrier Reef Res.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

phone: 253 - 3158

File No. 83-0310

Type of Samples - Core

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au ppb	DD-H NO	FROM	TO	SAMPLE LENGTH							
88219	.4	35	8	36	41	5'							1
88220	.5	50	8	41	46	5'							2
													3
													4
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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Mar. 29, 1983

DATE REPORTS MAILED Apr. 7, 1983

ASSAYER

B. Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



ACME ANALYTICAL LABORATORIES LTD.

To: Barrier Reef Resources Ltd.,
904 - 675 W. Hastings St.,
Vancouver, B.C.
V6B 1N2

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

phone: 253-3158

Project : Crow Lake

File No. 83-0341

Type of Samples Core

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au ppb	DDH NO	FROM	TO	TIME ANALYST							
88221	.5	10	12	375	380	5							1
88222	.1	5	12	385	385	5							2
													3
88224	.1	5	12	385	385	5							4
88225	.1	5	12	385	385	5							5
88226	.2	5	12	385	385	5							6
88227	.1	5	12	385	385	5							7
													8
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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Apr. 5, 1983

DATE REPORTS MAILED Apr. 12, 1983

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



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HOL NO.	PAGE NO
MC 75-2	1 of 3

FOOTAGE FROM		TO	ROCK TYPE	DESCRIPTION	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS	
				Colour, grain size, texture, minerals, alteration, etc.				FROM	TO		AU	
0	45.0		CASING	43.0' water, 2.0' mud.								
45.0	52.0		INT-FEL LAP TU	Gren-gry, gren, fol, frags <2cm, strched, Rk chl, ser, ser stringrs com // fol. Odd qtz stringer, rand orient, barren <2cm wide. Py Tr as diss cubes.								
52.0	112.0		INT TU & LAP TU	Gren, fol frags <1cm - 3cm dia, strched more & less fel than matrix. Rk chl ser seams <2mm com, sil zones 1-10 cm pres. Py: Tr -1% var, vry fnly diss & nar seams // fol. Core chang Ax to Ag @55.0'. Fol -aver 45								
112.0	113.0		FEL INT TU	Gren gry fn-med grn fol. Sltly chl frly sil - ser. Minor qtz blebs 1x1cm (poss frags) Py: Tr 1%, vry fnly diss.								
113.0	115.0		FEL INT TU	As dir above.			4469	113.0	115.0	2.0	Nil	
115.0	117.5		" " "	As dir above.								
117.5	123.0		INT TU & LAP TU	As descr 52.0-112.0, sltly sil Py: <1%.								
123.0	125.0		" " "	As dir above Py: 1-3% in bnds of vry fn grns // fol 1-8 mm wide.			4470	123.0	125.0	2.0	Nil	
125.0	188.0		" " "	As descr 52.0 - 112.0. Frags aver sltly more mat than matrix - comp 40-70% of rk. Subhed alter feldsp? phenos w/frags - aver 4x4mm - var up to 10%. Py: Aver <1% fnly diss & odd 2mm - 1cm bnd. Fol 155' 187'	50° 50°							
188.0	189.5		" " "	As descr above. Py 1% fnly diss & in nar bnds (assay check py).			4471	188.0	189.5	1.5	Nil	



THE MINING ACT - MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

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HOLE NO. MC 75-22
PAGE NO. 2 of 3

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO. K 313947
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft			
					ft			
							PROPERTY NAME MARTIN-CROW LAKE JOINT VEN.	

FOOTAGE		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS	
FROM	TO						FROM	TO		AU	
207.0	209.0	INT TU & LAP TU	As descr dir above. (Assay check qtz rich zone w/py)			4472	207.0	209.0	2.0	Nil	
209.0	210.5	" " "	As desc above.								
210.5	217.6	INT-INT MAT TU	Gren, fn med grn, frly mass w/lap frags < 5-6%. Qtz vein 6cm wide $\approx$ 213.5' - barren. Chl alt, ffly sil. Py: aver < 1%.								
217.6	218.0	" " " "	As dir above, blk gren w/1-2% cpy diss & in 3mm wide stnger.			4473	217.6	218.0	0.4	Nil	
218.0	221.0	" " " "	As descr 210.5-217.6.								
221.0	224.0	" " " "	As dir above. Sltly more fel, sil. Py: $\approx$ 1% fnly diss (assay check sil).			4474	221.0	224.0	3.0	Nil	
224.0	231.0	" " " "	As dir above 4cm wide qtz vein 227.6 - barren.								
231.0	252.0	INT TU LAP TU	Gren to gren gry, fol sltly frly sil, sltly chlo, Frags 1x5cm along // fol. Py: var < 1-2% diss. Fol 242	50°							
252.0	255.0	" " " "	As above, quite sil, sltly more fel, Py: 1-2% diss.			4475	252.0	255.0	3.0	Nil	
255.0	257.0	INT FEL TU	Gren gry, fn med grn well fol, sltly chl & sil. Minor lap frag. Py: Tr 1%.			4476	255.0	257.0	2.0	Nil	
257.0	263.0	FEL INT TU & LAP TU	Gry, gry gren, fn med grn, frags < 20%. Sltly-vry sil, stly ser. Py: Tr -1% fnly diss & odd cube 1x1mm.			4477	257.0	263.0	6.0	Nil	
263.0	266.4	FEL INT LAP TU	As dir above, lap frags 40-60% only sltly elong. Rk bdly brkn, well fol, sltly carb, frly sil. Py: Tr.			4478	263.0	266.4	3.4	Nil	
266.4	271.5	FEL TU & LAP	Gry fn grn, lap frags 20-30% var. Vry sil, frly ser.			4479	266.4	271.5	5.1	Nil	



THE MINING ACT - MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

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HOLE NO. MC 75(2) PAGE NO. 3 of 3

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO. K 313947
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft			
					ft			
							PROPERTY NAME MARTIN-CROW LAKE JOINT VEN.	

FOOTAGE		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS	
FROM	TO						FROM	TO		AU	
271.5	276.5	FEL TU & LAP TU	As dir above.			4480	271.5	276.5	5.0	Nil	
276.5	281.5	" " "	As dir above.			4481	276.5	281.5	5.0	Nil	
281.5	283.5	FEL INT TU & LAP TU	As dir above, less fel. Vry sil sltly chl & ser. Punky bnds 1-2% 1-5mm wide cont blk needle-like xtals - radiat & isolat. actin? - tourm? Py: 1+% fnly diss cubes & assoc w/blk xtals zones.			4482	281.5	283.5	2.0	Nil	
283.5	290.0	" " "	As dir above. Punky bnds 1-4%.								
290.0	292.0	" " "	As dir above. (assay check on punky bnds & py).			4483	290.0	292.0	2.0	Nil	
292.0	306.0	FEL TU & LAP TU	As desc 266.4 - 271.5. Vry sil, minor less fel zones. Zones w/frags 8x8cm, sltly more fel than matrix. Py Trl% fnly diss.								
306.0	308.0	" " "	As dir above (random assay check). Align of frag	50°		4484	306.0	308.0	2.0	Nil	
308.0	320.0	" " "	As dir above.								
320.0	323.0	" " "	As desc 306.0 - 308.0.			4485	320.0	323.0	3.0	Nil	
323.0	325.0	" " "	As dir above. <1% cpy alng fol & in seam <2mm wide.			4486	323.0	325.0	0.5	Nil	
325.0	336.0	" " "	As desc 292 - 306.0.								
			END OF HOLE @336.0 FEET.								



THE MINING ACT - MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

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HOLE NO. MC 7563 PAGE NO. 1 of 4

DRILLING COMPANY NORWESCON DEVELOPMENT LIMITED		COLLAR ELEVATION ice 1106±	BEARING OF HOLE FROM TRUE NORTH 170° Azm.	TOTAL FOOTAGE 331.0' AQ	DIP OF HOLE AT collar -57	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM 3+20'S-4+50W of #1 post of K 313947	MAP REFERENCE NO. M2473	CLAIM NO. K 313947
DATE HOLE STARTED FEB. 27, 1975	DATE COMPLETED FEB. 28, 1975	DATE LOGGED FEB. 28/75	LOGGED BY GLEN W. ADAMS		87 ft -48.5		LOCATION (T.P., Lot, Con. OR Lot. and Long.) Grid 2+40N - 40+00E	PROPERTY NAME MARTIN-CROW LAKE JOINT VENTURE
EXPLORATION CO., OWNER OR OPTIONEE NORANDA EXPLORATION COMPANY, LIMITED		DATE SUBMITTED MAR. 25/75	SUBMITTED BY (Signature) <i>Glen W. Adams</i>		331 ft -24			
					ft			

FOOTAGE FROM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +	
						FROM	TO		AU	AL
0.0	87.0	CASING	Water							ppb
87.0	106.0	INT TU & LAP	Gren gry-gren, sltly fol, fn med grn. Lap frags 20-40% sil zone. Qtz strngs w/minor carb <2-4%, rand, barren. Py: Tr vry fnly diss grns - cubic Strtchd frags & Core size Ax to Aq @92.5'. fol	35°						
106.0	108.0	INT FEL TU	Gry gren, fn md grn, fol frags 6-8mm, sltly chl frly ser & sil - sil zone. Py: Tr fnly diss.							
108.0	110.0	" " "	As discrabove, ser seams // fol (Random assay check sil)		4487	108.0	110.0	2.0	Nil	
110.0	134.0	" " "	As above, sltly more maf. Fol 132'	50°						
134.0	136.0	" " "	As dir above. Py: Tr 1%.		4488	134.0	136.0	2.0	Nil	
136.0	140.0	" " "	As above.		88037	136.0	140.0	4.0		25
140.0	142.0	INT FEL LAP TU	As discr 106.0-108.0 w/80% frags, more maf, strched, Rk chl fry ser & sil, ser seams & sil zones. Py: <1% fnly diss & narr bnds. Strched Frags	50°	4489	140.0	142.0	2.0	Nil	
142.0	144.0	" " " "	As dir above.		88036	142.0	144.0	2.0		10
144.0	146.5	" " " "	As descr 140-142, gry, sltly sil, vry ser. Py: var Tr 1%		4490	144.0	146.5	2.5	Nil	
146.5	167.5	INT FEL TU	As desc 110.0 - 134.0 Py: Tr		88035	146.5	149.5	3.0	4.1	25
167.5	169.5	INT FEL TU & LAP TU	Gren gry-gren, fol frags aver 6-8mm x 1+cm(strched), sltly more maf. Chl, frly ser & sltly sil w/sil zones. Py: Tr 1% fnly diss & thn bnds (<2-3mm) // fol. Fol py bnds	55-60°	88034	149.5	154.5	5.0	4.1	20
					88033	154.5	159.5	5.0	100	100
					88032	159.5	164.5	5.0	110	110
169.5	171.5	" " "	As dir above, more fel, ser seams com. Py Tr 2% in bnds < 2-3mm.		4491	169.5	171.5	2.0	Nil	
					88031	171.5	173.0	1.5		50

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Twp., Lot, Con., OR Lat. and Long.)
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft		
					ft		
					ft		
PROPERTY NAME MARTIN-CROW LAKE JOINT VENT.							

FOOTAGE FROM TO		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM TO		SAMPLE LENGTH	ASSAYS	
										AU	AU
171.5	178.0	INT FEL TU & LAP TU	As descr 167.5-169.5.								
178.0	181.5	" " "	As dir above. Py: Tr 2% narr bnds // fol. Fol	55°		88030	173.0	178.0	5.0		200
181.5	184.5	" " "	As dir above. Py: Tr 2% narr bnds // fol. Fol	55°		4492	178.0	181.5	3.5	Nil	40
184.5	187.0	" " "	As dir above w/random qtz vein 1-3cm. & qtz pods 3-4cm. Py Tr 1% Cpy: tr+ in qtz veins & pods.			4493	181.5	184.5	3.0	Nil	
187.0	190.0	" " "	As dir above. Py: Tr 1% Cpy: tr+ in qtz veins & pods.			88029	184.5	187.0	2.5	150	150
190.0	193.0	" " "	As dir above. Py: Tr 1% Cpy: tr+ in qtz veins & pods.			88028	187.0	192.0	5.0		35
193.0	196.0	INT FEL TU	As descr 110.0 - 134.0.			88027	192.0	197.0	5.0		30
196.0	199.0	INT FEL & LAP TU	As descr 167.5-169.5, fry sil w/ sil zone 3-10cm, random. Both fel & int frags <1cm to 4-5cm. Py: Tr 1% var diss & bnds.			88026	197.0	202.0	5.0		30
199.0	202.0	" " "	As dir above. Py: Tr 1% Cpy: tr+ in qtz veins & pods.			88025	202.0	207.0	5.0		50
202.0	205.0	" " "	Gry gren, C grn lap frag, 1-3cm, rk sltly chlor, ser, sil. Py: Tr, Cpy Tr w/ one qtz bleb 1x1cm Ct below poor	50°		88024	207.0	212.0	5.0		20
205.0	208.0	" " "	As dir above. Py: Tr 1% Cpy: tr+ in qtz veins & pods.	50°		88023	212.0	217.0	5.0		35
208.0	211.0	" " "	As dir above - Py 1% (random assay check)			4494	217.0	219.0	2.0	Nil	
211.0	214.0	" " "	As dir above.			88022	219.0	224.0	5.0		30
214.0	217.0	" " "	As desc 217.0-218.0.			4495	224.0	226.0	2.0	Nil	
217.0	220.0	" " "	As dir above.			88021	226.0	231.0	5.0		20
220.0	223.0	" " "	As desc 217.0 - 218.0 Py: 1% bnds			4496	233.0	235.0	2.0	Nil	
223.0	226.0	" " "	As dir above - some alt frags (feldsp phenos?) Py: 1% bnds			88020	235.2	241.0	5.8		30
226.0	229.0	" " "	As dir above. Py: 1% bnds & diss			4497	242.0	247.0	5.0	Nil	

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CLAIM NO.

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	LOCATION (Tp., Lot, Con. OR Lot. and Long.)
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	ft				
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)	ft				
				ft				
							PROPERTY NAME MARTIN-CROW LAKE JOINT VENT.	

FOOTAGE FROM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS	
						FROM	TO		AU	Au
247.0	252.0	INT FEL TU & LAP TU	As dir above. Py: 1+1% bnds & diss.		4498	247.0	252.0	5.0	Nil	ppb.
252.0	257.0	" " "	As dir above. Py: <1%		4499	252.0	257.0	5.0	Nil	
257.0	276.0	" " "	As dir above. Py: <1%							
276.0	278.0	" " "	As dir above. Py: <1% (Random assay check)		4500	276.0	278.0	2.0	Nil	
278.0	284.0	" " "	As dir above.							
284.0	286.0	" " "	As dir above. Py ≈ 1%		3619	284.0	286.0	2.0	Nil	
286.0	291.0	" " "	As dir above, sltly more fel - gren gry.		3620	286.0	291.0	5.0	Nil	
291.0	296.0	FEL LAP TU	Gry, frly sil, sltly chl vry ser, frags fel & sil, 1-2cm wide strched. Py: 5-12% aver, subhed cubes <1-2mm to 4-5mm - rextal. Blk alt assoc w/py unkn. Py along frag bndries. Strch of frags 60-65°		3621	291.0	296.0	5.0	.03	X
296.0	301.0	" " "	As dir above. Py 5-10% concentrat to 20%.		3622	296.0	301.0	5.0	.33	
301.0	304.6	" " "	As dir above. Py: 5-10% " " "		3623	301.0	304.6	3.6	.02	
304.6	305.5	QTZ VEIN	Mlky w/chl mat <3% Barren		3624	304.6	305.5	0.9	Nil	
305.5	308.0	INT FEL TU	Gry gren, fn C grn. Ser, frly sil, sltly chl odd lap frag, blk alt as prev descr 5-10% var not assoc w/py. Py: aver Tr		3325	305.5	308.0	2.5	Nil	
308.0	310.0	INT TU	Grn, fn C grn, chl sltly ser. Minor lap frags.		3326	308.0	310.0	2.0	Nil	
310.0	313.8	INT MAF TU	As descr dir above, more maf odd qtz strngers w/tr carb unknown blk alt assoc w/qtz.		88019	310.0	313.8	3.8		220

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DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft			
					ft			
							PROPERTY NAME MARTIN CROW LAKE JOINT VENT.	

FOOTAGE FROM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS		
						FROM	TO		AU	AU	
151.0	156.0	INT FEL TU & LAP TU	As dir above.			3635	151.0	156.0	5.0	Nil	ppb
156.0	161.0	" " "	As dir above.								
			Fol aver 30°								
161.0	166.0	" " "	" " " Py Tr 1%			3636	161.0	166.0	5.0	Nil	
166.0	171.0	" " "	" " "								
171.0	176.0	" " "	" " "			3637	171.0	176.0	5.0	Nil	
176.0	178.0	" " "	" " "								
178.0	181.0	INT TU & LAP TU	As descr 98.0-111.0, Qtz strngs 410%.								
181.0	186.0	" " "	As dir above, minor vuggy areas minor carb Py: Tr+ Fol	30°		3638	181.0	186.0	5.0	Nil	
186.0	191.0	" " "	As above, sltly more fel.								
191.0	196.0	" " "	As above, Qtz strngs 15+%	Fol 30°		3639	191.0	196.0	5.0	Nil	
196.0	201.0	" " "	As above.			88094	196.0	201.0	5.0		105
201.0	206.0	" " "	As above, becom Int-Fel Qtz strngs 20% aver 5-6mm wide. Py: Tr 1%.			3640	201.0	206.0	5.0	Nil	
206.0	211.0	INT FEL TU & LAP TU	As descr 146.0-151.0, ser & frly sil - qtz strngs & frags ≈1cm wide. Py: Tr 1% diss in bnds	Fol 30°		88093	206.0	211.0	5.0		65
211.0	216.0	" " "	As dir above. Becom more fel.			3641	211.0	216.0	5.0	Nil	
216.0	221.0		Gry gren gry med c grn, frly sil & ser w/thn ser bnds //			3696	216.0	221.0	5.0	.01	



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DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft			
					ft			
							PROPERTY NAME MARTIN CROW LAKE JOINT VENT.	

FOOTAGE FROM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +		
						FROM	TO		AU	Ag	
221.0	226.0	As dir above.			3642	221.0	226.0	5.0	.02	ppb	
	FEL INT TU & LAP TU										
226.0	231.0	" " " As dir above, vry sil Py 1% diss & in bnds. Frag Fol	25°		3643	226.0	231.0	5.0	.03		
231.0	236.0	" " " As dir above, vry sil, fel sil & fel-int less sil bnds 2mm - 1+cm. Py: 1-2%.			3644	231.0	236.0	5.0	.21		
236.0	241.0	" " " As dir above.			3645	236.0	241.0	5.0	Nil		
241.0	246.0	" " " As descr 206.0-211.0 more fel w/fel sil zones 10-15cm w/py. Py: ~1% in bnds of diss subhed cub.			3646	241.0	246.0	5.0	Nil		
246.0	251.0	" " " As descr 216.0-221.0, less sil frly ser. Py: <1%.			88092	246.0	251.0	5.0		45	
251.0	256.0	" " " As descr 216.0-221. Py: 1-2% bnds diss subhed cub. Frag Fol	25°		3647	251.0	256.0	5.0	Nil		
256.0	261.0	" " " As dir above. Py ~1%.			88091	256.0	261.0	5.0		115	
261.0	266.0	" " " As dir above. Sltly less fel. 3-5% ser in.			3648	261.0	266.0	5.0	Nil		
266.0	271.0	" " " As dir above. Py ~2% as above.			88090	266.0	271.0	5.0		75	
271.0	276.0	" " " As dir above, vry sil, w/2% ser bnds Py: 2%: Cpy Tr			3649	271.0	276.0	5.0	.03		
276.0	281.0	" " " As dir above, less sil vry ser + ser bnds Py: ~1-2%.			88089	276.0	281.0	5.0		140	
281.0	286.0	" " " As dir above, sltly sil, & ser. Ser bnds <1%. Py <1%.			3650	281.0	286.0	5.0	Nil		
286.0	292.0	" " " As dir above, becom less fel, & less sil & ser. Py <1%			88088	286.0	292.0	6.0		375	
292.0	295.0	INT FEL TU MIN Gry gren, fn med grn lmm -<1cm, odd lap frag. Sltly sil			88087	292.0	297.0	5.0		35	
	OR LAP TU	& ser, odd sil bnd as in fel lap tu. Qtz blebs <5%.			88086	297.0	302.0	5.0		125	
					88085	302.0	307.0	5.0		130	



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Hole No. 10 Page No. 1

Drilling Company LONGYEAR		Collar Elevation 1107.7	Bearing of hole from true North N 10° W	Total Footage 586' BQ	Dip of Hole at Collar - 45	Location of hole in relation to a fixed point on the claim. GRID 16+50 EAST 2+32 NORTH		Map Reference No. NTS 52F/4	Claim No. K 590298		
Date Hole Started FEB. 13/83	Date Completed MAR. 6/83	Date Logged MAR. 6/83 FEB. 22/83	Logged by RM BLAIS		40 Ft. - 44	Location (Twp., Lot, Con. or Lat. and Long.) HERONRY LAKE M. - 2475					
Exploration Co., Owner or Optionee MARTIN OPTION BARRIER REEF RESOURCES		Date Submitted	Submitted by (Signature) RM Blais		200 Ft. - 47	Property Name MARTIN PROPERTY.					
					400 Ft. - 46						
					566 Ft. - 39						
Footage From To		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.		Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage From To	Sample Length	PPG Au	Assays †
0 7			CASING								
7.0 8.0		INT. TUFF + LAPILLI TUFF	GREY (BLUE), FINE FRAGMENTAL, FOLIATION NOT PRONOUNCED CORE BREAKING 60° TO CORE AXIS. SERICITE ON SLIPS, 60° MED. HARD, QTZ. - CARB. FRAGS. 5% OF CORE PY 1-2%								
8.0 9.4		INT. TUFF	GREY, FINE GRAINED, BECOMING HARD, SILICEOUS, SERICITE BANDING, CARBONATE IN CORE DISSEM PY INCREASE 1-5%				85289	7 10	3	170	
9.4 56.0		INT. TUFF + LAPILLI TUFF	DESCRIBED 7.0 - 8.0 MED. HARD, FRAGMENTALS INCREASING IN SIZE FROM FINE TO MED. SECTIONS WITH TRACHY APPEARANCE, QTZ - CARB. STRINGERS 60° INCREASE (HAVE PURPLISH HUE), FOLIATION NOT PRONOUNCED. DISSEM PY INCREASE @ 36.0 (CONTACT WITH TRACHY SECTION) - DESCRIBED 7.0 - 8.0 @ 56.0 PY IN 1mm BLEBS PY 3-6%				85290 85291 85292 85293 85294 85295 85296 85297 85298	10 15 15 20 20 25 25 30 30 35 35 40 40 45 45 50 50 55	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	100 5 5 125 25 25 25 50 125 100 65	
56.0 82.5		FELSIC LAPILLI TUFF	GREY (NOT AS BLuish-GREEN), HARD, FINE-MED FRAGMENTAL, BECOMING SILICEOUS, GREY QTZ - CARB. INCREASING 20% OF CORE, SERICITE BANDING INCREASE WITH FOLIATION 60° TO CORE AXIS. PY AND QTZ. - CARB INCREASE PY 5-10% PY CONCENTRATIONS 56.0 - 66.0 (10-15%) @ 57.0 SLIP SHOWS RED-BROWN OXIDATION WITH HEAVY PY. ALSO OCCURS @ 72.0 - 72.0 ± 77.7 - 78.5 .005 mm - .01 mm FRAGS 30% CORE IN CHLORITIC COLORED MATRIX.				85299 85300 85301 85302 85303 85304	55 60 60 65 65 70 70 75 75 80 80 85	5 5 5 5 5 5 5 5 5 5 5 5	135 110 60 225 95 30	



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Hole No. 10 Page No. 2

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by	Ft.	Ft.		Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)	Ft.	Ft.			
		Property Name						

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb. Assays †	
From	To						From	To		Au	
82.5	150.0	INT. LAPILLI TUFF	GREY (GREENISH HUE), HARD, MED.-COARSE STRETCHED FRAGS. NUMEROUS BANDS PURPLISH QTZ.-CARB. BANDS 1cm - 5cm WIDE, HARD // TO FOLIATION 50° TO CORE AXIS. PURPLISH BANDS SURROUNDED WITH COARSE CHLORITIC COLORED FRAGS. DISSEM. PY 1-4% PY INCREASE AROUND PURPLISH BANDS 5-10% Q.F.P. (SALT + PEPPER) 135.0 - 150.0 PY INCREASE 5-8%	50°		85305	85	90	5	160	
						85306	90	95	5	25	
						85307	95	100	5	290	
						85308	100	105	5	130	
						85309	105	110	5	5	
						85310	110	115	5	70	
						85311	115	120	5	25	
						85312	120	125	5	40	
						85313	125	130	5	15	
150.0	185.0	Q.S.S. (Q.F.P.)	GREY (LIGHT), FINE GRAINED, MED. HARD, FOLIATED 65° TO CORE AXIS. BEIGE SERICITE BANDING INCREASE VERY SCHISTY. PY DISSEM. 1-2% PY INCREASE WHITE GREY QTZ.-CARB INCREASES.	65°		85314	130	135	5	65	
						85315	135	140	5	155	
						85316	140	145	5	135	
						85317	145	150	5	795	
						85318	150	155	5	40	
						85319	155	160	5	35	
						85320	160	165	5	25	
						85321	165	170	5	30	
185.0	230.5	INT. LAPILLI TUFF	GREY, FINE GRAINED, MED. HARD, STRETCHED CHLORITIC FRAGS (.005mm - .01mm) 10-15% OF CORE // TO FOLIATION 60° TO CORE AXIS DISSEM PY 1-2% SOME LOCAL BANDING	60°		85322	170	175	5	85	
						85323	175	180	5	15	
						85324	180	185	5	45	
						85325	185	190	5	20	
						85326	190	195	5	15	
						85327	195	200	5	5	
						85328	200	205	5	10	
						85329	205	210	5	15	
						85330	210	215	5	25	
						85331	215	220	5	110	
						85332	220	225	5	25	
						85333	225	230	5	5	



