PART ONE

Report on EMC Geological Mapping, Sampling and Soil Geochemistry

Program 1, Snake Bay Claim Group

May - Oct. 1984

Report of EMC Activities

Covered Under OMEP Designation #OM83-C381

Feb. 9/1984 - Dec. 31/1984

E.P. Moreton

Esso Minerals Canada

February 1, 1985

The following report details exploration activity carried out by Esso Minerals Canada on the "Snake Bay" claim group located in Northwestern Ontario. This work was carried out under the designation period covered by OMEP Grant # OM83-X381 (i.e. Feb. 9/1984 to Dec. 31/1984).

The exploration activity was conducted in three stages:

Program		Time
(1)	geological mapping, sampling, soil geochemistry	May - Oct./84
(2)	diamond drilling, line cutting	Feb. - Apr./84
(3)	airborne Magnetometer Survey	Mar./84

Reports and other required data of these surveys are enclosed in the following three sections.

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(A) General

(1) Introduction

The Snake Bay property (Project Ont. 70) consists of 145 claims staked during the summer of 1983 following the discovery of a series of mineralized zones in an oxide-bearing, layered gabbro sill. A preliminary geologic mapping (1:5000 scale) of the general area and of the mineralized zones was carried out in summer 1983 and two drill programs were conducted (Oct./83, Mar./84) with a total of 1876 m of drilling completed. During March 1984 an airborne EM-Mag survey was flown over the claim group. Two total Magnetic field maps (1:5000 scale) from this survey were used as base maps for the 1984 geological mapping survey.

From May 24 to Sept. 10 a program of geological mapping, geochemical sampling and clearing was conducted on Snake Bay claim group. The mapping continued on from that undertaken during the 1983 field season to prospect for new Au showings.

A soil geochemical sampling program was conducted on a 100 x 25 m sampling density with every other sample being analyzed for Au (ppb). Sampling was concentrated over the basalt/gabbro sequence and the vicinity of the major unconformity since the rest of the claim group was considered to have low potential following the geological mapping.

(2) Location and Access

The area of the Snake Bay Project is located some 55 km southeast of Dryden, Ontario (Fig. 1).

Access to the claim group is via the Snake Bay Road, an all weather gravel road which leads south from Highway 17. This road runs through the middle of the claim group, and a number of logging roads lead off this road providing additional access to the region. The area contains numerous lakes interconnected by short portages or creeks. Virtually all the map area is within a kilometre of a road or navigable lake which greatly facilitates exploration work.

(3) Previous Work In The Region

There has been extremely limited mineral exploration work in this area to date. Ontario Government mapping of most of the area was released in the spring of 1983.

The only published detailed maps of the area are at a scale of 1" to 1 mile by J. Thomson (1934; Map 42C), at 1" to 1/4 mile by Blackburn (1976 a and b) and Kresz, Blackburn and Fraser (1982 a and b); and a compilation by Blackburn (1982) at 1" to 1/2 mile scale. A detailed airborne EM and magnetometer survey was flown for the Ontario Government in 1980. Results are published at a scale of 1:2000 (O.G.S. 1981). The area was prospected for gold in the late 1800's resulting in the discovery of the Tabor Lake and Sakoose mines, situated immediately south of Borups Corners. Both are narrow, discrete, gold-bearing, quartz veins within weakly altered, country rocks. The Tabor Lake mine produced 36 ounces of gold in 1934-1935. Reserves were estimated to be 50,000 tons grading 0.5 oz Au/ton but recent exploration work by the present holder, Sulpetro Minerals Ltd., has failed to prove this gold content.

The Sakoose mine, presently held by J. Redden, produced 3669 ounces of gold from 8,828 tons of ore (0.41 oz Au/ton) between 1899 and 1947. It is estimated the deposit contains an additional 40,000 tons of ore. Redden is presently attempting to utilize a heap leach process to recover gold from broken rock in the muck piles of the former producer.

Exploration work in the region has been at a limited scale. A complete exploration history of the area is summarized by Kresz et al (1982). The majority of recent exploration work has focused upon the base metal potential of the region, but no base metal occurrences have been located.

(4) Regional Geology

The claim group is underlain by two stratigraphic groups of supracrustal rocks: the Wapageisi Lake group, and the Stormy Lake group. (Figs. 1, 2).

The metavolcanics of the Wapageisi Lake group comprise a thick sequence of pillowed, mafic volcanics of tholeiitic affinity with thin intercalated horizons of intermediate to felsic calc-alkaline flows and associated interflow sediments (chert/argillite). The sequence is capped by a thick (> 1 km) sequence of mafic to felsic pyroclastic breccia.

Unconformably overlying the Wapageisi Lake group is the Stormy Lake group which consists of a thick (3000 m) succession of coarse polymictic and volcanic conglomerates with thin intercalated rhyolite and basaltic flow horizons.

A stratigraphic column showing the age relationships of the above lithologies is found in Figure 3.

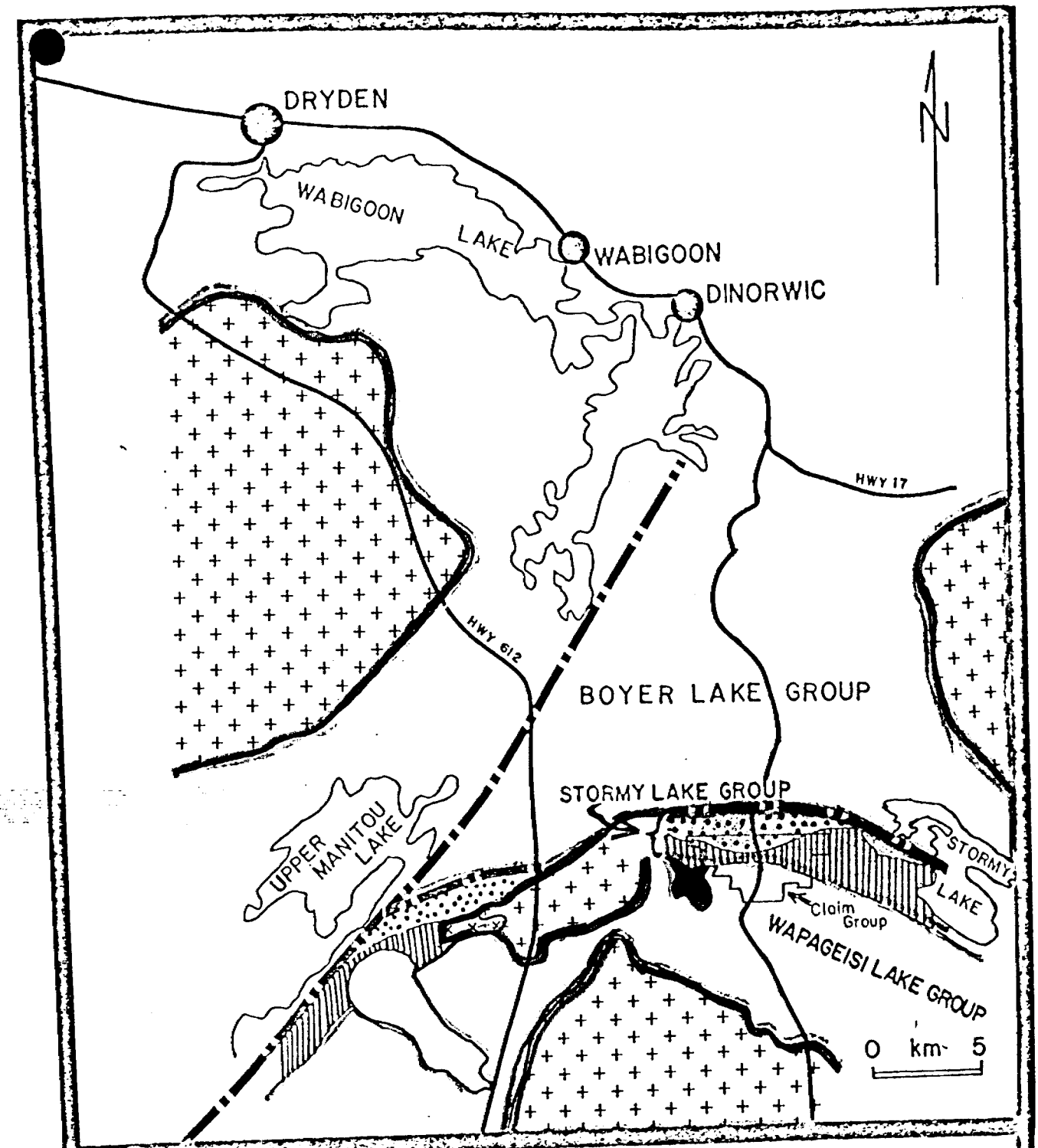


Figure 1 REGIONAL GEOLOGY

(B) Property Geology

(1) Wapageisi Lake Group

(a) Basalts: The southern portion of the claim group is underlain by a homoclinal sequence of basalts (Fig. 2). The basalts are generally well pillowed with the pillows giving consistent north-northeasterly facing (younging) directions. Numerous coarse-grained massive flows (sub-volcanic sills) generally 50 m in thickness, occur throughout the group. In the uppermost kilometre of the sequence, thin (< 15 m) discontinuous lenses of finely laminated cherts and argillites occur.

Two, thin (75 m) felsic flow/tuff horizons with locally abundant argillite and chert beds, are found conformably intercalated with the basalts near Katisha Lake (Map 1).

(b) Heterolithic Volcanic Unit: A thick sequence (up to 1200 m) of mixed heterolithic volcanic breccia with minor argillite horizons caps the Wapageisi Lake Group on the claim group, forming a wedge which thickens to the east along the north shore of Katisha Lake, through Kawigekiwa Lake (Figs. 2, 3).

A discontinuous argillite unit (< 5 m thick), locally containing abundant magnetite (up to 20%) is present near the basal contact of the unit. West of Kawijekiwa Lake in the vicinity of the Main and North Katisha showings, the unit comprises fine-grained, well-laminated argillite or fine-grained tuffaceous rocks.

(2) "Pre-Tectonic" Intrusive Suite

On the property a suite of compositionally and temporally diverse intrusive rocks have intruded the Wapageisi group prior to shear zone development.

(a) Layered Gabbro Sills: Two layered gabbroic sills intrude the Wapageisi basalt and heterolithic breccia sequence, and coalesce near the western edge of the property just north of Seggemak Lake (Fig. 2).

The lower sill ranges from 70 to 350 m in thickness and the upper sill is approximately 500 m in thickness. Both sills are compositionally layered with a pyroxene porphyritic base grading into a anorthositic centre which in turn grades into a fine-graded oxide-bearing upper portion.

(b) Thundercloud Porphyry: is a pear-shaped, 4 x 3 km, sub-volcanic stock of silicic composition. The stock, associated dykes and pyroclastics are composed of a compositionally homogeneous assemblage of sodic plagioclase, quartz, K-feldspar and muscovite.

Intruded into the Wapageisi group volcanics and the gabbro sills is a series of quartz porphyritic dykes related to the Thundercloud Porphyry stock located at the southwestern corner of the claim group (Fig. 3).

(3) "Tectonic" - Fault/Shear Zone Related Intrusions

This group of intrusions occur as dykes and/or sills within structural zones throughout the property and comprise two compositionally discrete suites.

(a) Ultramafic-Lamprophyre/pyroxenite/gabbro suite: Three large, and numerous smaller lamprophyre dyke/sill bodies are found on the Snake Bay claims. These ultramafic bodies are characteristically composite, ranging in mineralogy from phlogopite-bearing lamprophyre to pyroxenite to gabbro. The lamprophyric portions are invariably carbonatized.

Kawiejekiwa Sill: The largest ultramafic body occurs as a 2.0 km long sill 10 to 35 metres thick, along the north shore of Kawijekiwa Lake and locally occupies the unconformity between the Wapageisi Lake and Stormy Lake groups (Fig. 2). Near the northeastern corner of Kawiejekiwa Lake, the sill cuts down section into the crystal tuff unit, and abruptly changes strike to the southeast and eventually pinches out. This sill body is compositionally zoned from west to east as follows: lamprophyre - pyroxenite - gabbro/quartz diorite.

Eastern Ultramafic Body: A northeasterly trending pyroxenite/gabbro dyke, 10-35 metres wide, is found occupying a left-hand fault zone at the south eastern corner of the property (Fig. 2). This dyke cuts volcanic breccia and is massive in appearance and composition.

Numerous, thin, lamprophyric dykes occur within shear zones on the property, the best exposed of these are found at the 0-Zone, Zig and Twilight Zone occurrences. Typically, these dykes are foliation parallel or slightly oblique and occur near the centre of the shear zones. Typically, they are moderately to intensely carbonatized but weakly foliated with respect to the rocks in the shear zone.

(b) Felsic-Quartz Diorite Sills/Dykes: A suite of tonalitic to quartz monzonitic sills/dykes are found near the north shore of Katisha, Howie and Kawijekiwa Lakes. The largest of these bodies is present as a 20 to 150 m wide dyke, which occurs within an east-west trending tectonized zone developed in gabbro near the north end of Katisha Lake (Fig. 4).

(4) Stormy Lake Group

The Stormy Lake group occurs as a thick (3000 m) assemblage of polymictic conglomerate, dacitic flows/breccias and basalt flows which underlie the northern portion of the claim group above an east-west trending unconformity which cuts across the centre of the claim group (Fig. 3).

(a) Polymictic Conglomerates - Argillites: A thick wedge-shaped accumulation (1.0 km) of polymictic conglomerates overlies the unconformity at the eastern portion of the property. The conglomerates are composed of poorly sorted, moderately to well-rounded granitoid, felsic-intermediate volcanic, mixed sedimentary and some gabbroic clasts indicating a mixed provenance area. Bedding orientations generally face northwesterly in this sequence.
Proximal to the unconformity, numerous magnetite-chlorite-bearing beds are present.

(b) Dacite Breccia - Overlying the polymictic conglomerate is an intermediate to felsic volcanic unit which is exposed as a 100 m thick east-west trending zone of massive and vesicular flows. This unit extends as far east as the Snake Bay road and thickens to the west, and in the vicinity of Washiebemaga Lake is over 1 km thick. Towards the west the flow grades into tuff and lapilli tuffs.

(5) Structural Geology

The structural geology of the property is dominated by three distinct phases of shear zone and fault development. The earliest phase is marked by the formation of a conjugate set of shear zones trending approximately 180 /90 and 120/40S. Overprinting these shear zones are two east-west trending shear/fault zones. A late period of northeasterly left-hand faults cuts across the southeastern portion of the property with offset generally less than 150 m.

Early Conjugate Shears:

(a) North-South Structural Zone (Fig. 3): A continuous zone of north-south trending foliated shear and carbonatized zones extends from the northeastern arm of Katisha Lake south to the southern perimeter of the property (Fig. 2). The zone is sharply bounded to the east by the "East Fault Zone" which is a fault with 150 metres of apparent right-hand offset (Fig. 4). This fault is marked by a 2 to 5 metre high southerly trending escarpment along which the gabbroic and basaltic rocks, have been extensively foliated, refolded, locally lineated (near vertical in the foliation plane), and extensively carbonatized. This fault zone is the strike extension of the Old Timer and South Katisha zones (Fig. 4). The footwall contact of the fault dips to the west at approximately 60-80 . The western boundary of the structural zone is less sharply defined. A north-south line or fault zone with apparent left-hand offset extends from the Zig zone south for approximately 500 metres.

(b) Howie Lake Carbonatized Zone: An east-west (110) trending zone of extensive carbonate alteration extends from the west shore of Howie Lake to the east for a distance of 600 metres (Fig. 4). This zone varies along strike in style of alteration and deformation. In the vicinity of Howie Lake, east of the Twilight Zone, it is characterized by a weak to strong foliation (100 - 120/70S) with local mylonitic zones and a minerology of _____ chlorite-fuchsite-carbonate-leucoxene-pyrite.

(c) Kawie Schist Zone: A wide tectonized zone developed in the heterolithic breccia unit extends for over 700 m across Kawiejekima Lake. The zone trends southeasterly and ranges in width from 50 to 150 metres (Fig. 2) The volcanic breccia is moderately to intensely carbonatized, and locally sericitized, pyritized and silicified. It is truncated against a lamprophyre dyke to the north and a feldspar porphyry dyke to the southeast. Throughout the zone is a well developed, closely-spaced cleavage in the matrix of the breccia. The clasts have been rotated and flattened in the direction of the schistosity with numerous minor folds, developed by the folding of already foliated breccia.

East-West Structural Zones

(d) Lower East-West Structural Zone (LEWSZ): The zone is defined by numerous carbonatized and sheared zones in basalt near Katisha Lake. Sheared and carbonatized east-west trending Thundercloud porphyry dykes (15 metres) are present. To the east the zone bifurcates into two well-developed shear/mylonite zones with the southern zone 10 to 35 m wide, developed in pillow basalts. Further to the east an intensely carbonatized and sheared lamprophyre dyke cores the zone. The northern portion of this structural zone trends east-west and comprises sheared and mylonitized pillow basalts and interflow sediments with numerous thin 2.0 metre Thundercloud porphyry dykes. No widespread pervasive carbonate/pyrite alteration is developed but a 1 to 2 metre wide carbonate vein, trending east-west is found in the centre of the zone.

(e) Upper East-West Structural Zone (UEWSZ):

This zone cuts across the northern shores of Katisha and Seggemak Lakes for a total distance of approximately 1.5 kilometers. It is characterized by an intensely developed east-west trending foliation with minor amounts of sericitic and carbonate alteration present. An unfoliated quartz diorite dyke cores this structural zone.

Figure # 2 GENERAL GEOLOGY - SNAKE CLAIMS

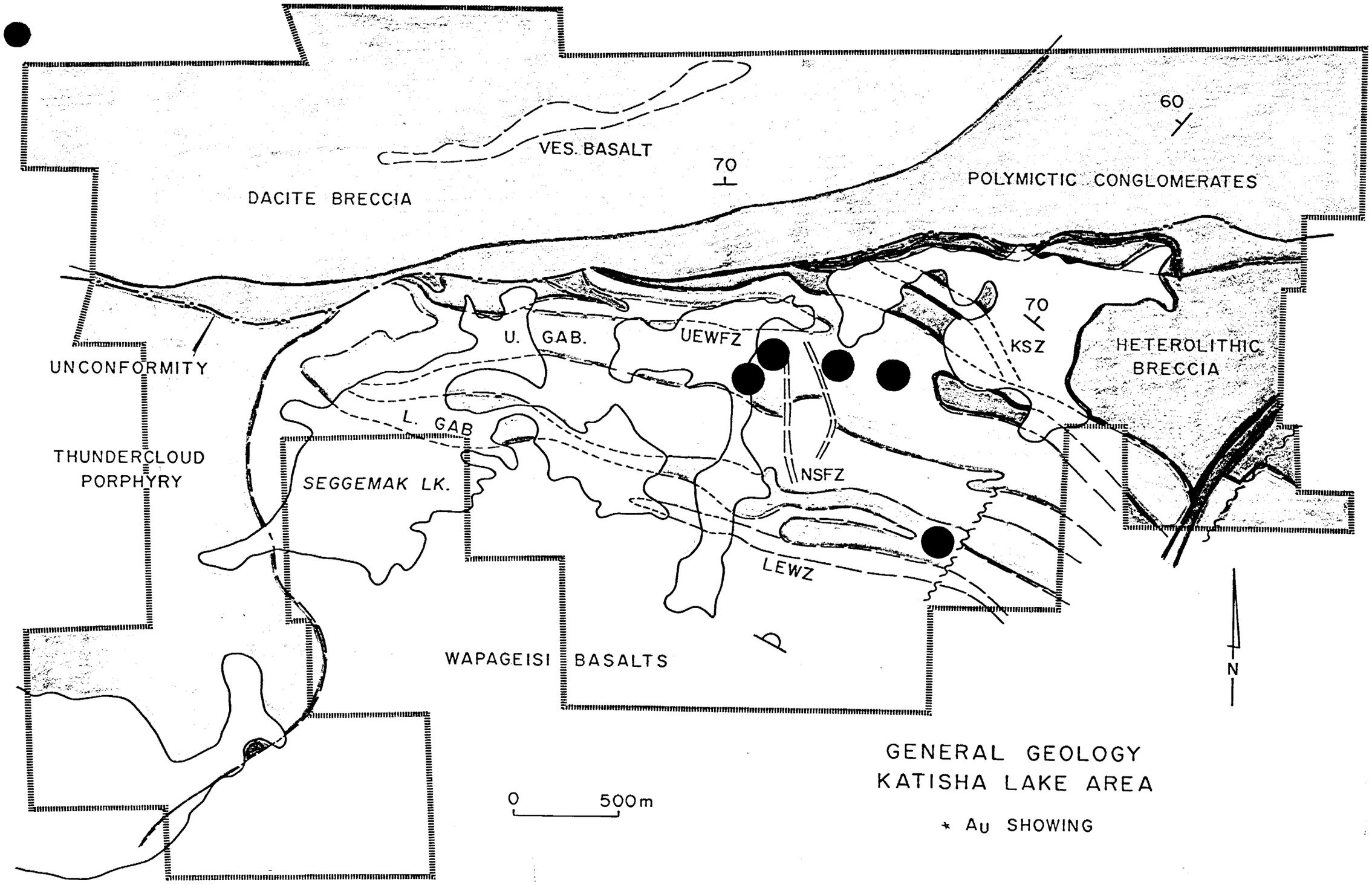
LEGEND

STORMY LAKE GROUP
- Dacite Breccia
- Conglomerate

WAPAGEISI LK. GRP.
- Heterolithic Breccia
- Layered Gabbro
- Thundercloud Porphyry and related pyroclts
- Basalt

STRUCTURAL ZONES
- UEWFZ - Upper East-West Fault Zone
- KSZ - Kawajekiwa Shear Zone
- NSFZ - North-South Fault Zone
- LEWFZ - Lower East-West Fault Zone

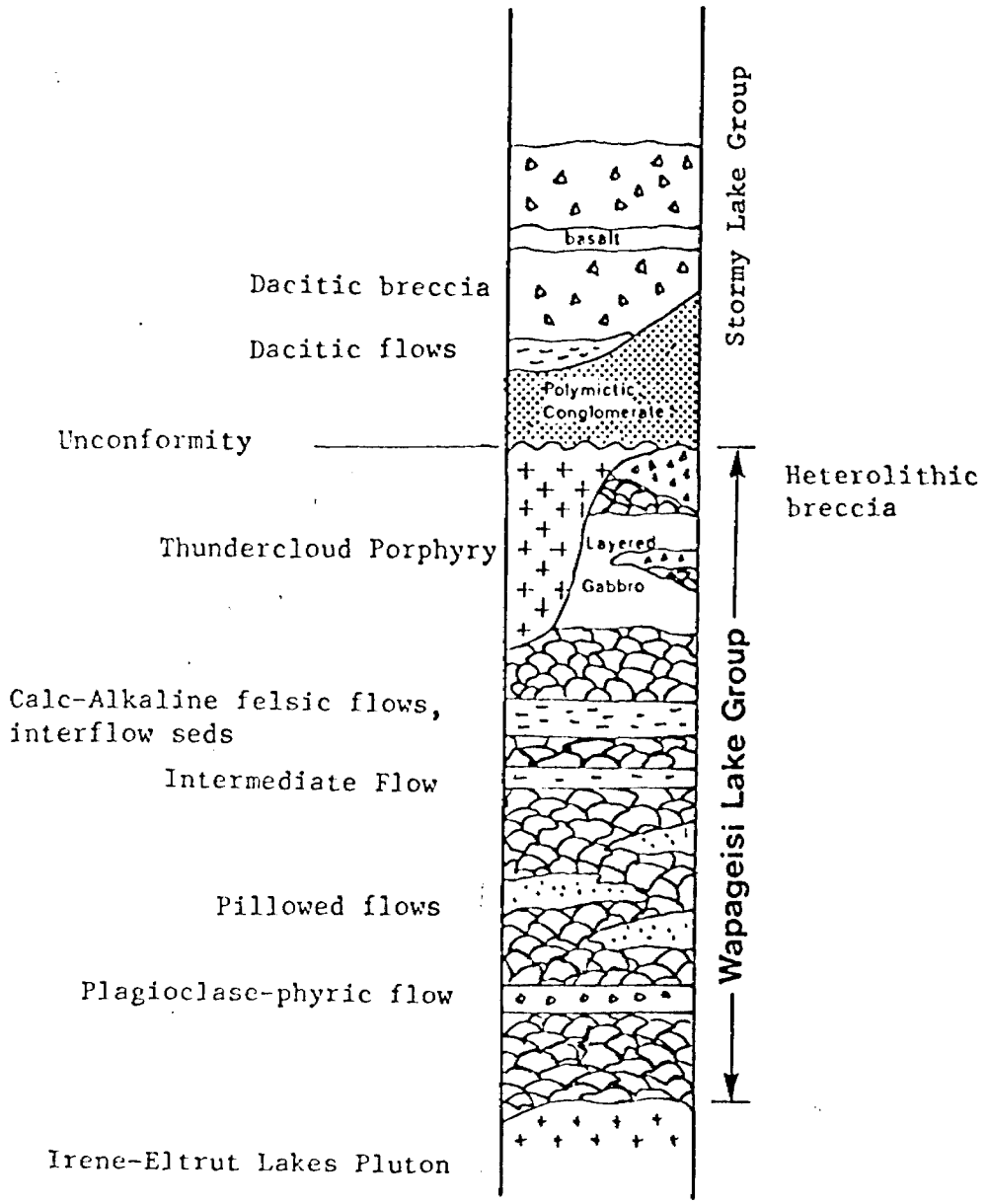
- Lamprophyre Dykes



GENERAL GEOLOGY
KATISHA LAKE AREA

* Au SHOWING

FIGURE # 3 SIMPLIFIED STRATIGRAPHIC COLUMN OF THE SNAKE BAY CLAIMS



Mineralized Zones

General

The most significant gold mineralization on the Snake property is hosted by shear zones cutting oxide-bearing gabbro. The shear zones are part of a conjugate set trending 180°/90°and 120 /40 S respectively throughout the property. To date seven main mineralized zones have been discovered by EMC (Figs. 4, 5) of which five have been drilled.

The shear zones range from 1.0 to 15m in width and are marked by an intense foliation developed parallel to the trend of the zones. These zones are the focal point for hydrothermal alteration and associated veining, generally consisting of an early carbonate (Fe-carbonate ± minor pyrite) generation overprinted by a quartz stockwork vein set. The early carbonate veins are typically colliform textured, up to 5.0m in width, and have formed parallel to, and in the centre of, the shear zones. Consanguineous with the carbonate veining, carbonatized haloes in the wallrock developed up to 15.0 away from the zones. In the wider shear zones, thin (2m), lamprophyre dykes are found intruded along the centre of the veins. No significant Au values (i.e. 2.0 g/t) are associated with this period of veining.

Sporadically developed zones of quartz-stockwork veining and associated silicification overprint the carbonate veining. These zones are typically small (<2m) and anastomosing and are formed at the widest portions or bends in the shear zones. Sulphide mineralization (py, aspy), locally present in amounts up to 40% is found within the silicified zones. Significant gold values (i.e. 2 to 10 g/t) are intimately associated with this sulphide mineralization.

Mineralized Zones Discovered During 1984 Field Season

Three Au-bearing zones were cleared, sampled and mapped during the 1984 field season. Two of these zones occur in the upper gabbro sill and the third in the lower gabbro sill. The Old Timer and Twilight Zones (Maps 3 and 5) occur within and adjacent to the "East Fault Zone."

(a) Old Timer Zone: The Old Timer Zone (Map 5) occurs 100 metres southeast of the South Katisha Zone and is the southern extension of the same structure with similar alteration and mineralization suggesting that the South Katisha structure has a strike length in excess of 250 metres.

As with the South Katisha structure, gold values in the Old Timer Zone are generally low (up to 2.5 g/t) and are associated with thin, less than 1 metre wide, silicified pods. The zone is exposed over a strike length of 50 metres with an exposed width of 5.0 metres. A sheared and carbonatized Thundercloud Porphyry dyke, 1 m wide, cores the zone which dips 50 to 80 to the west. The footwall and hangingwall gabbros are extensively carbonatized and sheared. The zone itself is composed of a colliform textured carbonate vein ranging in width from 1.0 to 2.5 metres with locally abundant (5-10%) pyrite. This carbonate vein contains only minor gold (tr - 0.5 g/t). A silicified lens, up to 2.0 m wide occurs in the middle of the zone. This lens has abundant pyrite (up to 15%) and fuchsite. Channel samples give values of 0.5 to 3.0 g/t. Parallel silicified/carbonatized zones presumably lie to the west underneath the swamp for a distance of approximately 10 metres, based on the drill intersection in the South Katisha Zone.

(b) Twilight Zone - The Twilight Zone (Map 3) is a triangular (15 x 25 m) shaped area of extensive carbonate veining and irregular sericitized and silicified zones. Channel sampling to date indicates overall low gold values (tr - 6.5 g/t) throughout various alteration facies.

The zone itself lies on the eastern edge of the "East Fault Zone" where it intersects the Howie Lake carbonatized zone (Fig. 4). Hydrothermal alteration of the Twilight Zone has evolved four distinct zones/facies: (a) quartz-carbonate-sericite-pyrite, (b) silicified py-aspy-bearing zone, (c) massive colliform-textured carbonate vein, and (d) chlorite-carbonate-fuchsite-leucoxene-pyrite schist (Map 4).

A small lens of brecciated carbonate measuring 1.0 x 2.0 metres, containing 5 to 25% pyritized gabbro fragments gave the highest gold values (3 to 6 g/t) on the showing. Silicified, arsenopyrite-bearing material has consistently low Au values (tr - 2 g/t) even though it contains up to 20% pyrite and 10% arsenopyrite as fine-grained disseminations.

The alteration zones occur as parallel, northeasterly trending layers which truncate against carbonatized gabbro to the southwest. The western margin of the zone grades into a northerly trending shear zone with the intensity of schistosity increasing towards the west.

A number of parallel silicified (quartz-fuchsite-pyrite) pods and lamprophyre/gabbro and monzonite dykes occur in this shear. An intensely carbonatized, vesiculated lamprophyre dyke trending parallel to a 100 foliation cuts across the zone from east to west. Towards the western limit of the zone the dyke shifts to a 030 direction parallel to the north-south shear. As in all other zones on the property, the mafic

dykes are intruded into pre-developed structures and hence are intruded late in the structural development of the zones. These dykes, however, are invariably carbonatized and therefore most likely are intruded before or during the peak of carbonate alteration. Drilling of this zone is warranted because of its large size, the intensity of alteration present, and the down dip/plunge potential of the gold bearing zone to widen out based on the apparent obliquity of the hangingwall and footwall contacts.

(c) Fringe Zone: Only one gold-bearing zone was discovered in the lower gabbro sill body (Map 4). A thin, 3 wide north easterly trending tectonized zone is located near the southeastern corner of the claim group (claim #731140). The zone is composed of a weakly to moderately sericitized/carbonatized and foliated core (0.5 m wide) with 1 to 2 metre wide pyritized haloes (pyrite replacing magnetite) formed in a weakly foliated gabbro (in hangingwall and footwall). Grab and channel samples from this zone contain from nil to 7.0 g/t Au. No further exploration of this zone is recommended due to the absence of significant assays over mineable widths.

A possible strike extension of this zone is found on claim #732088. This zone has a strike length of 200 m and attitude of 130 /80 (identical to the Fringe Zone). The zone is composed of a 0.5 to 2.0 metre wide silicified zone, containing locally abundant pyrite and fuchsite. Carbonate alteration is absent and no gold-values were found in grab samples. If this silicified zone is the northwestern strike extension of the Fringe Zone, it has been offset approximately 150 m on the left-hand fault.

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0020A

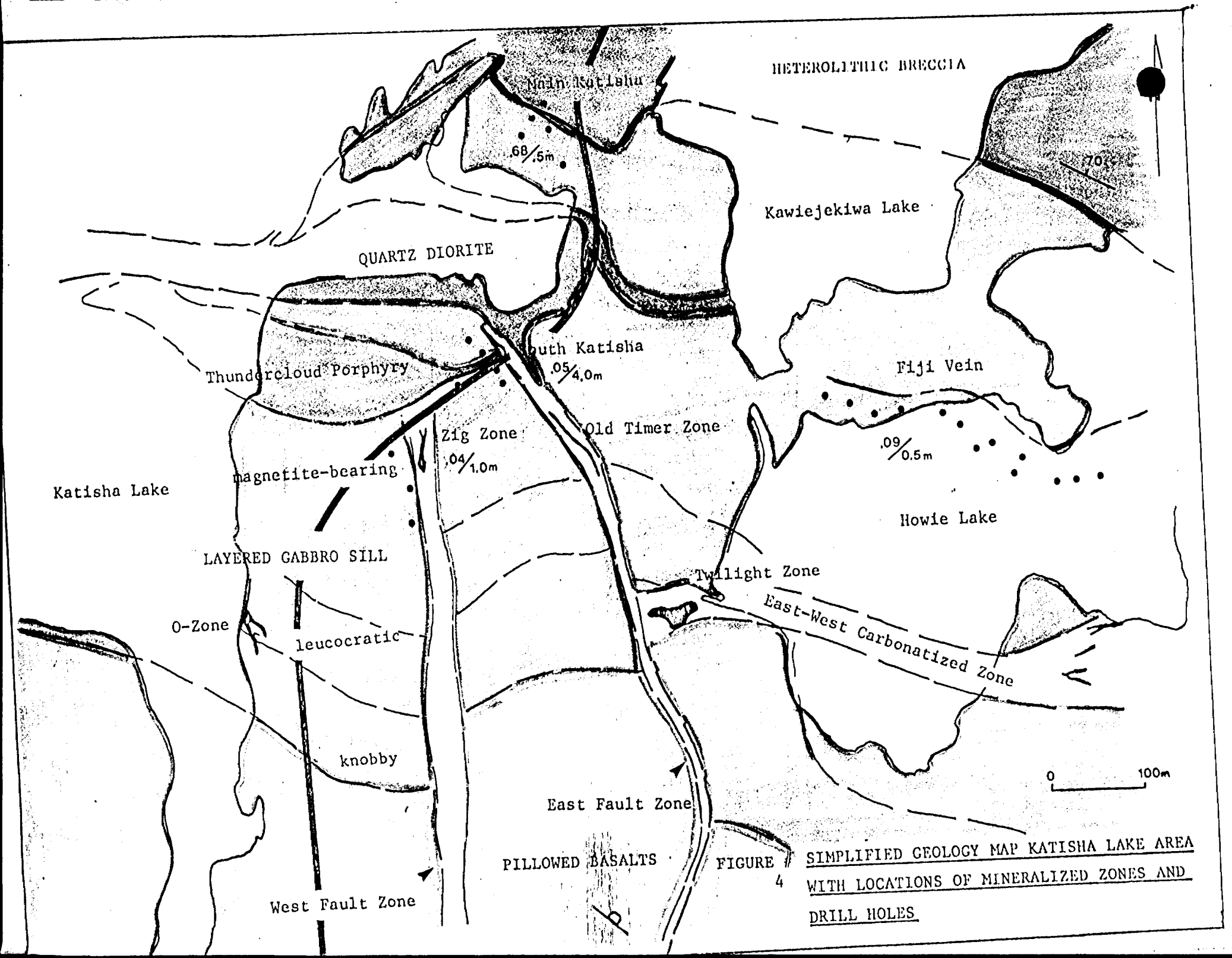
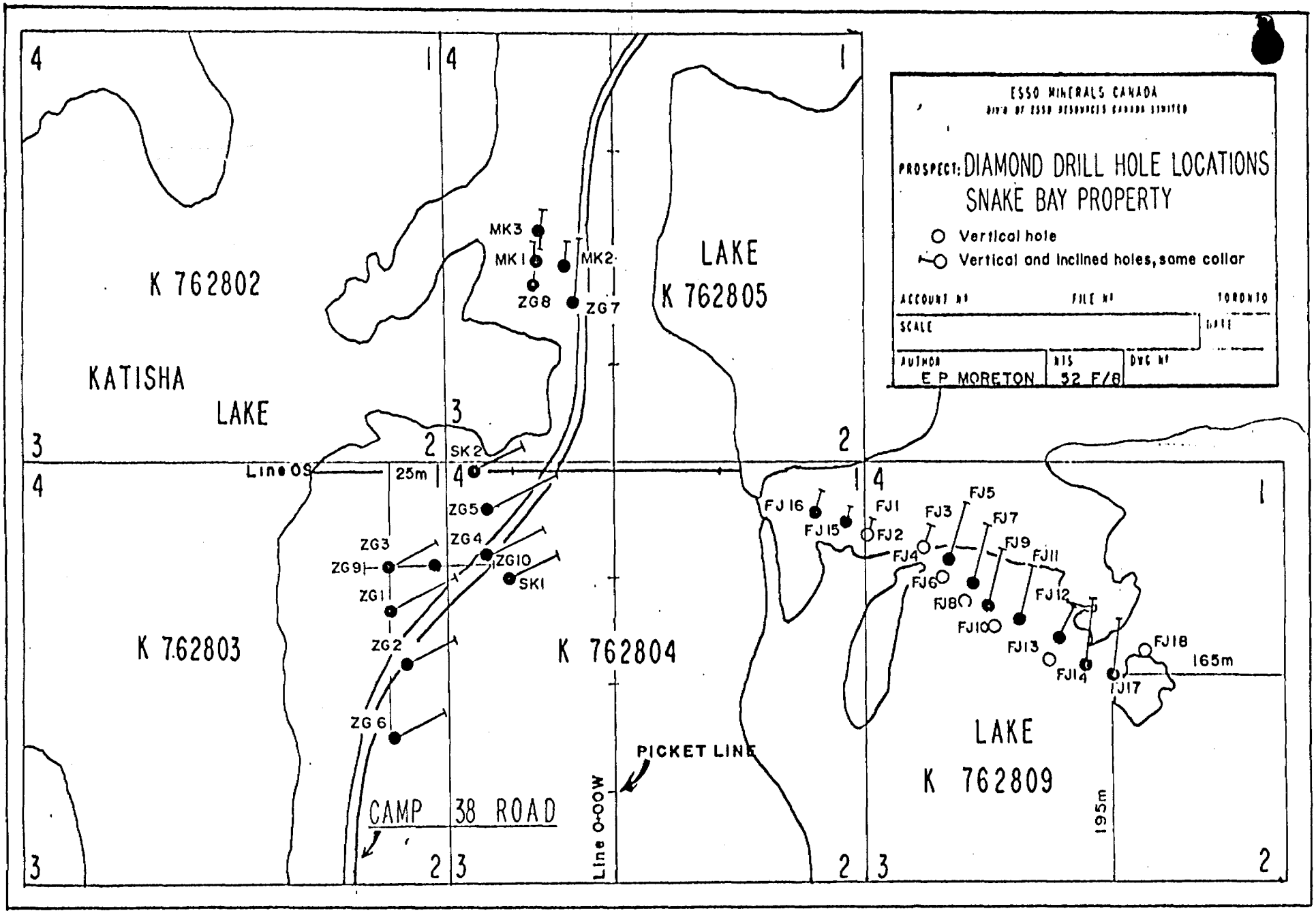


FIGURE 4 SIMPLIFIED GEOLOGY MAP KATISHA LAKE AREA WITH LOCATIONS OF MINERALIZED ZONES AND DRILL HOLES


ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED
PROSPECT: DIAMOND DRILL HOLE LOCATIONS
SNAKE BAY PROPERTY
Vertical hole
Vertical and inclined holes, same collar
ACCOUNT N°
FILE N°
TORONTO
SCALE
DATE
AUTHOR
E P MORETON
NTS
52 F/8
DWG N°
K 762802
KATISHA
LAKE
LAKE
K 762805
K 762803
K 762804
LAKE
K 762809
MK3
MK1
MK2
ZG8
ZG7
SK2
Line 0S
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ZG10
SK1
ZG1
ZG2
ZG6
FJ16
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FJ3
FJ5
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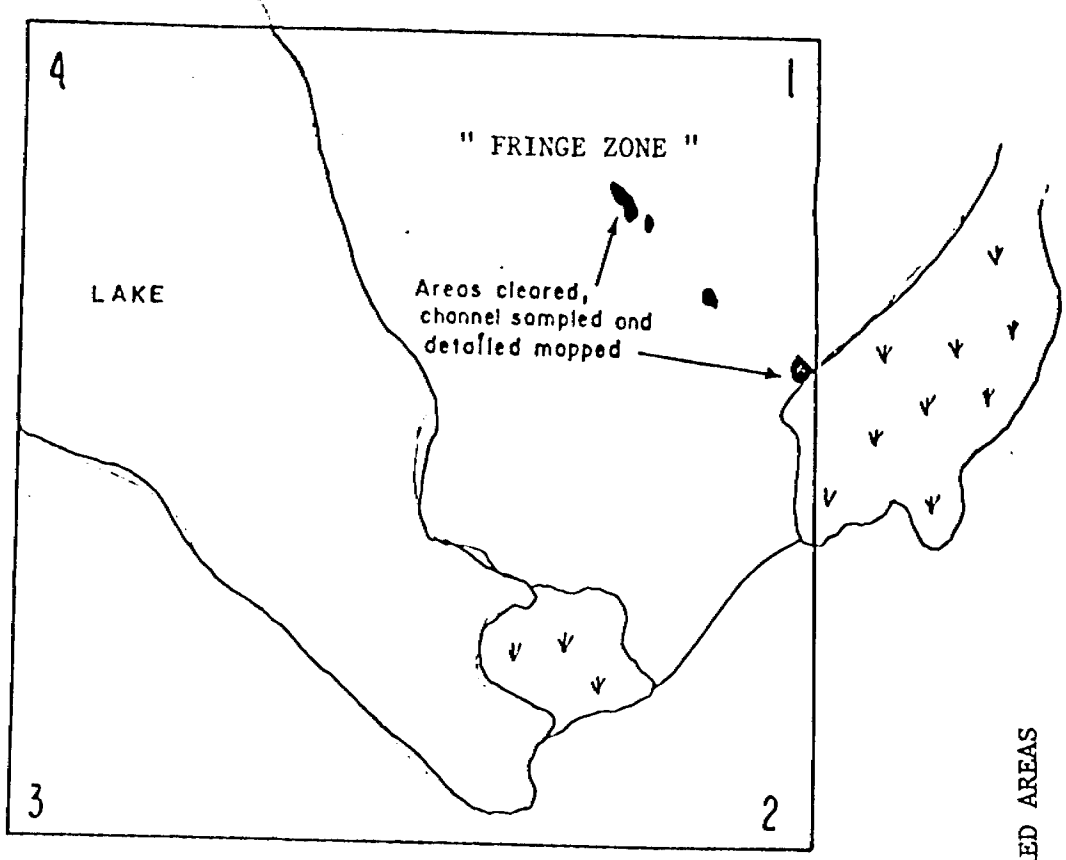
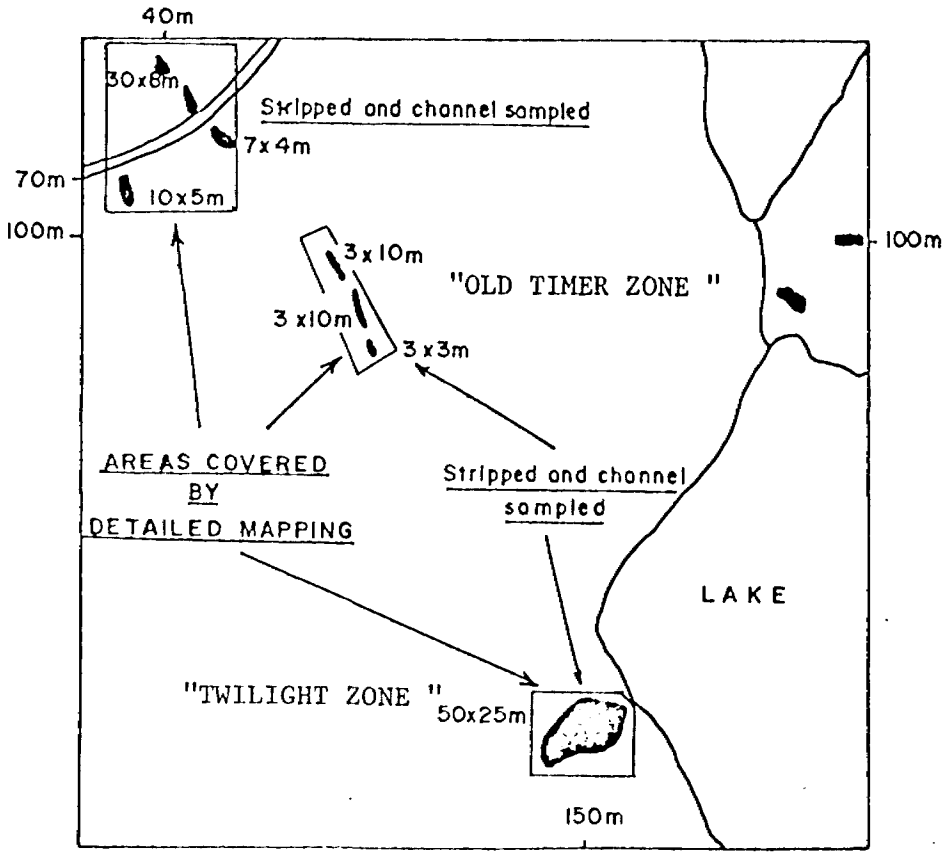
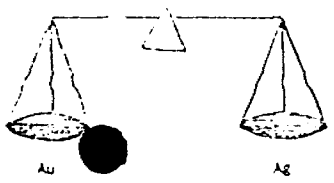


CLAIM 731139



CLAIM K762804

INDEX MAP SHOWING LOCATION OF CLEARED AREAS



CUSTOM FIRE ASSAYING LTD.