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.		Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by		Ft.			Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)	Ft.					
				Ft.					
				Ft.					
				Ft.			Property Name		

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb Au	Assays †	
From	To						From	To				
230.5	286.0	INT. LAPILLI TUFF	DESCRIBED 82.5 - 150.0	60°		85334	230	235	5	85		
						85335	235	240	5	150		
			INCREASE IN SERICITE BANDING 244.0 - 246.0			85336	240	245	5	20		
						85337	245	250	5	115		
			PY INCREASE 1-5%			85338	250	255	5	70		
						85339	255	260	5	250		
						85340	260	265	5	20		
						85341	265	270	5	125		
						85342	270	275	5	30		
						85343	275	280	5	35		
						85344	280	285	5	20		
						85345	285	290	5	5		
286.0	361.0	FELSIC TUFF + LAPILLI TUFF	GREY, FINE GRAINED, HARD, SILICEOUS, SOME CARBONATE PRESENT IN CORE, FOLIATION NOT PRONOUNCED, SERICITE BANDING INCREASING - Q.S.S.			85346	290	295	5	45		
						85347	295	300	5	265		
						85348	300	305	5	185		
						85349	305	310	5	205		
			PY INCREASING 5-10%			85350	310	315	5	40		
			317.0 - 320.0 PY BANDING 10-15%			85351	315	320	5	15		
			330.0 - 332.0 PY BANDING 10-15%			85352	320	325	5	65		
			356.0 PY 10-15%			85353	325	330	5	150		
						85354	330	335	5	790		
						85355	335	340	5	95		
						85356	340	345	5	275		
						85357	345	350	5	80		
						85358	350	355	5	135		
						85359	355	360	5	80		
						85360	360	365	5	65		



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.	
Date Hole Started	Date Completed	Date Logged	Logged by	Ft.			Location (Twp., Lot, Con. or Lat. and Long.)		
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)	Ft.					
		Ft.							
				Ft.			Property Name		

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb	Assays †	
From	To						From	To				
361.0	406.0	Q.S.S.	GREY (LIGHT), HARD, SILICEOUS, SERICITE BANDING INCREASING, VERY SCHISTY, FINE FRAGMENTAL, FOLIATION 45° TO CORE AXIS	45°		85361	365	370	5	130		
						85362	370	375	5	350		
						85363	375	380	5	420		
						85364	380	385	5	835		
			PY INCREASE DISSEM. 5-10%			85365	385	390	5	90		
						85366	390	395	5	115		
						85367	395	400	5	125		
						85368	400	406	6	200		
			HOLE DEEPEMED.									
406.0	439.7	FELSIC TUFF + LAPILLI TUFF	GREY (MED.), FINE GRAINED, MED. HARD, MINOR SERICITE BANDING 45° TO CORE AXIS, SOME VERY SMALL FRAGS.	45°		88183	406	410	4	55		
			PY 406.0 - 436.0 DISSEM. 1-2%			88184	410	415	5	50		
			406.0 - 426.0 PY BANDING 1-5%+			88185	415	420	5	20		
						88186	420	425	5	5		
						88187	425	430	5	60		
						88188	430	435	5	25		
						88189	435	440	5	5		
439.7	461.0	FELSIC TUFF + LAPILLI TUFF	GREY (MED.), MED. HARD, MED. FRAGS, LT. COLOURED. FRAGS INCREASING 15-20% OF CORE WITH INTERMEDIATE MATRIX			88190	440	445	5	20		
			PY VERY MINOR 1% OR LESS			88191	445	450	5	5		
						88192	450	455	5	5		
						88193	455	460	5	175		
						88194	460	465	5	85		



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by	Ft.	Ft.		Location (Twp., Lot, Con. or Lat. and Long.)	Property Name
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)	Ft.	Ft.			
				Ft.	Ft.			

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb. Assays †	
From	To						From	To		AL	
461.0	464.0	Q.S.S.	LIGHT GREY, FINE GRAINED, SERICITE BANDING INCREASE - SCHISTY								
464.0	475.0	FELSIC TUFF + LAPILLI TUFF	DESCRIBED 439.7 - 461.0 PY INCREASE 5-10% +			88195	465	470	5	130	
						88196	470	475	5	625	
						88197	475	480	5	5	
475.0	513.0	Q.S.S. (Q.F.P.)	WHITISH-GREY (RHYOLITE), HARD, SILICEOUS, SERICITE BANDING HEAVY 45° TO CORE AXIS 476.0 - 496.0 Q.F.P. (SALT+PEPPER) PY 15-20% 501.0 - 513.0 Q.F.P.	45°		88198	480	485	5	15	
						88199	485	490	5	20	
						88200	490	495	5	20	
						88201	495	500	5	15	
						88202	500	505	5	30	
						88203	505	510	5	5	
						88204	510	515	5	5	
513.0	571.0	FELSIC LAPILLI TUFF	GREY, LT. FRAGS, DARK MATRIX, FRAGS STRETCHED // TO CORE AXIS 50° PY 1-2% DISSEM.	50°		88205	515	520	5	5	
						88206	520	525	5	5	
						88207	525	530	5	5	
						88208	530	535	5	5	
						88209	535	540	5	5	
						88210	540	545	5	95	
						88211	545	550	5	5	
						88212	550	555	5	5	
						88213	555	560	5	20	
						88214	560	565	5	15	
						88215	565	570	5	5	
						88216	570	575	5	5	



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MINING LANDS SECTION

Drilling Company LONGYEAR		Collar Elevation 1111.7	Bearing of hole from true North 510°E	Total Footage 1077'89	Dip of Hole at Collar - 45	Location of hole in relation to a fixed point on the claim. GRID 28+86 EAST. 6+19 NORTH	Map Reference No. NTS 52F/4	Claim No. K590296
Date Hole Started FEB. 14/83	Date Completed FEB. 17/83	Date Logged FEB. 24/83	Logged by R.M. BLAIS		350 Ft. - 47		Location (Twp., Lot, Con. or Lat. and Long.) HERONRY LAKE M. 2475	
Exploration Co., Owner or Optionee MARTIN OPTION BARRIER REEF RESOURCES.		Date Submitted	Submitted by (Signature) R.M. Blais		707 Ft. - 46			
					900 Ft. - 44			
						1067 Ft. - 52	Property Name MARTIN PROPERTY	

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †	
From	To						From	To			
0	10		CASING - LEFT IN HOLE - AD CEMENT PLUG								
10.0	42.7	INT. LAPILLI TUFF	GREENISH GREY, FOLIATED 65° TO CORE AXIS, MED. HARD, BANNED SERICITE, ALTERNATE LT. AND DARK BANDING, DARK BANDS 50-60% OF CORE (STRETCHED FRAGS?), SMALL DARK FRAGS 1mm OR LESS, STRETCHED // TO CORE AXIS. FRAGS INCREASE NEAR END OF SECTION. SERICITE BANDING ALSO INCREASES DISSEM PY 1-2%	65°							
42.7	67.7	INT. LAPILLI TUFF (PORPHYRITIC)	MED. GREY, HARD, FOLIATED 60° TO CORE AXIS, SMALL STRETCHED FRAGS (LIGHT) (PORPHYRITIC TEXTURE) HEAVY SERICITE BAND 48.0 - 49.0 - P.S.S. 3cm QTZ-CARB FRAG SCHISTY DISSEM PY 1%	60°							
67.7	78.0	INT. LAPILLI TUFF (PORPHYRITIC)	GREY (LIGHTER 42.7-67.7) TIGHT SERICITE BANDING // TO FOLIATION 60° TO CORE AXIS, SILICEOUS, FAINT PORPHYRITIC TEXTURE, SAME AS 42.7-67.7 SECTION MORE SCHISTOSE. HAS 5mm TO 1cm QTZ-CARB FRAG SCATTERED THRU SECTION MINOR DISSEM PY.								
78.0	98.0	INT. TUFF + LAPILLI TUFF (PORPHYRITIC)	GREY, DESCRIBED 42.7-67.7 QTZ-CARB STRINGERS @ 88.0-88.5, 89.8-90.5 MORE MAFIC LOOKING THAN 10.0-42.7-67.7 SECTION 114.0-114.2 QTZ-CARB STRINGER 70° TO CORE AXIS, PURPLISH HUE TO STRINGER, HEAVY SERICITE BANDING ON EACH SIDE OF STRINGER								



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.			
Date Hole Started	Date Completed	Date Logged	Logged by				Location (Twp., Lot, Con. or Lat. and Long.)	Property Name			
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)								
Footage From	Footage To	Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle °	Core Specimen Footage †	Your Sample No.	Sample Footage From	Sample Footage To	Sample Length	ppb. Au	Assays †
224.7	267.0	INT. LAPILLI TUFF	GREY (GREENISH), MED. HARD SAME AS UNIT 98.0-223.4 BANDS IN WITH 2cm-6cm OF SMALL STRETCHED CHLORITIC FRAGS. 0.005 mm // TO LONG AXIS 50°, FOLIATION NOT PRONOUNCED DISSEM. PY 1-2% PY BANDING @ 260.0-262.0 263.0-264.0	50°		B5439	225	230	5	5	
						B5440	230	235	5	5	
						B5441	235	240	MISSING		
						B5442	240	245	MISSING		
						B5443	245	250	5	5	
						B5444	250	255	5	5	
						B5445	255	260	5	5	
						B5446	260	265	5	5	
						B5447	265	270	5	5	
						B5448	270	275	5	5	
267.0	299.0	INT. LAPILLI TUFF	DESCRIBED 98.0-223.4 BECOMING MORE SILICEOUS 277.0-299.0, CHANGING INTERMEDIATE-FELSIC NEAR END OF SECTION - GRITTY APPEARANCE ALSO Q.F.P. PY INCREASING 5-10%	45°		B5449	275	280	5	5	
						B5450	280	285	5	5	
						B5451	285	290	5	5	
						B5452	290	295	5	5	
						B5453	295	300	5	5	
299.0	312.0	Q.S.S.	GREY-LIGHT GRGY, SERICITE BANDING BECOMING FELSIC (DOLITE) VERY SILICEOUS DISSEM. PY 5-8%	45°		B5454	300	305	5	5	
						B5455	305	310	5	5	
						B5023	310	315	5	5	
312.0	315.0	Q.S.S.	WHITISH GRGY ALTERNATE BANDING OF SERICITE AND GRGY QTZ. - Q.S.S.	45°		B5024	315	320	5	5	
315.0	323.0	Q.S.S.	DESCRIBED 299.0-312.0 PY 5-8%	45°		B5025	320	325	5	5	



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.		Map Reference No.	Claim No.			
Date Hole Started	Date Completed	Date Logged	Logged by		Ft.			Location (Twp., Lot, Con. or Lat. and Long.)				
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Ft.							
		Ft.										
		Ft.										
					Ft.	Property Name						
Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.		Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Ppb. Assays ‡	
From	To							From	To		Al	
323.0	347.0	Q.S.S.	DESCRIBED 312.0 - 315.0 Q.S.S. DISSEM PY 5-8%		50°		85026	325	330	5	5	
							85027	330	335	5	5	
							85028	335	340	5	5	
							85029	340	345	5	5	
347.0	445.0	Q.S.S.	DESCRIBED 315.0 - 323.0 394.0 ON TO END OF SECTION 4 MAFIC BANDS DISSEM PY 2-6%		50°		85030	345	350	5	5	
							85031	350	355	5	5	
							85032	355	360	5	5	
							85033	360	365	5	20	
							85034	365	370	5	5	
							85035	370	375	5	5	
							85036	375	380	5	5	
							85037	380	385	5	5	
							85038	385	390	5	10	
							85039	390	395	5	5	
							85040	395	400	5	40	
						*	85041	400	415	5	50	
							85042	415	420	5	50	
							85043	420	425	5	30	
							85044	425	430	5	25	
							85045	430	435	5	15	
							85046	435	440	5	30	
							85047	440	445	5	190	
445.0	470.0	INT. LAPILLI TUFF	DESCRIBED 267.0 - 299.0 NOTE Q.F.P.		45°		85048	445	450	5	40	
							85049	450	455	5	30	
							85050	455	460	5	25	
							85051	460	465	5	50	
							85052	465	470	5	25	



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by	Ft.			Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)	Ft.				
				Ft.				
							Property Name	

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	PPB. AU	Assays †	
From	To						From	To				
470.0	475.0	FELSIC LAPILLI TUFF	LIGHT GREY, PORPHYRITIC, SILICEOUS, SERICITE BANDING, SOME CHLORITIC FRAGS?			85053	470	475	5	435		
						85054	475	480	5	55		
						85055	480	485	5	100		
						85056	485	490	5	15		
475.0	485.5	INT. LAPILLI TUFF	DESCRIBED 445.0 - 470.0 PY 5-10%									
						85057	490	495	5	70		
485.5	681.5	FELSIC TUFF + LAPILLI TUFF	GREY, FOLIATED, MED FRAGMENTAL, FELSIC (DASITIC) CHANGING TO FINE FRAG OR TUFF, SERICITE BANDING, SMALL BANDS OF CROWNED COARSE MAFIC FRAGS. PY 1-5% DISSEM.			85058	495	500	5	25		
			568.8 - 572.0 WHITISH GREY Q.S.S.			85059	500	505	5	5		
			582.0 - 591.0 Q.S.S.			85060	505	510	5	30		
			605.0 - 628.0 MED. GREY, GRITTY LOOKING PY INCREASE 2-6%			85061	510	515	5	10		
			628.0 - 642.0 Q.S.S.			85062	515	520	5	30		
			667.0 - 681.5 Q.S.S. SERICITE BANDING.			85063	520	525	5	25		
						85064	525	530	5	360		
						85065	530	535	5	5		
						85066	535	540	5	80		
						85067	540	545	5	40		
						85068	545	550	5	60		
						85069	550	555	5	70		
						85070	555	560	5	150		
						85071	560	565	5	35		
						85072	565	570	5	40		
						85073	570	575	5	170		
						85074	575	580	5	100		
						85075	580	585	5	30		
						85076	585	590	5			
						85077	590	595	5	315		
						85078	595	600	5	175		
						85079	600	605	5	55		
						85080	605	610	5	105		
						85081	610	615	5	85		
						85082	615	620	5	85		



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.		Map Reference No.	Claim No.					
Date Hole Started	Date Completed	Date Logged	Logged by		Ft.			Location (Twp., Lot, Con. or Lat. and Long.)						
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Ft.									
		Ft.												
		Ft.												
					Ft.	Property Name								
Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.			Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb.	Assays †	
From	To								From	To				
								85083	620	625	5	125		
								85084	625	630	5	125		
								85085	630	635	5	360		
								85086	635	640	5	320		
								85087	640	645	5	395		
								85088	645	650	5	75		
								85089	650	655	5	115		
								85090	655	660	5	280		
								85091	660	665	5	110		
								85092	665	670	5	40		
								85093	670	675	5	55		
								85094	675	680	5	55		
681.5	682.5	INT. LAPILLI TUFF	BAND INTERMEDIATE - MAFIC FRAGS.					85095	680	685	5	80		
								85096	685	690	5	105		
								85097	690	695	5	175		
682.5	702.0	FELSIC TUFF + LAPILLI TUFF	DESCRIBED 485.5 - 681.5					85098	695	700	5	230		
702.0	787.0	FELSIC - INT. LAPILLI TUFF	MED. GRGY, BROKEN, MED - COARSE FRAGMENTAL, FOLIATION 45° TO CORE AXIS PY 10-15%			45°		85099	700	705	5	80		
								85100	705	710	5	185		
								85101	710	715	5	240		
								85102	715	720	5	140		
								85103	720	725	5	70		
			767.0 + BECOMING MAFIC.					85104	725	730	5	145		
								85105	730	735	5	185		
								85106	735	740	5	455		
								85107	740	745	5	150		
								85108	745	750	5	135		
								85109	750	755	5	100		
								85110	755	760	5	85		
								85111	760	765	5	55		
								85112	765	770	5	60		
								85113	770	775	5	105		
								85114	775	780	5	405		



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by	Ft.			Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)	Ft.				
				Ft.				
						Ft.		Property Name

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb. Au	Assays †	
From	To						From	To				
						85115	780	785	5	50		
						85116	785	790	5	85		
787.0	836.0	INT. LAPILLI TUFF	MED.-DARK GREY - CHANGING TO MED. GREY WITH DEFINITE LT. GREENISH HUE, APPLE GREEN COLOR. APPEARS WITH BEIGE SERICITE, FOLIATION NOT PRONOUNCED, PATCHY MOTTLED LOOK DUE TO APPLE - GREEN COLOR.			85117	790	795	5	3200		
						85118	795	800	5	200		
						85119	800	805	5	300		
						85120	805	810	5	50		
						85121	810	815	5	5		
						85122	815	820	5	150		
						85123	820	825	5	60		
						85124	825	830	5	140		
						85125	830	835	5	715		
836.0	1042.0	Q.S.S.	LT. GREY - MED. GREY, HEAVY SERICITE BANDING VERY SILICEOUS, HIGHLY BROKEN CORE, FOLIATION (Q.F.P. REMANENT) NOT EVIDENT. CORE RECOVERY 90% PY 15-20%			85126	835	840	5	350		
						85127	840	845	5	90		
						85128	845	850	5	5		
						85129	850	855	5	215		
						85130	855	860	5	180		
			Q.F.P. @ 837.0, 855.0, 863.0, 880.0, 892.0 + 904.0			85131	860	865	5	230		
			UNIT 787.0 - 836.0 SHOWS IN THIS SECTION			85132	865	870	5	60		
			CORE BROKEN AND POROUS @ 880.0			85133	870	875	5	75		
						85134	875	880	5	70		
						85135	880	885	5	35		
						85136	885	890	5	85		
			LOST CORE 965.0 - 967.0			85137	890	895	5	5		
			969.0 - 976.0			85138	895	900	5	5		
						85139	900	905	5	5		
			SERICITE INCREASE 986 +			85140	905	910	5	5		
						85141	910	915	5	5		
						85142	915	920	5	5		
						85143	920	925	5	15		
						85144	925	930	5	30		
						85145	930	935	5	5		



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.		Map Reference No.	Claim No.	
Date Hole Started	Date Completed	Date Logged	Logged by		Ft.			Location (Twp., Lot, Con. or Lat. and Long.)		
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Ft.					
					Ft.			Property Name		
Footage From To		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage From To	Sample Length	RPD. <i>AU</i>	Assays ‡
						85146	935 940	5	5	
						85147	940 945	5	25	
						85148	945 950	5	5	
						85149	950 955	5	5	
						85150	955 960	5	5	
						85151	960 965	5	5	
						85152	965 969	2	45	
						85153	976 980	4	5	
						85154	980 985	5	15	
						85155	985 990	5	15	
						85156	990 995	5	55	
						85157	995 1000	5	25	
						85158	1000 1005	5	20	
						85159	1005 1010	5	50	
						85160	1010 1015	5	50	
						85161	1015 1020	5	90	
						85162	1020 1025	5	60	
						85163	1025 1030	5	45	
						85164	1030 1035	5	20	
						85165	1035 1040	5	35	
1042.0	1044.0		QTZ-CARB. VEIN			85166	1040 1045	5	85	
						85167	1045 1050	5	35	
1044.0	1047.0	FELSIC TUFF	GREY, SILICEOUS			85168	1050 1055	5	25	
						85169	1055 1060	5	15	
1047.0	1050.0		MIXTURE QTZ-CARB STRINGERS & Q.F.P.			85170	1060 1065	5	45	
						85171	1065 1070	5	30	
1050.0	1077.0	FELSIC TUFF	GREY, SILICEOUS, CORE BECOMING MORE COMPETENT BY 5-10%			85172	1070 1077	7	35	
			END HOLE 1077							
			CORE RECOVERED 95%							



MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

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DRILLING COMPANY NORWESCON DEVELOPMENT LIMITED		COLLAR ELEVATION 1106± ice	BEARING OF HOLE FROM TRUE NORTH 310 Azm	TOTAL FOOTAGE 190' AQ	DIP OF HOLE AT collar -50	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM 650'S - 400'W of #1 post of K 313947	MAP REFERENCE NO. M 2473	CLAIM NO. K 313947
DATE HOLE STARTED MARCH 13, 1975		DATE LOGGED MAR. 19/75	LOGGED BY GLEN W. ADAMS		190' ft -40		LOCATION (Tp., Lot, Con. OR Lat. and Long.) Grid 1 + 00S 40 +55E	
EXPLORATION CO. OTHER THAN DRILLING CO. NORANDA EXPLORATION COMPANY, LIMITED		DATE SUBMITTED MAR. 25/75	SUBMITTED BY (Signature) <i>Glen W. Adams</i>		ft		PROPERTY NAME MARTIN CROW LAKE J.V.	
					ft			

FOOTAGE FROM	TO	DESCRIPTION	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +	
						FROM	TO		AU	
0.0	19.0	CASING								
		3 1/2' water w/boulders.								
19.0	48.1	INT. FEL. TU. BAS. DIR.								
		Gry-gry gren, med grn (<1-2mm), poorly fol quite sil, frly ser, carb, sltly chl, odd lap frag. Tu frags frly chlitiz causing pepper appear. Py: <1% fnly diss. Bas dikes com gren-gry gren fn grn mass non carb, non mag. Qtz vein 3-4mm to 3-4cm, 2-3% carb 5-25%, aver 80-90° to core axis Py: Tr, Cpy: tr noted in qtz vein 40.5'. Bas dikes 19.0-20.1, 21.0-21.6, 30.0-31.2, 33.0-36.1, 39.0 - 42.2, 43.3-44.1, 47.0-48.1.								
48.1	67.6	INT. FEL. TU.								
		As descr above, gry-gren, frly chlor, sltly sil, ser & carb, fol. No bas dikes pres. Py: <1% fnly diss. Fol	30°							
67.6	79.0	INT. TU. W/ Y. FLOWS								
		Gren drk gren, fn-Cgrn, odd lap size frag, Rk chlor quite ser sltly sil as thn seams & sltly carb. Poss amygd zones 7-10cm, wht feldsp amygd 1-2mm. Py: aver ≈1% - concent 1.0-72 up to 4% aver 1-2%. Gradtl ct w/above & below. Bndg & fol.	30-35°							
79.0	85.0	INT. FEL. TU. LAP. TU.								
		As descr 48.1-67.6 w/20-40% lap frags <6-7mm dia strched. Frly ser w/thn ser seams, and odd qtz-rich area often assoc w/random vein (<2% qtz veins) Py: ≈1% as py rich bnds & diss.								
85.0	88.0									
		As dir above. Py: ≈2% bnds & diss. Rand check py.				3683	85.0	88.0	3.0	Nil
88.0	92.0									
		As dir above. Py: 1-2%.								
92.0	94.0									
		As dir above. Ser seams ≈1mm thk 10%, sil lap frags 60% Py: ≈1%.								
94.0	96.0									
		As dir above. Rand check ser				3624	94.0	96.0	2.0	Nil

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THE MINING ACT - MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

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HOLE NO. MC 75-712
PAGE 2

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.	
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY				LOCATION (Tp., Lot, Con. OR Lat. and Long.)		
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)				PROPERTY NAME		
							MARTIN CROW LAKE J.V.		

FOOTAGE FROM TO		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM TO		SAMPLE LENGTH	ASSAYS AU	
96.0	138.0	INT FEL TU & LAP TU	As desc 92.0-94.0, Sil lap frags <5%.								
138.0	147.5	" " "	Gren-gry gry, well fol, chl zones drk gren 1-10cm, frly carb, ser, sltly sil. Rare blebs & fract fill of blk min (chl?). Core brkn up Py: ~1% diss. Fol 30°								
147.5	151.0	" " "	As descr dir above. Ser & Blk min 3-8% // fol. Pyl+8in bnd // fol.			3685	147.5	151.0	3.5	Nil	
151.0	154.0	FEL INT TU & LAP TU	Gry wht w/lt grn & blk bnds, well fol, Frags dif to see Rk frly sil & ser, sltly chlor & carb. Bnds of lt gren ser rich seams 1-2mm thk, blk is unknown min as pods (1x3mm) & grns (<1mm). Sug qtz ~10%. Py: 2% bnds Fol 30°			3686	151.0	154.0	3.0	Nil	
154.0	157.0	" " "	As dir above, 70% sil fel frags 4-8mm, strched. Ser com thn seams tr lt gren chlor unkn blk min 10% as pods, grns & alng fol pln prob amph, often assoc w/punky zones in sug qtz. dk min surround frags. Py 10-12% bnds & diss assoc w/drak mat. Unkn min prob amph or chloritoid. Fol 30°			3687	154.0	157.0	3.0	Nil	
157.0	160.0	" " "	As dir above. Sug qtz 20%, blk min 10%. Py: 10%.			3688	157.0	160.0	3.0	Nil	
160.0	165.0	" " "	As dir above. Sug qtz 40%, lk min 2-3%. Py: 7-10% bnds & diss.			3689	160.0	165.0	5.0	Nil	
165.0	170.0	" " "	As dir above. 1-2% int frags >3x3cm, 3cm bar qtz vein @168.6. Py 10% bnds & diss assoc w/int frags.			3690	165.0	170.0	5.0	Nil	
170.0	175.0	" " "	As dir above. 2-3% lrge int frags. Py 10-12% bnds Py bnds & fol. 40°			3691	170.0	175.0	5.0	.02	
175.0	179.2	" " "	As dir above. Py: aver 10-12% up to 15-20%.			3692	175.0	179.2	4.2	.02	

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MOLE NO.
MC 71-2

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft			
					ft			
					ft	PROPERTY NAME		
					ft	MARTIN CROW LAKE J.V.		