Phone: Bus. 662-8171
Res. 662-3361

PAUL OKANSKI, Assayer
Box 253. Cochenour, Ontario POV 1LO

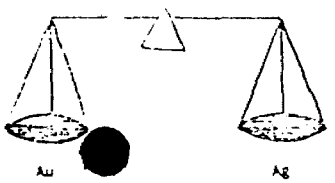
ASSAY CERTIFICATE

Date: _____

Sample No.	Description	oz/ton Au	oz/ton Ag
CH-03	OLD TIMER ZONE CHANNEL SAMPLES	.04	
04	"	.05	
05	"	.02	
06	"	.01	
07	"	.02	
08	"	.04	
09	"	.02	
10	"	.08	
11	"	.01	
12	"	Trace	
13	"	"	
CH-01	OLD TIMER ZONE CHANNEL SAMPLES	.02	
02	"	.01	

Assayer: Paul O Okanski

ted Lake Printing Co. Ltd.



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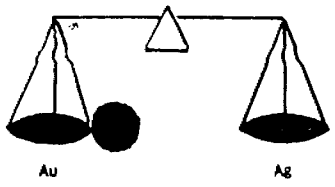
Date: _____

Sample No.	Description	oz/ton Au	oz/ton Ag
CH-03	OLD TIMER ZONE CHANNEL SAMPLES	.04	
04	"	.05	
05	"	.02	
06	"	.01	
07	"	.02	
08	"	.04	
09	"	.02	
10	"	.08	
11	"	.01	
12	"	Trace	
13	"	"	
CH-01	OLD TIMER ZONE CHANNEL SAMPLES	.02	
02	"	.01	

Assayer: _____

Red Lake Printing Co. Ltd.



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Esso Minerals

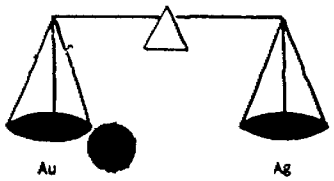
ASSAY CERTIFICATE

Date: Aug. 10-84

Sample No.	Description	oz/ton Au	oz/ton Ag
CH-88	FRINGE ZONE CHANNEL SAMPLES	.01	
89	"	Trace	
90	"	"	
91	"	.24	
92	"	.02	
93	"	.06	
94	"	.06	
95	"	.01	
96	"	.01	
97	"	Trace	
98	"	.02	
99	"	.02	
100	"	.04	
01[illegible]	"	.01	
02	"	Trace	
03	"	.01	
04	"	.01	
05	"	Trace	
06	"	"	
07	"	.01	
08	"	.01	
09	"	.02	
10	"	.01	
11	"	.02	

Assayer: Paul Okanski

ed Lake Printing Co. Ltd.



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PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario POV 1LO

Esso Minerals

ASSAY CERTIFICATE

Date: Aug. 10-04

Sample No.	Description	oz/ton Au	oz/ton Ag
CH-112	FRINGE ZONE CHANNEL SAMPLES	.02	
13	"	.01	
14	"	.02	
15	"	Trace	
16	"	"	
17	"	.01	
18	"	.02	

Assayer: Paul Okanski

Red Lake Printing Co. Ltd.

PART TWO

Airborne Geophysical Survey

REPORT ON

A HELICOPTER-BORNE

MAGNETOMETER SURVEY

SNAKE BAY, ONTARIO

NTS. 52F/7,8

MAY 1984

Doc. #2001

LLOYD M. WILSON

ESSO MINERALS CANADA

TABLE OF C

LIST OF MAPS

(Scale: 1:5,000)

Maps

1. Total Field Magnetic Contours - Sheets 1 & 2

1. INTRODUCTION

On March 13, 1984, a helicopter - borne magnetometer survey was flown by Aerodat Limited, Toronto, on behalf of Esso Minerals Canada. The survey, located near Snake Bay in the Dryden area of northwestern Ontario, covers portions of Wapageisi Lake (M2056), Meggisi Lake (M2553), Kawashegamuk Lake (M2573) and Boyer Lake (M2582) claim sheet areas. (Figures 1 & 2).

This report is submitted to satisfy the requirements necessary to credit each of the 153 claims listed in Appendix II with 40 days. Thus these claims will be maintained in good standing for one year.

The technical information and survey specifications have been abstracted from information supplied by Aerodat Limited, Toronto. Interpretation of the magnetic survey data was carried out by L. Wilson, Geophysicist, Esso Minerals Canada.

2. LOCATION AND ACCESS

The Snake Bay prospect area is situated 52 km south-east of Dryden, Ontario. The property is adjacent to an all-weather gravel logging road known as the Snake Bay Road which is maintained by Great Lakes Forest Products of Dryden, Ontario. This road leads southward from Highway 17 at a point halfway between the villages of Dinorwic and Borups Corners. (Figure 1).

LOCATION MAP

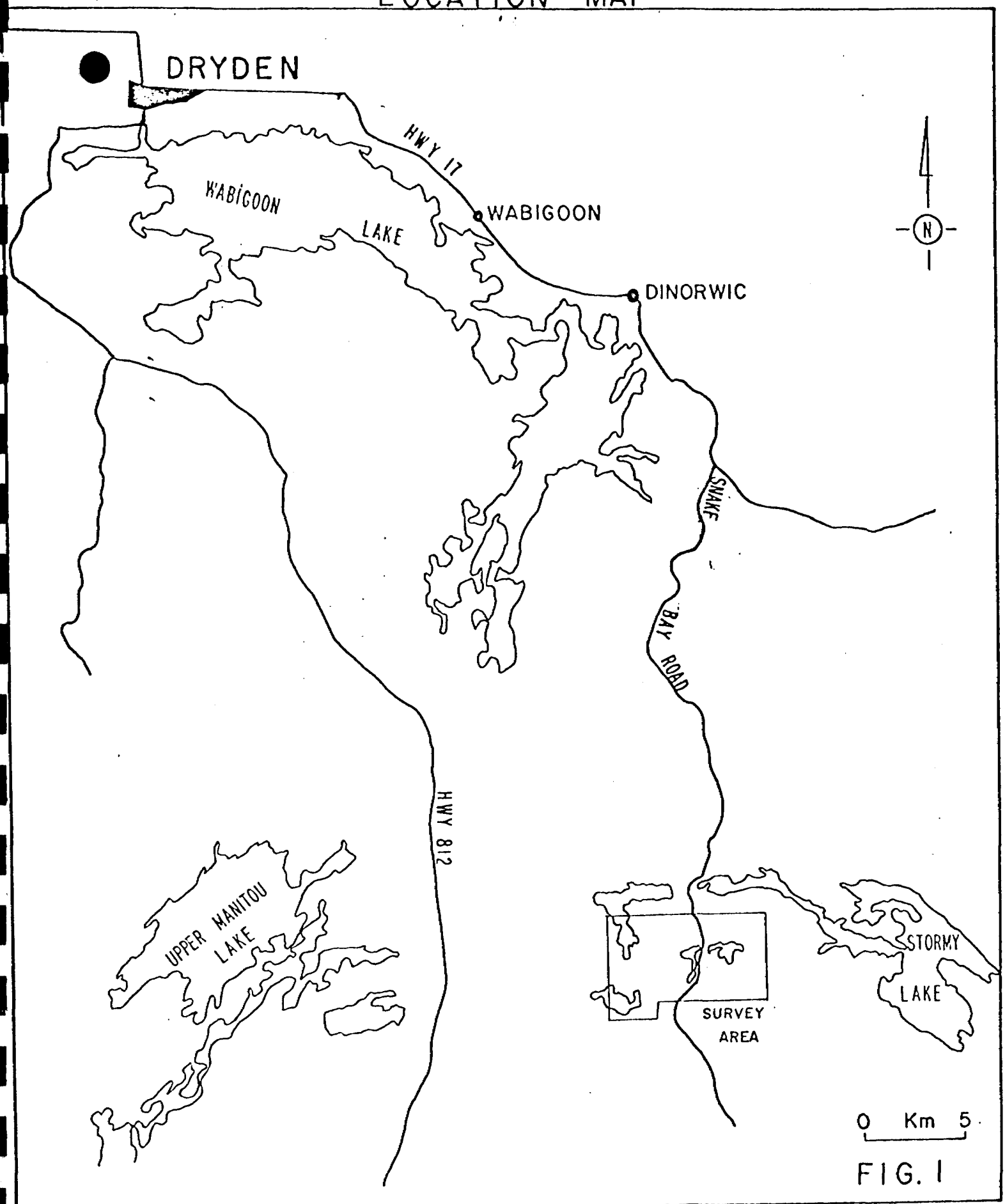

FIG. 1

SURVEY AREA

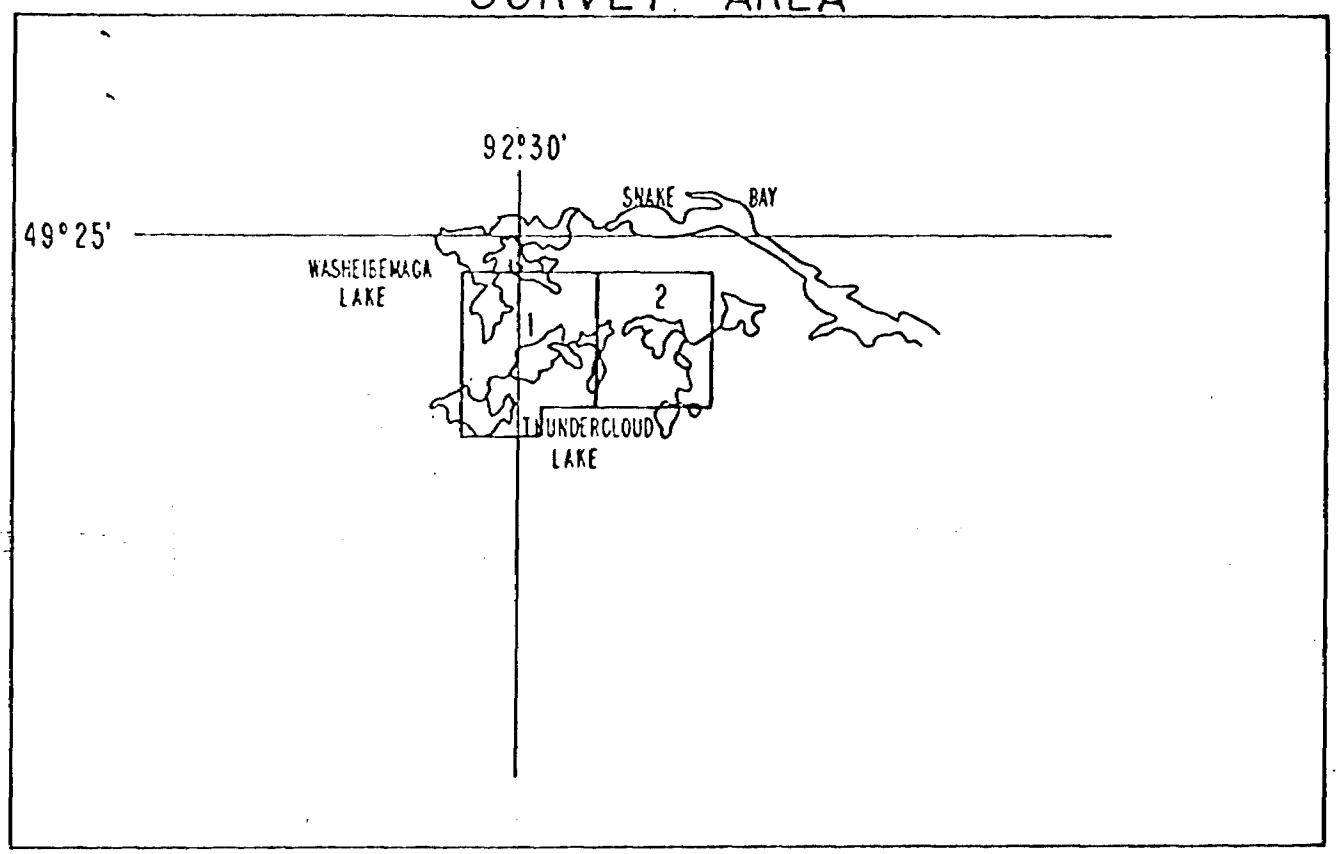

FIG. 2

2. LOCATION AND ACCESS (Cont'd)

Access to the region is gained via Highway 17, or through twice daily jet service to Dryden from Winnipeg or Toronto (via Thunder Bay). The CPR main line runs through Dinorwic and the area is served by Greyhound bus and numerous freight companies.

The area lies within the Kenora Mining Division, and is under the jurisdiction of the Dryden Ministry of Natural Resources office for the purposes of land use and work permits.

3. PREVIOUS WORK IN THE REGION

There has been extremely limited mineral exploration work in this area to date. Ontario Government mapping of most of the area was released in the spring of 1983.

The only published detailed maps of the area are a a scale of 1" to 1 mile by J. Thomson (1934; Map 42C), at 1" to 1/4 mile by Blackburn (1976 a and b) and Kresz, Blackburn and Fraser (1982 a and b); and a compilation by Blackburn (1982) at 1" to 1/2 mile scale. A detailed airborne EM and magnetometer survey was flown for the Ontario Government in 1980. Results are published at a scale of 1:20000 (O.G.S. 1981).

REGIONAL GEOLOGY

The survey area is located within the Wabigoon subprovince of the Superior Province. The rocks in the map area are virtually all Archean, with rare Proterozoic diabase dykes. The northern part of the region adjacent to Highway 17 is covered by locally thick lacustrine clays and minor sand deposits. Outcrop is sparse. The southern portion of the region contains abundant outcrop with minor esker and till deposits.

The mapping of Blackburn (1982) in the area immediately to the east provides the basis for understanding regional geology. He has established three stratigraphic groups in the supracrustal rocks; the Boyer Lake Group; the Stormy Lake Group; and the Wapageisi Group. Blackburn has interpreted the stratigraphy as younging from South to North, with the Wapageisi Group being the oldest group, and the Boyer Lake group being the youngest.

The Wapageisi Group is a thick homoclinal sequence of northwestward facing mafic metavolcanic rocks, with numerous gabbro sills, and minor amounts of felsic intrusive and extrusive rocks, and metasedimentary rocks.

The Stormy Lake group consists of a complex sequence of coarse, clastic, sedimentary rocks (conglomerates, wackes, arkoses).

The Boyer Lake group is a sequence of mafic volcanic rocks intruded by numerous gabbro sills. Lesser amounts of felsic pyroclastic rocks and felsic intrusive rocks are also found in this area.

5. AIRCRAFT AND EQUIPMENT

5.1 AIRCRAFT

The helicopter used for the survey was an Aerospatiale A-Star 350D owned and operated by Maple Leaf Helicopters. Installation of the geophysical and ancillary equipment was carried out by Aerodat. The survey aircraft was flown at a nominal altitude of 60 meters.

5.2.1 Magnetometer

The magnetometer is a Geometrics G-803 proton precession type. The sensitivity of the instrument is 1 gamma at a 0.5 second sample rate. The sensor was towed in a bird 12 meters below the helicopter.

5.2.2 Magnetic Base Station

An IFG proton precession type magnetometer was operated at the base of operations to record diurnal variations of the earth's magnetic field. The clock of the base station was synchronized with that of the airborne system.

5.2.3 Radar Altimeter

A Hoffman HRA-100 radar altimeter was used to record terrain clearance. The output from the instrument is a linear function of altitude for maximum accuracy.

5.2.4 Tracking Camera

A Geocam tracking camera was used to record flight path on 35 mm film. The camera was operated in strip mode and the fiducial numbers for cross reference to the analog and digital data were imprinted on the margin of the film.

5.2.5 Analog Recorder

An RMS dot-matrix recorder was used to display the data during the survey. In addition to manual and time fiducials, the following data was recorded:

5.2.5 Analog Recorder (Cont'd)

Channel	Input	Scale
00	Altimeter (500 ft. at top of chart)	10 ft./mm
04	high freq. quadrature	2 ppm/mm
04	high freq. in-phase	2 ppm/mm
03	high freq. in-phase	2 ppm/mm
06	mid freq. quadrature	4 ppm/mm
05	mid freq. in-phase	4 ppm/mm
02	low freq. quadrature	2 ppm/mm
01	low freq. in-phase	2 ppm/mm
15	magnetometer	25 gamma/mm
14	magnetometer	2.5 gamma/mm
07	VLF-EM Total Field	2.5%/mm
08	VLF-EM Quadrature	2.5%/mm

5.2.6 Digital Recorder

A Perle DAC/NAV data system recorded the survey data on magnetic tape. Information recorded was as follows:

Equipment	Interval
EM	0.1 second
VLF-EM	0.5 second
magnetometer	0.5 second
altimeter	1.0 second
fiducial (time)	1.0 second
fiducial (manual)	0.2 second
MRS III	0.2 second

5.2.7 Radar Positioning System

A Motorola Mini-Ranger (MRS III) radar navigation system was utilized for both navigation and track recovery. Transponders located at fixed known locations were interrogated several times per second and the range from these points to the helicopter measured to several meter accuracy. A navigational computer triangulates the position of the helicopter and provides the pilot with navigation information. The range/range data was recorded on magnetic tape for subsequent flight path determination.

6. DATA PRESENTATON

6.1 Base Map and Flight Path Recovery

The base map is a photomosaic at a scale of 1:5,000.

The flight path was derived from the Mini Ranger radar positioning system. The distance from the helicopter to two established reference locations was measured several times per second, and the position of the helicopter mathematically calculated by triangulation. It is estimated that the flight path is generally accurate to about 10 meters with respect to the topographic detail of the base map. The flight path is presented with fiducials for cross-reference to both the analog and digital data.

6.2 Total Field Magnetic Contours

The aeromagnetic data was corrected for diurnal variations by substraction of the digitally recorded base station magnetic profile. No correction for regional variation was applied.

6.2 Total Field Magnetic Contours (Cont'd)

The corrected profile data was interpolated onto a regular grid using a cubic spline technique. The grid provided the basis for threading the presented contours at a 10 gamma interval.

The aeromagnetic data is presented with flight path and fiducials on the base map (Map 1 - Sheets 1 & 2 - Accompanying this report).

7. INTERPRETATION OF SURVEY RESULTS

Map 1 - Sheets 1 and 2 - shows the total magnetic intensity contours drawn at an interval of 10 gammas.

The Katisha - Seggemak Lakes area, located in the centre of the survey grid, shows two or more strong, NNW trending linears caused by magnetite and ilmenite bearing gabbroic intrusions. These gabbroic rocks occur in a WNW - ESE striking belt which extends from Washeibemaga Lake (NW corner of Sheet 1) to the southeast corner of the survey area (Sheet 2). This belt of gabbroic intrusions is open to the southeast of our claim group.

Magnetite concentrations within these gabbros varies along strike, as indicated by the changes in observed magnetic amplitude. The magnetite may occur in the form of pods as evidenced by the near circular magnetic anomaly observed on Line 1470 on the NE corner of Katisha Lake adjacent to the Snake Bay road.

With the exception of the gabbroic intrusions, the Wapageisi Group of mafic metavolcanic rocks is generally weakly magnetic to non-magnetic. The wedge of intermediate to felsic epiclastic rocks in the Kawijekiwa Lake area (center of Sheet 2) is generally outlined as a magnetic low.

The E-W linear, magnetic feature north of Seggemak, Katisha and Kawijekiwa Lakes occurs at or near the unconformity between the Wapageisi Group to the south and the overlying Stormy Lake Group to the north. A variety of sedimentary rocks are observed to lie along the unconformity. A magnetite iron-formation unit is mapped at the contact north of Katisha Lake. A wide variety of intrusive rocks (e.g. lamprophyre) are also localized along this contact zone. The close spatial relationship between the magnetite iron-formation unit and the intrusions which occur along the unconformity makes it difficult to sort out which gives rise to the magnetic anomaly at various points along this magnetic trend.

The magnetic features located on the north portion of Sheet 1, north of the Stormy Lake - Wapageisi contact, may be caused by gabbroic intrusives. Further mapping is required in this area to confirm this interpretation.

The N-S trending magnetic gradient along the west side of Sheet 1 is caused by the highly magnetic Thundercloud porphyry which is mapped to the west of the survey area. The source of the magnetic linear feature on the south end of Sheet 1 is not known.

Respectfully submitted,

.....

Lloyd M. Wilson

Geophysicist

APPENDIX I

QUALIFICATIONS OF AUTHOR

Lloyd M. Wilson attended Memorial University of Newfoundland between 1966 and 1971, graduating with a B.A. (Honors) degree in Mathematics. From May, 1971 to October, 1973, Mr. Wilson worked full-time in oil and gas exploration for Amoco Canada Petroleum Co. Ltd. in Calgary, Alberta, specializing in gravity, magnetic and seismic methods. Since then he has had nine years of experience as a mineral exploration geophysicist - three with Geoterrex Ltd. (1973-1976) in Ottawa and six with Esso Minerals Canada in Toronto (1978-). For the past four years he has been involved in project planning, geophysical field activities, report writing and the training and supervision of student personnel for Esso Minerals Canada. He is a member of the Society of Exploration Geophysicists, the Prospectors and Developers Association, CIMM (Toronto Branch) and KEGS.

APPENDIX II

TECHNICAL DATA STATEMENT

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL
TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey: Geophysical

Township or Area: Kawashegamuk Lake (M2573), Boyer Lake (M2586), Meggisi Lake (M2553), Wapageisi Lake (M2056)

Claim holder(s): Esso Resources Canada Limited

Author of Report: Lloyd M. Wilson

Address: c/o Esso Minerals Canada, Toronto

Covering Dates of Survey: March 13, 1984
(linecutting to office)

Total Miles of Line cut:

SPECIAL PROVISIONS
CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
–Electromagnetic	
–Magnetometer	
–Radiometric	
–Other	
Geological	
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer 40 Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: May - 1984 SIGNATURE: Lloyd M. Wilson
Author of Report or Agent

PROJECTS SECTION

Res. Geol. _____ Qualifications _____

Previous Surveys _____

Checked by _____ date _____

GEOLOGICAL BRANCH

Approved by _____ date _____

GEOLOGICAL BRANCH

Approved by _____ date _____

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

See attached pages.

TOTAL CLAIMS 153

If space insufficient, attach list

Show instrument technical data in each space for type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations _____ Number of Readings _____

Station interval _____

Line spacing _____

Profile scale or Contour intervals _____ (specify for each type of survey)

MAGNETIC

Instrument _____

Accuracy - Scale constant _____

Diurnal correction method _____

Base station location _____

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 _____

INDUCED POLARIZATION – RESISTIVITY

Instrument _____ Frequency domain _____

Time domain _____ Range _____

Frequency _____

Power _____

Electrode array _____

Electrode spacing _____

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) Helicopter - Borne Magnetic

Instrument(s) Geometrics G-803 Proton Precession Mag.

(specify for each type of survey)

Accuracy Sensitivity 1 Gamma at 0.5 second sample rate.

(specify for each type of survey)

Aircraft used Aerospatial Astar 350D

Sensor altitude 45 Meters

Navigation and flight path recovery method A motorola mini-ranger (MRS III) radar navigation system was used for both navigation and track recovery.

Aircraft altitude 60 Meters Line Spacing 100 Meters

~~Miles~~ Km. flown over total area 350 Over claims only 245 Km.

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

_____

_____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

_____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

_____

Drainage Development _____

Estimated Range of Overburden Thickness _____

_____

_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

_____

_____

_____

General _____

_____

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_____

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_____

_____

ANALYTICAL METHODS

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

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

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

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153 CLAIMS TOTAL

K	728109
K	728110
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K	728112
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EPM/ss

Doc. #0812

PART THREE

Diamond Drill Program - Winter 1984

Introduction

Twenty-three diamond drill holes, for a total of 1035m were drilled between January 30th and March 14th, by Longyear Canada Ltd. Of these, sixteen were started after the OMEP designation date of Feb. 9th/1983. Eighteen of the holes were drilled testing the Fiji vein, two the South Katisha structure, and three the Main Katisha structure (Fig. 1).

All eighteen holes (FJ-1 to 18) drilled (at ~25m spacings) intersected the Fiji vein with sporadic gold values obtained over narrow widths. The two holes drilled on the South Katisha vein were collared 30m along strike from holes drilled (ZG 4, 5) during the 1983 fall programme. The three holes (MK-1, 2, 3) drilled on the Main Katisha zone were collared (~10m) close to the surface trench in order to find any down dip extension of which none was found.

Result of the above holes are summarized in Table #1, hole logs and assays for each hole are included.

CONCLUSIONS AND RECOMMENDATIONS

Drilling on the Fiji vein indicates that it is a continuous, although anastomozing structure, for over 280m of strike length. The assay values obtained from drill intersections are consistently lower (Tr. to 0.14 oz/ton) than those obtained from surface trenching (Tr. to 0.28 oz/ton 50 cm). The vein with its accompanying alteration and mineralization has been tested down dip from 20 to 70 metres along its strike length with no economic gold values obtained over mineable widths.

Drilling on the South Katisha structure indicates a proven strike length of 100 metres with good potential for strike extension, particularly to the southeast. It is recommended that further stripping, trenching, sampling and mapping be carried out along the southeastern extension of the South Katisha structure in order to outline possible future drill targets.

The Main Katisha structure was not intersected in any of the three holes drilled, therefore indicating that the zone does not extend down dip greater than 10 metres. No further work is recommended on the zone.

FIJI VEIN

A series of eighteen diamond drill holes were drilled on the Fiji vein covering a strike length of 285m. The drilling consisted of ten - 45 holes drilled at 015 , seven vertical holes, and one hole oriented at 030 and 45 . Fourteen of the holes were drilled on Howie Lake and four on land (Fig. 1). All holes intersected the Fiji vein which confirm the apparently continuous nature of the vein on surface. This continuous nature and overall strike of 115 is complicated by two "breaks" located at 1+25W and 0+25W. These "breaks" are defined by a sharp strike change from 115 to 160 . They may represent a primary change in attitude of the vein or possibly late offsets along NNW trending faults.

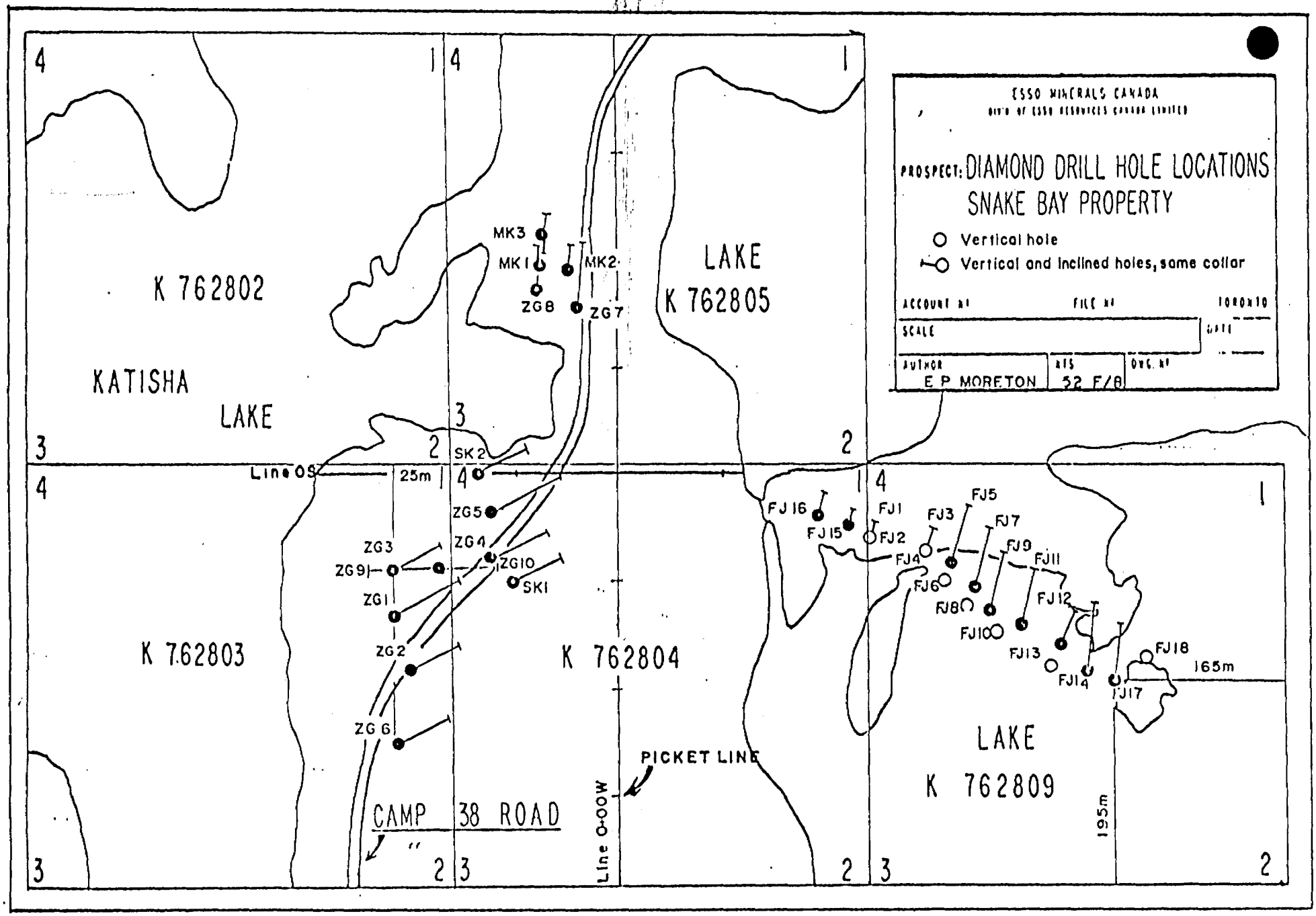
Alternation and Mineralization - The alteration zone associated with the Fiji vein dips from approximately 25 to 45 to the southwest and is defined by the appearance of disseminated leucoxene (0.5 to 5.0%) in the hanging wall and footwall gabbro adjacent to the vein. The formation of the leucoxene is accompanied by weak, non-pervasive carbonatization of the gabbro. The leucoxene alteration zone varies in width from 7 to 16 metres.

Immediately adjacent to the vein thin, 2m wide, carbonatized zones are developed in the gabbro. These carbonatized zones are creamy grey-white in colour and contain from 1 to 5% disseminated pyrite as well as leueoxene, tourmaline and minor fuchsite.

Table 1

SUMMARY SNAKE BAY DRILLING STARTED AFTER FEB. 9, 1983

HOLE #	ANGLE	AZIMUTH	DEPTH (M)	TARGET ZONE	SIGNIFICANT ASSAY (Au (Oz/Ton)/Metre)	COMMENTS
FJ8	90°	015°	47	FIJI	Tr	
FJ9	45°	015°	68	FIJI	.04/1.46m	- silicified gabbro, 2% py
FJ10	90°	015°	44	FIJI	Tr	
FJ11	45°	015°	53	FIJI	Tr	
FJ12	45°	030°	44	FIJI	.06/.42m	- visible gold in quartz-cb stringer cutting silicified-zone
FJ13	90°	030°	71	FIJI	.05/1/1.03m	
FJ14	45°	015°	74	FIJI	Tr	- qz-cb vein in pyritized gabbro
FJ15	45°	015°	17	FIJI	.14/.15m,.03/.6m	- silicified zones, 5% espy, py
FJ16	45°	015°	29m	FIJI	.04/0.5m,.03/0.3m	- " " " "
FJ17	45°	015°	44	FIJI	Tr	- silicified, pyritized basalt
FJ18	90°	-	44m	FIJI	-	
SK-1	45°	065°	68	South Katisha	.06/1.00m,.04/1.28m	- silicified, pyritized basalt 5-10% py
SK-2	45°	065°	68	South Katisha	Tr	
MK-1	45°	003°	29	Main Katisha	Tr	
MK-2	45°	003°	20	Main Katisha	Tr	
MK-3	45°	183°	20	Main Katisha	Tr	
	Total Meterage		740m			


ESSO MINERALS CANADA
PROSPECT: DIAMOND DRILL HOLE LOCATIONS
SNAKE BAY PROPERTY
Vertical hole
Vertical and inclined holes, same collar
ACCOUNT #
FILE #
TORONTO
SCALE
DATE
AUTHOR
E P MORETON
NTS
52 F/8
DWG. #
K 762802
KATISHA
LAKE
LAKE
K 762805
MK3
MK1
MK2
ZG8
ZG7
SK2
Line 0S
25m
ZG5
ZG4
ZG3
ZG9
ZG10
SK1
ZG1
ZG2
ZG6
K 7.62803
K 762804
FJ16
FJ15
FJ1
FJ2
FJ3
FJ5
FJ7
FJ4
FJ9
FJ11
FJ6
FJ8
FJ12
FJ10
FJ13
FJ14
FJ18
FJ17
165m
LAKE
K 762809
195m
PICKET LINE
Line 0-00W
CAMP 38 ROAD

The alteration zones are cored by a series of colliform-textured carbonate veins which range in width from 0.05 to 1.25m and are composed of grey to white carbonate with minor pyrite.

The colliform-textured carbonate veins have been extensively brecciated and stockworked by a series of quartz veinlets (5 to 80% quartz veinlets). Local zones (10cm) of quartz flooding are developed in the brecciated areas. The quartz veining is most strongly developed at the margins of the carbonate veins with subsequent zones of silicification developed in the previously carbonatized gabbro wallrock adjacent to the vein.

Pyrite found as disseminations and in thin, irregular stringers in amounts ranging from 2 to 15% is ubiquitous in the quartz-flooded and silicified zones. Less common is arsenopyrite which was found in eleven of the holes occuring in this (20cm) zones associated with extensive quartz veining and/or silicification. It is present as fine needle-like disseminations with pyrite and in thin bands of massive arsenopyrite. Minor amounts of fuchsite and tourmaline are associated with the quartz stockwork and silicified zones.

Native gold was found as two 1.00mm grains in the margin of a quartz-carbonate vein in d.d.h. FJ-12. The vein is crosscutting an arsenopyrite-pyrite bearing silicified zone.

Minor scheelite, chalcopyrite, sphalerite ad pyrrhotite were found as disseminations in thin quartz-carbonate stringers in some holes.

No zones of pervasive tectonism (foliated, schistose zones) are associated with the Fiji vein and the zone appears to have formed in a tectonically quiescent fracture system. Thin, 2.0m fine-grained, felsic dykes were found within the altered zones in four of the eastern most holes (FJ-11, 12, 13, and 18).

Thin, less pervasive and presumably parallel alteration zones were intersected 5 to 35m below the Fiji zone in seven of the holes. Two of these zones (J-9, 12) are gold-bearing. No surface expression of these zones has been found by field mapping.

ASSAY RESULTS

Overall assay results from the holes drilled on the Fiji vein indicate that to the depth drilled, the vein contains low and sporadic gold values. Assay results range from trace to a high of 0.14 oz/ton. The majority of the assay results which have values greater than trace were obtained from thin (0.5m) silicified zones which contain abundant arsenopyrite.

SOUTH KATISHA (84-SK-1.2) ZONE

Two holes were drilled thirty miles along strike on the South Katisha structure from the two holes collared (ZG-4.5) in the 1983 fall drilling program (Fig. #1). The structure is continuous for the 90m of strike length it has been tested. The intersections in d.d.h. 84-SK-1 and 2 indicate that the South Katisha structure developed along the approximately vertical contact between a fine-grained mafic rock (basalt ?) to the south and a medium to coarse-grained gabbro to the north. Along the contact a quartz-dioritic dyke/sill has been intruded.

IN SK-2 the contact zone is intruded by a thick (16m in 84-SK-2) quartz dioritic dyke/sill which is weakly altered. To the south the quartz dioritic dyke/sill progressively thins, being only 2m thick in 84-SK-1.

Alteration and Mineralization - The alteration zone is centered along the basalt/gabbro contact. It is present on a weakly to intensely silicified and/or quartz veined zone. The silicification occurs over widths of 2m in 84-SK-2 to 30m in 84-SK-1. The zones of intense silicification (70% quartz) are generally no greater than 1.5m in thickness and have from 2 to 15% disseminated pyrite. The silicification is overprinting an earlier pervasive and more widely developed carbonatization.

Foliated zones are common adjacent to the silicified zones within the carbonatized basalt and gabbro. In drill core, the foliation is consistently oriented 40-60 TO THE s.c.a which identifies a relatively steep orientation (75 W-75 W) to the zone, which is consistent with the field data.

Assay Results - show that gold mineralization is associated with intensely-silicified pyritized zones. Two zones in 84-SK-1 (0.06 oz/ton over 1.00m and 0.04 oz/ton over 1.28m) occur is silicified zones with 2-10% disseminated pyrite.

MAIN KATISHA ZONE

Three diamond drill holes were collared in order to test the immediate down-dip extension of the Main Katisha zone (Figure 1, ddh section ZG-7, MK 1-3). Two of these holes (MK-1, MK-2) were collared approximately 10m south of the zone and intersected massive gabbro with ony minor carbonatized and/or foliated zones with no associated gold mineralization. One hole (MK-3) was collared to the north of the zone in epiclastics and was drilled through the epiclastic/gabbro contact with no mineralized zones intersected.

It is clear that the Main Katisha zone which is continuous on surface for over 100 metres along strike does not have a down-dip extension of more than 10m under the most intensely mineralized/altered portion. The Main Katisha zone may therefore be a flatly plunging rod-like zone found at the intersection of two structures or alternatively a lens-like structure which extends down-dip into a weakly carbonatized and/or foliated zone with no associated gold mineralization.

The Main Katisha zone is the only structure drilled on the property which does not have a down-dip extension consistent with the surface geology.

#0003A
#0023A

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY Snake Bay ..... LOCATION Howie Lake .....

NTS CODE ..... HOLE NO. FJ-8 (47M) .....

LATITUDE 1+00W B-baseline ..... AZIMUTH 015 ..... PURPOSE Test Fiji Zone .....

DEPARTURE 60S ..... DIP - 90° ..... STARTED Feb. 9, 1984 .....

ELEVATION ..... CORE BQ ..... COMPLETED Feb. 10, 1984 .....

SECTION ..... LOGGED BY P. Moreton .....

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.

FROM	TO	LITHOLOGY
0.0m	12.5m	Casing/overburden
12.5m	14.8m	Massive unaltered, fine-grained GABBRO
14.8	15.60	Foliated leucoxene-bearing GABBRO -foliation 45 to c.a. -intensely foliated at 15.4m -tr. tourmaline, and pyrite
15.6	15.8	Carbonatized-foliated GABBRO -2 to 7% disseminated py
15.8	15.9	Silicified Carbonate Vein -20% quartz stringers -2% fuchsite in wallrock adjacent to vein -5% pyrite -foliation and quartz stringers 70 to c.a.
15.9	16.3	Carbonatized-Pyritized GABBRO -foliation 55 to c.a.
16.3	16.4	Banded Silicified GABBRO -5 to 10% pyrite -banding (qz-fu-py) 50 to c.a.
16.40	17.1	Brecciated CARBONATE VEIN -weakly silicified colliform-textured vein -2 to 25% quartz in irregular stringers -1 to 5% py, tr. tourmaline
17.1	17.7	Silicified GABBRO -abundant fuchsite, tr. py
17.7	18.2	Colliform CARBONATE VEIN -5 to 15% quartz stringers
18.2	18.35	Carbonatized GABBRO

FROM	TO	LITHOLOGY
18.35	18.45	CARBONATE VEIN -contact 70 to c.a. -10% quartz-tourmaline stringers -minor fuchsite, trace pyrite
18.45	22.0	Variably Carbonatized Leucoxene-bearing GABBRO
22.0	22.7	Carbonatized GABBRO -30% carbonate stringers
22.7	28.0	Leucoxene-bearing Medium-grained GABBRO -weakly foliated
28.0	28.1	QUARTZ-CARBONATE VEIN -pyritized haloes
28.1	37.3	Unaltered Medium-grained GABBRO
37.3	37.4	QUARTZ_CARBONATE VEIN
37.4	47.0	Unaltered medium-to-coarse - grained GABBRO
47.0		END OF HOLE ----------

SAMPLE #	FROM	TO	WIDTH	ASSAY OZ/ton
0049	15.3m	15.7m	0.4m	Trace
0050	15.7	16.0	0.3m	Trace
0051	16.0	17.2m	1.2m	Trace
0052	17.2	18.2m	1.0m	Trace
0053	18.2	19.3	0.5m	Trace
0054	21.0	22.4	0.5m	Trace
0055	27.9m	28.2m	1.3m	Trace
0056	37.1	37.35	0.25m	Trace

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY Snake Bay LOCATION Howie Lake

NTS CODE ..... HOLE NO. FJ-9 (68M)

LATITUDE 0+75W B-baseline AZIMUTH - 015° PURPOSE Test Fiji Zone

DEPARTURE 60S DIP - 45° STARTED Feb. 10th, 1984

ELEVATION ..... CORE BQ COMPLETED Feb. 11th, 1984

SECTION ..... LOGGED BY E.P.M.

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.

FROM	TO	LITHOLOGY
0	19.0	CASING
19.0	22.0	Unaltered Medium-grained GABBRO
22.0	25.0	Weakly Carbonatized Leucoxene-bearing GABBRO
25.0	25.3	Banded, pyritized, SILICIFIED GABBRO -2 to 10% pyrite -irregular pyritic stringers
25.3	25.7	CARBONATIZED GABBRO -tr pyrite
25.7	26.3	Partially silicified, CARBONATIZED GABBRO -10 to 35% quartz stringers -5% pyrite
26.3	26.35	Colliform-textured CARBONATE VEIN
26.35	26.60	SILICIFIED GABBRO -5 to 10% fine pyrite -10% carbonate vein fragments
26.60	26.90	CARBONATE VEIN -contact 80 to c.a.
26.90	27.2	Carbonatized GABBRO
27.2	27.65	Colliform-textured CARBONATE VEIN -contact 75 to c.a. -1% pyrite -weakly foliated (75 to c.a.)
27.65	30.85	Weakly altered Leucoxene-bearing GABBRO

FROM	TO	LITHOLOGY
30.85	33.7	Fine-grained Unaltered GABBRO - dk-green, mt-ilm - bearing -some weakly foliated zones
33.7	36.0	Unaltered massive Medium-grained GABBRO
36.0	39.8	Unaltered Fine-grained Dk-green GABBRO -cut by thin qz-stringers (50 to c.a.)
39.8	40.4	Leucoxene-bearing, foliated, CARBONATIZED GABBRO -bands of chloritic schist near contact at 40.4
40.4	40.8	QUARTZ-CARBONATE VEIN -contact 65 to c.a.
40.8	43.0	Foliated Leucoxene-bearing GABBRO -5% quartz-carbonate stringers, foliation 45 to c.c.
43.0	46.0	Weakly-foliated Leucoxene-bearing GABBRO
46.0	47.5	Massive CARBONATIZED GABBRO -non foliated -disseminated pyrite and tourmaline
47.5	50.1	Weakly Silicified CARBONATE BRECCIA -40 to 75% carbonate fragments in a quartz-chlorite matrix -1 to 3% disseminated pyrite -contact with wallrock 45 to c.a.
50.1	51.3	Fine-grained MAFIC DYKE -massive -contact 45 to c.a.
51.3	51.9	Leucoxene-bearing GABBRO -5% coarse pyrite disseminated near contact with above dyke
51.9	52.6	Stockwork Zone -10 to 30% quartz-carbonate veinlets

FROM	TO	LITHOLOGY
52.6	53.2	Leucoxene-bearing GABBRO -massive
53.2	54.3	Fine to medium grained Unaltered GABBRO
54.3	59.1	Massive medium-grained Coarse-grained GABBRO
59.1	65.0	Unaltered Fine-grained GABBRO -thin quartz-carb stringer at 63.5 with disseminated sphalerite
65.0	68.0	Unaltered Medium-grained GABBRO
68.0	--------	END OF HOLE ----------

SAMPLE #	FROM	TO	WIDTH	ASSAY OZ/ton
0057	24.93	25.31	0.38m	Trace
0058	25.61	26.28	0.60m	Trace
0059	26.28	26.64	0.36m	0.03
0060	26.64	26.96	0.32m	Trace
0061	26.96	27.75	0.79m	Trace
0062	49.96	51.14	0.18m	0.01
0063	51.14	52.6	0.56m	0.04
0064	63.21	63.47	0.26m	Trace

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY Snake Bay LOCATION Howie Lake

NTS CODE HOLE NO. FJ-10 (44.0M)

LATITUDE 0+75W B-baseline AZIMUTH 015 PURPOSE Test Fiji Zone

DEPARTURE 75S DIP -90° STARTED Feb. 11, 1984

ELEVATION CORE BQ COMPLETED Feb. 11, 1984

SECTION LOGGED BY E.P.M.

REF. GRID

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.

FROM	TO	LITHOLOGY
0.0	22.0	CASING
22.0	31.5	Massive unaltered Coarse-grained GABBRO
31.5	32.3	Leucoxene-bearing GABBRO
32.3	32.7	CARBONATIZED GABBRO
32.7	33.2	Stockworked Section -10 to 25% quartz-carbonate stringers, 65 to 90 to c.a. -2 to 3 % pyrite in carbonatized wallrock
33.2	33.6	CARBONATIZED GABBRO
33.6	35.2	Brecciated, silicified CARBONATE VEIN -5 to 35% quartz stringers and matrix infillings -1% pyrite
35.2	38.0	Leucoxene-bearing, weakly Carbonatized GABBRO -minor quartz-carbonate veining
38.0	40.5	Unaltered, massive medium-grained GABBRO
40.5	43.0	Weakly altered Leucoxene-bearing GABBRO -weakly pyritized
43.0	44.0	Unaltered Medium-grained GABBRO

SAMPLE #	FROM	TO	WIDTH	ASSAY Oz/ton
0065	32.65	33.45	0.80m	Tr.
0066	33.62	35.59	1.97m	Tr.
0067	36.46	36.97	0.51m	Tr.

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY Snake Bay ..... LOCATION Howie Lake .....

NTS CODE ..... HOLE NO. FJ-11 (53M) .....

LATITUDE 0+50W B-baseline ... AZIMUTH 015° ..... PURPOSE Test Fiji Zone

DEPARTURE 60S ..... DIP -45° ..... STARTED Feb. 11th, 1984

ELEVATION ..... CORE BQ ..... COMPLETED Feb. 12th, 1984

SECTION ..... LOGGED BY E.P.M. ....