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THE MINING ACT - MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

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HOLE NO. MC 75-61
PAGE NO. 1 of 2

DRILLING COMPANY NORWESCON DEVELOPMENT LIMITED		COLLAR ELEVATION 1106± ice	BEARING OF HOLE FROM TRUE NORTH 350° Azm	TOTAL FOOTAGE 195.0 AQ	DIP OF HOLE AT collar -50	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM 650'S - 400'W of #1 post of K 313947	MAP REFERENCE NO. M 2473	CLAIM NO. K 313947	
DATE HOLE STARTED MARCH 11, 1975	DATE COMPLETED MARCH 12, 1975	DATE LOGGED MAR.19/75	LOGGED BY GLEN W. ADAMS		195 ft -31.5		LOCATION (Twp., Lot, Con. OR Lat. and Long.) Grid: 1+00S - 40+55E		
EXPLORATION CO., OWNER OR OPTIONEE NORANDA EXPLORATION COMPANY, LIMITED		DATE SUBMITTED MAR.25/75	SUBMITTED BY (Signature) <i>Glen W. Adams</i>		ft		PROPERTY NAME MARTIN CROW LAKE J.V.		
					ft				

FOOTAGE		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +	
FROM	TO						FROM	TO		AU	AJ
0.0	19.0	CASING	3½' water w/bounders.				19.0	23.0	4.0		ppb
19.0	41.0	FEL INT TU & BAS DIKE	Gry gren gry med grn (1-2mm) fol, frly ser, sltly sil w/narr sil zones (1-4cm) sltly chl & carb. Fn chltzed frags pepper appear. Py <1% diss. Bas, gren-gry gren, fn grn mass non carb, non mag. Qtz vein <1-4cm <2% - up to 20-30% carb, random orient. Bas dike @19.0-21.8 qtz carb vein // core axis, 29.0-30.2, 31.6-32.4, 39.0-39.7 Py: Nil. Dike Cts var	90-50°			23.0	28.0	5.0		
							28.0	33.0	5.0		
							33.0	38.0	5.0		
							38.0	43.0	5.0		
							43.0	48.0	5.0		
							48.0	53.0	5.0		
							53.0	58.0	5.0		
							58.0	63.0	5.0		
41.0	78.0	INT FEL TU & LAP TU	As descr dir above, less fel, qtz vein <1% 1-2cm rand barren. Frags vry strched, thn 60:40; int: fel. Chrtly frags (≈69.0') brecccted. Py: aver <1% odd conc 1-2% diss & diss bnds. Fol 55'	45°		88079	63.0	73.0	5.0		20
						88078	73.0	78.0	5.0		30
78.0	80.0	" " "	As dir above. Py: aver 2% conc to 15% . Rand check py.			88077	80.0	82.0	2.0		15
						3672	78.0	80.0	2.0	Nil	
80.0	107.0	" " "	As descr 41.0-78.0, sil frags more com, not strched (89.0-90.0), 105.0-107.0 1½' core lost, bdly brkn. Py ≈1% diss.			88076	82.0	87.0	5.0		25
						88075	87.0	92.0	5.0		30
						88074	92.0	97.0	5.0		15
						88073	97.0	102.0	5.0		25
						88072	102.0	107.0	5.0		20
107.0	108.3	FEL INT TU & LAP TU?	Wht & blk salt & pepp appear. Wht is sil mat blk is anhed euhed amphib? chlortzed (chloritoid?) Wht:blk 65:35 to 75:25. Blk min <1mm to 2x1mm(euhed) Py: ≈2% bnds of diss grns & cubes. Ct w/above shanp	40°		3673	107.0	108.3	1.3	Nil	
108.3	110.0	FEL INT W/QTZ CARB	As dir above w/85% qtz carb vein mat. carb 10%. Py <1% assoc w/salt-pep rk.			3674	108.3	110.0	1.7	.02	
110.0	115.5	" " "	As descr. 107.0-108.0 w/int frgs, strched. Py 1-2% C (1-3mm) subhed grns & diss mat. Fol, Frags	40°		3675	110.0	115.5	5.5	Nil	
115.5	116.7	DIAB DIKE	Gren. fol wht felden (looks tuft) prob alt. Pv: Tr Ct	60°		3676	115.5	116.7	1.2	Nil	

1. MINING ACT - MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

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HOLE NO. MC 75-6
PAGE NO. 2 of 2

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM		MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft			LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft			PROPERTY NAME MARTIN CROW LAKE J.V.	
					ft				
					ft				
					ft				

FOOTAGE FROM TO		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM TO		SAMPLE LENGTH	ASSAYS + AU Au ppb	
116.7	122.0	FEL INT TU & LAP TU	As descr 108.3-110.0 w/int frags strched Pyl+%			3677	116.7	122.0	5.3	Nil	
122.0	127.0	" " "	As dir above. Py: 1+%			3678	122.0	127.0	5.0	.01	
127.0	134.0	" " "	As dir above 5-10% fel int frags Py 1+%			3679	127.0	134.0	7.0	.04	0.026
134.0	137.0	" " "	Gry gry-wht frags 90+% of rk. 10% frags are above descr salt & pepp rk. frags 1-4cm wide, strched, 50:50 fel:int Py: 1-2% var aver 1%.			3680	134.0	137.0	3.0	.02	
137.0	140.0	" " "	As dir above (134.0-317.0) salt & pepp frags <1%.			88071	137.0	140.0	3.0		25
140.0	142.0	" " "	As dir above, fel frags vry sil, no salt-pepp frags. Py: 3-4% fnly diss in bnds. Rand check py. Frags fol 45°	45°		3681	140.0	142.0	2.0	.02	
142.0	153.0	" " "	As dir above. Py: Aver 1+% conc 2+% var.			88070	142.0	145.0	3.0	.004	130
						88069	145.0	149.0	4.0		65
						88068	149.0	153.0	4.0		25
153.0	155.0	" " "	As dir above. Py: 1% Rand check.			3682	153.0	155.0	2.0	Nil	
155.0	165.0	" " "	As dir above.								
165.0	195.0	" " "	As dir above. Sltly less fel zones 10-30cm, frly sil. Frags var cherty, int, int porph= Py: aver 1% diss w/odd bnd. Fol & frags 50-55°	50-55°		88067	155.0	160.0	5.0		35
						88066	160.0	165.0	5.0		50
						88065	165.0	170.0	5.0		25
						88064	170.0	175.0	5.0		15
						88063	175.0	180.0	5.0		25
						88062	180.0	185.0	5.0		20
						88061	185.0	190.0	5.0		45
						88060	190.0	195.0	5.0		60
			END OF HOLE @195.0 FEET.								

ON. MINING ACT - MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

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PAGE NO. 1 of 4
CLAIM NO. K 313947

DRILLING COMPANY NORWESCON DEVELOPMENT LIMITED		COLLAR ELEVATION 1106± ICE	BEARING OF HOLE FROM TRUE NORTH 170° Azm	TOTAL FOOTAGE 275.0 AQ	DIP OF HOLE AT collar -48.5	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM 450'S - 340'W of #1 post of K 313947	MAP REFERENCE NO. M 2473	LOCATION (Tp., Lot, Con. OR Lot. and Long.) 1 + 10N 41 + 00E	
DATE HOLE STARTED MARCH 5, 1975	DATE COMPLETED MARCH 7, 1975	DATE LOGGED MAR.17/75	LOGGED BY GLEN W. ADAMS		ft				
EXPLORATION CO., OWNER OR OPTIONEE NORANDA EXPLORATION COMPANY, LIMITED		DATE SUBMITTED MAR.25/75	SUBMITTED BY (Signature) <i>Glen W. Adams</i>		265 ft -16.5				
					ft				
								PROPERTY NAME MARTIN CROW LAKE J.V.	

FOOTAGE FROM TO		ROCK TYPE	DESCRIPTION Logged w/artif light Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM TO		SAMPLE LENGTH	ASSAYS + AU AU Ppb.		
0.0	14.0	CASING	Boulders - 3.5' water.									
14.0	27.6	INT LAP TU	Gren, gry gren, frags <3mm - 1+cm, strched. Frags more maf thn matrix, odd qtz frag. Frags aver 60%. Rk sltly chl, frly ser, w/ ser strngs. Sil sect <5-6cm <15%. Frly carb. Frags 3-5mm alt, odd rnd prphyblst 2-4mm dia-alt qtz rimed (<2-3%). Odd qtz strngs <1% <1cm wide, random. Py: 1%, Fn grn diss & in strngs. Fol & ser strngs ≈ 50°									
27.6	28.1	QTZ VEIN	Milky wht, 20% carb, 5+% incl, Barren. Includ Tr+ Py			88039	14.0	16.0	2.0		10	
						88040	16.0	21.0	5.0		320	
28.1	29.2	INT LAP TU	As descr 14.0-27.6.			88041	21.0	26.0	5.0		25	
						88042	26.0	31.0	5.0		10	
29.2	30.6	QTZ VEIN	As descr 27.6-28.1, inclus 1% vry chl. Barren.			88043	31.0	36.0	5.0		20	
						88044	36.0	41.0	5.0		15	
30.6	61.7	INT LAP TU	As desc 14.0-27.6'. Frags 70:30 maf:fel, fel frags sil. Py: aver 1% w/random isol zones <10cm 1-2% diss fn grns & fn cub & in py rich bnds <3-4mm.			88045	41.0	46.0	5.0		30	
						88046	46.0	51.0	5.0		80	
						88047	51.0	56.0	5.0		40	
						88048	56.0	61.7	5.7		35	
61.7	62.3	" " "	Gry sil bnd in above. Sil & ser sltly chl. Py 3-4% Fol 50° Bndg - Ctw/below 50°			3661	61.7	62.3	.6	.03		
						88049	62.3	67.0	4.7		50	
62.3	81.0	" " "	As descr 30.6 - 61.7.			88050	67.0	72.0	5.0		210	
						88051	72.0	77.0	5.0		55	
81.0	83.0	" " "	As above. Rk sltly more fel. Py 1-2% diss, fract fill & frag bndry.			88052	77.0	81.0	4.0		50	
						3653	81.0	83.0	2.0	.02		
83.0	87.5	FEL INT TU & LAP TU	Gry gren med C grn. Fel, Frags aver <1cm, sil. Rk frly sil, ser, sltly chl & carb. Py: 1-2% fnly diss, odd C cube & seams, fnly diss, // fol. Fol ≈ 60°			3654	83.0	87.5	4.5	.03		
87.5	92.5	FEL LAP TU	Gry-lt gren gry. Frags aver 1-2cm, strched vry sil, sltly carb, 80% of rk. Rk frly sil chl vry ser. Py: <10% med			3655	87.5	92.5	5.0	.09		



THE MINING ACT - MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

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HOLE NO. MC 75-5
PAGE NO. 2 of 4

DRILLING COMPANY NORWESCON DEVELOPMENT LIMITED		COLLAR ELEVATION 1106±	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (T _p , Lat, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft			
					ft			
							PROPERTY NAME MARTIN CROW LAKE J.V.	

FOOTAGE FROM TO		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM TO		SAMPLE LENGTH	ASSAYS + AU AU	
92.5	97.5	FEL LAP TU	As dir above.			3656	92.5	97.5	5.0	.10	ppb
97.5	102.0	" " "	As dir above.			3657	97.5	102.0	4.5	.21	
102.0	103.5	" " "	As desc 87.5-92.5. Frags 10%, amphib min(?) <5%. Rk sil. Py: 1-2%.			3658	102.0	103.5	1.5	.01	
103.5	106.0	INT TU & LAP TU	Gren, med C grn w/<20% frags 4-8mm (up to 1cm). Sltly sil frly ser, chl, & carb, <1% amphib prhyblst 2mm dia. Py: 1-2% diss & seams // fol. Ct w/above & fol.	≈50°		3659	103.5	106.0	2.5	.02	
106.0	109.0	" " "	As dir above. Lrge frag >8mm more com. Minor sil zones 3-5cm. Py: 1+%.			88053	106.0	109.0	3.0		30
109.0	109.5	QTZ CARB VEIN	Mlky wht - 30% carb. Barren.			3660	109.0	109.5	.5	.02	
109.5	115.0	INT TU & LAP TU	As descr 106.0 - 109.0.			88054	109.5	115.0	5.5		120
115.0	116.5	" " "	As dir above w/3 sil zones 3-8cm wide. Py: <1% expt sil bnds 4-5% 2-3mm dia, subhed.			3662	115.0	116.5	1.5	Nil	
116.5	134.0	INT FEL LAP TU	Gren-gry gren, fn med grn matr, frags aver 1-2cm, 80%, strched. Frags 70:30, Int: fel, fel frags sil. Rk sltly chl, frly ser & sil & carb w/sil sect 3-4cm. Py: <1%, blebs, fnly diss & seams.			88055	116.5	120.0	3.5		150
						88056	120.0	125.0	5.0		25
						88057	125.0	130.0	5.0		30
						88058	130.0	134.0	4.0		20
134.0	136.0	FEL INT LAP TU	As dir above sltly more fel & sil. Random check.			3663	134.0	136.0	2.0	.02	
136.0	141.0	" " "	As dir above, frly ser. Py: <1% cubes <1mm & fnly diss.			88059	136.0	141.0	5.0		90
141.0	143.0	" " "	As dir above. Py: 1-2%.			3664	141.0	143.0	2.0	.02	
143.0	164.8	" " "	As dir above sltly more fel, frly ser & sil, & carb. Fel bnd 148.5-151.0. Py: Tr 1%. Ct of fel bnd, & fol	60°							

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	PROPERTY NAME MARTIN CROW LAKE J.V.
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft			
					ft			

FOOTAGE FROM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +		
						FROM	TO		AU		
164.8	165.5	FEL INT LAP TU	Sil bnd, 50% py anhedral grns <1-3mm.		3665	164.8	165.5	.7	Nil		
165.5	173.2	" " " "	As descr 134.0-136.0, frly sil, chl, & ser. Tu sect. 5-30cm. Py:<1%								
173.2	174.5	" " " "	As dir above. Py: 1-2% diss & in seams // fol Py & Fol	50°	3666	173.2	174.5	1.3	Nil		
174.5	176.0	" " " "	As dir above. Ct zone w/bas dike		3667	174.5	176.0	1.5	.02		
176.0	176.5	BASALT DIKE	Gren-gry gren, fn grn to aphan, chilled marg, mass non mag, non carb. Py:Tr nil. Ct	70°	3668	176.0	176.5	.5	Nil		
176.5	179.5	FEL INT LAP TU	As descr 165.5 - 173.2.								
179.5	186.0	BASALT DIKE	As descr 176.0-176.5 random barren qtz veins <2cm wide w/in 20° of core axis. Gren-gry, fn grn as sil tu bnds (as in 165.5-173.2) @183.9-184.3, 185.0-185.3 Tu cts aver.	60-70°							
186.0	193.0	FEL INT TU & LAP TU	Gry gren gry med C grn <1-3mm feld frags w/20% lap size frags. Frly ser sltly sil & chl, & carb. Sim to bnds noted in 165.5-173.2 5-10% chlor min or min repl w/chlor <1mm Py: <1% frly diss.								
193.0	195.0	" " "	As dir above. Random check.		3669	193.0	195.0	2.0	Nil		
195.0	208.5	" " "	As dir above w/bas dikes as descr 176.0-176.5 @197.0-198.2, 199.0-199.6, 200.0-200.1, 207.0-208.5.								
208.5	209.6	BAS BREC/LAP TU	Gry gren dike rk as prev descr w/lap size frags (1cm-3cm) of Fel Int Tu & maf (dike?) rk. Maf frags strched, Fel-Int frags rnd. Frags diff to see <10-20% bar qtz vein / 1cm (20° from core axis). Pv: Tr+ assoc w/frag bndrv								

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HOLE NO.	PAGE NO.
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DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (T _{p.} , Lot, Con. OR Lat. and Long.)	
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)	ft				
				ft				
				ft				
					ft	PROPERTY NAME MARTIN CROW LAKE J.V.		

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THE MINING ACT - MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

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MC 701
K 33947

DRILLING COMPANY NORWESCON DEVELOPMENT LIMITED		COLLAR ELEVATION 106	BEARING OF HOLE FROM TRUE NORTH 170° Azm.	TOTAL FOOTAGE 357' AQ	DIP OF HOLE AT collar -54°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM 300'S - 3+40'W of #1 post of K 313947	MAP REFERENCE NO. M 2473	PROPERTY NAME MARTIN-CROW LAKE JCNT VENT
DATE HOLE STARTED FEB.19, 1975	DATE COMPLETED FEB.21, 1975	DATE LOGGED FEB.22/75	LOGGED BY GLEN W. ADAMS	185 ft -43	LOCATION (Tp., Lot, Con. OR Loc. only) Grid: 2+70N - 41+06:			
EXPLORATION CO., OWNER OR OPTIONEE NORANDA EXPLORATION COMPANY, LIMITED		DATE SUBMITTED MAR.25/75	SUBMITTED BY (Signature) <i>Glen W. Adams</i>	357 ft -24				
				ft				

FOOTAGE FROM TO		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM TO		SAMPLE LENGTH	AU	ASSAY
0	72.0	CASING	62' water - 10' mud.								
72.0	106.0	INT TU & LAP TU	Gren to gry gren, frags 4mm - 1cm diam, strched; Rk sltly fol sltly sil & ser, frly chlor. Poss amygd or frags w/alt cent. Random thn qtz strngrs - barr. 4mm thk ser bnds // fol. Py: Tr as fn diss cubes & py rich bnds. Strched frags & fol.	45°							
106.0	108.0	" " "	As dir above. 1-2% qtz strngs-barr. Py: Tr (assay check qtz).			4446	106.0	108.0	2.0	Tr	
108.0	110.0	" " "	As dir above. Py 1-2% in 4cm bnds assoc w/qtz.			4447	108.0	110.0	2.0	Tr	
110.0	147.0	" " "	As desc 72-106. Odd fel, sil frag - qtz filled amygd? 1-2% var. Py: 1% diss & in bnds fn cubes. Core size chng Ax to Aq @136.0'. Fol 125'	40°							
147.0	152.0	" " "	As dir above, well fol. Chlor & ser, odd frly sil bnd 410cm, minor carb. Py: 1% cube 2mm in clusters w/qtz strngrs & blebs & diss.			4448	147.0	152.0	5.0	Tr	
152.0	168.5	" " "	As dir above - chlor patches 2x2cm com. Py: Tr								
168.5	169.0	" " "	As dir above. Py: 1% (assay check py)			4449	168.5	169.0	0.5	Nil	
169.0	177.6	" " "	As descr 152.0 - 168.5.								
177.6	179.6	" " "	As dir above, frly sil. Py: 1% diss & bnds (assay check sil + py).			4450	177.6	179.6	2.0	Nil	
179.6	199.5	INT MAF TU	Gren drk gren, frags 41cm. Sltly fol. Random qtz strngrs 41-2cm. Py: Tr								



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CLAIM NO. K 313947

LOCATION (T_p, Lot, Con. OR Lot. and Long.)

PROPERTY NAME
MARTIN CROW LAKE JOINT VENT.

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM		MAP REFERENCE NO.			
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft						
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft						
					ft						
					ft						
					ft						
FOOTAGE FROM TO		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.			PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM TO	SAMPLE LENGTH	ASSAYS + AU
199.5	202.0	INT MAF TU	As dir above, sltly more sil. Py: $\approx 1\%$ diss fn cubes & 1 py rich bnd 4cm - fn cubes.					4451	199.5 202.0	2.5	Nil
202.0	217.5	INT TU & LAP TU	As descr 72.0 - 106.0. Sltly less maf than dir above. Frags 1-4cm, sil.								
217.5	222.5	" " "	As dir above. Frly sil. Py: $\approx 1\%$ alng frag bndry & diss.					4452	217.5 222.5	5.0	Nil
222.5	224.5	" " "	As dir above. Py: $\angle 1\%$.					4453	222.5 224.5	2.0	Nil
224.5	228.0	" " "	As dir above.					4454	224.5 228.0	3.5	Nil
228.0	233.0	" " "	As dir above. Frags sil 80% of rk. Py: 1-3% alng frag bndry & fnly diss.					4455	228.0 233.0	5.0	Nil
233.0	238.0	" " "	As dir above. Py: $\approx 2\%$.					4456	233.0 238.0	5.0	Nil
238.0	243.0	" " "	As dir above.					4457	238.0 243.0	5.0	Nil
243.0	248.0	" " "	As dir above, sil frags $\angle 20\%$ Py: $\angle 1\%$.					4458	243.0 248.0	5.0	Nil
248.0	251.0	" " "	As dir above. Chlor patches 4x4cm.					4459	248.0 251.0	3.0	Nil
251.0	259.0	" " "	As dir above. Py: Tr.					88015	251.0 259.0	4.0	50
259.0	260.0	" " "	As dir above. Qtz strngers 2-5mm com. Py: 1% assoc w/qtz					88014-4460	259.0 260.0	1.0	Nil
260.0	262.7	" " "	As descr 251.0 - 259.0.					88013	260.0 262.7	2.7	5
262.7	263.3	QTZ VEIN	Milky qtz w/10% carb - barren 2cm wall rk either side w/ $\angle 1\%$ Py.			$\approx 65^\circ$		4461	262.7 263.3	0.6	Nil
263.3	278.0	INT TU LAP TU	As desc above, chlor patches, minor fel zones 15-20cm,								



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DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM		MAP REFERENCE NO.	CLAIM NO. K 313947				
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft			LOCATION (Twp., Lot, Con. OR Lat. and Long.)					
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft			PROPERTY NAME MARTIN-CROW LAKE JOINT VENT.					
					ft								
					ft								
					ft								
					ft								
FOOTAGE FROM TO		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.			PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM TO	SAMPLE LENGTH	ASSAYS + AU ppb		
278.0	279.5	FEL INT TU	Gry gry gren, fn med grn, minor thin (4cm) drk bnds. Sltly sil & ser, fol, Frags 3-5mm, sil. Py: Tr 1% Bndg 2-5%			55°		4462	278.0	279.5	1.5	Nil	
279.5	285.0	" " "	As dir above. Sltly sil, frly ser. Py: 1-3% fnly diss cubes (euhed-subhed).					4463	279.5	285.0	5.5	Nil	
285.0	291.8	" " "	As dir above. Py: 1%.					4464	285.0	291.8	6.8	Nil	
291.8	293.0	INT MAF TU & LAP TU.	Gren, fn med grn. Frags <1-4cm.					4465	291.8	293.0	1.2	Nil	
293.0	310.0	" " "	As desc above. Qtz strngrs com <5mm wide, vuggy, random orient-barren. Less maf toward 310. Core bdly brken 293.0-307.0 Py: Tr.										
310.0	317.0	INT TU LAP TU	Gren w/gry gren, frags to 2cm, strched, frags fel & int. Qtz rich bnds com // w/frags - some may be frags. Rk chlor, sltly sil & ser, Sil bnds <3-4cm not com. Py Tr-1% in sil zones - aver <1%. Frags & fol.			65-70°		88012 88011 88010 88009 88008	293.0 297.0 302.0 307.0 312.0	297.0 302.0 307.0 312.0 317.0	4.0 5.0 5.0 5.0 5.0		10 5 5 20 20
317.0	319.0	" " "	As dir above. Py: 1-3% C-fn grn cubes & pyr-hedron in qtz rich zones.					4466	317.0	319.0	2.0	Nil	
319.0	342.0	" " "	As descr 310.0 - 317.0. Ser strngrs // fol, 2-4%. Py: varies Tr 2% diss & bnds aver 1%. Ser strngrs			65°		88006 88005 88004 88003 88007	322.0 327.0 332.0 337.0 342.0	327.0 332.0 337.0 342.0 344.0	5.0 5.0 5.0 5.0 2.0		30 280 160 60 35
342.0	344.0	" " "	As dir above. Py 2-3% var (random assay check py)					4467	342.0	344.0	2.0	Nil	
344.0	357.0	" " "	As dir above Py: <2%.					88002	344.0	357.0	6.0		25
			END OF HOLE @357 FEET.					88001	350.0	357.0	5.0		70