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.

FROM	TO	LITHOLOGY
0.0	13.5	CASING
13.5	15.0	Massive Leucoxene-bearing GABBRO -weakly foliated (75 to c.a.) -1% pyrite
15.0	16.0	Massive unaltered GABBRO -medium-grained, magnetite
16.0	17.70	Massive weakly carbonatized GABBRO -non veined, sharb contact with vein at 17.70m (75 to c.a.)
17.70	19.1	Variably silicified CARBONATE VEIN -from 17.7 to 18.4 brecciated-silicified section with 5 to 40% quartz stringers -well banded 60 to c.a. -1 to 3 % pyrite in quartz veins and infillings -minor fuchsite -from 18.4 to 19.1 less intensely brecciated
19.1	19.6	CARBONATIZED GABBRO -weakly carbonatized
19.6	20.4	Pervasively CARBONATIZED GABBRO
20.4	21.5	Massive variably carbonatized GABBRO -abundant (5%) leucoxene
21.5	22.1	Carbonatized-Pyritized Fine-grained Dyke -dk. brown in colour, contact 75 to c.a.
22.1	23.5	Fine-grained Leucoxene-bearing GABBRO
23.5	24.4	Coarse-grained, weakly-altered GABBRO
24.4	25.0	Unaltered Medium-grained GABBRO
25.0	26.0	Weakly altered GABBRO -weak leucoxene alteration of mt/ilm.

FROM	TO	LITHOLOGY
26.0	28.2	Unaltered medium-grained, dark-green GABBRO
28.2	29.2	Carbonatized, leucoxene-bearing GABBRO -massive, contact with dyke 55 to c.a.
29.2	29.35	MAFIC DYKE, dark brown
29.35	29.60	Pyritized GABBRO -2 to 5% pyrite
29.6	31.30	MAFIC DYKE
31.30	31.70	Foliated carbonatized GABBRO
31.70	32.00	CHLORITE-CARBONATE VEIN -banded, foliation 45 to c.a. -minor pyrite
32.00	33.40	Fine-grained carbonatized GABBRO
33.40	37.40	Foliated dark green GABBRO -chloritic zones foliation 30 to c.a.
37.40	37.70	Quartz-Carbonate Stockwork Zone -30% quartz-carbonate veins
37.70	38.10	Foliated Zone -chloritic, foliation 35 to 45 to c.a.
38.10	40.5	Carbonatized GABBRO -minor pyrite
40.5	41.0	Quartz Stringer Zone - 30% Quartz Veins
41.0	42.0	Foliated Carbonatized GABBRO -foliation 55 to c.a.

FROM	TO	LITHOLOGY
42.0	42.3	Intensely Foliated - Veined GABBRO -foliation 45 to c.a.
42.3	43.2	Massive weakly foliated Carbonatized GABBRO
43.2	44.0	Foliated Carbonatized GABBRO -foliation 45 to c.a. -5% quartz veins parallel to foliation
44.0	49.5	Massive weakly altered, medium-grained GABBRO -partial leucoxene development
49.5	50.3	Unaltered Magnetite-bearing GABBRO
50.3	58.0	Medium to coarse-grained GABBRO
58.0	----------	END OF HOLE ----------

SAMPLE #	FROM	TO	WIDTH	ASSAY Oz/ton
0068	14.27	14.67	0.40m	Tr.
0069	17.66	18.50	0.84m	Tr.
0070	18.50	19.13	0.63	Tr.
0071	19.13	20.09	0.96	Tr.
0072	20.09	20.66	0.57m	Tr.
0073	21.44	22.20	0.76m	Tr.
0074	29.13	29.64	0.51m	Tr.
0075	31.53	31.97	0.44m	Tr.
0076	32.30	32.77	0.47m	Tr.

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY Snake Bay ..... LOCATION Howie Lake .....

NTS CODE ..... HOLE NO. FJ-12 (44M) .....

LATITUDE 0+25W B-baseline ... AZIMUTH 030 ..... PURPOSE Test Fiji Zone.

DEPARTURE 75S ..... DIP -45° ..... STARTED Feb. 12, 1984.

ELEVATION ..... CORE BQ ..... COMPLETED Feb. 13, 1984

SECTION ..... LOGGED BY E.P.M. ....

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.

FROM	TO	LITHOLOGY
0	9.8	CASING
9.8	10.0	SILICIFIED CARBONATE VEIN
10.0	10.9	Carbonatized Fine-grained GABBRO -minor disseminated pyrite
10.9	11.1	Carbonatized GABBRO -weak foliation 35 to c.a.
11.1	13.8	Weakly Carbonatized, leucoxene-bearing GABBRO -weakly pyritized
13.8	14.0	SILICIFIED GABBRO -wallrock adjacent to vein contains up to 10% pyrite -contact 85 to c.a. -Visible gold found in late-carbonate stringers crosscutting silicified zone
14.0	14.6	Leucoxene-bearing fine-grained GABBRO -dark green, cut by 3% carbonate veins
14.6	14.7	Pyritized GABBRO -5 to 10% pyrite
14.7	15.30	Carbonatized Mafic Dyke -5% disseminated pyrite
15.30	17.00	Pyritized GABBRO -chloritic
17.00	18.60	Weakly Carbonatized leucoxene-bearing GABBRO
18.60	23.00	Massive Unaltered GABBRO
23.0	24.3	Weakly Foliated and altered GABBRO
24.3	25.15	Well-foliated leucoxene-bearing GABBRO -medium grained, foliation 45 to c.a.
25.15	28.00	Massive Unaltered medium-grained GABBRO

FROM	TO	LITHOLOGY
28.00	28.60	Brecciated Silicified CARBONATE VEIN -20 to 25% quartz stringers and silicified zones -2% arsenopyrite -banding 75 to c.a.
28.60	29.40	Leucoxene-bearing weakly altered GABBRO
29.4	35.30	Unaltered medium grained GABBRO
35.30	36.10	Weakly altered leucoxene-bearing GABBRO
36.10	36.25	Foliated pyritized chloritic GABBRO -foliation 45 to c.a. -2 to 5% disseminated pyrite
36.25	37.60	Brecciated Silicified GABBRO -10% pyrite -banded 50 to c.a.
37.6	38.90	Carbonatized GABBRO cut by Carbonate stockwork -20% veins -foliation 50 to 55 to c.a.
38.90	44.0	Unaltered medium to coarse grained GABBRO
44.0	--------	END OF HOLE

SAMPLE #	FROM	TO	WIDTH	ASSAY Oz./ton
0077	9.81	10.20	0.39m	Tr.
0078	10.20	10.88	0.68m	Tr.
0079	10.88	11.23	0.35m	Tr.
0080	13.4	13.7	0.30m	Tr.
0081	13.7	14.12	0.42m	0.06
0082	14.12	14.59	0.47m	0.01
0083	14.59	15.32	0.73m	Tr.
0084	27.98	28.70	0.72m	Tr.
0085	28.70	28.99	0.29m	Tr.
0086	36.20	36.91	0.72m	Tr.
0087	36.91	37.84	0.93m	0.01

IMPERIAL OIL LIMITED — DIAMOND DRILL HOLE LOG

PROPERTY Snake Bay ..... LOCATION Howie Lake .....

NTS CODE ..... HOLE NO. FJ-13 (71M) .....

LATITUDE 0+25W B-baseline ..... AZIMUTH 030 ..... PURPOSE Test Fiji Zone .....

DEPARTURE 75S + (15S on 030°) ..... DIP - 90° ..... STARTED Feb. 13, 1984 .....

ELEVATION ..... CORE BQ ..... COMPLETED Feb. 14, 1984

SECTION ..... LOGGED BY E.P.M. .....

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.

FROM	TO	LITHOLOGY
0.0	14.25	CASING
14.25	17.30	Leucoxene-bearing GABBRO, medium-grained -weakly brecciated at 16.1m
17.30	17.70	Weakly Silicified GABBRO
17.70	19.0	Massive Leucoxene-bearing GABBRO
19.0	20.4	Brecciated - pyritized GABBRO -3% pyrite -stockworked zone at 19.4m
20.4	21.5	Foliated Stockworked GABBRO -5 to 10% quartz veins -tr py, tourmaline and chalcopyrite -foliation 30 to 60 to c.a.
21.5	22.2	Leucoxene-bearing Coarse-grained GABBRO
22.2	23.2	Weakly pyritized leucoxene-bearing GABBRO
23.2	23.5	Silicified Brecciated CARBONATE VEIN -banded - 90 to c.a. -2 to 5% pyrite
23.5	24.1	Pyritized Foliated GABBRO -5 to 10% pyrite -foliation 70 to c.a.
24.1	29.6	Leucoxene-bearing GABBRO -medium-grained, nonfoliated
29.6	30.0	Foliated GABBRO -foliation 30 to 45 to c.a.
30.0	30.7	Weakly altered GABBRO
30.7	34.6	Unaltered medium-grained GABBRO -magnetite-ilmenite bearing

FROM	TO	LITHOLOGY
34.6	35.0	Leucoxene-bearing GABBRO
35.0	35.1	Chloritic Schist Zone -foliation 45 to c.a.
35.1	39.8	Weakly foliated Leucoxene-bearing GABBRO -foliation 45 to 60 to c.a. -2% quartz-tourmaline stringers
39.8	40.1	Leucoxene-bearing GABBRO
40.1	40.2	Carbonatized GABBRO -weakly brecciated
40.2	40.7	Brecciated GABBRO -composed of 70% carbonatized gabbro fragments in a quartz chlorite matrix.
40.7	42.0	Massive fine-grained FELSIC DYKE -both contacts cut by quartz-chlorite stringers
42.0	42.1	Pyritized GABBRO -10% pyrite
42.1	45.2	Massive Leucoxene-bearing GABBRO
45.2	46.6	Carbonatized GABBRO
46.6	46.8	Pyritized GABBRO -5 to 10% pyrite, trace arsenopyrite
46.8	47.44	Leucoxene bearing GABBRO
47.44	47.70	Pyritized - carbonatized GABBRO -2 to 5% arsenopyrite,2 to 3% pyrite -
47.70	55.70	Carbonatized Brecciated GABBRO -50 to 60% carbonate stringers -2 to 5% pyrite
55.70	56.20	Arsenopyrite-bearing Brecciated GABBRO

		-20 to 35% arsenopyrite, 15 to 20% pyrite -contacts 50 to c.a. -matrix of quartz and calcite
56.20	60.00	Carbonatized GABBRO Breccia -35% carbonate stringers
60.0	63.7	Weakly veined GABBRO -weakly carbonatized, 2 to 15% carbonate stringers
63.7	65.4	Leucoxene-bearing GABBRO -minor quartz-carb veins
65.4	65.5	Medium-grained GABBRO
65.50	70.00	Weakly altered Leucoxene-bearing GABBRO -magnetite-ilmenite bearing -non foliated
70.00	71.0	Unaltered Medium-grained GABBRO
71.00	----------	END OF HOLE ----------

SAMPLE #	FROM	TO	WIDTH	ASSAY Oz/ton
0088	14.30	14.77	0.47	Tr.
0089	16.10	16.83	0.73	Tr.
0090	19.00	20.20	1.20	Tr.
0091	20.20	21.60	1.40m	Tr.
0092	22.90	23.11	0.21m	Tr.
0093	23.11	24.14	1.03	0.05
0094	24.14	24.34	0.20m	Tr.
0095	30.69	30.94	0.25	Tr.
0096	39.53	39.86	0.33m	Tr.
0097	39.86	40.32	0.46m	Tr.
0098	40.62	41.98	1.36m	Tr.
0099	46.62	47.10	0.48m	0.01
0100	47.10	47.34	0.24m	Tr.
0101	47.34	47.70	0.36m	0.02
0102	47.70	47.92	0.22m	Tr.
0103	48.34	48.89	0.55	Tr.
0104	51.06	52.15	1.09m	Tr.
0105	54.46	55.70	1.24m	Tr.
0106	55.70	56.18	0.48m	0.04
0107	56.18	57.11	0.93m	Tr.
0108	63.24	63.70	0.46m	Tr.
0109	65.26	65.63	0.37m	Tr.

IMPERIAL OIL LIMITED — DIAMOND DRILL HOLE LOG

PROPERTY Snake Bay ..... LOCATION Howie Lake .....

NTS CODE ..... HOLE NO. FJ-14 (74M) .....

LATITUDE 0+10E B-baseline ..... AZIMUTH 015° ..... PURPOSE Test Fiji (arsenopyrite) view

DEPARTURE 100S ..... DIP - 45° ..... STARTED Feb. 15, 1984

ELEVATION ..... CORE BQ ..... COMPLETED Feb. 15, 1984

SECTION ..... LOGGED BY E.P.M. .....

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.

FROM	TO	LITHOLOGY
0.0	11.23	CASING
11.23	13.60	Brecciated Carbonatized GABBRO - composed of 50% carbonatized gabbro fragments, 50% carbonate veins - 2 to 10% pyrite
13.60	14.00	Carbonatized GABBRO -trace pyrite
14.00	14.10	Silicified GABBRO
14.10	14.60	Carbonatized GABBRO -10% carbonate veins -trace pyrite
14.60	14.70	Leucoxene-bearing GABBRO -trace pyrite, weakly foliated
14.70	15.00	Massive Leucoxene-bearing GABBRO -medium-grained
15.00	15.10	CARBONATE PYRITE VEIN -contact with gabbro 75 to c.a. -10% pyrite
15.10	16.90	Massive Foliated Leucoxene-bearing GABBRO -foliation 55 to c.a. -chloritic slip zones parallel to foliation
16.90	17.00	CARBONATE VEIN -parallel to foliation (75 to c.a.)
17.00	19.40	Massive Weakly Foliated GABBRO -5% leucoxene
19.4	20.00	Carbonatized Pyritized GABBRO -2 to 5% pyrite -foliation sporatically developed 45 to 60 to c.a. -5% quartz-carbonate stringers

FROM	TO	LITHOLOGY
20.00	20.35	Stockworked GABBRO -20% quartz carbonate veins
20.35	20.50	Banded Carbonatized GABBRO -banding 45 to c.a. -trace pyrite
20.50	20.80	QUARTZ TOURMALINE VEIN -2% pyrite
20.80	22.00	Intensely Carbonatized Banded GABBRO -1 to 3% disseminated pyrite -weak anastomosing silicified zones -disseminated fuchsite -banding 20 to c.a.
22.0	23.8	Weakly altered GABBRO -partial alteration of magnetite-ilmentite to leucoxene
23.8	23.95	Carbonatized GABBRO -5% quartz-carbonate veining, minor pyrite
23.95	24.40	Carbonatized Pyritized GABBRO - 5% pyrite
24.40	27.40	Unaltered Medium grained GABBRO -10% magnetite ilmenite
27.40	33.40	Weakly foliated Leucoxene-bearing GABBRO -numerous irregular foliated zones 65 to 75 to c.a. -5% quartz carbonate stringers
33.40	33.60	Silicified Pyritized GABBRO -well developed breccia texture -extensively silicified, 10% pyrite
33.60	35.80	Weakly altered Leucoxene-bearing GABBRO
35.80	36.3	Unaltered medium grained GABBRO
36.3	40.8	Massive Leucoxene-bearing GABBRO

FROM	TO	LITHOLOGY
40.8	41.3	Stockworked GABBRO -20% quartz-carbonate stringers
41.3	42.8	Foliated GABBRO - foliation 45 to c.a.
42.8	45.5	Weakly altered GABBRO
45.5	45.8	QUARTZ CARBONATE VEIN -contact 45 to c.a.
45.8	47.8	Weakly altered Leucoxene-bearing GABBRO
47.8	56.4	Coarse to medium-grained Unaltered GABBRO -minor foliated zones cutting at 45 to c.a.
56.4	57.1	Weakly Carbonatized/Silicified GABBRO -disseminated pyrite (3%) -weak foliation 65 to 75 to c.a.
57.1	60.0	Unaltered Medium grained GABBRO
60.0	60.5	Foliated GABBRO -foliation 75 to c.a.
60.5	70.7	Massive unaltered fine-grained GABBRO
70.7	71.0	QUARTZ CARBONATE VEIN
71.0	74.0	Unaltered GABBRO
74.0	----------	END OF HOLE ----------

SAMPLE #	FROM	TO	WIDTH	ASSAY OZ/ton
0110	11.23	13.03	1.80	Tr.
0111	13.03	14.58	1.55	Tr.
0112	20.18	21.14	0.96	Tr.
0113	21.14	22.17	1.03	Tr.
0114	23.90	24.55	0.65	Tr.
0115	33.25	34.23	0.88	Tr.
0116	56.36	57.16	0.80	Tr.
0117	60.01	60.60	0.59	Tr.

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY Snake Bay ..... LOCATION South Katisha .....

NTS CODE ..... HOLE NO. SK-1 (68M) .....

LATITUDE 1+05W ..... AZIMUTH 065° ..... PURPOSE Test South Katisha Zone

DEPARTURE 8+10S ..... DIP - 45° ..... STARTED Feb. 17, 1984

ELEVATION ..... CORE BQ ..... COMPLETED Feb. 18, 1984

SECTION ..... LOGGED BY P. Moreton

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.

FROM	TO	LITHOLOGY
0.0	6.1	CASING
6.1	8.7	Massive BASALT (Fine-grained GABBRO ?) -aphanitic weakly pyritized
8.7	8.9	Brecciated, weakly carbonatized BASALT -basalt fragments in quartz-carbonate matrix -up to 3% pyrite
8.9	9.8	Silicified BASALT -Intensely brecciated and silicified -2 to 7% pyrite -silicified fragments in a quartz-carbonate-chlorite matrix
9.8	11.2	Massive weakly-carbonatized BASALT -5% carbonate stringers
11.2	12.0	Weakly brecciated, Carbonatized, Pyritized BASALT -2% pyrite
12.0	12.4	Weakly-Carbonatized BASALT
12.4	13.4	Silicified Brecciated BASALT -well banded 45 to c.a. -banding defined by elongated silicified basalt fragments -2 to 10% pyrite
13.4	14.00	Foliated Carbonatized GABBRO - moderately to intensely foliated 45 to 60 to c.a. - 1% pyrite
14.00	18.40	Weakly Carbonatized BASALT
18.40	18.70	Pyritized BASALT - 5 to 10% pyrite - banding 45 to c.a.
18.70	20.00	Carbonatized BASALT -pervasively carbonatized, light grey in colour

FROM	TO	LITHOLOGY
20.0	20.5	Weakly Carbonatized and Foliated GABBRO -foliation 45 to c.a.
20.5	20.8	Well banded Silicified BASALT - banding 45 to c.a. - 3 to 5% disseminated pyrite - in sharp contact with weakly altered basalt
20.8	23.1	Massive weakly foliated , Carbonatized BASALT - in sharp contact with silicified basalt in hanging-wall and footwall
23.1	24.0	Silicified BASALT -locally well brecciated - in gradational contact with foliated zone
24.0	27.5	Well foliated Carbonatized BASALT -locally brecciated, foliation 45 to c.a.
27.5	28.5	Schistose - Chloritic Gouge Zone -steep foliation 20 to 30 to c.a. -50 to 60% chlorite, 25% carbonate -sphalerite-chalcopyrite bearing quartz-carbonate stringers -0.5 to 5% chalcopyrite, 3% pyrite, sphalerite
28.5	29.1	Brecciated BASALT -weakly carbonatized, minor pyrite
29.1	29.4	Broken Rusty Ground, BASALT Fragments
29.4	29.7	Chlorite-carbonate Schist -schistosity 40 to 70 to c.a. -composed of 50% carbonate, 30% chlorite, 10% pyrite -marks contact between basalt and intermediate dyke
29.7	33.4	QUARTZ DIORITE DYKE -composed of feldspar-chlorite and minor quartz -crosscut by numerous pyritic stringers -becomes foliated at contact with silicified zone, foliation 70 to c.a.

FROM	TO	LITHOLOGY
33.4	37.9	Silicified Pyritized BASALT -weak to extensive breccia development -0.5 to 10% pyrite -foliation 45 to 80 to c.a.
37.9	40.5	Weakly altered Leucoxene-bearing DYKE -20% irregular quartz-carbonate stringers
40.5	40.8	Moderately Carbonatized-Foliated BASALT -foliation 50 to 55 to c.a. -foliation paralle quartz-carbonate stringers -3% pyrite
40.8	41.5	Pyritized Silicified BASALT -irregularily banded (30 to 90 to c.a) - 2 to 10% pyrite -quartz-fuchsite stringers
41.5	43.8	Massive weakly foliated, Leucoxene-bearing GABBRO -weakly carbonatized -foliation running 40 to 50 to c.a. -5% quartz-carbonate veins
43.8	44.8	Foliated Zone -strong foliation 45 to c.a. -3% pyrite in fine-stringers
44.8	47.1	Variably Carbonatized Fine-grained BASALT -well foliated 80 to c.a. -fine disseminated leucoxene
47.1	49.0	Foliated Leucoxene-bearing GABBRO -foliation 45 to c.a.
49.0	52.0	Non-foliated Leucoxene-bearing GABBRO
52.0	54.5	Unaltered medium-grained GABBRO
54.5	68.0	Unaltered Coarse to medium grained GABBRO
68.0	----------	END OF HOLE ----------

SAMPLE #	FROM	TO	WIDTH	ASSAY Oz/ton
0118	8.52	8.85	0.33m	Tr.
0119	8.85	9.85	1.00m	0.06
0120	9.85	10.11	0.26m	Tr.
0121	11.82	12.16	0.34m	Tr.
0122	12.16	13.44	1.28m	Tr.
0123	13.44	14.17	0.73m	0.04
0124	18.86	19.63	0.77m	Tr.
0125	19.63	20.18	0.55m	Tr.
0126	20.30	21.21	0.91m	Tr.
0127	22.88	24.21	1.33m	Tr.
0128	27.32	27.58	0.26m	Tr.
0129	27.58	28.75	1.17m	Tr.
0130	28.75	30.10	1.35m	0.01
0131	33.62	35.11	1.49m	Tr.
0132	35.11	35.63	0.52m	Tr.
0133	35.63	36.26	0.63m	0.02
0134	36.26	37.10	0.84m	Tr.
0135	37.10	37.84	0.74m	Tr.
0136	37.84	38.14	0.30m	Tr.
0137	40.20	41.51	1.31m	Tr.
0138	43.52	44.66	1.14m	Tr.
0139	44.66	45.07	0.41m	Tr.

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY Snake Bay ..... LOCATION South Katisha .....

NTS CODE ..... HOLE NO. .....

LATITUDE 1+55W ..... AZIMUTH 065° ..... PURPOSE Test South Katisha .....

DEPARTURE 7+10S ..... DIP -45° ..... STARTED Feb. 19, 1984 .....

ELEVATION ..... CORE BQ ..... COMPLETED Feb. 20, 1984

SECTION ..... LOGGED BY E.P.M. .....

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.

FROM	TO	LITHOLOGY
0.0	1.9	CASING
1.9	8.6	Massive Carbonatized Basalt -minor foliated zones -5% carbonate stringers
8.6	9.0	Extensively Carbonatized BASALT - primary textures destroyed
9.0	23.8	Massive Carbonatized BASALT -minor disseminated pyrite -thin foliated zones
23.8	24.9	Pyritized Foliated BASALT -weakly foliated, partially silicified -cut by thin irregular pyritic stringers (up to 5% pyrite) -
24.9	25.4	Carbonatized BASALT -foliation 65 to 60 to c.a.
25.4	29.5	Massive Carbonatized QUARTZ DIORITE -weakly to moderately foliated -minor disseminated pyrite -foliation 25 to 40 to c.a.
29.5	30.7	Unaltered QUARTZ DIORITE
30.7	33.0	Massive Carbonatized QUARTZ DIORITE -composed of 20 to 35% chlorite phenocrysts (pseudomorphs) in a carbonate rich matrix, minor free quartz
33.0	34.1	Carbonatized - Sericitized QUARTZ DIORITE -chlorite pseudomorphs replaced by fuchsite - cur by milky quartz stringers cutting 90 to c.a.
34.1	35.6	Carbonatized QUARTZ DIORITE
35.6	39.7	Unaltered QUARTZ DIORITE
39.7	43.5	Carbonatized QUARTZ DIORITE

FROM	TO	LITHOLOGY
43.5	45.3	Unaltered Plagioclase porphyritic QUARTZ DIORITE
45.3	45.9	Foliated Carbonatized QUARTSZ DIORITE -foliation 45 to c.a. -strongly carbonatized
45.9	48.8	Fine-grained Massive QUARTZ DIORITE
48.8	49.2	Silicified GABBRO -contact with Quartz Diorite dyke 80 to c.a. -50 to 80% quartz stringers -5% pyrite -disseminated leucoxene
49.2	55.4	Foliated Leucoxene-bearing GABBRO -crosscut by 30 to 50% carbonate stringers -1 to 5% fine-disseminated pyrite
55.4	60.0	Foliated weakly silicified GABBRO -intensely foliated foliation 45 to 60 to c.a. -lamination defined by alternating quartz -chlorite-carbonate and leucoxene
60.0	60.7	Strongly foliated Carbonatized GABBRO -foliation running 30 to 50 to c.a.
60.7	64.0	Moderately-foliated,weakly altered GABBRO
64.0	68.0	Unaltered Medium grained GABBRO
68.0	----------	END OF HOLE ----------

SAMPLE #	FROM	TO	WIDTH	ASSAY Oz/ton
0140	23.70	24.99	1.29m	Tr.
0141	24.99	25.50	0.51m	Tr.
0142	33.20	34.23	1.03m	Tr.
0143	48.43	49.40	0.97m	Tr.
0144				
0145				
0146				
0147				
0148				
0149	53.90	55.00	1.10	Tr.
0150	55.00	56.43	1.43	Tr.

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY Snake Bay ..... LOCATION Main Katisha .....

NTS CODE ..... HOLE NO. MK-1 (29M) .....

LATITUDE 0+75W ..... AZIMUTH 003° ..... PURPOSE Test Main Katisha .....

DEPARTURE 5+05S ..... DIP - 45° ..... STARTED Feb. 20, 1984 .....

ELEVATION ..... CORE BQ ..... COMPLETED Feb. 20, 1984 .....

SECTION ..... LOGGED BY E.P.M. .....

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.

FROM	TO	LITHOLOGY
0.0	4.2	CASING
4.2	6.3	Foliated weakly-altered GABBRO -foliation running 55 to 65 to c.a. -1% pyrite
6.3	14.0	Massive medium-grained GABBRO -strongly magnetic, 10% pyrite -minor carbonate stringers
14.0	16.7	Massive BASALT
16.7	25.0	Massive medium-grained GABBRO
25.0	25.5	Foliated GABBRO -cut by 25% carbonate stringers -minor disseminated pyrite
25.5	28.0	Massive medium-grained GABBRO
28.0	----------	END OF HOLE ----------

SAMPLE #	FROM	TO	WIDTH	ASSAY Oz/ton
0144	24.68	25.30	0.62m	Tr.

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY Snake Bay ..... LOCATION Main Katisha .....

NTS CODE ..... HOLE NO. MK-2 (20M) .....

LATITUDE 0+63W ..... AZIMUTH 003° ..... PURPOSE Test Main Katisha .....

DEPARTURE 5+10S ..... DIP -45° ..... STARTED Feb. 20, 1984 .....

ELEVATION ..... CORE BQ ..... COMPLETED Feb. 20, 1984 .....

SECTION ..... LOGGED BY E.P.M. .....

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.

FROM	TO	LITHOLOGY
0.0	6.9	Massive Fine-grained GABBRO -magnetite-ilmenite bearing -minor carbonate veinlets
6.9	8.8	Weakly pyritized medium-grained GABBRO -1% pyrite disseminated
8.8	9.0	Quartz Stockwork Zone -irregular quartz-carbonate veins cutting gabbro -up to 5% pyrite in wallrock adjacent to veins
9.1	14.0	Massive unaltered Fine-grained GABBRO -abundant magnetite
14.0	20.0	Massive medium-grained GABBRO
20.0	----------	END OF HOLE ----------

SAMPLE #	FROM	TO	WIDTH	ASSAY	Oz/ton
0145	8.19	9.36	1.17m	Tr.	

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY Snake Bay ..... LOCATION Main Katisha .....

NTS CODE ..... HOLE NO. MK-3 (20M) .....

LATITUDE 0+75W ..... AZIMUTH 183° ..... PURPOSE Test Main Katisha

DEPARTURE 4+80S ..... DIP - 45° ..... STARTED Feb. 20, 1984

ELEVATION ..... CORE BQ ..... COMPLETED Feb. 21, 1984

SECTION ..... LOGGED BY E.P.M. .....

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.

FROM	TO	LITHOLOGY
0.0	2.2	CASING
2.2	7.2	Fine to coarse-grained EPICLASTICS -10 to 60% feldspathic and quartz-rich clasts
7.2	8.2	Dark-Grey Banded SILTSTONE -banding (bedding) 85 to c.a. -minor carbonitized sections -minor disseminated pyrite
8.2	9.2	Dark-green, massive MAFIC VOLCANIC -minor disseminated pyrite -20% quartz-carbonate stringers
9.2	12.5	Bleached and Brecciated MAFIC VOLCANICS -variably brecciated -weak silicification at 11.4 and 12.0m -minor disseminated pyrite
12.5	13.4	Extensively Silicified Zone -minor quartz-carbonate veining
13.4	15.5	Massive unaltered MAFIC VOLCANICS
15.5	20.0	Massive unaltered GABBRO
20.0	----------	END OF HOLE ----------

SAMPLE #	FROM	TO	WIDTH	ASSAY Oz/ton
0146	7.54	8.42	0.88m	Tr.
0147	8.42	11.57	3.15m	Tr.
0148	12.50	13.03	0.53m	Tr.

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY Snake Bay ..... LOCATION Howie Lake .....

NTS CODE ..... HOLE NO. FJ-15 (17M) .....

LATITUDE 24+25W B-baseline ..... AZIMUTH 015 ..... PURPOSE Test Fiji Zone .....

DEPARTURE 16S ..... DIP - 45° ..... STARTED March 8, 1984 .....

ELEVATION ..... CORE BQ ..... COMPLETED March 9, 1984 .....

SECTION ..... LOGGED BY E.P.M. .....

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.

FROM	TO	LITHOLOGY
0.0	4.2	CASING
4.2	7.1	Leucoxene bearing medium-grained GABBRO
7.1	10.1	Massive Carbonitized GABBRO -quartz tourmaline vein at 8.6m
10.1	10.2	Pyritized - Silicified GABBRO -3 to 5% pyrite
10.2	10.25	Arsenopyrite - bearing Zone -1 to 3% arsenopyrite in silicified gabbro -5% pyrite -irregularily banded
10.25	10.70	Extensively Brecciated CARBONATE VEIN contact with wallrock 45 to c.a. -50% carbonate fragments in a fine quartz matrix -10% arsenopyrite disseminated in quartz matrix -5% pyrite
10.70	11.6	Weakly Pyritized Leucoxene-bearing GABBRO
11.6	12.3	Leucoxene-bearing GABBRO
12.3	17.0	Massive unaltered, medium-grained GABBRO
17.0	----------	END OF HOLE ----------

SAMPLE #	FROM	TO	WIDTH	ASSAY Oz/ton
0151	8.5	9.6	1.1m	Tr.
0152	10.1	10.25	0.15m	0.01
0153	10.25	10.40	0.15m	0.14
0154	10.40	11.0	0.60m	0.03

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY Snake Bay ..... LOCATION Howie Lake .....

NTS CODE ..... HOLE NO. FJ-16 (29M) .....

LATITUDE 2+50W B-baseline ..... AZIMUTH 015° ..... PURPOSE Test Fiji Vein .....

DEPARTURE 14S ..... DIP - 45° ..... STARTED March 10, 1984 .....

ELEVATION ..... CORE BQ ..... COMPLETED March 10, 1984 .....

SECTION ..... LOGGED BY E.P.M. .....

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.

FROM	TO	LITHOLOGY
0.0	11.0	CASING
11.0	14.2	Weakly altered, leucoxene bearing GABBRO
14.2	15.5	Unaltered medium-grained GABBRO
15.5	17.0	Leucoxene-bearing GABBRO
17.0	17.5	Extensively Carbonatized GABBRO -10% quartz-tourmaline stringers 90 to c.a. - 2 to 3% pyrite
17.5	18.4	Massive Leucoxene-bearing GABBRO
18.4	21.0	Chloritized GABBRO -abundant leucoxene
21.0	21.3	Weakly Carbonatized GABBRO -minor disseminated pyrite
21.3	22.0	Foliated, Carbonatized, Pyritized GABBRO -foliation 80 to c.a. -2 to7% pyrite
22.0	23.65	Colliform-textured CARBONATE VEIN -5 to 15% gabbro fragments -contact with wallrock 80 to c.a. -less than 2% pyrite
23.65	24.00	Massive, leucoxene-bearing GABBRO -5 to 10% pyrite
24.00	24.80	Massive fine-grained GABBRO -5% carbonate stringers 80 to c.a.
24.80	25.10	Colliform-textured CARBONATE VEIN -10% irregular quartz stringers -trace pyrite
25.10	25.80	Weakly Carbonatized GABBRO -5% carbonate stringers

FROM	TO	LITHOLOGY
25.80	26.50	Extensively Carbonatized GABBRO -20% quartz-carbonate stringers (45 to c.a.)
26.5	26.70	Foliated GABBRO -foliation 85 to c.a. -3 to 5% pyrite
26.70	27.70	Carbonatized-Stockworked GABBRO -20% carbonate stringers -10% pyrite in stringers
27.70	28.10	CARBONATE VEIN / REPLACEMENT ZONE -20% gabbro fragments -contact with wallrock 80 to c.a.
28.10	28.20	Foliated - Pyritized GABBRO foliation 80 to c.a. minor pyrite
28.20	29.15	CARBONATE VEIN -colliform-texture -up to 50% replacement by quartz -1 to 15% pyrite -well-developed colliform texture
29.15	29.50	Massive Leucoxene-bearing GABBRO -chloritized
29.5	30.3	Carbonate-Stockwork Zone -50% irregular carbonate veinlets -minor silicified zones -up to 10% pyrite in silicified zones
30.0	34.70	Massive weakly altered, leucoxene-bearing GABBRO
34.70	35.10	Carbonate Stockwork Zone -60 to 70 % carbonate veins -20% overprinting quartz stringers -3% pyrite in stringers

SAMPLE #	FROM	TO	WIDTH	ASSAY	Oz/ton
0160	16.9	17.4	0.50m	Tr.	
0161	21.05	21.45	0.40m	Tr.	
0162	21.45	21.75	0.30m	Tr.	
0163	21.90	22.40	0.50m	0.01	
0164	22.40	23.00	0.60m	0.02	
0165	23.00	23.75	0.75m	Tr.	
0166	24.45	24.80	0.35m	Tr.	
0167	25.10	25.60	0.50m	Tr.	
0168	25.80	26.80	1.00m	Tr.	
0169	26.80	27.35	0.55m	Tr.	
0170	27.35	28.05	0.70m	Tr.	
0171	28.10	29.20	1.10m	0.01	
0172	29.45	30.0	0.55m	0.01	
0173	34.70	35.10	0.40m	Tr.	
0174	35.60	35.80	0.20m	Tr.	
0175	39.40	39.80	0.40m	Tr.	
0176	43.20	43.80	0.60m	Tr.	

FROM	TO	LITHOLOGY
35.10	39.10	Massive leucoxene-bearing GABBRO -fine to medium grained -weakly foliated (90 to c.a.)
39.10	39.50	Weakly carbonatized, fine-grained GABBRO
39.50	39.90	Extensively Carbonatized GABBRO -20% carbonate stringers -10% overprinting quartz stringers
39.90	40.3	Leucoxene-bearing medium-grained GABBRO
40.3	41.1	Unaltered medium-grained GABBRO
41.1	42.2	Massive leucoxene-bearing GABBRO
42.2	43.0	Weakly foliated, Leucoxene-bearing GABBRO
43.0	----------	HOLE ABANDONED ----------

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY Snake Bay ..... LOCATION Howie Lake .....

NTS CODE ..... HOLE NO. FJ-18 (44M) .....

LATITUDE 0+75E B-baseline ..... AZIMUTH -- ..... PURPOSE Test Aspy Vein .....

DEPARTURE 63S ..... DIP - 90° ..... STARTED March 12, 1984 .....

ELEVATION ..... CORE BQ ..... COMPLETED March 12, 1984

SECTION ..... LOGGED BY E.P.M. .....

REF. GRID .....

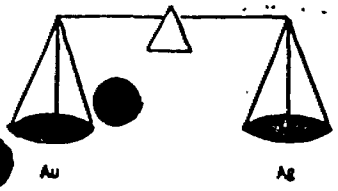
DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.

FROM	TO	LITHOLOGY
0.0	3.8	CASING
3.8	5.6	Massive medium-grained, leucoxene-bearing GABBRO -cut by 10% carbonate stringers
5.6	6.0	Foliated Zone -foliation 45 to c.a.
6.0	7.0	Massive Leucoxene-bearing GABBRO
7.0	7.1	QUARTZ-CARBONATE VEIN -45 to c.a.
7.1	8.0	Leucoxene-bearing GABBRO -10% quartz-carbonate veins
8.0	8.8	Stockwork Zone -15-20% quartz-carbonate veins -majority of veins 45 to c.a.
8.8	11.0	Massive Leucoxene-bearing GABBRO
11.0	11.3	Weakly foliated GABBRO -foliation 45 to c.a.
11.3	19.5	Massive Leucoxene-bearing GABBRO -medium-grained
19.5	20.0	Weakly carbonatized GABBRO -thin irregular silicified zones
20.0	21.2	Silicified CARBONATE VEIN -well developed colliform texture -up to 70% quartz replacement -disseminated arsenopyrite at 20.3
21.2	21.55	SILICIFIED GABBRO well banded, 45 to c.a. 2% pyrite

FROM	TO	LITHOLOGY
21.55	21.75	FELSIC DYKE
21.75	22.0	Carbonatized - Pyritized GABBRO -contact with above dyke 80 to c.a. -2 to 5% pyrite -banding 40 to 60 to c.a.
22.0	27.0	Massive Leucoxene-bearing GABBRO
27.0	28.1	Unaltered medium-grained GABBRO
28.1	28.6	Massive Leucoxene-bearing GABBRO
28.6	29.4	Carbonatized Zone -irregular foliation 45 to 60 to c.a. -20% carbonate
29.4	30.8	Weakly silicified / carbonatized GABBRO -irregular foliation 45 to c.a. -1,0% pyrite in foliation parallel stringers
30.8	34.0	Massive unaltered, medium-grained GABBRO
34.0	44.0	Massive Unaltered, Coarse-grained GABBRO
44.0	----------	END OF HOLE ----------

SAMPLE #	FROM	TO	WIDTH	ASSAY	Oz/ton
0178	20.3	20.6	0.30m	Tr.	
0179	20.6	21.2	0.60m	Tr.	
0180	21.2	21.75	0.55m	Tr.	
0181	21.75	22.0	0.25m	Tr.	
0182	28.9	29.2	0.30m	Tr.	
0183	29.9	30.8	0.90m	Tr.	



CUSTOM FIRE ASSAYING

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario POV 1LO

Phone: Bus. 662-8171
Res. 662-3361

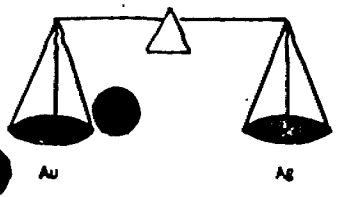
Esso Minerals Canada Ltd. **ASSAY CERTIFICATE** Date: Feb. 9-84

Sample No.	Description	oz/ton Au	oz/ton Ag
25		Trace	
26		"	
27		"	
28		"	
29		.01	
30		.02	
31		.02	
32		.04	
33		.05	
34		Trace	
35		.07	

Assayer: Paul Okanski

Red Lake Printing Co. Ltd.

PT



CUSTOM FIRE ASSAYING

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario POV 1LO

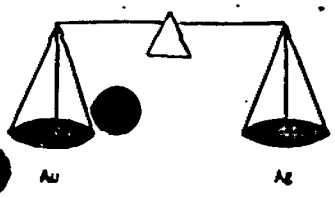
Phone: Bus. 662-8171
Res. 662-3361

Esso Minerals Can. Ltd. **ASSAY CERTIFICATE** Date: Feb. 13-84

Sample No.	Description	oz/ton Au	oz/ton Ag
36		Trace	
37		"	
38		"	
39		"	
40		"	
41		"	
42	NO SAMPLE	X	
43		"	
44		"	
45		"	
46		"	
47		"	
48		"	
49		"	
50		"	
51		"	
52		"	
53		"	
54		"	
55		"	
56		"	

Assayer: Paul E. Okanski

Red Lake Printing Co. Ltd.



CUSTOM FIRE ASSAYING

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario POV 1LO

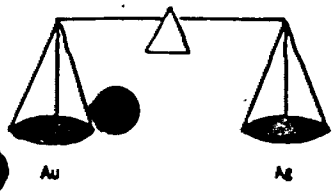
Phone: Bus. 662-8171
Res. 662-3361

Esso Minerals Can. Ltd. **ASSAY CERTIFICATE** Date: Feb. 15-84

Sample No.	Description	oz/ton Au	oz/ton Ag
57		Trace	
58		"	
59		.03	
60		Trace	
61		"	
62		.01	
63		.04	
64		Trace	
65		"	
66		"	
67		"	

Assayer: Paul Okanski

Red Lake Printing Co. Ltd.



CUSTOM FIRE ASSAYING

Phone: Bus. 662-8171
Res. 662-3361

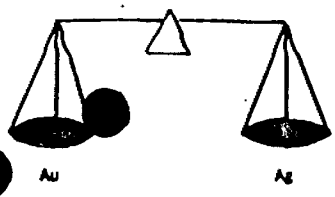
PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario POV 1LO

Esso Minerals Can. Ltd. **ASSAY CERTIFICATE** Date: Feb. 16-84

Sample No.	Description	oz/ton Au	oz/ton Ag
68		Trace	
69		"	
70		"	
71		"	
72		"	
73		"	
74		"	
75		"	
76		"	
77		"	
78		"	
79		"	
80		"	
81		.06	
82		.01	
83		Trace	
84		"	
85		"	
86		.01	
87		Trace	

Assayer. Paul Okanski

ed Lake Printing Co Ltd.



CUSTOM FIRE ASSAYING

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario POV 1LO

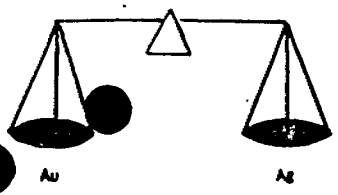
Phone: Bus. 662-8171
Res. 662-3361

Esso Minerals Can. Ltd. **ASSAY CERTIFICATE** Date: Feb. 20-84

Sample No.	Description	oz/ton Au	oz/ton Ag
88		Trace	
89		"	
90		"	
01		"	
92		"	
93		.05	
94		Trace	
95		"	
96		"	
97		"	
98		"	
99		.01	
100		Trace	
01		.02	
02		Trace	
03		"	
04		"	
05		"	
06		.04	
07		Trace	
08		"	
09		"	
10		"	
11		"	

Assayer: Paul O Okanski

Red Lake Printing Co. Ltd.



CUSTOM FIRE ASSAYING

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario POV 1LO

Phone: Bus. 662-8171
Res. 662-3361

Esso Minerals CZn. Ltd.

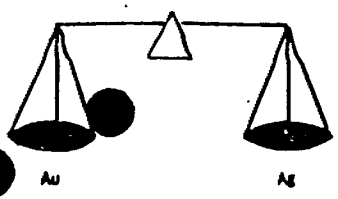
ASSAY CERTIFICATE

Date: Feb/ 20-84

Sample No.	Description	oz/ton Au	oz/ton Ag
112		Trace	
13		"	
~~18~~			
14		"	
15		"	
16		"	
17		"	

Assayer: Paul C Okanski

Red Lake Printing Co. Ltd.



CUSTOM FIRE ASSAYING

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario POV 1LO

Phone: Bus. 662-8171
Res. 662-3361

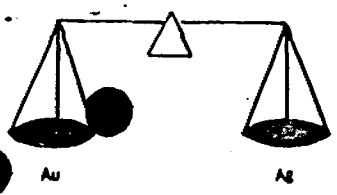
Esso Minerals Can. Ltd. **ASSAY CERTIFICATE** Date: Feb. 21-84

Sample No.	Description	oz/ton Au	oz/ton Ag
118		Trace	
19		.06	
20		Trace	
21		"	
22		.04	
23		Trace	
24		"	
25		"	
26		"	
27		"	
28		"	
29		.01	
30		Trace	
31		"	
32		.02	
33		Trace	
34		"	
35		"	
36		"	
37		"	
38		"	
39		"	

Assayer: Paul Okanski

Red Lake Printing Co. Ltd.

P.T.
P.M.



CUSTOM FIRE ASSAYING

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario POV 1LO

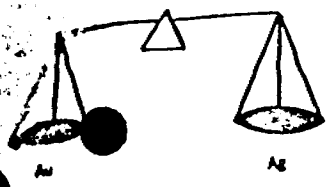
Phone: Bus. 662-8171
Res. 662-3361

Esso Minerals Can. Ltd. **ASSAY CERTIFICATE** Date: Feb. 27-84

Sample No.	Description	oz/ton Au	oz/ton Ag
140		Trace	
41		"	
42		"	
43		"	
44		"	
45		"	
46		"	
47		"	
48		"	
49		"	
50		"	

Assayer: Paul Okanski

Red Lake Printing Co. Ltd.