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Drilling Company LONGYEAR		Collar Elevation 1107.6	Bearing of hole from true North S 10° E	Total Footage 540' 00"	Dip of Hole at Collar 45	MINING LANDS SECTION Location of hole in relation to a fixed point on the claim. GRID 82+00 EAST 2+70 NORTH	Map Reference No. NTS 52F/4	Claim No. 230624 2365049
Date Hole Started FEB. 18/83	Date Completed FEB. 20/83	Date Logged FEB. 22/83	Logged by R.M. BLAIS		250 Ft. 42		Location (Twp., Lot, Con. or Lat. and Long.) BROOKS LAKE M.-2473	
Exploration Co., Owner or Optionee MARTIN OPTION BARRIER REEF RESOURCES.		Date Submitted	Submitted by (Signature) R.M. Blais		540 Ft. 37			
					Ft.			
					Ft.		Property Name MARTIN PROPERTY	

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle °	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †	
From	To						From	To		ppb.	
0	11		CASING - LEFT IN HOLE - 40' CEMENT PLUG							94	
11.0	27.3	FELSIC LAPILLI TUFF	GREY, MED. HARD, FOLIATED FRAGMENTAL, STRETCHED FRAGS? 60° TO CORE AXIS, BANDING LT. (QTZ-CARB) DARK CHLORITIC AND BEIGE SERICITE 22.7 - 23.0 QTZ-CARB. STRINGER BEIGE COLOR DISSEM PY INCREASE NEAR SECTION END 25.0-27.3 PY 1-5%	60°		85173	11	15	5	5	
						85174	15	20	5	5	
						85175	20	25	5	5	
						85176	25	30	5	10	
27.3	65.2	SP.S.S.	27.3-50.5 (CORE RECOVERY 85-90%) WHITISH GREY, MED. HARD, HIGHLY FOLIATED, CORE BROKEN ALONG FOLIATION 60° TO CORE AXIS BEIGE BANDS OF SERICITE DISSEM. PY 2-8% 50.5-65.2 (DESCRIBED 27.3-50.5), CORE SOLID SLIGHTLY MORE CHLORITIC FRAGS. 60.5-61.5 GREY WHITE SECTION GREY MATRIX WITH CHLORITIC STRETCHED FRAGS 0.005 mm - 0.01 mm, VERY SILICEOUS PY 2-8%	60°		85177	30	35	5	15	
						85178	35	40	5	5	
						85179	40	45	5	15	
						85180	45	50	5	5	
						85181	50	55	5	15	
						85182	55	60	5	5	
						85183	60	65	5	5	
65.2	66.0	FELSIC LAPILLI TUFF	LIGHT GREENISH GREY, FINE GRAINED								
66.0	68.6	SP.S.S.	DESCRIBED 27.3-65.2			85184	65	70	5	5	
68.6	71.0	DIKE	DIKE? DESCRIBED 65.2-66.0								



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.		Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by		Ft.			Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Ft.			Property Name	
Footage		Rock Type	Description	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage	Sample Length	ppb. Assays ‡
From	To		Colour, grain size, texture, minerals, alteration, etc.				From	To	
71.0	74.0	FELSIC LAPILLI TUFF	DESCRIBED 27.3-65.2			85185	70	75	5
74.0	76.2	DIKE	DIKE						
76.2	141.0	Q.S.S.	DESCRIBED 27.3-65.2 COLOR CHANGING TO LIGHT GREY, SERICITE BANDING, STARTING TO LOOK MED. - COARSE FRAGMENTAL 106.0 + PY 1-5%	50°		85186	75	80	5
						85187	80	85	5
						85188	85	90	5
						85189	90	95	5
						85190	95	100	5
						85191	100	105	5
						85192	105	110	5
						85193	110	115	5
						85194	115	120	5
						85195	120	125	5
						85196	125	130	5
						85197	130	135	5
						85198	135	140	5
141.0	153.8	FELSIC LAPILLI TUFF	GREY, FINE GRAINED, SMALL CHLORITIC FRAGS, SERICITE BANDS 50° TO CORE AXIS. FOLIATION NOT PRONOUNCED LIKE PREVIOUS SECTION DISSEM PY 1-6%	50°		85199	140	145	5
						85200	145	150	5
						88301	150	155	5
153.8	155.1	DIKE	DIKE (PORPHYRITIC)						
155.6	155.6	FELSIC LAPILLI TUFF	DESCRIBED 141.0-153.8						
155.6	157.8	Q.S.S.	DESCRIBED 27.3-65.2						



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by		Ft.		Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Ft.			
					Ft.			
							Property Name	

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle °	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb. Assays †	
From	To						From	To		Al	
157.8	160.8	DIKE	DIKE			88302	155	160	5	10	
						88303	160	165	5	5	
160.8	181.0	P.S.S.	DESCRIBED 76.2-141.0 QTZ.-CARB. STRINGERS 175.4-175.7, 176.0-176.3 45° TO CORE AXIS, MED.-COARSE FRAGS PY DISSEM. 1-5%	45°		88304	165	170	5	1120	
						88305	170	175	5	25	
						88306	175	180	5	20	
181.0	182.0	DIKE	DIKE, QTZ.-CARB. FRAGS (COARSE)								
182.0	188.0	FELSIC LAPILLI TUFF	GREY FRAGS.								
188.0	188.3	DIKE	DIKE, QTZ.-CARB STRINGER			88307	180	185	5	5	
188.3	192.6	FELSIC LAPILLI TUFF	GREY, COARSE FRAGS 186.0-192.6 CROWDED FRAGS			88308	185	190	5	5	
						88309	190	195	5	5	
192.6	198.8	DIKE	DIKE, QTZ.-CARB STRINGER			88310	195	200	5	5	
198.8	299.0	FELSIC LAPILLI TUFF	GREY, FOLIATED, MED.-COARSE FRAGS 1cm-3cm, MED. HARD, LIGHT & DARK (CHLORITIC STRETCHED // TO FOLIATION 45° SERICITE BANDING 200.3-203.0 SERICITE BANDING DISSEM. PY 1-3% 253.5-259.0 DARK GREY, FINE GRAINED, HARD 266.0-273.0 SERICITE BANDS INCREASE	45° 60°		88311	200	205	5	10	
						88312	205	210	5	5	
						88313	210	215	5	5	
						88314	215	220	5	5	
						88315	220	225	5	5	
						88316	225	230	5	5	
						88317	230	235	5	26	
						88318	235	240	5	10	
						88319	240	245	5	5	
						88320	245	250	5	5	
						88321	250	255	5	5	
						88322	255	260	5	5	
						88323	260	265	5	45	
						88324	265	270	5	20	
						88325	270	275	5	5	
						88176	275	280	5	5	



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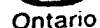
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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by		Ft.		Location (Twp., Lot, Con. or Lat. and Long.)	Property Name
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Ft.			
					Ft.			

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle °	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Ppb. Au	Assays †	
From	To						From	To				
						88177	280	285	5	5		
						88178	285	290	5	5		
						88179	290	295	5	5		
						88180	295	300	5	5		
299.0	311.8	FELSIC - INT LAPILLI TUFF	DARK GREY, HARD, FINE GRAINED, FOLIATION NOT PRONOUNCED MINOR PY			88181	300	305	5	5		
						88182	305	310	5	5		
311.8	370.4	FELSIC LAPILLI TUFF	GREY, HARD, FOLIATED, MED. FRAGS, SERICITE BANDING, SILICEOUS PY INCREASE 3-8% PY INCREASE @ 340.0 + 10% 313.4 - 313.7 QTZ-CARB STRINGER INCREASE SERICITE AROUND QTZ. 315.4 - 315.7 SAME AS 313.4 - 313.7	45°		85369	310	315	5	35		
						85370	315	320	5	55		
						85371	320	325	5	75		
						85372	325	330	5	150		
						85373	330	335	5	50		
						85374	335	340	5	50		
						85375	340	345	5	90		
						85376	345	350	5	30		
						85377	350	355	5	40		
						85378	355	360	5	145		
						85379	360	365	5	90		
						85380	365	370	5	135		
370.4	431.0	FELSIC TUFF + LAPILLI TUFF	GREY, HARD, FINE GRAINED, VERY FINE FRAGMENTAL, SILICEOUS, FOLIATION NOT PRONOUNCED, GREY SILICEOUS MATRIX - CHLORITE FRAGS .005 mm. PY 1-5% 396.0 + BANDS SERICITE 401.7 PY BAND 0.2 WIDE 15% PY PY INCREASE 5-8% TURNING TO FINE FRAGMENTAL 405.0 +			85381	370	375	5	60		
						85382	375	380	5	35		
						85383	380	385	5	60		
						85384	385	390	5	205		
						85385	390	395	5	250		
						85386	395	400	5	2100		
						85387	400	405	5	900		
						85388	405	410	5	180		
						85389	410	415	5	490		
						85390	415	420	5	230		
						85391	420	425	5	270		
						85392	425	430	5	290		



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by		Ft.		Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Ft.			
					Ft.			
					Ft.	Property Name		

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle °	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	PPb. Au	Assays †
From	To						From	To			
431.0	455.0	FELSIC - INT. LAPILLI TUFF	GREY, MED. FRAGMENTAL, SILICEOUS, HARD, FOLIATION 45° TO CORE AXIS, SOME SERICITE BANDING PY 1-5%			85393	430	435	5	90	
						85394	435	440	5	175	
						85395	440	445	5	170	
			444.0 - 444.3 QTZ-CARB. STRINGER			85396	445	450	5	80	
			444.3 - 445.6 DIKE - QTZ-CARB STRINGER.			85397	450	455	5	105	
455.0	540.0	FELSIC LAPILLI TUFF	CHANGING FROM ABOVE TO GREY, HARD, FINE GRAINED, FOLIATION NOT PRONOUNCED, MINOR SERICITE BANDING MINOR PY PY INCREASE 477.0-479.0 3-8% 494.8 - 496.7 - DIKE? 503.6 - 503.9 - DIKE? 507.2 PY BANDING.	45°		85398	455	460	5	390	
						85399	460	465	5	130	
						85400	465	470	5	45	
						85401	470	475	5	60	
						85402	475	480	5	35	
						85403	480	485	5	40	
						85404	485	490	5	2800	
						85405	490	495	5	5	
						85406	495	500	5	30	
			END OF HOLE 540'			85407	500	505	5	80	
						85408	505	510	5	55	
			CORE RECOVERY 96% (EXCEPT WHERE NOTED OTHERWISE)			85409	510	515	5	305	
						85410	515	520	5	860	
						85411	520	525	5	45	
						85412	525	530	5	25	
						85413	530	535	5	340	



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MINING LANDS SECTION

Drilling Company LONGYEAR		Collar Elevation 1107.5	Bearing of hole from true North 510°E	Total Footage 566' BQ	Dip of Hole at Collar -45	Location of hole in relation to a fixed point on the claim. GR10 60+80 EAST 3+00 NORTH	Map Reference No. NTS. 52F/4	Claim No. K590290
Date Hole Started FEB. 20/83	Date Completed FEB. 24/83	Date Logged FEB. 28/83	Logged by R.M. BLAIS		232 Ft. -39		Location (Twp., Lot, Con. or Lat. and Long.) BROOKS LAKE SHEET. M. - 2473	Property Name MARTIN PROPERTY.
Exploration Co., Owner or Optionee MARTIN OPTION BARRIER REEF RESOURCES.		Date Submitted	Submitted by (Signature) R.M. Blais		566 Ft. -32			
					Ft.			

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb Au	Assays †	
From	To						From	To				
0	229		CASING			85456	229	235	6	25		
						85457	235	240	5	30		
						85458	240	245	5	15		
						85459	245	250	5	5		
229	278	Q.S.S. VOLCANIC BRECCIA	DISTINCTIVE LAPILLI TUFF, VERY COARSE, LIGHT FELSIC FRAGS, STRETCHED // TO FOLIATION OF CORE 45° AXIS. SERICITE BANDING, MATRIX DARKER, AGGLOMERATE? ALMOST RHYOLITIC DISSEM PY 1-5%	45°		85460	250	255	5	5		
						85461	255	260	5	15		
						85462	260	265	5	35		
						85463	265	270	5	30		
						85464	270	275	5	30		
						85465	275	280	5	15		
						85466	280	285	5	20		
						85467	285	290	5	5		
						85468	290	295	5	10		
						85469	295	300	5	5		
						85470	300	305	5	10		
						85471	305	310	5	25		
						85472	310	315	5	45		
						85473	315	320	5	90		
						85474	320	325	5	30		
						85475	325	330	5	35		
278	437	FELSIC LAPILLI TUFF (Q.S.S.)	FELSIC BUT TRACHY LOOKING, DARKER FRAGS, FRAGMENTAL TEXTURE, LESS DISTINCT SERICITE BANDING, SILICEOUS, HARD, GREY. PY INCREASE 5-10%			85476	330	335	5	15		
						85477	335	340	5	10		
						85478	340	345	5	20		
						85479	345	350	5	40		
					45°	85480	350	355	5	30		
			323.0 QTL - CARB - LARGE FRAGS.			85481	355	360	5	50		
						85482	360	365	5	15		
			325-352 CORE BLOCKY AND BROKEN, SMALL FRAGS, LIGHTER IN COLOR, NOT QUITE WHITISH-GREY			85483	365	370	5	10		
						85484	370	375	5	25		
						85485	375	380	5	15		
			364-381 SEE SAMPLE			85486	380	385	5	10		
						85487	385	390	5	35		
						85488	390	395	5	95		

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

† Additional credit available. See Assay Contract M-10-1-100.

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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.			
Date Hole Started	Date Completed	Date Logged	Logged by	Ft.	Location (Twp., Lot, Con. or Lat. and Long.)						
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)	Ft.							
				Ft.							
				Ft.	Property Name						
Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb.	Assays †
From	To						From	To			
270	437		LIGHTER COLOR, CORE BROKEN @ 420' + DISSEM. PY 5-8%			85489	395	400	5	60	
						85490	400	405	5	15	
				45°		85491	405	410	5	5	
			416'-437' CORE SUGARY LOOKING, FRIABLE			85492	410	415	5	5	
						85493	415	420	5	20	
						85494	420	425	5	5	
						85495	425	430	5	65	
						85496	430	435	5	35	
						85497	435	440	5	30	
						85498	440	445	5	85	
437	455	FELSIC TUFF + LAPILLI TUFF	GREY, FINE GRAINED (FELSIC TUFF), SILICEOUS FOLIATION NOT PRONOUNCED, MINOR SERICITE BANDING	45°		85499	445	450	5	45	
			DISSEM. PY 1-5%			85500	450	455	5	185	
						85001	455	460	5	700	
455	420	FELSIC - INT. LAPILLI TUFF	MED. - DARK GREY WITH GREENISH HUE			85002	460	465	5	240	
			APPLE GREEN COLOR WITH BEIGE SERICITE, FOLIATION			85003	465	470	5	175	
			NOT PRONOUNCED, HAS PATCHY, MOTTLED LOOK	45°		85004	470	475	5	35	
						85005	475	480	5	30	
						85006	480	485	5	195	
						85007	485	490	5	65	
			PY 2-8%			85008	490	495	5	100	
						85009	495	500	5	205	
						85010	500	505	5	105	
						85011	505	510	5	115	
						85012	510	515	5	15	
						85013	515	520	5	100	



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by		Ft.		Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Ft.			
					Ft.			
					Ft.		Property Name	

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Drilling Company LONGYEAR		Collar Elevation 1107.1	Bearing of hole from true North S10°W	Total Footage 656' BQ	Dip of Hole at Collar -45° 60 -58 170 Ft. -62 370 -59 435 Ft. -58 495 -56 565 Ft. -54 616 -52 637 Ft. -49	Location of hole in relation to a fixed point on the claim. GRID - 42+00 EAST 8+00 NORTH	Map Reference No. NTS 52F/4	Claim No. K590294
Date Hole Started FEB. 25/83	Date Completed MARCH 3/83	Date Logged MAR. 22/83	Logged by R.M. BLAIS				Location (Twp., Lot, Con. or Lat. and Long.) HERONRY LAKE M.-2475	
Exploration Co., Owner or Optionee MARTIN OPTION BARRIER REEF RESOURCES.		Date Submitted	Submitted by (Signature) R.M. Blais				Property Name MARTIN PROPERTY	

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †		
From	To						From	To				
0	173		BW CASING									
173	177		CORE BROKEN - RECOVERY 50%									
177	295	INT. TUFF + LAPILLI TUFF	GREENISH-GREY, MED. HARD, STRETCHED, FOLIATED LIGHT FRAGS. // TO FOLIATION, MINOR SERICITE. BANDING. LIGHT AND DARK BANDING. LIGHT BANDS 75% OF CORE. LIGHT BANDS - CARBONATE. 256'-295' GREENISH COLOR INCREASES. No PY.	75°								
295	302	INT. LAPILLI TUFF (PORPHYRITIC)	MED. GREY, FINE GRAINED MATRIX WITH LIGHT COLOURED PHENOCRYSTS - 3mm AND LESS (PORPHYRITIC) SOME QUARTZ - CARBONATE STRINGERS No PY	75°								
302	340	INT. TUFF + LAPILLI TUFF	DESCRIBED 177'-295' LIGHT BANDING INCREASE TO 35% OF CORE, SERICITE BANDING INCREASING. - GREENISH No PY	75°								



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.			
Date Hole Started	Date Completed	Date Logged	Logged by				Location (Twp., Lot, Con. or Lat. and Long.)	Property Name			
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)								
Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb. Au	Assays ‡
From	To						From	To			
340	352	INT.-FELSIC LAPILLI TUFF	MED. GREY, TRACHY LOOKING QTZ.-CARB. STRINGERS, SERICITE & FOLIATION HAVE SWIRLY APPEARANCE, LIGHT IN COLOR. MINOR PY 1%								
352	476	INT.-FELSIC TUFF + LAPILLI TUFF	MED.-GREY, FINE GRAINED, SILICEOUS, SERICITE BANDING (GIVE GREENISH HUE TO CORE) CHANGING T TO F, GREENISH STRETCHED FRAGS - 2 mm 375'-403' DISSEM. PY INCREASE 1-2%	70°		88221	375	380	5		
						88222	380	385	5		
476	656	FELSIC-INT TUFF + LAPILLI TUFF	GREY, LIGHT BANDING 20% OF CORE, CARBONATE STRETCHED FRAGS // TO CORE AXIS 65°, NOT AS SILICEOUS AS 352'-476' 526' + SERICITE BANDING INCREASE 545' GREENISH TINGE QTZ.-CARB. VEIN 564.5 - 565.0 475'-491' INCREASE IN SERICITE WITH PYRITE + PYRRHOTITE 1% DISSEM. PY. INCREASE 555' + 1-5% 656' END OF HOLE CORE RECOVERY 95% PLUS.	65°							



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Drilling Company LONGYEAR		Collar Elevation 1106±	Bearing of hole from true North S10°E	Total Footage 46' BQ	Dip of Hole at Collar -45	Location of hole in relation to a fixed point on the claim. GRID 69+60 EAST 1+50 NORTH	Map Reference No. NTS. 52 F/4	Claim No. K 590290					
Date Hole Started FEB. 9/83	Date Completed FEB. 10/83	Date Logged MAR. 19/83	Logged by R.M. BLAIS	32 Ft. -46			Location (Twp., Lot, Con. or Lat. and Long.) BROOKS LAKE SHEET M. - 2473						
Exploration Co., Owner or Optionee MARTIN OPTION BARRIER REEF RESOURCES		Date Submitted	Submitted by (Signature) R.M. Blais	Ft.									
				Ft.									
						Property Name MARTIN PROPERTY							
Footage From To		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.			Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage From To		Sample Length	ppb. AU	Assays †
0 35			CASING										
35 36			LOST 1' CORE										
36 46			MED. GREY, MED. HARD, MED.-COARSE STRETCHED CHLORITIC FRAGS, MED.-HEAVY SERICITE BANDING 1 CM IN WIDTH - BEIGE IN COLOR. FOLIATION 45° TO CORE AXIS, SILICEOUS MATRIX WITH BLACK MINERAL DISSEM. THRU SECTION. SALT + PEPPER EFFECT O.F.P.?			45°		88219	36 41	5		35	
		INT. LAPILLI TUFF	PY DISSEM. AND HEAVY PY BANDING 15-20% PY.					88220	41 46	5		40	
			HOLE ABANDONED DUE TO THIN ICE CONDITIONS										
			END OF HOLE 46'										

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Drilling Company LONGYEAR		Collar Elevation 1109.0	Bearing of hole from true North N 10° W	Total Footage 406' BQ	Dip of Hole at Collar - 56	Location of hole in relation to a fixed point on the claim. GRID 69+42 EAST. 0+98 NORTH	Map Reference No. NTS 52 F/4		Claim No. K590290					
Date Hole Started FEB. 11/83	Date Completed FEB. 12/83	Date Logged FEB. 15/83	Logged by R.M. BLAIS		200 Ft. - 47		Location (Twp., Lot, Con. or Lat. and Long.) BROOKS LAKE SHEET M. - 2473							
Exploration Co., Owner or Optionee MARTIN OPTION BARRIER REEF RESOURCES		Date Submitted	Submitted by (Signature) R.M. Blais		390 Ft. - 41									
					Ft.		Property Name MARTIN PROPERTY							
Footage From To		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.			Planar Feature Angle	Core Specimen Footage	Your Sample No.	Sample Footage From To		Sample Length	ppd.	Assays	
0 10			CASING											
9.0 17.8		FELSIC LAPILLI TUFF	GREY, FINE GRAINED TEXTURE, FOLIATION NOT PRONOUNCED, BEIGE SERICITE BANDS // TO FOLIATION 30° TO CORE AXIS, SMALL LIGHT AND DARK GREEN FRAGMENTALS (50-50), SECTION VERY SILICEOUS, HARD BROKEN CORE WITH WHITE QTZ.-CARB STRINGER @ 11.5 - 11.9 DISSEM. PY 1% OR LESS THRU SECTION			30°		85264	9	17.8	8.8	65		
17.8 18.8		DIKE	GREENISH, VERY FINE GRAINED (DIKE) SOFT TO MED. HARD, 2 - QTZ.-CARB. WHITE STRINGERS @ 17.6 + 18.1 17.6 COULD BE LARGE QTZ.-CARB FRAG. FOLIATION TO CORE AXIS 20°					85265	17.8	18.8	1.0	5		
18.8 20.5		FELSIC LAPILLI TUFF	DESCRIBED 9.0 - 17.8 19.2 - 19.5 WHITE QTZ.-CARB STRINGER					85266	18.8	20.5	1.7	40		
20.5 22.5		DIKE	GREENISH, VERY FINE GRAINED (DIKE) SOFT-MED. HARD QTZ.-CARB. STRINGERS AT VARIOUS ANGLES TO CORE AXIS - 40°					85267	20.5	22.5	2.0	5		
22.5 23.3		FELSIC LAPILLI TUFF	DESCRIBED 9.0 - 17.8					85268	22.5	23.3	1.2	25		



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.		Map Reference No.	Claim No.	
Date Hole Started	Date Completed	Date Logged	Logged by		Ft.			Location (Twp., Lot, Con. or Lat. and Long.)		
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Ft.					
				Ft.						
				Ft.						
								Property Name		

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	PDB AU	Assays †	
From	To						From	To				
23.3	24.5	DIKE	GREENISH, VERY FINE GRAINED (DIKE) SOFT-MED. HARD QTL-CARB STRINGERS, STRINGER @ 24.5 (0.30 WIDE) 35° TO CORE AXIS			85269	23.3	24.5	1.2	5		
24.5	27.3	FELSIC LAPILLI TUFF	DESCRIBED 9.0-17.8			85270	24.5	27.3	2.8	15		
27.3	30.5	DIKE	GREENISH, VERY FINE GRAINED (DIKE) SOFT-MED HARD QTL-CARB. STRINGER 20° TO CORE AXIS			85271	27.3	30.5	3.2	5		
30.5	33.0	FELSIC LAPILLI TUFF	DESCRIBED 9.0-17.8 COLOR CHANGING TO LT. GREY, MORE LT. FRAGS (60% OF SECTION), SILICEOUS, MINOR QTL-CARB. STRINGERS PY INCREASE 1-5%			85272	30.5	33.0	2.5	20		
33.0	36.0	DIKE	GREENISH, FINE GRAINED (DIKE), VERY SMALL DARK CHLORITIC MINERAL INCREASE, BECOMING MORE SILICEOUS TOWARD 36.0, MINOR QTL-CARB STRINGERS.			85273	33.0	36.0	3.0	5		
36.0	38.8	FELSIC LAPILLI TUFF	DESCRIBED 9.0-17.8 DISSEM. PY 1%			85274	36.0	38.8	2.8	25		
38.8	42.4	DIKE	DIKE - DESCRIBED. DESCRIBED BAND 9.0-17.8 IN THIS SECTION 40-40.3			85275	38.8	42.4	3.6	5		
42.4	45.2	FELSIC LAPILLI TUFF	DESCRIBED 9.0-17.8			85276	42.4	45.2	2.8	30		



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.		Claim No.		
Date Hole Started	Date Completed	Date Logged	Logged by	Ft.			Location (Twp., Lot, Con. or Lat. and Long.)				
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)	Ft.			Property Name				
				Ft.							
Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle °	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	PPB. AL	Assays †
From	To						From	To			
45.2	46.8	DIKE	GREENISH, FINE GRAINED (DIKE), QTZ.-CARB.-FRAGS. 90° TO CORE AXIS.			85277	45.2	46.8	1.6	5	
46.8	48.5	FELSIC LAPILLI TUFF	GREY, FINE GRAINED TEXTURE, SILICEOUS, FOLIATION NOT PRONOUNCED, FAINT BANDS OF BEIGE SERICITE SMALL LT. FRAGS. 0.05 mm OR LESS, SOME DARK FRAGS. DISSEM. PY. 1-5%			85278	46.8	48.5	1.7	20	
48.5	51.0	DIKE	GREENISH, FINE GRAINED (DIKE), LITTLE COARSER, QTZ.-CARB STRINGERS 1 cm, 90°-75° TO CORE AXIS, MED. HARD.			85279	48.5	51.0	2.5	5	
51.0	56.4	FELSIC TUFF & LAPILLI TUFF	GREY, FINE GRAINED TEXTURE, SILICEOUS, FOLIATION NOT PRONOUNCED, BANDS OF BEIGE SERICITE 45°-50° TO CORE AXIS DISSEM. PY. 1-2%	50°		85280	51.0	56.4	5.4	50	
56.4	59.0	DIKE	GREENISH, FINE GRAINED TEXTURE (DIKE) FRAG. .005 mm CHLORITIC COLORED FRAGS. IN MATRIX, MED. HARD, QTZ.-CARB STRINGERS (2-0.04 WIDE) 85° TO CORE AXIS								
59.0	60.0	FELSIC TUFF	GREY, HARD, BECOMING SILICEOUS, QTZ.-CARB. STRINGER 85° TO CORE AXIS AT CONTACT 59.0-59.1 - BAND OF .005 mm DARK FRAGS. PY 5%+			85281	59.0	60.0	3.6	5	



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by		Fl.		Location (Twp., Lot, Con. or Lat. and Long.)	Property Name
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Fl.			
					Fl.			
					Fl.			