CUSTOM FIRE ASSAYING

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario POV 1LO

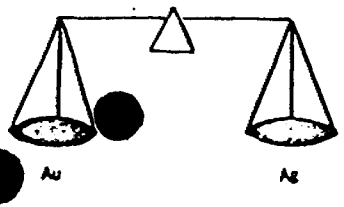
Phone: Bus. 662-8171
Res. 662-3361

Esso Minerals Can. Ltd. **ASSAY CERTIFICATE** Date: Mar. 13-84

Sample No.	Description	oz/ton Au	oz/ton Ag
151		Trace	
52		.01	
53		.14	
54		.03	
55		.04	
56		.03	
57		Trace	
58		"	
59		"	

Assayer: Paul McBoski

Lake Printing Co. Ltd.



CUSTOM FIRE ASSAYING

Phone: Bus. 662-8171
Res. 662-3361

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario POV 1LO

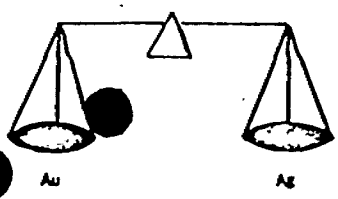
Esso Minerals Can. Ltd.

ASSAY CERTIFICATE

Date: Mar. 15-84

Sample No.	Description	oz/ton Au	oz/ton Ag
160		Trace	
61		"	
62		"	
63		.01	
64		.02	
65		Trace	
66		"	
67		"	
68		"	
69		"	
70		"	
71		.01	
72		.01	
73		Trace	
74		"	
75		"	
76		"	
		X	

Assayer: Paul Okanski



CUSTOM FIRE ASSAYING

PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario POV 1LO

Phone: Bus. 662-8171
Res. 662-3361

Esso Minerals Can. Ltd.

ASSAY CERTIFICATE

Date: Mar. 16-84

Sample No.	Description	oz/ton Au	oz/ton Ag
177		Trace	
78		"	
79		"	
80		"	
81		"	
82		"	
83		"	

Assayer: Paul Okanski

FROM	TO	LITHOLOGY
0.0	3.0	CASING
3.0	4.5	Leucoxene-bearing GABBRO -brolen ground
4.5	5.0	Foliated GABBRO -foliation 45 to 60 to c.a. -well banded with alternating chlorite-carbonate bands
5.0	8.0	Weakly altered Leucoxene-bearing GABBRO -medium to coarse-grained -magnetite-ilmenite present
8.0	9.1	Leucoxene-bearing, medium-grained GABBRO -leucogabbro - 50% feldspar
9.1	12.6	Weakly altered GABBRO -magnetite-ilmentite still present
12.6	13.7	Carbonatized fine-grained GABBRO
13.7	14.2	Banded Silicified GABBRO -moderately to intensely silicified gabbro -2 to 10% pyrite -banding 80 to c.a. -fuchsitic streaks
14.2	14.55	Colliform-textured CARBONATE VEIN -weakly to intensely silicified and brecciated -2 to 10% pyrite
14.55	14.77	Silicified Pyritized GABBRO -weakly banded 70 to c.a. -banding 70 to c.a. -minor fuchsitic streaks
14.77	14.9	Weakly Pyritized GABBRO
14.9	15.0	Banded QUARTZ-TOURMALINE-CARBONATE VEIN

FROM	TO	LITHOLOGY
		-2% pyrite -banding 80 to c.a
15.0	17.1	Weakly-altered, leucoxene-bearing GABBRO
17.1	17.2	QUARTZ-CARBONATE VEIN
17.2	18.8	Weakly altered leucoxene-bearing GABBRO
18.8	19.1	Foliated GABBRO -foliation 45 to c.a. -2% disseminated pyrite
19.1	20.0	Massive leucoxene-bearing GABBRO -minor foliated zones (45 to c.a.)
20.0	20.9	Silicified CARBONATE VEIN -30 to 40% quartz stringers
20.9	21.5	Foliated GABBRO -foliation 45 to c.a. -fine-grained
21.5	24.55	Massive, fine-grained, Leucoxene-bearing GABBRO
24.55	25.20	Foliated Stockworked GABBRO -35% carbonate stringers (40 to c.a.) parallel to foliation -minor fuchsitic zones
25.20	26.1	Massive medium-grained GABBRO -minor leucoxene present
26.1	29.0	Massive unaltered, coarse-grained GABBRO
29.0	----------	END OF HOLE ----------

SAMPLE #	FROM	TO	WIDTH	ASSAY OZ/ton
0155	13.7	14.2	0.5m	0.04
0156	14.2	14.5	0.3m	0.03
0157	14.5	15.0	0.5m	Tr.
0158	20.8	21.1	0.3m	Tr.
0159	24.75	25.20	0.45m	Tr.

IMPERIAL OIL LIMITED — DIAMOND DRILL HOLE LOG

PROPERTY Snake Bay ..... LOCATION Howie Lake .....

NTS CODE ..... HOLE NO. FJ-17 (44M) .....

LATITUDE 0+35E B-baseline .. AZIMUTH 015 ..... PURPOSE Test Aspy Vein.

DEPARTURE 100S ..... DIP -45° ..... STARTED March 10, 1984.

ELEVATION ..... CORE BQ ..... COMPLETED March 11, 1984

SECTION ..... LOGGED BY E.P.M. .....

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.

IMPERIAL OIL LIMITED — DIAMOND DRILL HOLE LOG

PROPERTY Snake Bay ..... LOCATION Howie Lake .....

NTS CODE ..... HOLE NO. FJ-17 (44M) .....

LATITUDE 0+35E B-baseline .. AZIMUTH 015 ..... PURPOSE Test Aspy Vein.

DEPARTURE 100S ..... DIP -45° ..... STARTED March 10, 1984.

ELEVATION ..... CORE BQ ..... COMPLETED March 11, 1984

SECTION ..... LOGGED BY E.P.M. .....

REF. GRID .....

DIP TESTS

FOOTAGE				DIP		LATITUDE		DEPARTURE	
TEST	FROM	TO	TOTAL		CORR.		CUM.		CUM.

WAPAGE151 LK. (M

F.W.N

2.7

W85c1.44

Ministry of Natural Resources
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditure)

52F08NW8151 2.7900 KAWASHEGAMUK LAKE

900

Type of Survey(s)
DIAMOND DRILLING

Township or Area
KAWASHEGAMUK LK. (M2573)
BOYER LAKE. (M2582)

Claim Holder(s)
ESSO RESOURCES CANADA LIMITED

Mining Lease No.
T782

Address
SUITE 1812 , 120 ADELAIDE ST W. TORONTO, ONTARIO M5W 1K3

Survey Company

Date of Survey (from & to)
19 10 83 19 03 84

Name and Address of Author (of Geo-Technical report)
E.P. MORETON, c/o ESSO MINERALS CANADA, 120 ADELAIDE ST. W., TORONTO, ONT. M5W 1K3

Credits Requested per Each Claim in Columns at right

Special Provisions — Days per Claim
- For first survey: Enter 40 days. (This includes line cutting)
- For each additional survey using the same grid: Enter 20 days (for each)
- Geophysical: Electromagnetic, Magnetometer, Radiometric, Other
- Geological
- Geochemical

Man Days — Days per Claim
Complete reverse side and enter total(s) here
- Geophysical: Electromagnetic, Magnetometer, Radiometric, Other
- Geological 69
- Geochemical

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

Claims Traversed (List in numerical sequence)

Claim Symbol & Number	Expend. Days Cr.	Claim Symbol & Number	Expend. Days Cr.
see attached			

RECEIVED
MAR 15 1985
MINING LANDS SECTION

KENORA MINING DIV.
RECEIVED
FEB 22 1985
AM 7,8,9,10,11,12,1,2,3,4,5,6 PM

Expenditures (excludes power stripping)

Type of Work Performed
Diamond Drilling (77) 19

Performed on Claim(s)
see attached

Calculation of Expenditure Days Credits

Total Expenditures			=	Total Days Credits
$ 2500.25$	÷	15	=	166.7

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.

695894
FEB. 22/85

Total number of mining claims covered by this report of work.
67

For Office Use Only

Total Days Cr.	Date Recorded	Mining Recorder
166.7	[illegible]/85	M.E. Lemay (Acting)
	Date Approved as Recorded	Branch Director
	See Revised Statement	

Date: Feb 18, 85
Recorded Holder or Agent (Signature)

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
120 Adelaide St. West, P.O. Box 4029, Toronto, Ontario M5W 1K3

Date Certified: Feb 18/85
Certified By (Signature)

1362 (81/9)

2.48

Mining Claims - Distribution of Credits - [redacted] man days/Claim
Meggisi Lake (M2553) Kawashegamuk Lake (M2573)
Wapageisi Lake (M2056) Boyer Lake (M2582)

776953

K 743834 •	K 706169 •	K 762803 •
743831 •	751120 •	[redacted] Dup 8M
743830 •	695896 •	762809 •
743827 •	695895 •	726962 •
743833 •	762802 •	726963 •
743832 •	762805 •	743838 •
743829 •	762808 •	776953 67 8M
743828 •	726961 •	776954 •
706168 •	726872 •	732087 •
706167 •	771790 •	732088 •
706166 •	771789 •	731142 •
695894 •	728138 •	731140 • Dup
762801 •	728137 •	743841 •
762806 •	728136 •	732084 •
762804 •	728135 •	732085 •
726960 •	776952 •	732086 •
726873 •	732089 •	731139 •
771783 •	732090 •	731141 •
771784 •	728141 •	731140 8M
771800 •	728142 •	731142 • Dup
771798 •	728143 •	010480 [illegible]
771785 •	728131 •	
771786 •	728132 •	
918907 •	728133 •	
771787 •	728134 •	67 TOTAL

Section 77(19)

0003A
0045A

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File	
2.7900	
Date	Mining Recorder's Report of Work No.
1985 06 04	44/85

Recorded Holder
ESSO RESOURCES CANADA LIMITED

Township or Area
KAWASHEGAMUK LAKE AND BOYER LAKE AREAS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	$2500.25 SPENT ON ASSAYING SAMPLES TAKEN FROM MINING CLAIMS:
Electromagnetic _____ days	K 731139
Magnetometer _____ days	762804
Radiometric _____ days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	166.7 DAYS CREDIT ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT RSO 1980.
Geochemical _____ days	
Man days ☐ Airborne ☐	
Special provision ☐ Ground ☐	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

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

No credits have been allowed for the following mining claims

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

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

828 (83/6)

April 1, 1985 Our File:2.7900

Esso Resources Canada Limited
Suite 1812
120 Adelaide Street, West,
Toronto, Ontario
M5W 1K3

Dear Sirs:

RE: Data for Assaying submitted on Mining Claims K 743834 et al in the areas of Boyer Lake and Kawashegamuk Lake

---

This will acknowledge receipt of the above described information on March 15, 1985. In order to complete your submission, please submit the following information (in duplicate):

1. Assay results,

2. Sample location plan showing sample locations or assay result.

When submitting this material, please quote File #2.7900.

For further information please contact Mrs. S.Hurst at (416)965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-4888

S. Hurst:sc

cc: Mining Recorder, Kenora.

1985 06 04

Your File: 44/85
Our File: 2.7900

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

Dear Sir:

RE: Assaying submitted under Section 77(19) of the Mining Act RSO 1980, on Mining Claims K 731139, et al, in the Areasoff Kawashegamuk and Boyer Lake

---

The enclosed statement of assessment work credits for assaying expenditures has been approved as of the above date.

Pleae 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)965-4888

S. Hurst;mc

cc: Esso Resources Canada Limited
Suite 1812
120 Adelaide Street West
Toronto, Ontario
M5W 1K3
cc: Resident Geologist
Kenora, Ontario

Encl.

Mining Lands Section

File No 2.7900

Control Sheet

TYPE OF SURVEY

____ GEOPHYSICAL

____ GEOLOGICAL

____ GEOCHEMICAL

✓ EXPENDITURE

MINING LANDS COMMENTS:

partial duplicate with OMEP.

L.D.

Lod

J. Hurst

Signature of Assessor

85-04-25

Date

ESSO MINERALS CANADA

120 ADELAIDE STREET WEST, P.O. BOX 4029, STATION "A"
TORONTO, ONTARIO M5W 1K3
(416) 968-5200

S. B. MacEACHERN
Regional Exploration Manager

April 19, 1985

S. E. Yundt
Director
Land Management Branch
Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

Reference # 2.7900

RE: Data for assaying submitted on Mining Claims K 743834 et al in the areas of Boyer Lake and Kawashegamuk Lake

Dear Sir:

Please find enclosed assay results and sample location plans (in duplicate) for the following three zones on the above mining claims:

1. The Twilight Zone
2. The Oldtimers' Zone
3. The Fringe Zone (please note: a copy of the sample location plan for this zone is already included in our report)

Please advise us as to whether or not you need the assay receipts for the soil geochemical survey which was also carried out on these claims. The results for this survey are already plotted on maps accompanying the report, but no sample numbers are given.

Yours sincerely,

Susan V. Kay

Susan V. Kay
(968-5200)

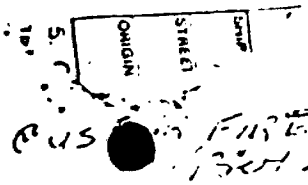
FINANCIAL DOCUMENTS

ASSAY LAB INVOICES

ASSAYING COSTS

Receipt Date	Amount
Oct. 31/83	571.25
Nov. 2/83	96.00
Nov. 3/83	176.40
Nov. 4/83	210.15
Nov. 7/83	179.70
Feb. 7/84	89.80
Feb. 9/84	95.30
Feb. 15/84	94.45
Feb. 16/84	168.40
Feb. 20/84	251.55
Feb. 21/84	186.15
Feb. 27/84	96.90
Mar. 13/84	78.45
Mar. 15/84	143.30
Mar. 16/84	62.45
Total	2,500.25$

#0003A
#0045A



CUSTOMER FIRE ASSAY INC
BOX 253
COCHENOUR, ONT

Date OCT 31 1953

M ESSO MINERALS CAN

SOLD BY	C.O.D.	CHARGE	ON ACCT.	ACCT. FWD.
1 6 SIGMP. AU @ $				54 00
2 FREIGHT				14 60
3 FREIGHT				12 65
4				571 25
5				
6 APPROVED FOR PAYMENT				
7				
8 CHARGE TO:				
9 ONT 70-906				
10				
11				
12				
13				
14				
15				

28

REDIFORM · 5B522E

Greyhound Package Express

CUSTOMER FIRE ASSAY INC
BOX 253
COCHENOUR, ONT
FORMS

Date NOV 2 1953

M ESSO MINERALS CAN

SOLD BY	C.O.D.	CHARGE	ON ACCT.	ACCT. FWD.
1 12 SIGMP AU @ $				96.00
2				
3				
4				
5				
6				
7				
8				
9				
10 ONT 70-906				
11				
12				
13				
14				
15				

32

REDIFORM · 5B522E

CUSTOM FIRE ASSAYING
BOX 253
COCHENOUR, ONT
POV 1LO

Date Nov. 3 1983

M ESSO MINERAL CAN.

SOLD BY	C.O.D.	CHARGE	ON ACCT.	ACCT. FWD.
1	21 SAMPLES @ $8			168 00
2	FREIGHT			5 40
3				173 40
4				
5				
6				
7				
8				
9	ONT 70-906			
10				
11				
12				
13				
14				
15				

38

REDIFORM - 5B522E

Greyhound Package Express

CUSTOM FIRE ASSAYING
BOX 253
COCHENOUR ONT POV 1LO

Date Nov 4 1983

M ESSO MINERAL CAN

SOLD BY	C.O.D.	CHARGE	ON ACCT.	ACCT. FWD.
1	25 SAMPLES @ $8.00			200 00
2	FREIGHT			10 15
3				210 15
4				
5				
6				
7				
8	APPROVED FOR PAYMENT			
9				
10				
11	ONT 70-906			
12				
13				
14				
15				

40

REDIFORM - 5B522E

PAID
NOV 9 1983
ESSO MINERALS CANADA

STATEMENT / ÉTAT DE COMPTE Oct. 31 1983 SK

M. Esso Mineral Can. Ltd.
Toronto, Ont.

In Account With
Doit À Custom Fire Assaying
Box 253
Cochenour, Ont. POV-1LO

DATE	DESCRIPTION	INVOICE #, PARTICULARS ETC. NUMERO DE FACTURE, PARTICULARITÉS ETC.	DEBIT DEBIT	CREDIT CRÉDIT

CUSTOMER'S ASSAYING
BOX 253
COCHENOUR'S ONT POW 1C0

Date NOV 7 19 83

M ESSO MINERALS CAN.

SOLD BY	C.O.D.	CHARGE	ON ACC'T.	ACC'T. FWD.
1 21 SAMP AU ASSAY				168 00
2 FREIGHT				11 70
3				179 70
4				
5				
6 APPROVED FOR PAYMENT				
7				
8 CHARGE TO: ORB				
9 CAT TO 3442 W 610				
10 02 0906				
11			$	179.70
12				
13				
14				
15				

42

REDIFORM - 5B522E

PAID
NOV 14 1983
ESSO MINERALS CANADA

CUSTOM FIRE ASSAYING
1025
COCHENOUR; ONT POULO

Date FEB 7 1984

ESSO MINERALS CAN. LTD

	SOLD BY	C.O.D.	CHARGE	ON ACCT.	ACCT. FWD.	
1	10 SIMPLE AU @ 8.00				80	00
2	FREIGHT				9	80
3					89	80
4	#15 00 24					
5						
6						
7						
8						
9						
10						
11						
12						
13	02 0906 3142				M 70	
14						
15	Service					

01

REDIFORM - 58522E

CUSTOM FIRE ASSAYING
BOX 253
COCHENOUR, ALT. T0G 1H0

Date FEB 9 1984

M ESSO MINERALS CAN. LTD.

SOLD BY	C.O.D.	CHARGE	ON ACCT.	ACCT. FWD.
1 11 SAMPLES @ 8.00				38 00
2 FREIGHT				7 30
3 @ 25 to 35				95 30
A				
5				
6 RECEIVED				
7 FEB 14 1984				
8				
9 MINERALS				
10				
11				
12				
13 02 0905 3142				11.70
14				
15				

05

REDIFORM 5B522E

Greyhound Package Express

$ 95.30

FEB 16 1984

CUSTOM FIRE ASSAYING
BOX 253
COCHENOUR, ONT. P0J 1A0

Date FEB 15 1984

M ESSO MINERALS CAN LTD

SOLD BY	C.O.D.	CHARGE	ON ACC'T.	ACC'T. FWD.
1	11 SAMP. AU @ 8.00			88 00
2	FREIGHT			6 45
3				94 45
4	#57 to 67			
5				
6				
7	RECEIVED			
8	FEB 20 1984			
9				
10				
11				
12				
13				
14	ONT 76-906			
15				

15

REDIFORM 58522E

FEB 2[illegible]

CHARGE: 02 0906 3142 4670 1 94.45

CUSTOM FIRE ASSAYING
BOX 253
COCHENOUR, ONT P0J-1C0

Date FEB 16 84

ESSO MINERALS CAN. LTD

SOLD BY	C.O.D.	CHARGE	ON ACCT.	ACCT. FWD.
1 20 SHIP. BAGS				160 00
2 FREIGHT				8 40
3				168 40
4 #65 to 87				
5				
6				
7				
8				
9				
10 ONT 70-90				
11 02 0906 3142 M670				
12				
13				
14				
15				

17

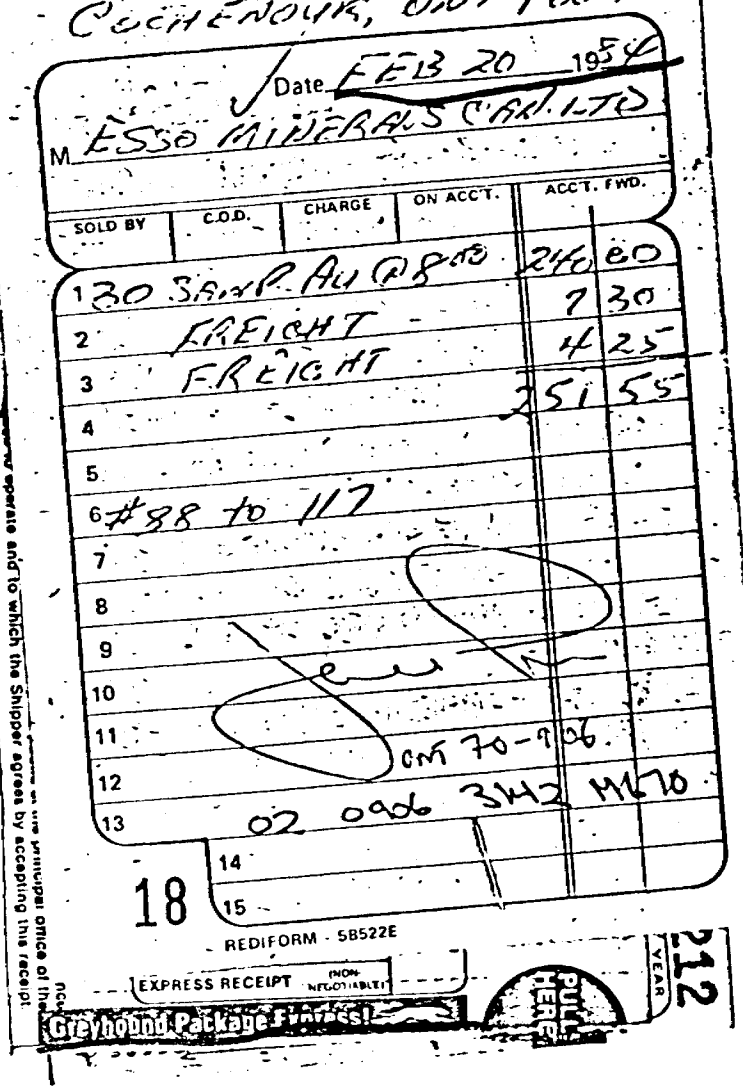
REDIFORM - 58522E

Greyhound Package Express

RECEIVED

FEB 28 1984

CUSTOM FIRE ASSAYING
BOX 253
COCHENOUR, ONT P0J-1C0


Date FEB 20 1954
M ESSO MINERALS CAN. LTD

	SOLD BY	C.O.D.	CHARGE	ON ACC'T.	ACC'T. FWD.
1	30 SAMP. AU FA				240 60
2	FREIGHT				7 30
3	FREIGHT				4 25
4					251 55
5					
6	#88 to 117				
7					
8					
9					
10					
11				CM 70-906	
12					
13	02 0906 3442				11670
14					
15					

18

REDIFORM - 5B522E

EXPRESS RECEIPT (NON-NEGOTIABLE)

Greyhound Package Express

212 YEAR

PULL HERE

...operate and to which the Shipper agrees by accepting this receipt.