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle °	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb.	Assays †	
From	To						From	To				
98.4	107.4	FELSIC TUFF	GREY, FINE GRAINED TEXTURE, MED. HARD, SILICEOUS FOLIATION NOT PRONOUNCED PY 5-15% DISSEM. WITH CONCENTRATIONS @ 107.0 - 107.4 BANDS PY // TO FOLIATION 50° TO CORE AXIS.			85203	100	105	5	40		
						85204	105	110	5	90		
107.4	137.8	FELSIC LAPILLI TUFF	GREY, MED. HARD, FRAGMENTAL, LT. COLORED STRENGTHENED FRAGS (CARBONATE) 1mm - 3mm // TO CORE AXIS. LESS THAN 20% DARK CHLORITIC FRAGS, FOLIATION 40° AD° TO CORE AXIS. SCHISTOSITY INCREASING 128.3-132.0 MINOR QTZ-CARB STRINGERS, CORE BROKEN 128.3-132.0 PY DISSEM 1% P.S.S. 128'-132' PY INCREASE 124.0-137.8			85205	110	115	5	35		
						85206	115	120	5	25		
						85207	120	125	5	20		
						85208	125	130	5	50		
						85209	130	135	5	25		
						85210	135	140	5	20		
137.8	143.0	FELSIC LAPILLI TUFF	GREY, (DARKER THAN PREVIOUS SECTION), FINE GRAINED, 1mm LIGHT FRAGS IN GREY MATRIX (PORPHYRITIC) MINOR QTZ-CARB STRINGERS PY DECREASE PY BAND @ 138.5 TS° TO CORE AXIS.			85211	140	145	5	20		
143.0	157.0	FELSIC LAPILLI TUFF	GREY, FRAGMENTAL, MED. HARD, FOLIATION 70° TO CORE AXIS, SERICITE BANDS // TO FOLIATION, FOLIATION INCREASING, BLACK PUNKY MINERAL (COAL LIKE) ASSOCIATED WITH QTZ-CARB. FRAGS // TO CORE AXIS PY 1-5%	70°		85212	145	150	5	45		
						85213	150	155	5	40		



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.
Date Hole Started	Date Completed	Date Logged	Logged by		Ft.		Location (Twp., Lot, Con. or Lat. and Long.)	Property Name
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Ft.			
					Ft.			

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb	Assays ‡
From	To						From	To			
157.0	172.0	FELSIC TUFF + LAPILLI TUFF	GREY, MED. HARD, FRAGMENTAL, LARGE LT. FRAGS STRETCHED 75° TO CORE AXIS, LT. FRAGS 40% OF CORE, CHLORITIC FRAGS 60% CORE, SERICITE BANDING INCREASING // TO CORE AXIS, BECOMING MORE SILICEOUS, SOME LT. FRAGS CARBONATE 162.0-162.4 BLACK PUNKY MINERAL (COAL LIKE) 7° TO CORE AXIS PY 5-10%	75°		85214	155	160	5	415	
						85215	160	165	5	30	
						85216	165	170	5	10	
172.0	176.0	FELSIC TUFF (Q.F.P.)	GREY (GREENISH), HIGHLY FOLIATED 75° TO CORE AXIS SERICITE BANDS // TO CORE AXIS, CONTACT BET'N FRAGS & Q.F.P. SECTION.	75°		85217	170	175	5	45	
176.0	237.0	Q.S.S. (Q.F.P.)	ESTIMATE THIS START OF ORE SECTION? 176.0-192.5 SALT + PEPPER Q.F.P. (BLACK MINERAL IN GREY QTZ. MATRIX) BLACK MINERAL PREDOMINATES. 175.0-184.0 BLACK MINERAL DISSEM THRU HARD SILICEOUS GREY MATRIX 184.0-192.5 BLACK MINERAL 30-40% OF CORE PREDOMINATES IN SILICEOUS GREY MATRIX, BAND OF SERICITE // TO CORE AXIS @ 75° SERICITE BANDS UP TO 1CM IN WIDTH @ 189.4 + 190.1 BEIGE SERICITE HAS DEFINITE APPLE GREEN COLOR (MARPOSITE??) PY BANDS // TO CORE AXIS QTZ-CARB VEINS @ 175.6-176.0, 176.1-176.2, 176.3-176.4, 177.4-177.7, @ 180.0 QTZ-CARB FRAG? 192.5-196.7 SAME AS 176.0-192.5 FINE TEXTURE, SILICEOUS, FOLIATION NOT PRONOUNCED AS PREVIOUS SECTION DISSEM. PY 10-20%	75°		85218	175	180	5	220	
						85219	180	185	5	4500	
						85220	185	190	5	785	
						85221	190	195	5	135	



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Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.		Claim No.		
Date Hole Started	Date Completed	Date Logged	Logged by				Location (Twp., Lot, Con. or Lat. and Long.)				
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)				Property Name				
Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	PPB	Assays †
From	To						From	To			
255.0	354.4	INT. - FELSIC TUFF + LAPILLI TUFF	MED. GREY, FRAGMENTAL, FOLIATION 70° TO CORE AXIS, MED. HARD, FAIRLY SILICEOUS (GREY IN COLOR) LT. FRAGS STRETCHED // TO CORE AXIS 1-2 mm UP TO 5 cm LONG, CHLORITIC FRAGS 1mm-3mm SERICITE BANDS VERY THIN 0.05 mm WIDE DISSEM. PY 1-2%	70°		85234	255	260	5	15	
			QTZ. - CARB STRINGERS @ 255.3-255.7, 256.8-258.1 PY INCREASE 280.0-265.0, 285.4-286.0 1-5%			85235	260	265	5	10	
			296.0-298.2 GREY, FINE GRAINED (DIKE?) MINOR LT+ DARK FRAGS, FOLIATION NOT PRONOUNCED			85236	265	270	5	20	
			QTZ. - CARB STRINGERS 296.0, 296.2 65° TO CORE AXIS			85237	270	275	5	25	
			315.7-316.0 INCREASE OF GREY QTZ., PY INCREASE			85238	275	280	5	5	
			QTZ. STRINGERS 329.2-329.7, 329.85-329.95			85239	280	285	5	10	
			330.2-330.3 - 90° TO CORE AXIS			85240	285	290	5	55	
			PY INCREASE 334.0-340.0			85241	290	295	5	15	
			344.5-346.0 5%			85242	295	300	5	25	
						85243	300	305	5	15	
						85244	305	310	5	5	
						85245	310	315	5	30	
						85246	315	320	5	75	
						85247	320	325	5	5	
						85248	325	330	5	5	
						85249	330	335	5	5	
						85250	335	340	5	5	
						85251	340	345	5	5	
						85252	345	350	5	5	
						85253	350	355	5	30	
354.4	372.0	FELSIC TUFF + LAPILLI TUFF	GREY (LIGHT), FINE GRAINED, FOLIATION NOT PRONOUNCED, MED. HARD, SILICEOUS, MINOR QTZ-CARB. STRINGERS 90° TO CORE AXIS			85254	355	360	5	5	
			366.1-366.2 QTZ.-CARB FRAGS			85255	360	365	5	25	
			DISSEM. PY 1%			85256	365	370	5	5	
						85257	370	375	5	5	



Diamond Drilling Log

Hole No.	9	Page No.	9
----------	---	----------	---

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Location of hole in relation to a fixed point on the claim.		Map Reference No.		Claim No.		
Date Hole Started	Date Completed	Date Logged	Logged by	Ft.	Location (Twp., Lot, Con. or Lat. and Long.)							
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)	Ft.								
		Ft.	Ft.									
								Property Name				
Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle °	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ppb - Assays ‡		
From	To						From	To		AU		
372.0	406.0	INT. - FELSIC TUFF + LAPILLI TUFF	MED. GREY, FRAGMENTAL, FOLIATION 50° TO CORE AXIS, SILICEOUS, MED. HARD (AS DESCRIBED 255.0-354.4) MINOR PY BANDING @ 389.4, 394.7-395.3, 398.0-398.3	50°		85258	375	380	5	30		
						85259	380	385	5	55		
						85260	385	390	5	5		
						85261	390	395	5	15		
			401.4 - 404.0 GREY QTZ. INCREASE, FOLIATION NOT PRONOUNCED			85262	395	400	5	5		
			PY INCREASE 1-3%			85263	400	406	6	90		
END OF HOLE 406.0												
CORE RECOVERY 96%+												



52F04NE0031 2.5680 BROOKS LAKE

900

1984 05 17

Your File: 97-83
Our File: 2.5680

Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

Dear Sir:

RE: Notice of Intent dated April 27, 1984
Geochemical Survey on Mining Claims
K 590290 et al in the Area of Brooks Lake
and Heronry Lake

The assessment work credits as listed with the above-mentioned
Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims
and so indicate on your records.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416) 965-6918

D. Kinvig:mc

cc: Francis Resources Ltd
Suite 3000
1055 West Georgia Street
Vancouver, B.C.
V6E 3R3

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

cc: Resident Geologist
Kenora, Ontario



Technical Assessment Work Credits

Date
1984 04 27

Mineral Recorder's Report of
Work No. 97-83

Recorded Holder

FRANCIS RESOURCES LTD

Township or Area

BROOKS LAKE & HERONRY LAKE

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ 28 _____ days Man days ☐ Airborne ☐ Special provision ☒ Ground ☒ ☒ Credits have been reduced because of partial coverage of claims. ☐ Credits have been reduced because of corrections to work dates and figures of applicant.	K 590290 590292 to 299 inclusive

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—60:



Ministry of
Natural
Resources

May 14/84

1984 04 27

Your File: 97-83
Our File: 2.5680

Mr. Wade S. Mathew
Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact
Mr. F.W. Matthews at 416/965-6918.

Yours very truly,

S.F. Yundt
Director
Land Management Branch

*Need final
Letter after
Notice of
Intent.*

-Dennis-

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

YS. Hurst:mc

Encls.

cc: Francis Resources Ltd
Suite 3000
1055 West Georgia Street
Vancouver, B.C.
V6E 3R3

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

cc: Resident Geologist
Kenora, Ontario



Ministry of
Natural
Resources

Notice of Intent for Technical Reports

1984 04 27

2.5680/97-83

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

Type of Survey(s) GEOCHEMICAL - LAKE SEDIMENT SAMPLING		Township or Area BROOKS LAKE M-2473 HERONRY LAKE M-2475													
Claim Holder(s) FRANCIS RESOURCES LTD.		Prospector's Licence No. T-1316													
Address 3000-1055 WEST GEORGIA STREET VANCOUVER, B.C. V6E 3R3															
Survey Company BARRIER REEF RESOURCES LTD.		Date of Survey (from & to) <table border="1"> <tr> <td>04</td><td>01</td><td>83</td> <td>31</td><td>03</td><td>83</td> </tr> <tr> <td>Day</td><td>Mo.</td><td>Yr.</td> <td>Day</td><td>Mo.</td><td>Yr.</td> </tr> </table>		04	01	83	31	03	83	Day	Mo.	Yr.	Day	Mo.	Yr.
04	01	83	31	03	83										
Day	Mo.	Yr.	Day	Mo.	Yr.										
Name and Address of Author (of Geo-Technical report) R.M. BLAIS, P.ENG. 1425 PINEGROVE CRES., NORTH BAY, ONTARIO P1B 4P9		Total Miles of line Cut 9.2 MILES GRID ON LAKE													

Credits Requested per Each Claim in Columns at right

Special Provisions For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Electromagnetic - Magnetometer - Radiometric - Other Geological Geochemical	Days per Claim 40
Man Days Complete reverse side and enter total(s) here	Geophysical - Electromagnetic - Magnetometer - Radiometric - Other Geological Geochemical	Days per Claim
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic Magnetometer Radiometric	Days per Claim

Mining Claims Traversed (List in numerical sequence)

[illegible]

Expenditures (excludes power stripping)

Type of Work Performed LAKE SEDIMENT			
SAMPLES BOTTOM OF GROW LAKE			
ALONG GRID.			
Performed on Claim(s) K 590290, K590292			
K 590293, K590294, K590295			
K590296, K590297, K590298			
K590299			
Calculation of Expenditure Days Credits			
Total Expenditures			Total Days Credits
\$	÷	15	=
Instructions			
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.			

Date JULY 06/83	Recorded Holder or Agent (Signature) Rm Blais
--------------------	--

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 RONALD M. BLAIS 1425 PINEGROVE CRES. NORTH BAY, ONTARIO P1B 4P9		
Date Certified JULY 06, 1983	Certified by (Signature) 	



Report of Work

(Geophysical, Geological,
Geochemical and Expenditures)

Instructions: — Please type or print.
— If number of mining claims traversed exceeds space on this form, attach a list.

Note: — Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
— Do not use shaded areas below.

The Mining Act

Q.5680

#82-83

Type of Survey(s) ASSAYS - DIAMOND DRILL HOLE CORE		Township or Area BROOKS LAKE M-2473 HERONRY LAKE M-2475	
Claim Holder(s) FRANCIS RESOURCES LTD.		Prospector's Licence No. T-1316	
Address 3000 - 1055 WEST GEORGIA STREET VANCOUVER, B.C. V6E 3R3			
Survey Company		Date of Survey (from & to) 09 02 83 12 04 83 Day Mo. Yr. Day Mo. Yr.	
Name and Address of Author (of Geo-Technical report)		Total Miles of line Cut	

Credits Requested per Each Claim in Columns at right

Special Provisions For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Electromagnetic - Magnetometer - Radiometric - Other Geological Geochemical	Days per Claim
Man Days Complete reverse side and enter total(s) here	Geophysical - Electromagnetic - Magnetometer - Radiometric - Other Geological Geochemical	Days per Claim
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic Magnetometer Radiometric	Days per Claim

Geological
RECEIVED
Geochemical

Electromagnetic
Magnetometer

MINING LANDS SECTION

Expenditures (excludes power stripping)

Type of Work Performed	CHEMICAL ASSAYS
Performed on Claim(s)	K 590 290, K 590298 K 590296, K 365 049, K 590294, K 590624

Calculation of Expenditure Days Credits

$$\frac{\text{Total Expenditures}}{\$ 5,602.1} \div \frac{\text{Total Days Credits}}{15} = 373$$

Instructions

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

Date JUNE 30/83	Recorded Holder or Agent (Signature) <i>Rm Blais</i>
--------------------	---

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

RONALD M. BLAIS 705-474-4793

1425 PINEGROVE CRESC.
NORTH BAY, ONTARIO PIB 4P9

Date Certified
JUNE 30, 1983

Certified by (Signature)

Erin Blais

Mining Claims Traversed (List in numerical sequence)

[illegible]

590290

Total number of mining claims covered by this report of work.

10.

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Record
373	June 30 / 83	<i>[Signature]</i>
	Date Approved / Recorded	Grand Director
	84.4.27	<i>[Signature]</i>

1362 (81/9)

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey						
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days
			=	Total Credits	+	No. of Claims
			=	Days per Claim		

Type of Survey						
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days
			=	Total Credits	+	No. of Claims
			=	Days per Claim		

Type of Survey						
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days
			=	Total Credits	+	No. of Claims
			=	Days per Claim		

Type of Survey						
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days
			=	Total Credits	+	No. of Claims
			=	Days per Claim		

ASSAY RESULTS OF CORE SUBMITTED
WITH DIAMOND DRILL HOLE LOGS WORK REPORT # 57-83
DATE OF REPORT MAY 18, 1983
BY RM BLAIS
FOR FRANCIS RESOURCES LTD.
PROSPECTOR'S LLC T-1316

RMB.

2.5680

R.M. Blais & Associates Limited**Civil and Mining Engineers**

1425 PINEGROVE CRES.

NORTH BAY, ONTARIO
P1B 4P9Office 705-474-4110
Home 705-474-4793*Asses.*

April 11, 1984

J.R. Morton
Acting Director
Land Management Branch
Ministry Of Natural Resources
Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

RECEIVED	
Land Management Branch	
CIRCULATE	☐
COMMENTS PLEASE	☐
BY	
APR 13 1984	
S. E. YUNDT	
J. R. MORTON	
J. C. SMITH	
W. L. GOOD	
REF ID	R. 6643

Dear Sir,

RE: Data for Assaying submitted on Mining
Claims K. 590290 et al in the Areas of
Brooks and Heronry Lakes - Your File 2.5680

Please find enclosed plans, in duplicate, dated
and signed as requested in your letter of
February 28, 1984.

These plans are being forwarded by Purolator
Courier Ltd.

Yours truly.

R.M. Blais

R.M. Blais, P.Eng.

cc. A.F. Reeve
Barrier Reef Resources

Your File: 2.5680

February 28, 1984.

Francis Resources Ltd.
Suite 3000
1055 West Georgia Street
Vancouver, B.C.
V6E 3R3

Dear Sirs:

RE: Data for Assaying submitted on Mining Claims K 590290
et al in the Areas of Brooks and Heronry Lakes.

Enclosed are the plans, in duplicate, for the above-mentioned surveys. Please have the author of the report date and sign all maps and return them to this office as soon as possible.

For further information, please contact Mr. F.W. Matthews at (416) 965-1380.

Yours very truly,

J.R. Morton
Acting Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

M.E. Anderson:dg

Encls:

cc: Mining Recorder
Kenora, Ontario.



Ministry of
Natural
Resources

Geotechnical
Report
Approval

File
2.5680

Mining Lands Comments

<i>not signed</i>

☐ To: Geophysics

Comments		
☐ Approved	☐ Wish to see again with corrections	Date
		Signature

☐ To: Geology - Expenditures

Comments		
☐ Approved	☐ Wish to see again with corrections	Date
		Signature

☒ To: Geochemistry

Dr. Fortesque

Comments		
☒ Approved	☐ Wish to see again with corrections	Date
		Signature
		<i>Feb 10 1984</i>
		<i>John A. Fortesque</i>

☐ To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1380)



Ministry of
Natural
Resources

Geotechnical
Report
Approval

File # **2.5680**

Aug. 19/83

Mining Lands Comments

You wanted to see this again. Additional material taken from 2.5758

☐ To: Geophysics

Comments

☐ Approved

☐ Wish to see again with corrections

Date

Signature

☒ To: Geology - Expenditures

Mr. Kustra

Comments

☒ Approved

☐ Wish to see again with corrections

Date

Signature

Aug 19/83 C Kustra

☐ To: Geochemistry

Comments

☐ Approved

☐ Wish to see again with corrections

Date

Signature

☐ To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1380)



July 20/83.

Mining Lands Comments

- Need Rec of Expenditures (cancelled
cheques, etc.)

☐ To: Geophysics

Comments

☐ Approved

☐ Wish to see again with corrections

Date

Signature

☒ To: Geology - Expenditures

Mr. Kustra.

Comments

We need a location (key) map and a map
showing where drill collars are located relative
to claim corners / grid lines. Also log of drill
holes showing depth along hole where samples taken.

Maybe see this is in report 57-83 it was (2.5758)

☐ Approved

☒ Wish to see again with corrections

Date

Signature

Aug 11/83

Kustra

☐ To: Geochemistry

Comments

L.D.

☐ Approved

☐ Wish to see again with corrections

Date

Signature

To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1380)

82-83 590290

2.5680

1983 07 14

Mr. Wade Mathew
Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5160
Kenora, Ontario
P9N 3X9

Dear Sir:

We have received data for Assaying submitted under Section 77(19) of the Mining Act R.S.O. 1980 for mining claims K 590290 et al in the Areas of Brooks and Heronry Lakes.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416) 965-1380

A. Barr:mc

cc: Francis Resources Ltd
3000 - 1055 West Georgia Street
Vancouver, B.C.
V6E 3R3

APPENDIX 'F'

Geochemical Assay Certificates

- Lake Sediment Samples (see folder)



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

phone: 253-3158

To: Barrier Reef Resources Ltd.,
904 - 675 W. Hastings St.,
Vancouver, B.C.
V6B 1N2

c.c. Westor Falls, Ontario

File No. 83-0056Type of Samples Sediments

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	As	Au ppb										
1	14	5										1
5	6	5										2
8	2	-	- not enough sample for Au									3
												4
10	8	5										5
11	10	5										6
12	5	5										7
13	13	5										8
14	2	5										9
15	2	5										10
16	2	5										11
17	11	5										12
18	12	5										13
19	13	5										14
20	12	5										15
21	15	5										16
22	12	5										17
23	8	5										18
24	10	5										19
25	7	5										20
26	2	5										21
27	12	5										22
28	6	5										23
29	2	5										24
30	7	5										25
31	11	5										26
32	7	5										27
33	7	5										28
34	7	5										29
35	6	5										30
36	12	5										31
37	5	5										32
38	6	5										33
39	4	5										34
40	2	5										35
41	3	5										36
42	8	5										37
43	2	5										38
												39
												40

RECEIVED

AUG 17 1983

MINING LANDS SECTION

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Jan. 25, 1983DATE REPORTS MAILED Feb. 2, 1983

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Barrier Reef Res.

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 83-0056

Type of Samples Sediments

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	As	Au pph											
44	15	5											1
45	15	5											2
46	8	10											3
47	11	5											4
48	6	5											5
49	4	15											6
50	10	5											7
51	7	5											8
52	12	5											9
53	7	5											10
54	8	10											11
55	11	15											12
56	4	10											13
57	9	5											14
58	2	5											15
59	14	5											16
60	16	5											17
61	4	5											18
62	7	5											19
63	3	20											20
64	9	5											21
65	8	10											22
66	14	5											23
													24
													25
													26
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													28
													29
													30
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													34
													35
													36
													37
													38
													39
													40

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

* Pb, Sb, Sn present.

DATE SAMPLES RECEIVED Jan. 25, 1983

DATE REPORTS MAILED Feb. 2, 1983

ASSAYER D. Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

phone: 253-3158

To: Barrier Reef Res. Ltd.,
904 - 675 W. Hastings St.,
Vancouver, B.C.

Project : Crow Lake

File No. 83-0310

Type of Samples Lake Sed

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	As	Au ppb											
67	2	5											1
68	12	10											2
69	11	5											3
70	8	5											4
71	7	5											5
72	6	5											6
73	4	5											7
74	5	5											8
75	7	5											9
76	4	5											10
77	4	5											11
78	3	5											12
79	6	10											13
80	10	5											14
81	6	5											15
82	13	10											16
83	7	5											17
84	9	5											18
85	3	5											19
86	5	5											20
87	11	10											21
88	4	5											22
89	12	15											23
90	4	5											24
91	5	5											25
92	2	5											26
93	5	5											27
94	3	5											28
95	9	5											29
96	3	5											30
97	6	5											31
98	4	5											32
99	4	10											33
100	2	5											34
													35
101	8	15											36
102	9	5											37
103	3	5											38
													39
													40

RECEIVED

AUG 17 1983

MINING LANDS SECTION

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Mar. 29, 1983

DATE REPORTS MAILED Apr. 7, 1983

ASSAYER

B. Toye
DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Barrier Reef Res.

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

phone: 253-3158

File No. 83-0310

Type of Samples Lake Sed

GEOCHEMICAL ASSAY CERTIFICATE

Disposition

SAMPLE No.	As	Au ppb											
104	11	5											1
105	8	10											2
106	6	5											3
107	15	5											4
108	9	5											5
109	9	5											6
110	4	5											7
111	8	5											8
													9
													10
													11
													12
													13
													14
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													30
													31
													32
													33
													34
													35
													36
													37
													38
													39
													40

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Mar. 29, 1983

DATE REPORTS MAILED Apr. 7, 1983

ASSAYER *B. Toye*

for
DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy – Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

Instrument _____

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time _____ Frequency _____

– Off time _____ Range _____

– Delay time _____

– Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

INDUCED POLARIZATION RESISTIVITY

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth -- include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken K590290, K590292, K590293,
K590294, K590295, K590296, K590297, K590298, K590299

Total Number of Samples 105

Type of Sample GREY SILTY CLAY
 (Nature of Material)

Average Sample Weight 2 POUNDS

Method of Collection 2" DIAMETERS
SOIL SAMPLER
GEOLOGICAL SURVEY OF CANADA

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth 8"
(KAKAGI)

Terrain LAKE BOTTOM - CROW LAKE

Drainage Development _____

Estimated Range of Overburden Thickness _____

15 FEET TO MAXIMUM OF

35 FEET

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

- 80 MESH

General SOIL SAMPLES ARE DRIED

AT 60°C AND SEIVED TO - 80 MESH

ANALYTICAL METHODS

Values expressed in: per cent ☐
 p. p. m. ☒
 p. p. b. ☒

Cu, Pb, Zn, Ni, Co, Ag, Mo, (As)-(circle)

Others Au (ppb) As (ppm)

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)
ACME ANALYTICAL LABORATORIES LTD.

Name of Laboratory VANCOUVER, B.C.

Extraction Method _____

Analytical Method _____

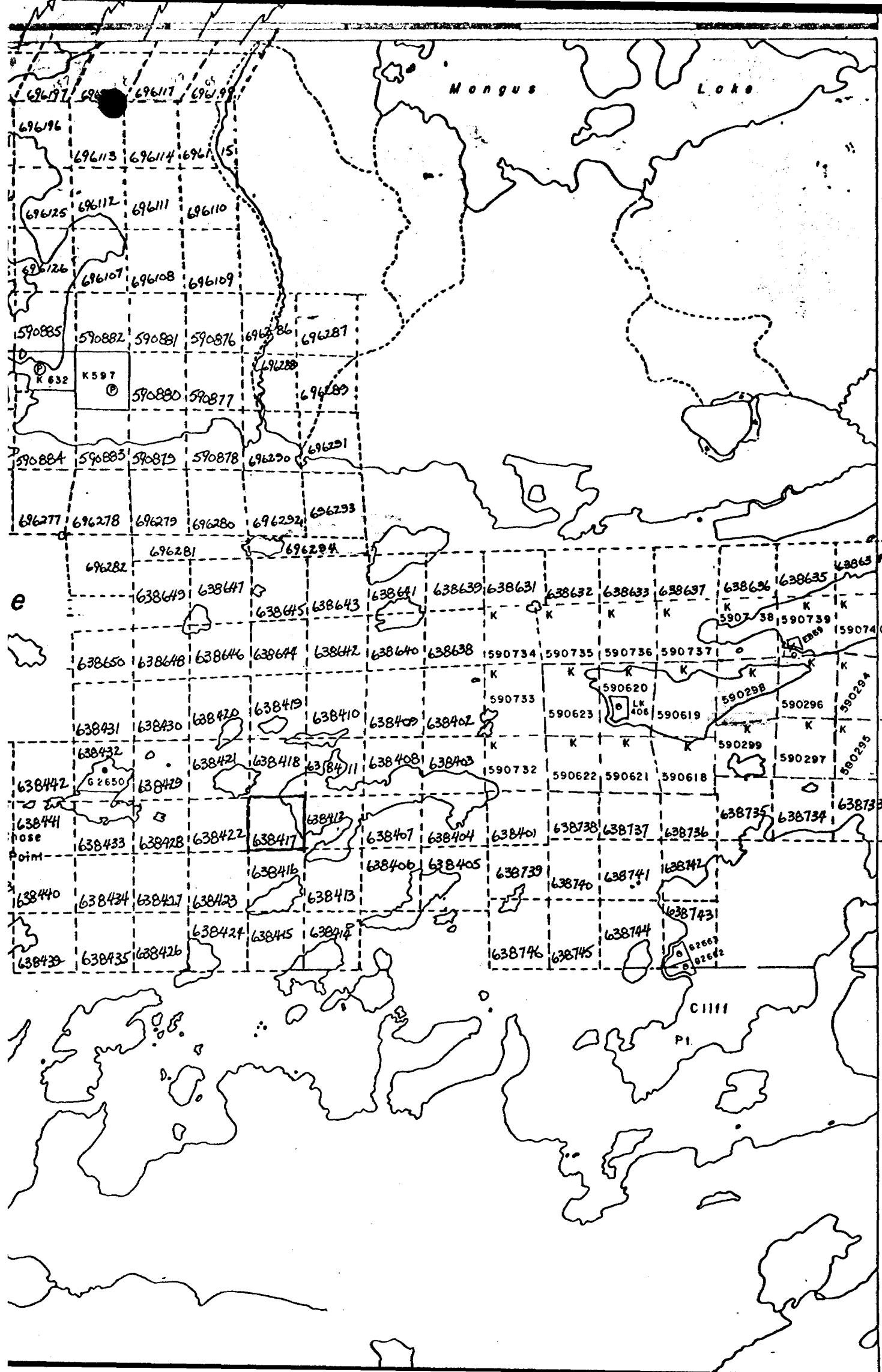
Reagents Used _____

GEOCHEMICAL AS ANALYSIS -

General 0.5 GRAM SAMPLES ARE DIGESTED
IN HOT DILUTE AQUA REGIA IN A BOILING
WATER BATH AND DILUTED TO 10 ML. WITH
DEMINEALIZED WATER. EXTRACTED METALS
ARE DETERMINED BY INDUCTIVELY COUPLED
ARGON PLASMA (ICP).

GEOCHEM AU ANALYSIS

10.0 GRAM SAMPLES THAT HAVE BEEN
IGNITED OVERNITE AT 600°C ARE
DIGESTED WITH HOT DILUTE AQUA REGIA,
AND THE CLEAR SOLUTION OBTAINED IS
EXTRACTED METHYL ISOBUTYL KETONE.
AU IS DETERMINED IN THE MIBK, EXTRACT
BY ATOMIC ABSORPTION USING BACKGROUND
CORRECTION (DETECTION LIMIT = 5 PPB
DIRECT AA AND 1 PPB GRAPHITE AA.)



14'

13'

12'

11'

Cychem

Assay

590290

✓

590290

✓

292

✓

298

✓

293

3/4 x

296

✓

294

✓

365049

✓

295

3/4 x

590294

✓

296

1/4 x

590624

✓

297

3/4 x

298

1/2 x

299

3/4 x

$$9 \times 40 = 360$$

$$\frac{360}{12.75} = 28.23$$

$$= 28$$

6N

4N

2N

2S

Hay Island

DDH - 10
- 45°
586'

TOP OF ICE 1106' ±

BASELINE N 80° E

LEGEND

IF

INTERMEDIATE VOLCANIC FRAGMENTAL ROCKS -

Tuff and lapilli tuff, greenish hue, includes lesser bands and lenses of felsitic fragmental material. Moderately schistose with stretched fragments. Composition varies from andesite to diorite.

QSS

QUARTZ SERICITE SCHIST -

Whitish to greenish grey. Strong schistose texture with heavy bands of sericite along with grey siliceous material. Composition from rhyolite to dacite.

FF

FELSIC VOLCANIC FRAGMENTAL ROCKS -

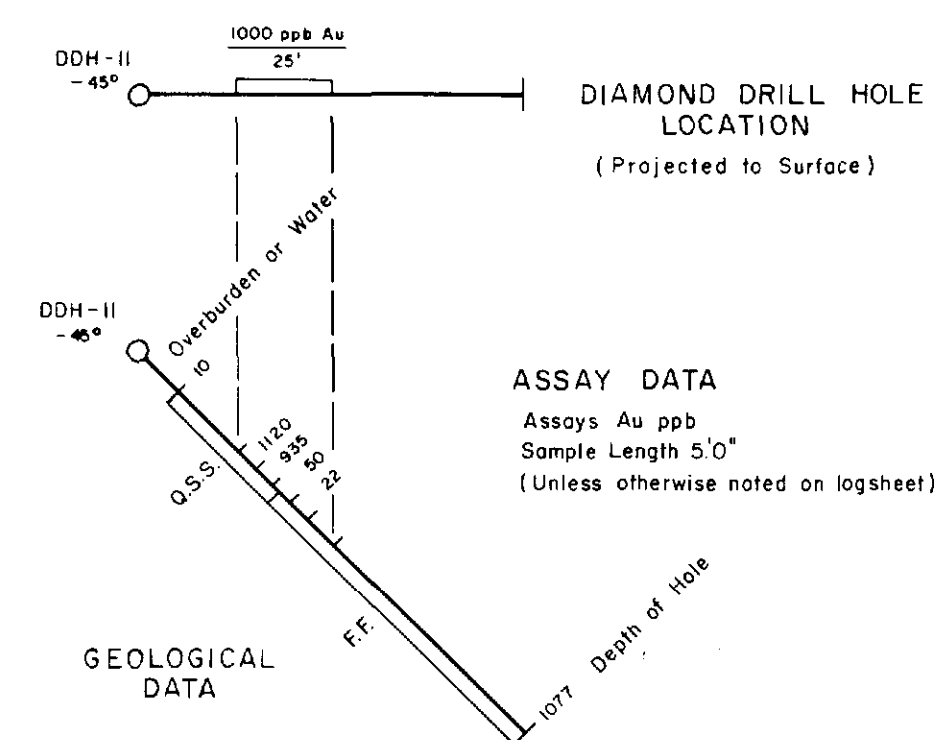
Tuff and lapilli tuff, generally grey, includes lesser bands and lenses of intermediate and sometimes mafic material. Moderately schistose with stretched fragments. General composition of dacite.

ZONE

GOLD BEARING ZONE -

Felsic fragmental rocks and quartz sericite schist containing 5 - 25 % pyrite, 100 to 3000 ppb gold and minor silver.

SYMBOLS



LOOKING N 80° E
AZIMUTH DDH-10 350°

R.M. Blais
April 11, 1984

BARRIER REEF RESOURCES LTD.

CROW LAKE GOLD PROSPECT
DIAMOND DRILL HOLE
SECTION 16 + 50 E

MARTIN OPTION
KENORA MINING DIVISION, ONTARIO

N.T.S. : 52 F / 4

SCALE 40 FEET 0 40

DRAWN BY: K.D.H.

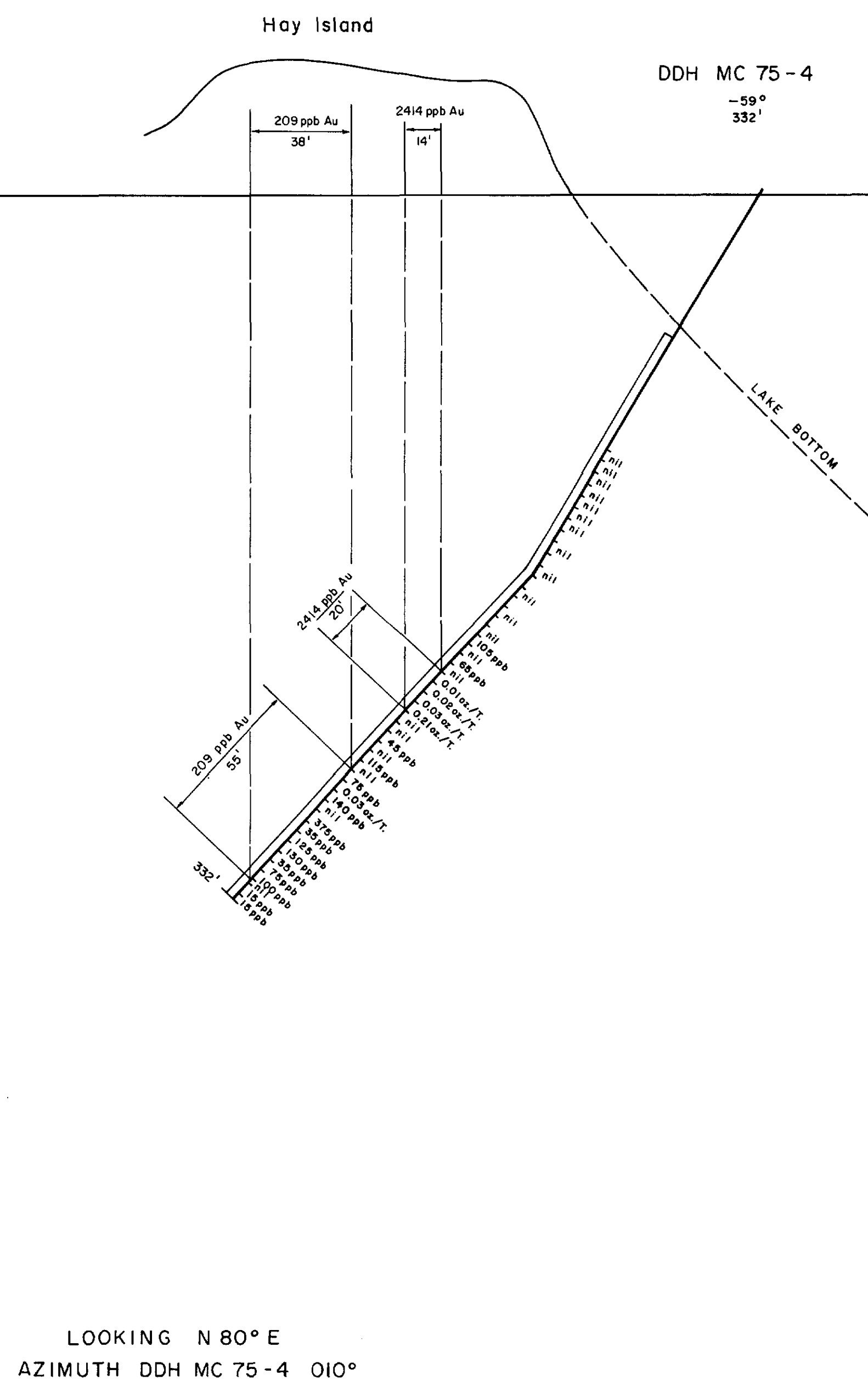
DATE: APRIL 1983

APPROVED BY: R.M. BLAIS

DRAWING No.: 83 - 004

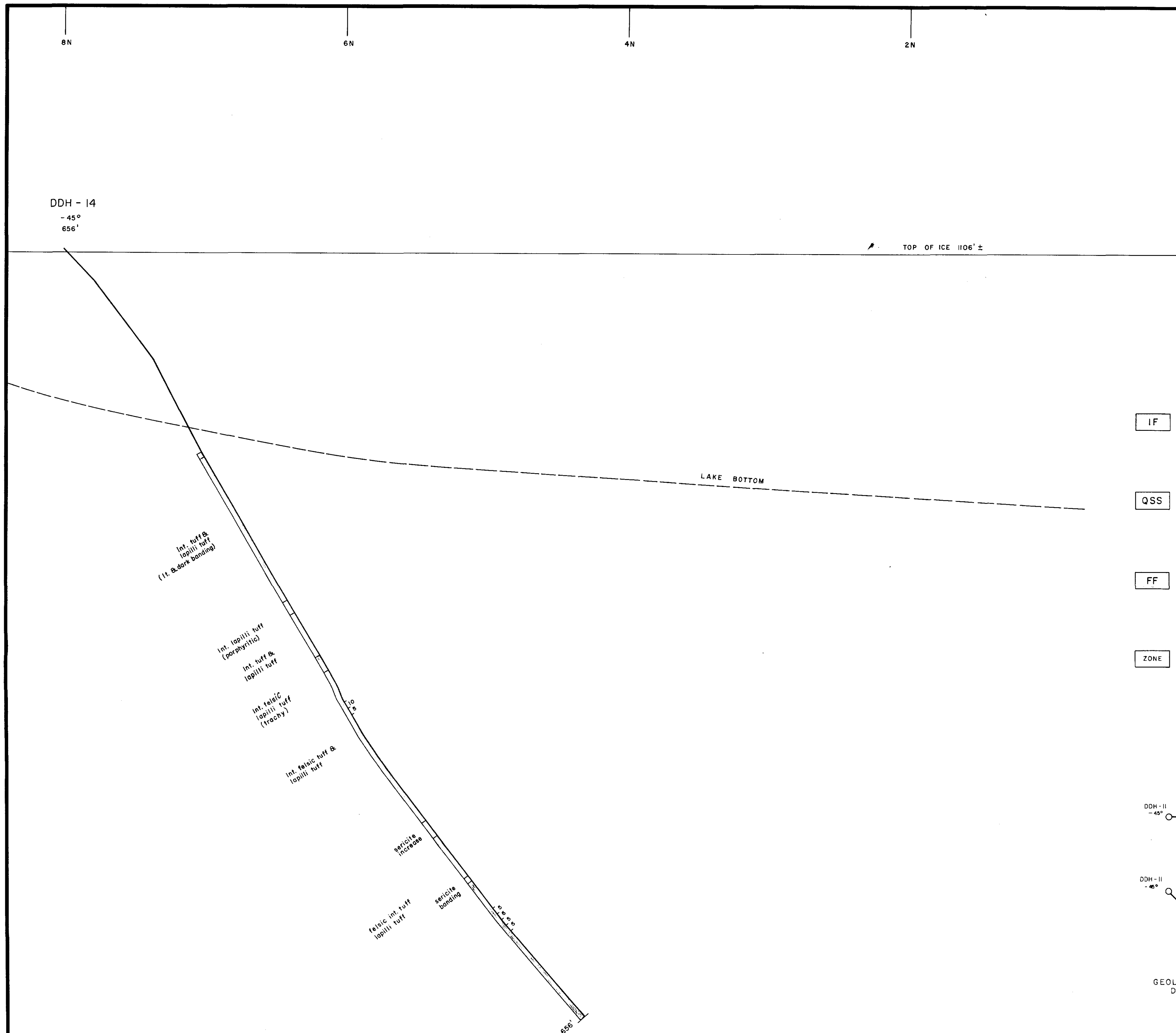


52F04NE0031 2.5680 BROOKS LAKE



NOTE:

- 1) DIAMOND DRILL HOLE SECTIONS
PLOTTED FROM G.W. ADAMS REPORT 1975.
- 2) ASSAY DATA PLOTTED FROM 1975 DRILL
HOLE LOGS FROM G.W. ADAMS REPORT
1975. (OZ. PER TON)
- 3) ADDED TO DRILL SECTIONS 1983 ASSAY
DATA IN PARTS PER BILLION. (ppb)

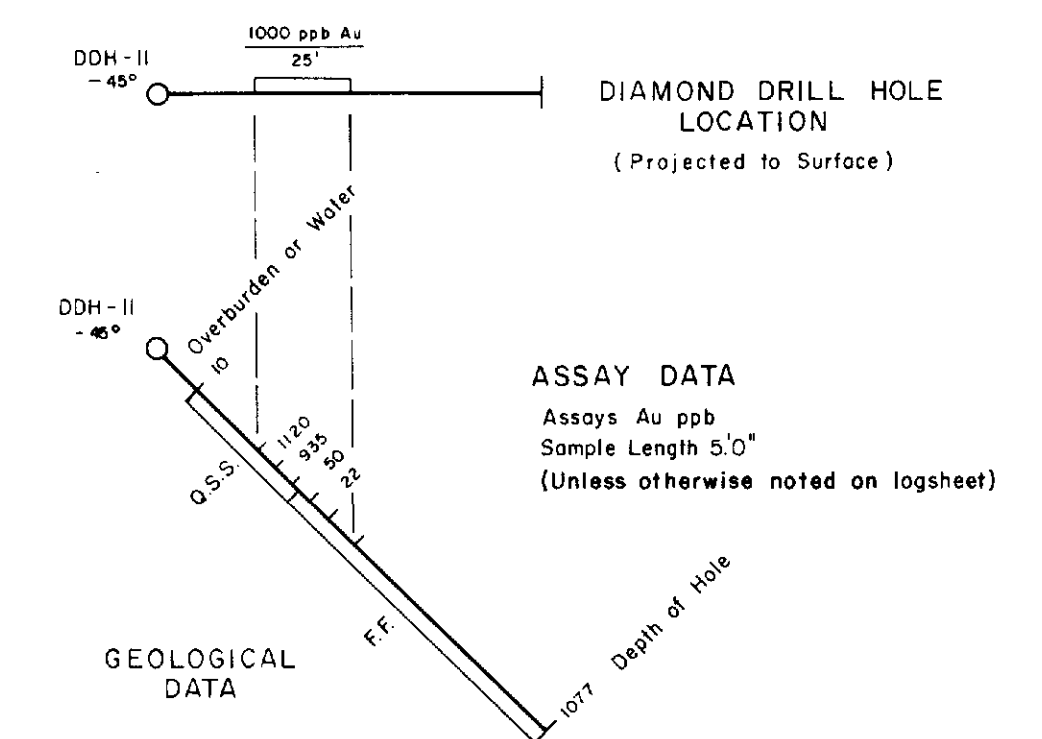


LOOKING N 80° E
AZIMUTH DDH-14 170°

LEGEND

- IF** INTERMEDIATE VOLCANIC FRAGMENTAL ROCKS -
Tuff and lapilli tuff, greenish hue, includes lesser bands and lenses of felsitic fragmental material. Moderately schistose with stretched fragments. Composition varies from andesite to diorite.
- QSS** QUARTZ SERICITE SCHIST -
Whitish to greenish grey. Strong schistose texture with heavy bands of sericite along with grey siliceous material. Composition from rhyolite to dacite.
- FF** FELSIC VOLCANIC FRAGMENTAL ROCKS -
Tuff and lapilli tuff, generally grey, includes lesser bands and lenses of intermediate and sometimes mafic material. Moderately schistose with stretched fragments. General composition of dacite.
- ZONE** GOLD BEARING ZONE -
Felsic fragmental rocks and quartz sericite schist containing 5 - 25 % pyrite, 100 to 3000 ppb gold and minor silver.

SYMBOLS



Am Blais
April 11, 1984

BARRIER REEF RESOURCES LTD.

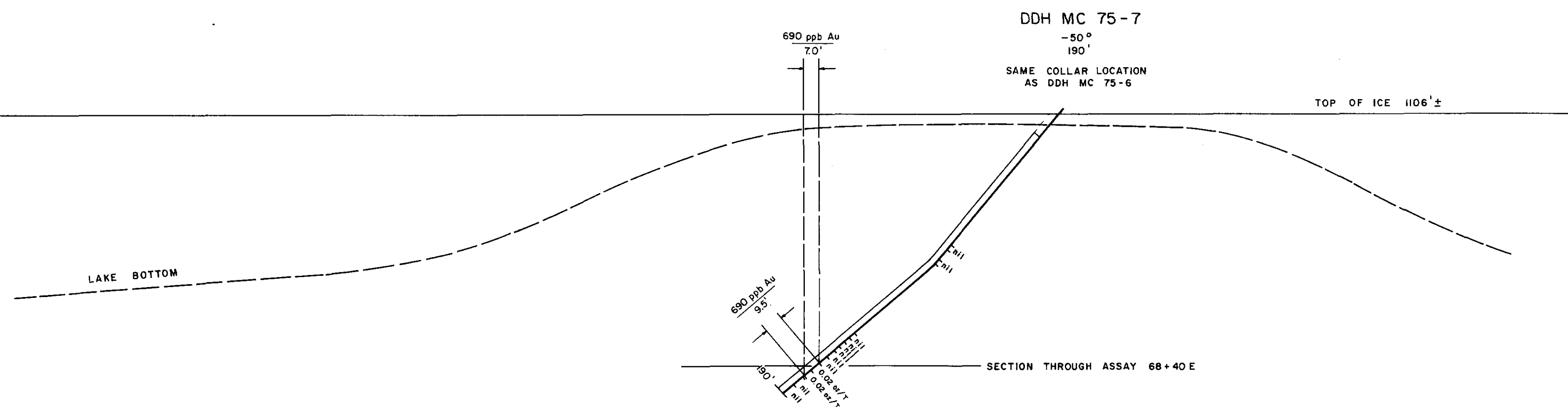
CROW LAKE GOLD PROSPECT
DIAMOND DRILL HOLE
SECTION 42+00 E

MARTIN OPTION
KENORA MINING DIVISION, ONTARIO

N.T.S.: 52 F / 4	SCALE 40 FEET 0 40
DRAWN BY: K.D.H.	DATE: APRIL 1983
APPROVED BY: R.M. BLAIS	DRAWING No.: 83 - 008



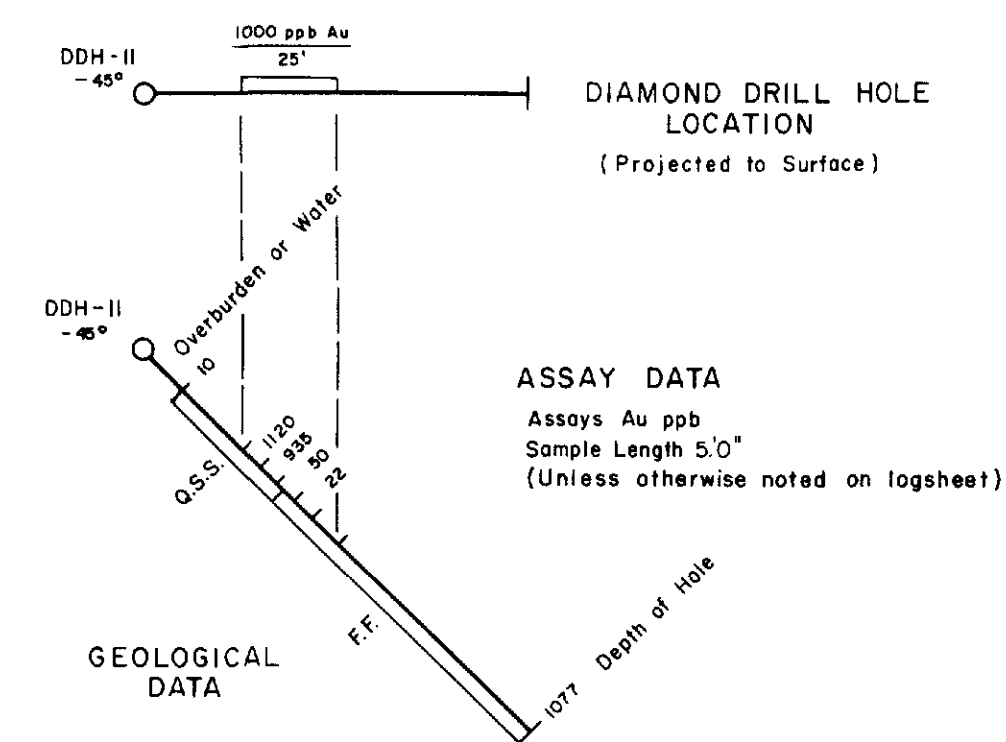
52F04NE0031 2.5680 BROOKS LAKE



LEGEND

- IF** INTERMEDIATE VOLCANIC FRAGMENTAL ROCKS -
Tuff and lapilli tuff, greenish hue, includes lesser bands and lenses of felsitic fragmental material. Moderately schistose with stretched fragments. Composition varies from andesite to diorite.
- QSS** QUARTZ SERICITE SCHIST -
Whitish to greenish grey. Strong schistose texture with heavy bands of sericite along with grey siliceous material. Composition from rhyolite to dacite.
- FF** FELSIC VOLCANIC FRAGMENTAL ROCKS -
Tuff and lapilli tuff, generally grey, includes lesser bands and lenses of intermediate and sometimes mafic material. Moderately schistose with stretched fragments. General composition of dacite.
- ZONE** GOLD BEARING ZONE -
Felsic fragmental rocks and quartz sericite schist containing 5 - 25 % pyrite, 100 to 3000 ppb gold and minor silver.

SYMBOLS



LOOKING N 80° E
AZIMUTH DDH MC 75-7 310°

- NOTE:
- 1) DIAMOND DRILL HOLE SECTIONS PLOTTED FROM G.W. ADAMS REPORT 1975.
 - 2) ASSAY DATA PLOTTED FROM 1975 DRILL HOLE LOGS FROM G.W. ADAMS REPORT 1975. (OZ. PER TON)
 - 3) ADDED TO DRILL SECTIONS 1983 ASSAY DATA IN PARTS PER BILLION. (ppb)

R.M. Blais
April 11, 1984.

BARRIER REEF RESOURCES LTD.

CROW LAKE GOLD PROSPECT
DIAMOND DRILL HOLE
SECTION 68+40E

MARTIN OPTION
KENORA MINING DIVISION, ONTARIO

N.T.S.: 52 F / 4	SCALE 40 FEET 0 40
DRAWN BY: K.D.H.	DATE: APRIL 1983
APPROVED BY: R.M. BLAIS	DRAWING No.: 83 - 014



52F04NE0031 2.5680 BROOKS LAKE

2N

2S

4S

6S

BASELINE N 80° E

SECTION 69+25E

DDH MC 75-3
-57°
331'

SECTION 69+20 E

DDH MC 75-6
-50°
195'4828 ppb Au
13'897 ppb Au
13'

TOP OF ICE 1106'±

LAKE BOTTOM

LEGEND

IF

INTERMEDIATE VOLCANIC FRAGMENTAL ROCKS -
Tuff and lapilli tuff, greenish hue, includes lesser bands and lenses of felsitic fragmental material. Moderately schistose with stretched fragments. Composition varies from andesite to diorite.

QSS

QUARTZ SERICITE SCHIST -
Whitish to greenish grey. Strong schistose texture with heavy bands of sericite along with grey siliceous material. Composition from rhyolite to dacite.

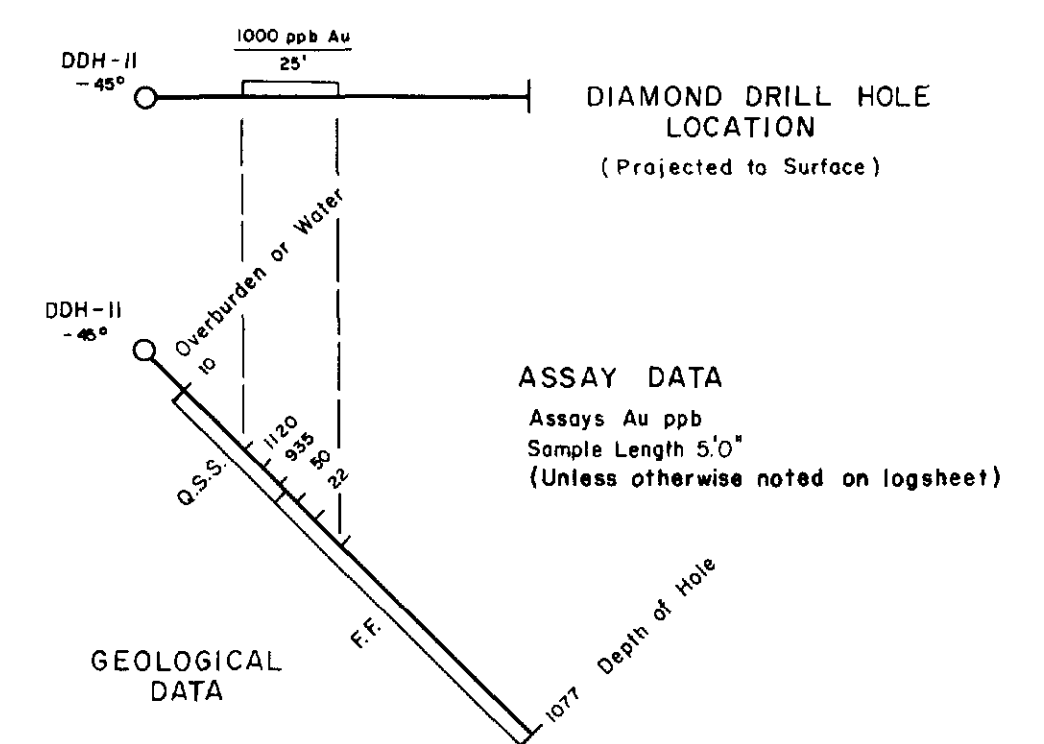
FF

FELSIC VOLCANIC FRAGMENTAL ROCKS -
Tuff and lapilli tuff, generally grey, includes lesser bands and lenses of intermediate and sometimes mafic material. Moderately schistose with stretched fragments. General composition of dacite.

ZONE

GOLD BEARING ZONE -
Felsic fragmental rocks and quartz sericite schist containing 5 - 25 % pyrite, 100 to 3000 ppb gold and minor silver.

SYMBOLS



LOOKING N 80° E
AZIMUTH DDH MC 75-3 170°
AZIMUTH DDH MC 75-6 350°

NOTE:

- 1) DIAMOND DRILL HOLE SECTIONS PLOTTED FROM G.W. ADAMS REPORT 1975.
- 2) ASSAY DATA PLOTTED FROM 1975 DRILL HOLE LOGS FROM G.W. ADAMS REPORT 1975. (OZ. PER TON)
- 3) ADDED TO DRILL SECTIONS 1983 ASSAY DATA IN PARTS PER BILLION. (ppb)

BARRIER REEF RESOURCES LTD.

CROW LAKE GOLD PROSPECT
DIAMOND DRILL HOLE
SECTIONS 69+20 E & 69+25 E
MARTIN OPTION
KENORA MINING DIVISION, ONTARIO

N.T.S.: 52 F / 4

SCALE 40 FEET 0 40

DRAWN BY: K. D. H.

DATE: APRIL 1983

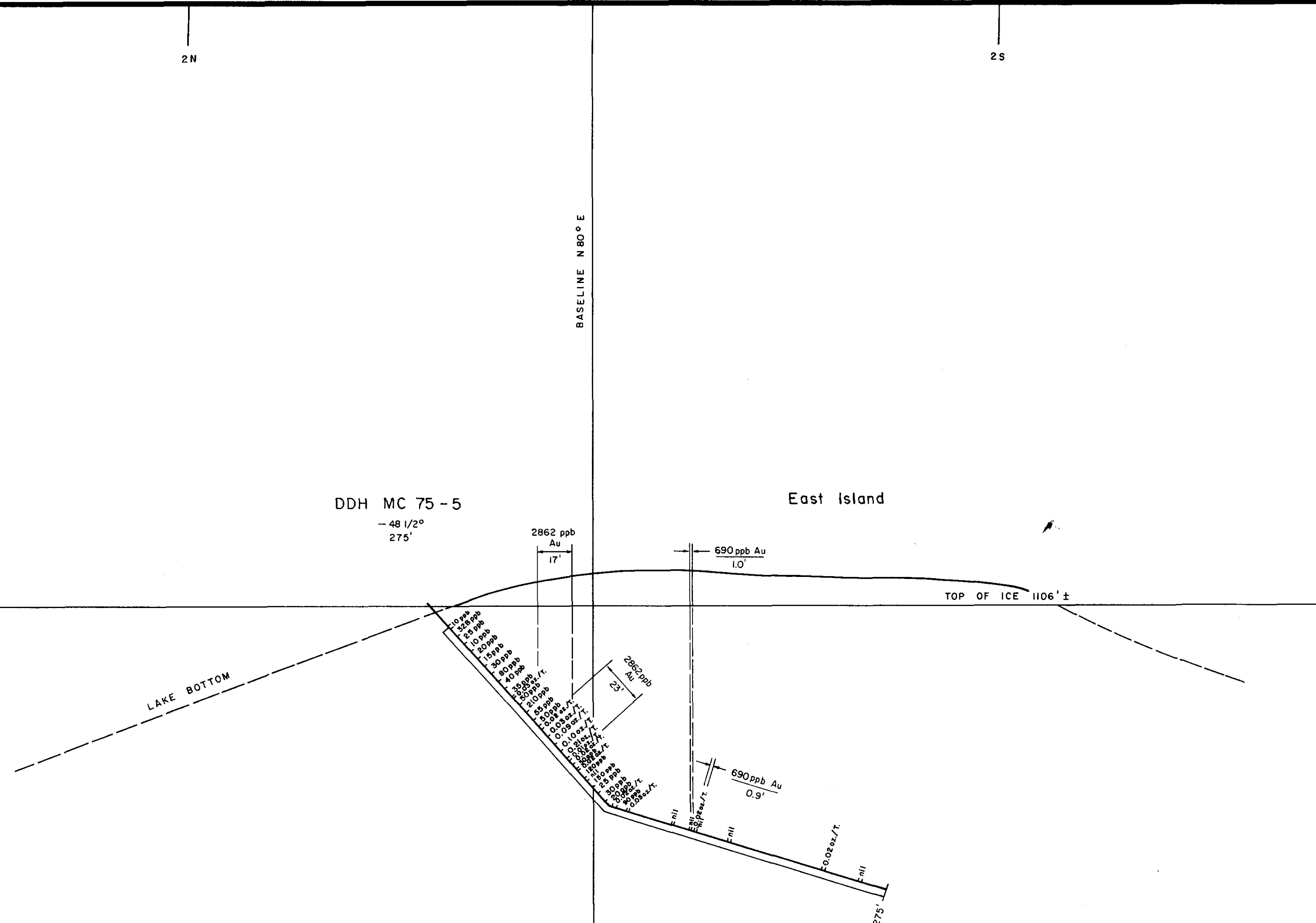
APPROVED BY: R. M. BLAIS

DRAWING No.: 83 - 011



52F04NE0031 2.5680 BROOKS LAKE

R.M. Blais
April 11, 1984



L E G E N D

IF	INTERMEDIATE VOLCANIC FRAGMENTAL ROCKS - Tuff and lapilli tuff, greenish hue, includes lesser bands and lenses of felsitic fragmental material. Moderately schistose with stretched fragments. Composition varies from andesite to diorite.
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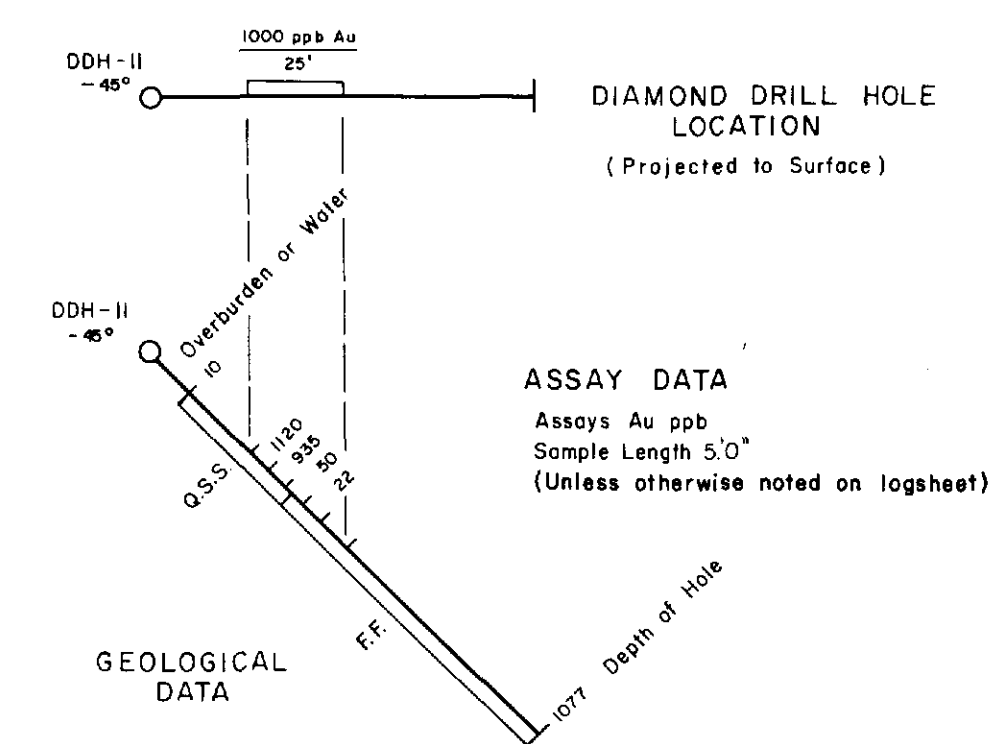
QSS **QUARTZ SERICITE SCHIST -**

Whitish to greenish grey. Strong schistose texture with heavy bands of sericite along with grey siliceous material. Composition from rhyolite to dacite.

FF	FELSIC VOLCANIC FRAGMENTAL ROCKS - Tuff and lapilli tuff, generally grey, includes lesser bands and lenses of intermediate and sometimes mafic material. Moderately schistose with stretched fragments. General composition of dacite.
----	--

ZONE GOLD BEARING ZONE -
Felsic fragmental rocks and quartz sericite schist
containing 5 - 25 % pyrite, 100 to 3000 ppb gold
and minor silver.

SYMBOLS



LOOKING N 80° E
AZIMUTH DDH MC 75-5 170°

NOTE:

- 1) DIAMOND DRILL HOLE SECTIONS
PLOTTED FROM G.W. ADAMS REPORT 1975.
- 2) ASSAY DATA PLOTTED FROM 1975 DRILL
HOLE LOGS FROM G.W. ADAMS REPORT
1975. (OZ. PER TON)
- 3) ADDED TO DRILL SECTIONS 1983 ASSAY
DATA IN PARTS PER BILLION. (ppb)

BARRIER REEF RESOURCES LTD.

CROW LAKE GOLD PROSPECT
DIAMOND DRILL HOLE
SECTION 70+00 E

KENORA MINING DIVISION, ONTARIO

N.T.S.: 52 F / 4

SCALE 40 FEET 0

DRAWN BY: K. D. H.	DATE: APRIL 1983
--------------------	------------------

APPROVED BY: R. M. BLAIS	DRAWING No.: 83 - 013
--------------------------	-----------------------



2N

25

49

BASELINE N 80° E

DDH MC 75-1
-54°
357'

East Island

220 ppb Au
9'

TOP OF ICE 1106' ±

LAKE BOTTOM

220 ppb Au
10'
357'

LEGEND

IF

INTERMEDIATE VOLCANIC FRAGMENTAL ROCKS -
Tuff and lapilli tuff, greenish hue, includes lesser bands and lenses of felsitic fragmental material. Moderately schistose with stretched fragments. Composition varies from andesite to diorite.

QSS

QUARTZ SERICITE SCHIST -
Whitish to greenish grey. Strong schistose texture with heavy bands of sericite along with grey siliceous material. Composition from rhyolite to dacite.

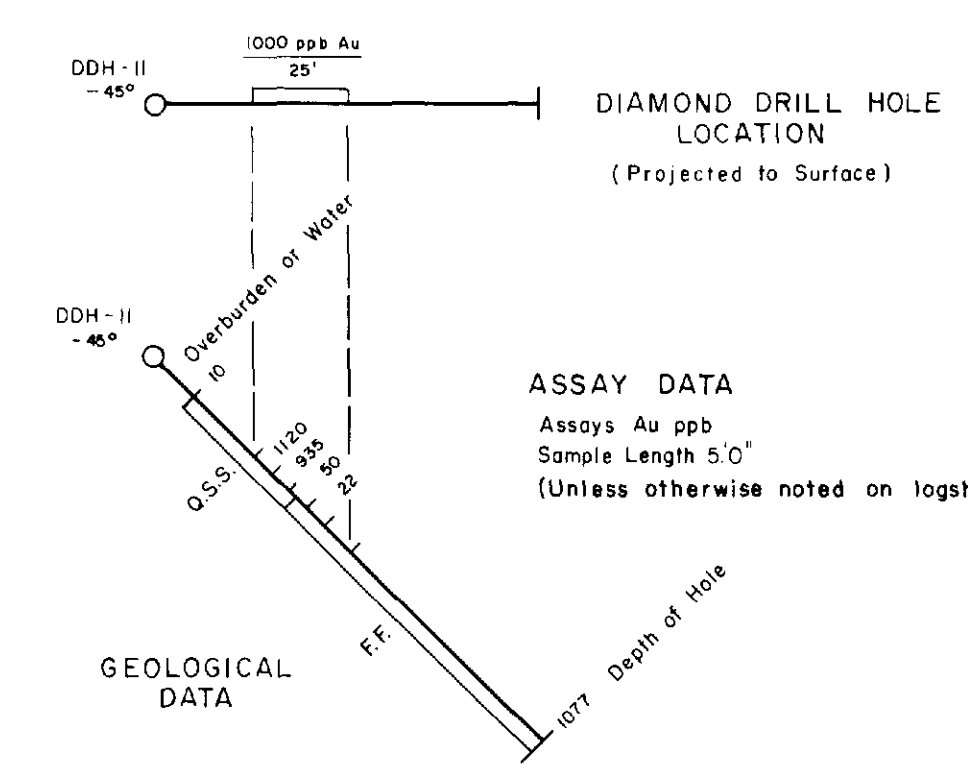
FF

FELSIC VOLCANIC FRAGMENTAL ROCKS -
Tuff and lapilli tuff, generally grey, includes lesser bands and lenses of intermediate and sometimes mafic material. Moderately schistose with stretched fragments. General composition of dacite.

ZONE

GOLD BEARING ZONE -
Felsic fragmental rocks and quartz sericite schist containing 5 - 25 % pyrite, 100 to 3000 ppb gold and minor silver.

SYMBOLS



LOOKING N 80° E
AZIMUTH DDH MC 75-1 170°

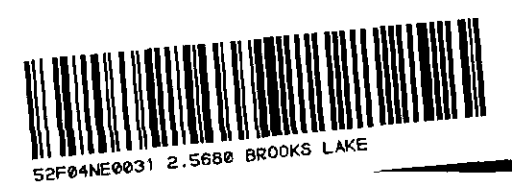
- NOTE:
- 1) DIAMOND DRILL HOLE SECTIONS PLOTTED FROM G.W. ADAMS REPORT 1975.
 - 2) ASSAY DATA PLOTTED FROM 1975 DRILL HOLE LOGS FROM G.W. ADAMS REPORT 1975. (OZ. PER TON)
 - 3) ADDED TO DRILL SECTIONS 1983 ASSAY DATA IN PARTS PER BILLION. (ppb)

R.M. Blais
April 11, 1984

BARRIER REEF RESOURCES LTD.

CROW LAKE GOLD PROSPECT
DIAMOND DRILL HOLE
SECTION 70+37 E
MARTIN OPTION
KENORA MINING DIVISION, ONTARIO

N.T.S.:	52 F / 4	SCALE	40 FEET
DRAWN BY:	K. D. H.	DATE:	APRIL 1983
APPROVED BY:	R. M. BLAIS	DRAWING No.:	83 - 009



320

5680

2N

2S

4S

6S

BASELINE N 80° E

DDH MC 75-2
- 56°
336°

East Island

TOP OF ICE 1106' ±

LAKE BOTTOM

Fm

Fm

Fm

Fm

Fm

Fm

Fm

Fm

Fm

Fm

Fm

Fm

Fm

Fm

Fm

Fm

Fm

Fm

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Fm

Fm

Fm

LEGEND

IF

INTERMEDIATE VOLCANIC FRAGMENTAL ROCKS -
Tuff and lapilli tuff, greenish hue, includes lesser bands and lenses of felsitic fragmental material. Moderately schistose with stretched fragments. Composition varies from andesite to diorite.

QSS

QUARTZ SERICITE SCHIST -
Whitish to greenish grey. Strong schistose texture with heavy bands of sericite along with grey siliceous material. Composition from rhyolite to dacite.

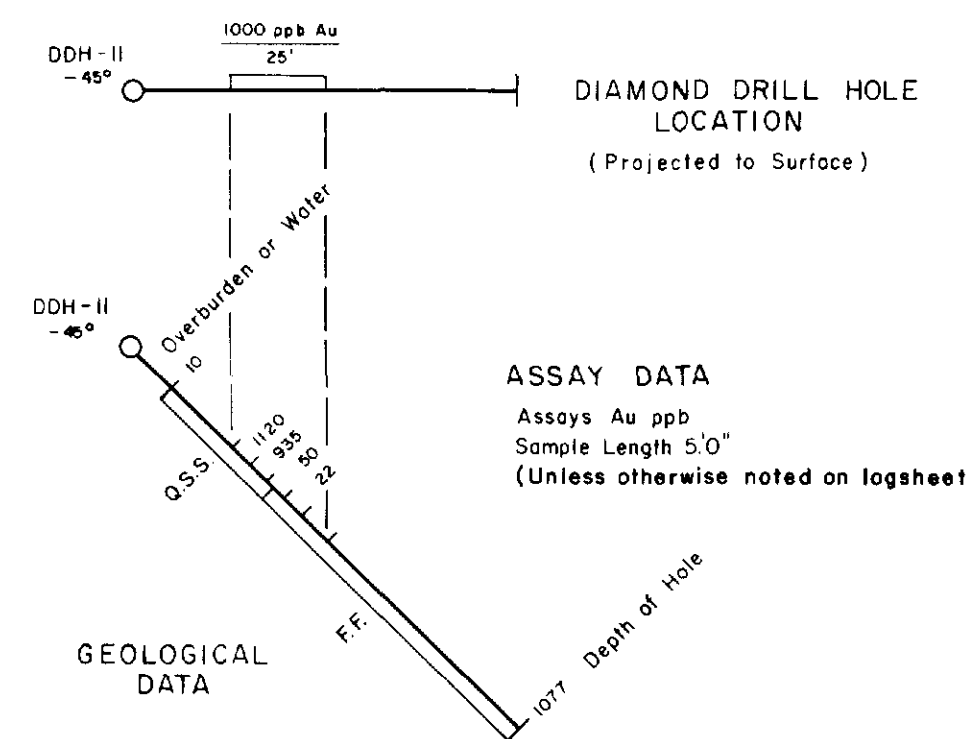
FF

FELSIC VOLCANIC FRAGMENTAL ROCKS -
Tuff and lapilli tuff, generally grey, includes lesser bands and lenses of intermediate and sometimes mafic material. Moderately schistose with stretched fragments. General composition of dacite.

ZONE

GOLD BEARING ZONE -
Felsic fragmental rocks and quartz sericite schist containing 5 - 25 % pyrite, 100 to 3000 ppb gold and minor silver.

SYMBOLS



LOOKING N 80° E
AZIMUTH DDH MC 75-2 170°

- NOTE:
- 1) DIAMOND DRILL HOLE SECTIONS PLOTTED FROM G.W. ADAMS REPORT 1975.
 - 2) ASSAY DATA PLOTTED FROM 1975 DRILL HOLE LOGS FROM G.W. ADAMS REPORT 1975. (OZ. PER TON)
 - 3) ADDED TO DRILL SECTIONS 1983 ASSAY DATA IN PARTS PER BILLION. (ppb)

R.M. Blais
April 11, 1984

BARRIER REEF RESOURCES LTD.

CROW LAKE GOLD PROSPECT
DIAMOND DRILL HOLE
SECTION 71 + 40 E

MARTIN OPTION
KENORA MINING DIVISION, ONTARIO

N.T.S.: 52 F / 4

SCALE 40 FEET 0 40

DRAWN BY: K. D. H.

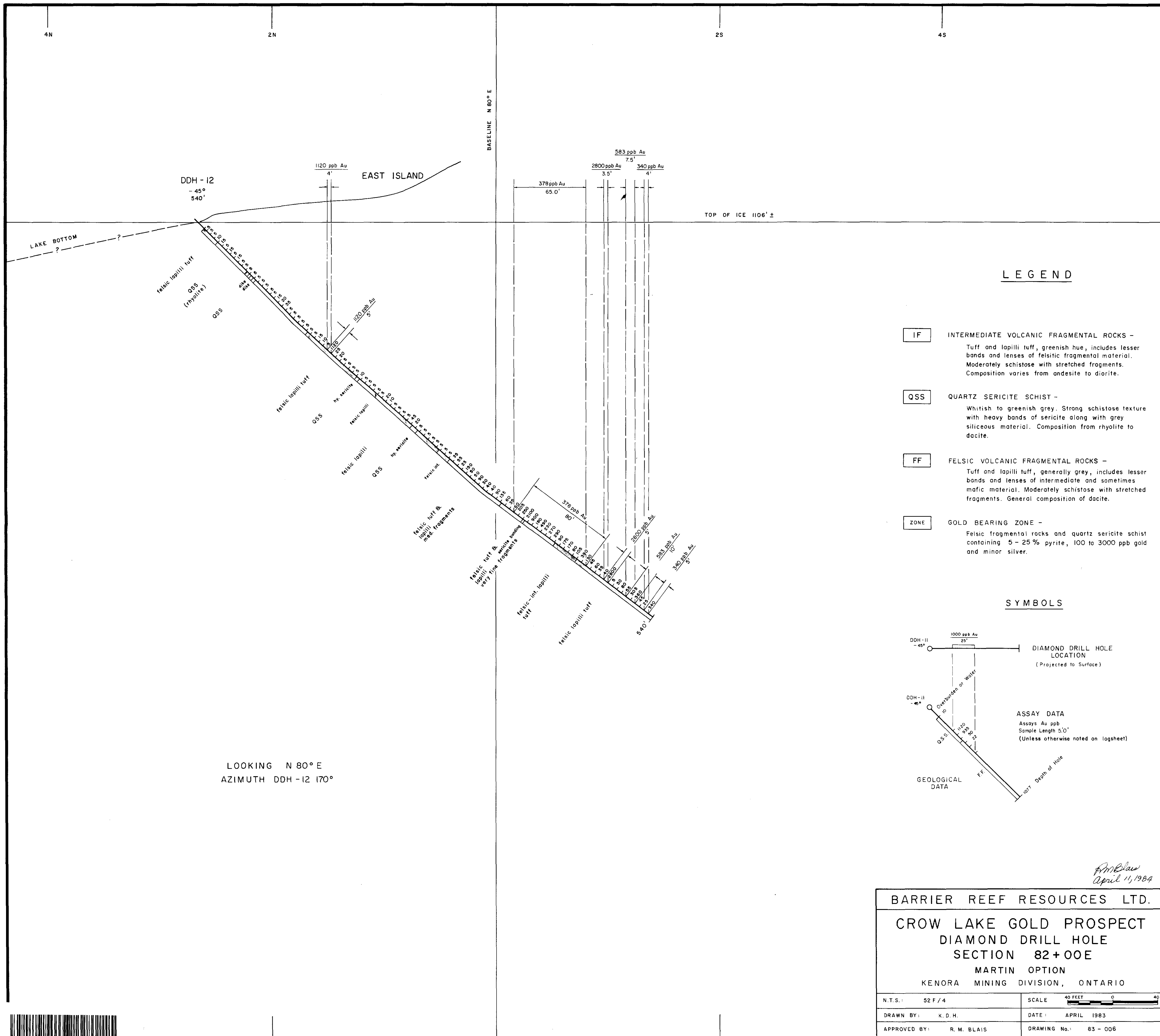
DATE: APRIL 1983

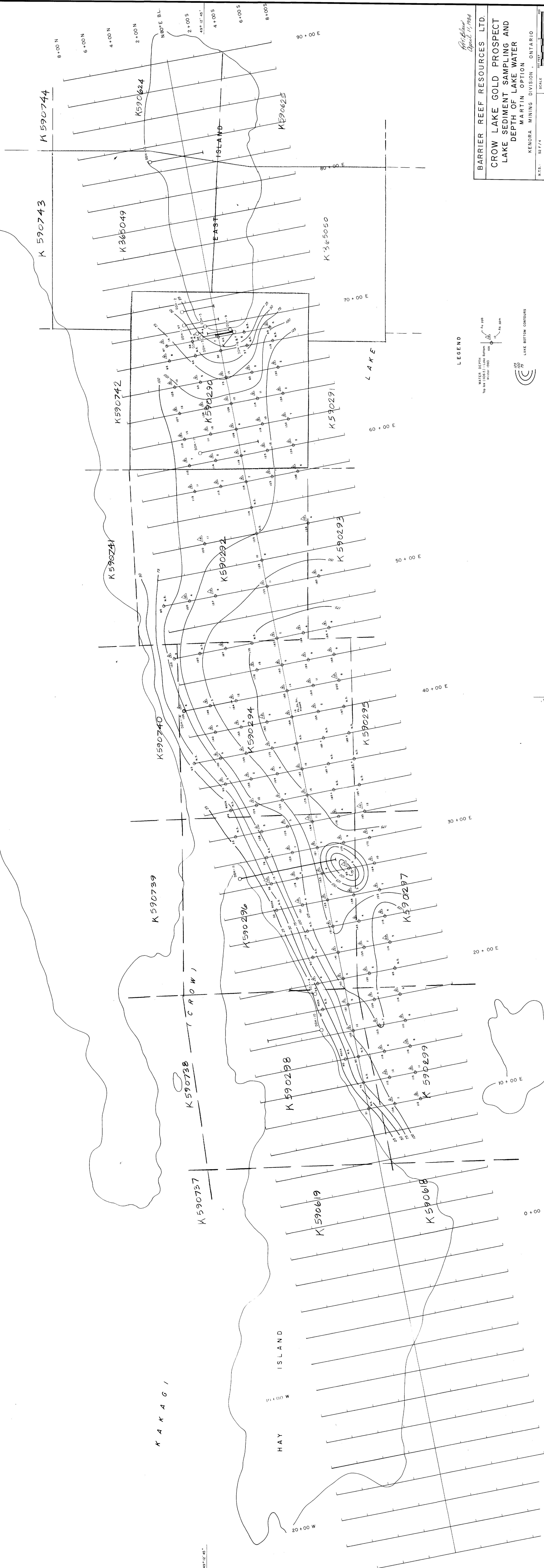
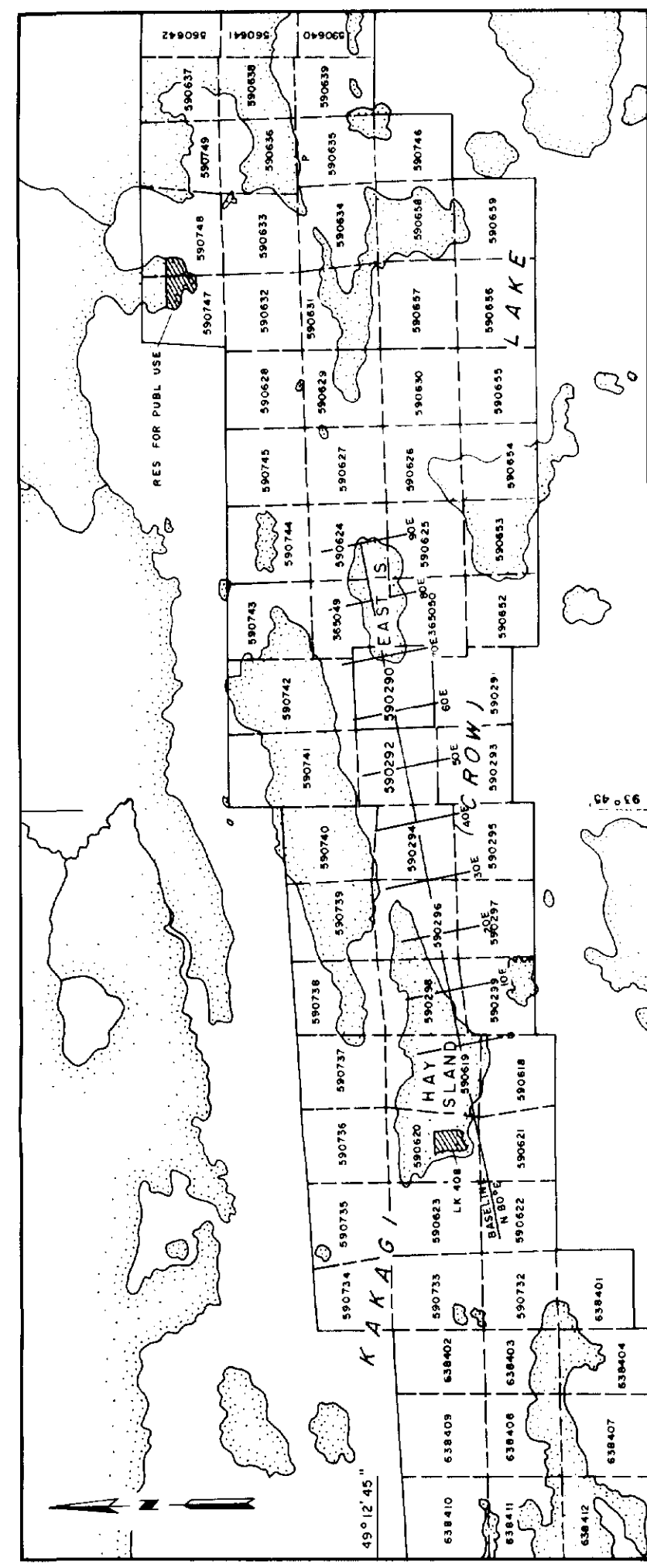
APPROVED BY: R. M. BLAIS

DRAWING No.: 83 - 010

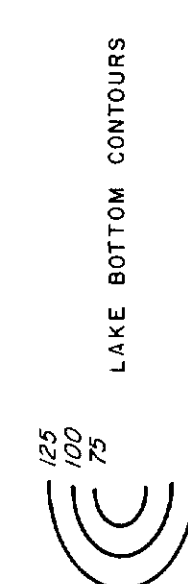
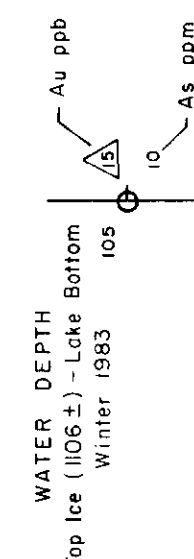


52F04NE0031 2.5680 BROOKS LAKE





LEGEND



John Blaw
April 11, 1984

BARRIER REEF RESOURCES LTD.
CROW LAKE GOLD PROSPECT
LAKE SEDIMENT SAMPLING AND
DEPTH OF LAKE WATER
MARTIN OPTION

KENORA MINING DIVISION, ONTARIO	
1: 52 F / 4	SCALE
OWN BY: K. D. H.	DATE: APRIL 1983
APPROVED BY: R. M. BLAIS	DRAWING No.: 83 - 002



BROOKS LAKE

DISTRICT OF
KENORA

KENORA
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	Ⓟ
CROWN LAND SALE	C.S.
LEASES	Ⓛ
LOCATED LAND	Loc
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	—
IMPROVED ROADS	—
KING'S HIGHWAYS	—
RAILWAYS	—
POWER LINES	—
MARSH OR MUSKEG	—
MINES	✕

NOTES

400' Surface Rights Reservation around
all Lakes and Rivers.

Heronry Lake Area (M-2475)

Bluffpoint Lake Area (M-2471)

Dash Lake (M-2024)

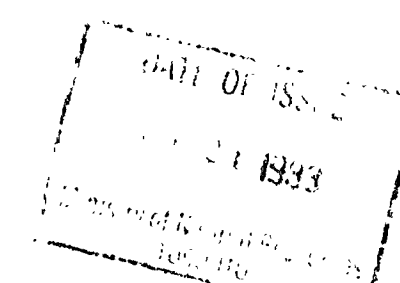
NATIONAL TOPOGRAPHIC SERIES 52 F 4

PLAN NO. M-2473

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



50744C0031 2:5688 BROOKS LAKE



HERONRY LAKE

DISTRICT OF
KENORA

KENORA
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	● or ○
CROWN LAND SALE	C.S.
LEASES	⊙
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	—
IMPROVED ROADS	—
KING'S HIGHWAYS	—
RAILWAYS	—
POWER LINES	—
MARSH OR MUSKEG	—
MINES	*
CANCELLED	○
PATENTED S.R.O.	○

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

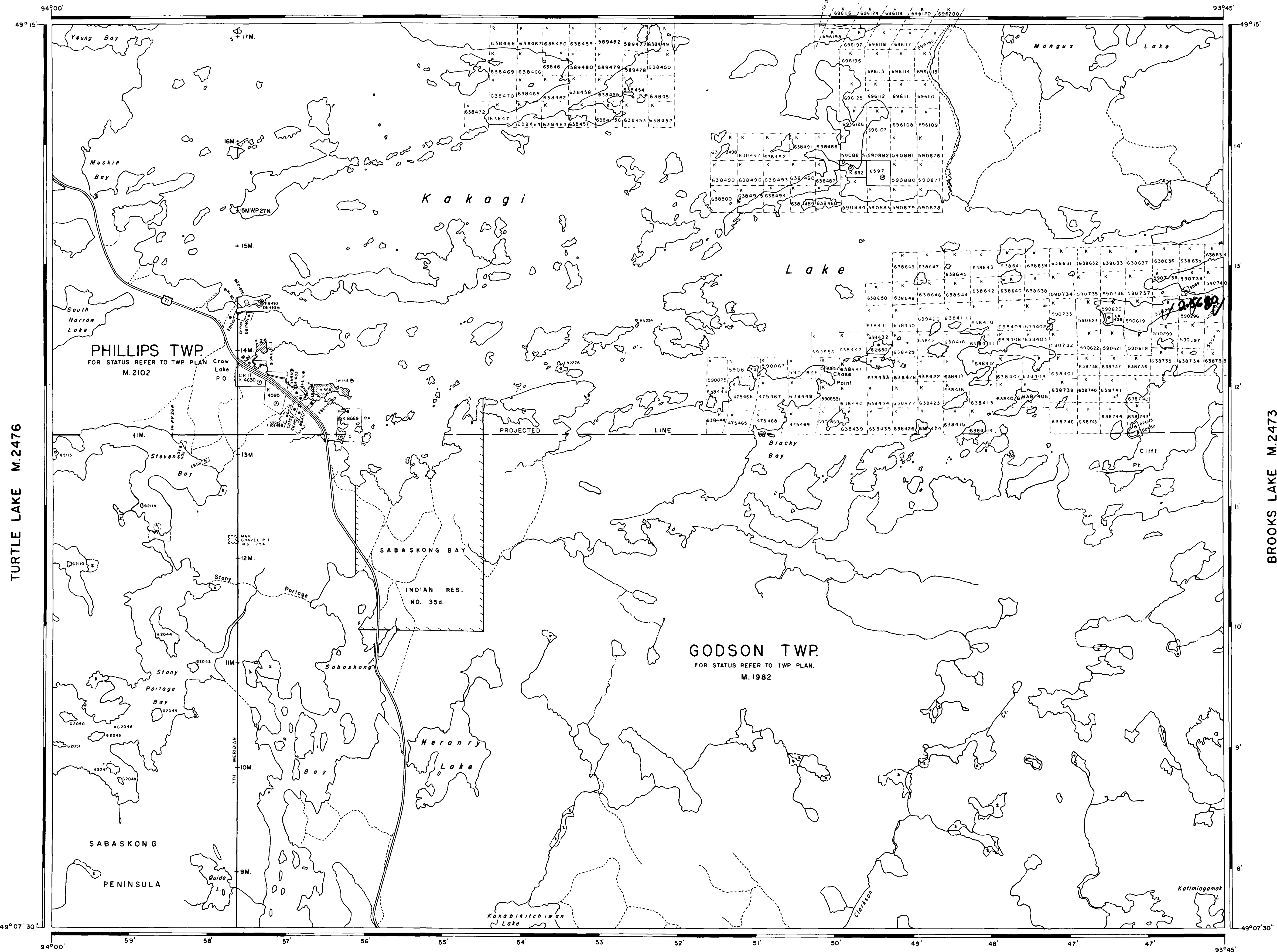
Areas withdrawn from staking under Section 43 of the Mining Act (R.S.C. 1970)			
Order No.	File	Date	Disposition
W 65/76	188521	19/11/76	S.R.O.

DATE OF ISSUE
JUL 21 1983
MINISTRY OF NATURAL RESOURCES
SURREYS AND MAPPING BRANCH

NATIONAL TOPOGRAPHIC SERIES 52 F 4

PLAN NO. **M-2475**

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURREYS AND MAPPING BRANCH

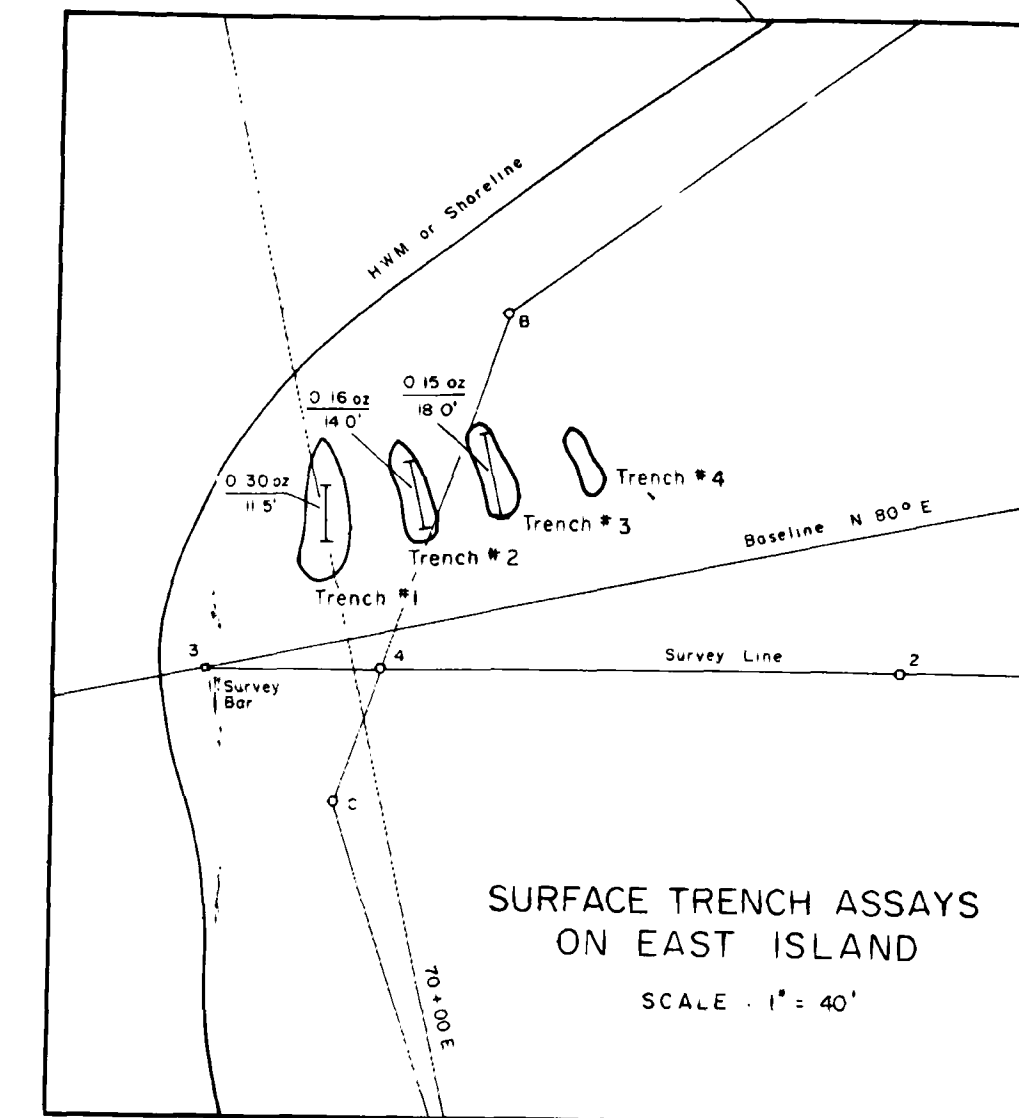
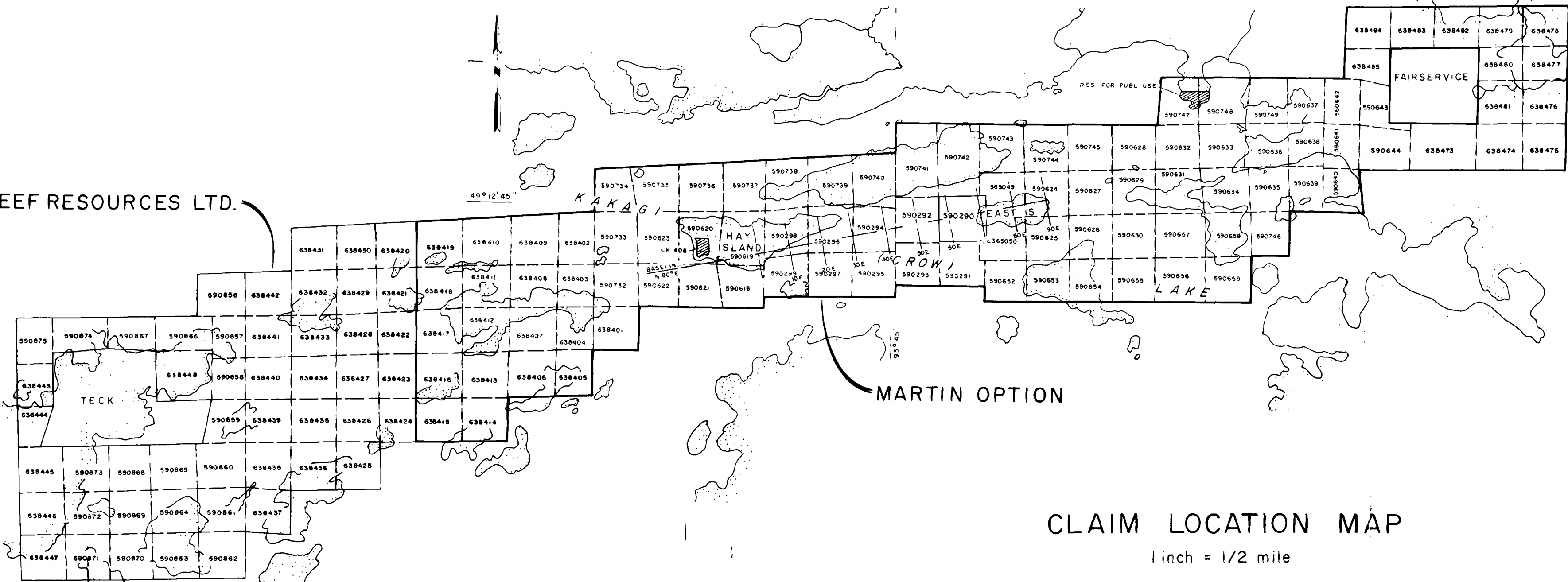


52F4NE6831 2.5688 BROOKS LAKE

LEGEND

- INTERMEDIATE FRAGMENTAL (IF) INTERMEDIATE VOLCANIC FRAGMENTAL ROCKS -
Tuff and lapilli tuff, greenish hue, includes lesser
bands and lenses of felsic fragmental material.
Moderately schistose with stretched fragments.
Composition varies from andesite to dacite.
- QUARTZ SERICITE SCHIST (QSS) QUARTZ SERICITE SCHIST -
Whitish to greenish grey. Strong schistose texture
with heavy bands of sericite along with grey
siliceous material. Composition from rhyolite to
dacite.
- FELSIC FRAGMENTAL (FF) FELSIC VOLCANIC FRAGMENTAL ROCKS -
Tuff and lapilli tuff, generally grey, includes lesser
bands and lenses of intermediate and sometimes
mafic material. Moderately schistose with stretched
fragments. General composition of dacite.
- ZONE GOLD BEARING ZONE -
Felsic fragmental rocks and quartz sericite schist
containing 5 - 25% pyrite, 100 to 3000 ppb gold
and minor silver.

BARRIER REEF RESOURCES LTD.



NOTE: GEOLOGY SHOWN ON PLAN IS FROM
VERTICAL PROJECTION OF
DRILL HOLE RESULTS

OM83-3-C-27 25680

BARRIER REEF RESOURCES LTD.

CROW LAKE GOLD PROSPECT

GEOLOGY AND DIAMOND DRILL HOLE PLAN

MARTIN OPTION

KENORA MINING DIVISION, ONTARIO

NTS	52 F/4	SCALE	1" = 100'
DESIGNED BY	K.D.H.	DRAWN BY	APRIL 1983
APPROVED BY	R.W. BLAIS	DATE	63-001