FEB 22 1954

CUSTOM FIRE ASSAYING
1284 25 3
COCHENOUR, ONT P0J1C0

Date FEB 21 1984

MESSO MINERALS (CAN.) LTD

SOLD BY	C.O.D.	CHARGE	ON ACCT.	ACCT. FWD.
1 V2 SAMP AU @ 85.00				170 00
2 FREIGHT				10 15
3				186 15
4				
5				
6				
7				
8				
9				
10 02 0906 3142 W670				
11				
12				
13				
14				
15				

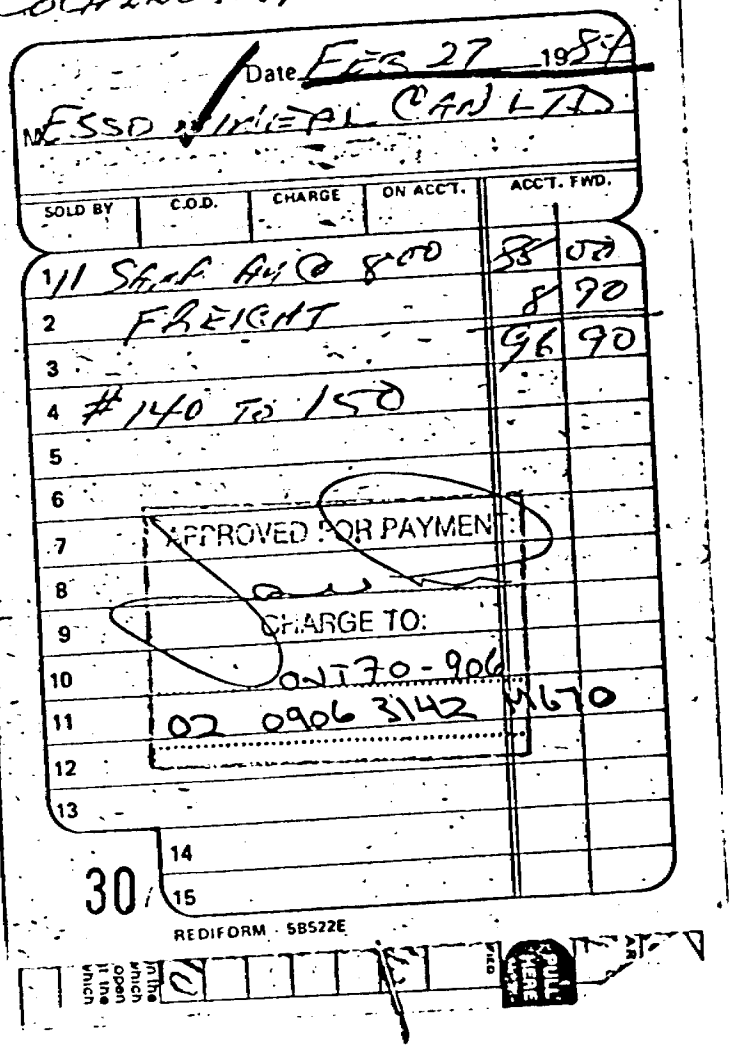
21

REDIFORM - 58522E

Greyhound Package Express

FEB 28 1984

CUSTOM FIRE ASSEMBLY
TEX 233
COCHENOUR, ONT POINT



Date FEB 27 1984

M/E ESSO MINERAL CAN LTD

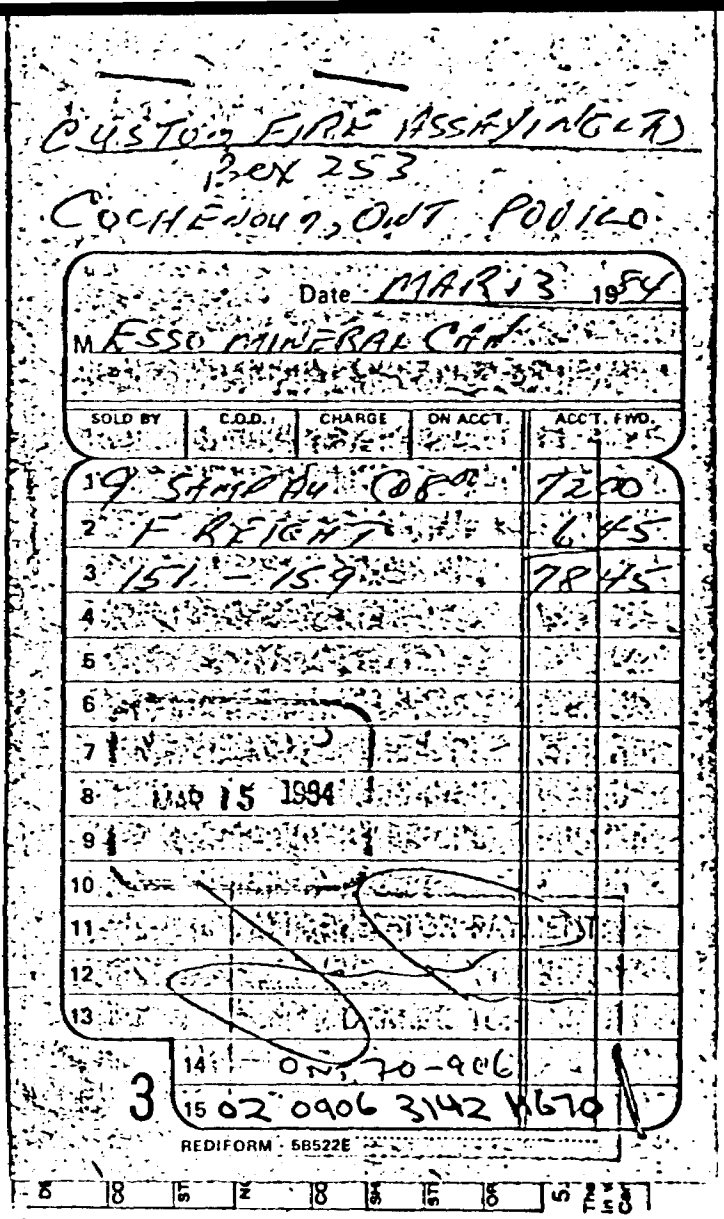
SOLD BY	C.O.D.	CHARGE	ON ACCT.	ACCT. FWD.
1	1/1 Shaft Assy @ 8.00			88 00
2	FREIGHT			8 90
3				96 90
4	#140 TO 150			
5				
6				
7	APPROVED FOR PAYMENT:			
8				
9	CHARGE TO:			
10	ONT 70-906			
11	02 0906 3142 M670			
12				
13				
14				
15				

30

REDIFORM 5BS22E

MAR 2 1984

CUSTOM FIRE ASSAYING (A)
BOX 253
COCHENOUR, ONT POJ1C0



Date MAR 13 1984

M ESSO MINERAL CAN

	SOLD BY	C.O.D.	CHARGE	ON ACCT.	ACCT. FWD.
1	9 SHIPPED				72 00
2	FREIGHT				6 45
3	151 - 159				78 45
4					
5					
6					
7					
8	MAR 15 1984				
9					
10					
11					
12					
13					
14			ON 70-906		
15	02 0906 3142 K670				

3

REDIFORM 5B522E

RECEIVED TO CONTROLLERS

MAR 20 1984

~~FIRE ASSAY~~ LTD
BOX 253
COCHENOUR, ONT P0W 1L0

Date MAR 15 1984

M ESSO MINERALS CAN LTD

	SOLD BY	C.O.D.	CHARGE	ON ACCT.	ACCT. FWD.	
1	17 SAMPLES				136	00
2	FREIGHT				7	30
3					143	30
4						
5	#160 to 176					
6						
7						
8						
9						
10						
11						
12	✓			GST 70	9	80
13	02 0906				153	10
14						
15						

9

REDIFORM - 5B522E

MAR 20 1984

CUSTOM FIRE ASSAYING LTD
BOX 203
COCHENOUR, ONT. P0V-1L0

Date MAR 16 1984

M ESSO MINERALS CAN. LTD.

SOLD BY	C.O.D.	CHARGE	ON ACC'T.	ACC'T. FWD.	
1	17 SIGNED ASSAYS			56	00
2	FREIGHT			6	45
3				62	45
4					
5	#177 TO 183				
6					
7					
8					
9					
10					
11	ONT TE 796				
12	02 0906 3142 H6			0	
13					
14					
15					

15

REDIFORM - 5B522E

MAR 28

DRILL RECEIPTS

CHEQUE NO. DU CHÈQUE	DATE	PAY THIS AMOUNT - MONTANT À PAYER
539678	12/05/83	$****54,386.39

ESSO RESOURCES CANADA LIMITED
ESSO RESSOURCES CANADA LIMITÉE
BOX 2356, EDMONTON, ALTA. T5J 2R5

539678

OPERATING ACCOUNT
OMPTE D'EXPLOITATION

AY TO THE ORDER OF
AYEZ À L'ORDRE DE

LONGYEAR CANADA INC
P O BOX 330
NORTHBAY ONT
P1B 8H6

RECEIVED
JAN 28 1985
MINERALS

THE ROYAL BANK OF CANADA
10025 JASPER AVE.,
EDMONTON, ALTA. T5J 1S6

DO NOT WRITE BELOW THIS LINE
NE PAS ÉCRIRE SOUS CETTE LIGNE

BY
PAR _____ ATTORNEY
PROCUREUR

⑈0539678⑈ ⑆04159⑈003⑆ 000⑈003⑈4⑈

PLEASE QUOTE THIS CODE ON YOUR INVOICES.
VEUILLEZ INDIQUER CE CODE SUR VOS FACTURES.

V 700468- 2

ESSO RESOURCES CANADA LIMITED
ESSO RESSOURCES CANADA LIMITÉE
BOX 2356, EDMONTON, ALTA. T5J 2R5

CHEQUE NO. - NO DU CHÈQUE
539678

VOUCHER PIÈCE JUSTIFICATIVE	ITEM ARTICLE	INVOICE - FACTURE NUMBER - NUMÉRO	INVOICE - FACTURE DATE	AMOUNT - MONTANT GROSS - BRUT	AMOUNT - MONTANT DISCOUNT ESCOMPTE	AMOUNT - MONTANT NET PAYMENT - PAIEMENT NET
110585	019	4901	11/07/83	54626.39		54626.39
110586	007	5036	11/14/83	240.00-		240.00-
						54386.39

Recd - Dec 8/83

Gail Lessonneault

C-513BX/1 11/78 151092

DETACH AND RETAIN THIS PORTION FOR YOUR RECORDS AND TO SUPPORT INQUIRIES
DÉTACHER ET CONSERVER CETTE PARTIE POUR VOS DOSSIERS ET TOUTES QUESTIONS PERTINENTES

CHEQUE NO. DU CHÈQUE	DATE	PAY THIS AMOUNT - MONTANT À PAYER
562640	03/29/84	$****58,161.33

ESSO RESOURCES CANADA LIMITED
ESSO RESSOURCES CANADA LIMITÉE
BOX 2356, EDMONTON, ALTA. T5J 2R5

562640

OPERATING ACCOUNT
COMPTE D'EXPLOITATION

PAY TO THE ORDER OF
PAYEZ À L'ORDRE DE

LONGYEAR CANADA INC
P O BOX 330
NORTHBAY ONT
P1B 8H6

THE ROYAL BANK OF CANADA
10025 JASPER AVE.,
EDMONTON, ALTA. T5J 1S6

DO NOT WRITE BELOW THIS LINE
NE PAS ECRIRE SOUS CETTE LIGNE

BY
PAR _____ ATTORNEY
PROCUREUR

⑈056264O⑈ ⑆04159⑈003⑆ 000⑈003⑈4⑈

PLEASE QUOTE THIS CODE ON YOUR INVOICES.
VEUILLEZ INDIQUER CE CODE SUR VOS FACTURES.

V 200468- 2

ESSO RESOURCES CANADA LIMITED
ESSO RESSOURCES CANADA LIMITÉE
BOX 2356, EDMONTON, ALTA. T5J 2R5

CHEQUE NO. - NO DU CHÈQUE: 562640

VOUCHER PIÈCE JUSTIFICATIVE	ITEM ARTICLE	INVOICE - FACTURE NUMBER - NUMÉRO	INVOICE - FACTURE DATE	AMOUNT - MONTANT GROSS - BRUT	AMOUNT - MONTANT DISCOUNT ESCOMPTE	AMOUNT - MONTANT NET PAYMENT - PAIEMENT NET
030586	001	5390	03/05/84	58161.33		58161.33
						58161.33

Rec'd Apr 02. 1984 ✓

Gail Lapommeraye

C-513BX/1 11/78 151092

DETACH AND RETAIN THIS PORTION FOR YOUR RECORDS AND TO SUPPORT INQUIRIES
DÉTACHER ET CONSERVER CETTE PARTIE POUR VOS DOSSIERS ET TOUTES QUESTIONS POSTÉRIEURES

CHEQUE NO. DU CHÈQUE	DATE	PAY THIS AMOUNT - MONTANT À PAYER
565591	04/16/84	$****16,759.45

ESSO RESOURCES CANADA LIMITED
ESSO RESSOURCES CANADA LIMITÉE
BOX 2356, EDMONTON, ALTA. T5J 2R5

565591

OPERATING ACCOUNT
COMPTE D'EXPLOITATION

PAY TO THE ORDER OF
PAYEZ À L'ORDRE DE

LONGYEAR CANADA INC
P O BOX 330
NORTHBAY ONT
P1B 8H6

THE ROYAL BANK OF CANADA
10025 JASPER AVE.,
EDMONTON, ALTA. T5J 1S6

DO NOT WRITE BELOW THIS LINE
NE PAS ECRIRE SOUS CETTE LIGNE

BY
PAR _____ ATTORNEY
PROCUREUR

⑈0565591⑈ ⑆04159⑈003⑆ 000⑈003⑈4⑈

PLEASE QUOTE THIS CODE ON YOUR INVOICES.
VEUILLEZ INDIQUER CE CODE SUR VOS FACTURES.

V.700463- 2

ESSO RESOURCES CANADA LIMITED
ESSO RESSOURCES CANADA LIMITÉE
BOX 2356, EDMONTON, ALTA. T5J 2R5

CHEQUE NO. - NO DU CHÈQUE 565591

VOUCHER PIÈCE JUSTIFICATIVE	ITEM ARTICLE	INVOICE - FACTURE NUMBER - NUMÉRO	INVOICE - FACTURE DATE	AMOUNT - MONTANT GROSS - BRUT	AMOUNT - MONTANT DISCOUNT ESCOMPTE	AMOUNT - MONTANT NET PAYMENT - PAIEMENT NET
030591	008	5511	03/20/84	16759.45		16759.45
						16759.45

Recd Apr 19. 1984
Gail Lessoinneault

C-513BX/1 11/78 151092

DETACH AND RETAIN THIS PORTION FOR YOUR RECORDS AND TO SUPPORT INQUIRIES
DÉTACHER ET CONSERVER CE BORDEREAU POUR VOS DOSSIERS ET TOUTES QUESTIONS PERTINENTES

2.7900

743834	706169	
31	751120	762803
30	695896	9
27	95	726 962
33	762802	63
32	5	743838
29	8	776953
28	726961	54
706168	872	732087
67	771790	88
66	89	731142
695894	728138	40
762801	37	743841
6	36	732084
4	35	85
726 960	776952	86
813	732089	731139
771783	732090	41
84	728141	
800	42	
798	43	
85	728131	
86	32	
718907	33	
771787	34	

SNAKE BAY PROJECT (ONT. 70) LEGEND

1 MAFIC METAVOLCANICS
- (a) massive flows
- (c.g.) coarse grained
- (pl) pillowed
- (p) porphyritic

2 INTERMEDIATE METAVOLCANICS
- a flow
- b tuff
- c lapilli tuff
- d agglomerate
- e breccia

3 FELSIC METAVOLCANICS
- a flow
- b tuff
- c lapilli tuff

4 METASEDIMENTS
- a argillite
- b arkose
- d conglomerate
- e magnetite-bearing grit
- i interflow
- dv volcanic-clast conglomerate

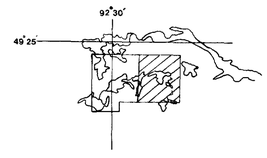
6 GABBRO SILLS
- a massive
- k knobbly
- l leucocratic
- p porphyritic
- mt magnetite-bearing

7 FELSIC TO INTERMEDIATE INTRUSIVES
- a quartz monzonite
- c quartz porphyry
- d quartz diorite

8 ULTRAMAFIC INTRUSIVES
- a gabbro
- b pyroxenite
- c lamprophyre

ABBREVIATIONS
- cbtzd-carbonatized
- sil-silicified
- fu-fuchsite
- py-pyrite
- lxn-leucoxene
- ser-sericite
- sh-sheared
- fl-fluorite

SYMBOLS
- foliation
- 70 bedding
- pillow tops
- shear zone
- fold plunge
- trace of outcrop



ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY — ONT 70

Geology-East sheet

ACCOUNT Nº	FILE Nº	TORONTO
DRAWN BY:	DATE	NTS
DWG. Nº	MAP Nº	

SCALE 1:5000
0 50 100 150 200 250 300 350m

To Accompany A. Report By:
Dated:

2-1980

52F08NW8151 2.7000 KAWASHEGAMUK LAKE

200

DARK HORSE LAKE

WASHEIBEMAGA LAKE

KATISHA LAKE

SEGGEMAK LAKE

THUNDERCLOUD LAKE

K771807 K771805 K743812 K743807

K771811 K771810 K771809 K771808 K771806 K743811 K743808 K743806 K743834

K771812

K726955 K762810 K727281 K727286 K771615 K743810 K743809 K743805 K743833

K726874 K727279 K727282 K727285 K771616 K706173 K706167 K706166 K695834

K726875 K727280 K727283 K727284 K771617 K706169 K706168 K695835

K719595 K719593 K719594 K728125 K728130 K728131 K728132 K728133 K728134

K719596 K719591 K728135 K728136 K728137 K728138 K728139 K728140

K719597 K719592 K743835 K743836 K743837 K743838

K719598 K719593 K743839 K810430

K719599 K719594 K743841

K728109 K728110 K728111 K728112 K728113 K728114 K743840 K743842

K728115 K728116 K728117 K728118 K771822 K771823

K771827 K771826 K771825 K771824

T.L. 18 S

T.L. 30 S

35+00W 30+00W 25+00W 20+00W 15+00W 10+00W 5+00W

45+00W 40+00W 35+00W 30+00W 25+00W 20+00W 15+00W 10+00W

Uncontormity

pegmatite dykes py-fl-Mo

qz-fl-py-gn

gn-py-cb

cb py vein

bxmfls

SNAKE BAY PROJECT (ONT. 70) LEGEND

1 MAFIC METAVOLCANICS
(a) massive flows
(c.g.) coarse grained
(pl) pillowed
(p) porphyritic

2 INTERMEDIATE METAVOLCANICS
a flow
b tuff
c lapilli tuff
d agglomerate
e breccia

3 FELSIC METAVOLCANICS
a flow
b tuff
c lapilli tuff

4 METASEDIMENTS
a argillite
b arkose
d conglomerate
e magnetite-bearing grit
i interflow
5v volcanic-clast conglomerate

6 GABBRO SILLS
a massive
k knobbly
l leucocratic
p porphyritic
mt magnetite-bearing

7 FELSIC TO INTERMEDIATE INTRUSIVES
a quartz monzonite
c quartz porphyry
d quartz diorite

8 ULTRAMAFIC INTRUSIVES
a gabbro
b pyroxenite
c lamporphyre

ABBREVIATIONS
cbtzd-carbonatized
sli-silicified
fu-fuchsite
py-pyrite
lxn-leucoxene
ser-sericite
sh-sheared
fl-fluorite

SYMBOLS
foliation
70 bedding
pillow tops
shear zone
fold plunge
trace of outcrop

92°30'
49°25'
Snake Bay

FSSO MINERALS CANADA
OWN OF FSSO MINERALS CANADA LIMITED

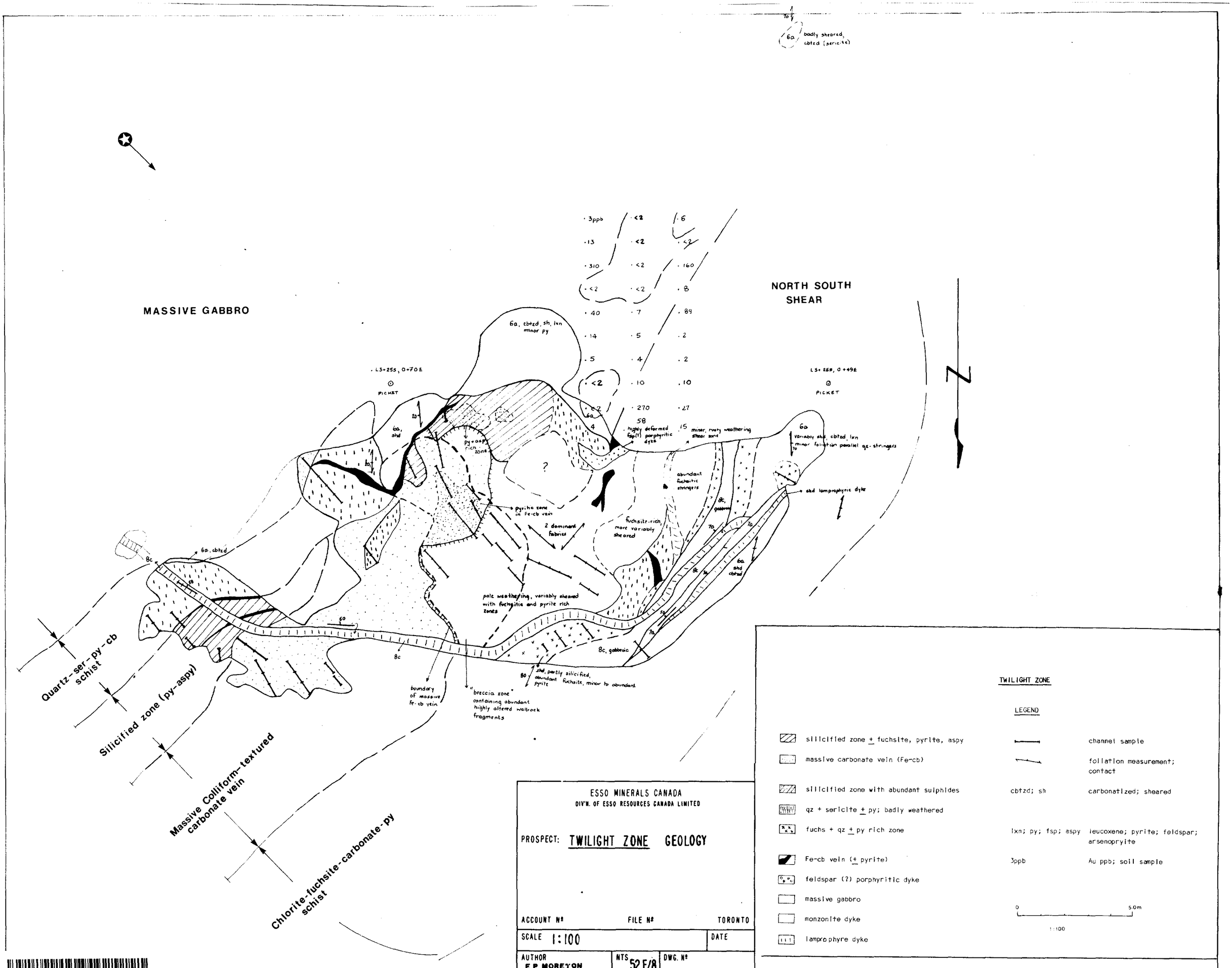
PROSPECT SNAKE BAY — ONT 70

Geology West sheet

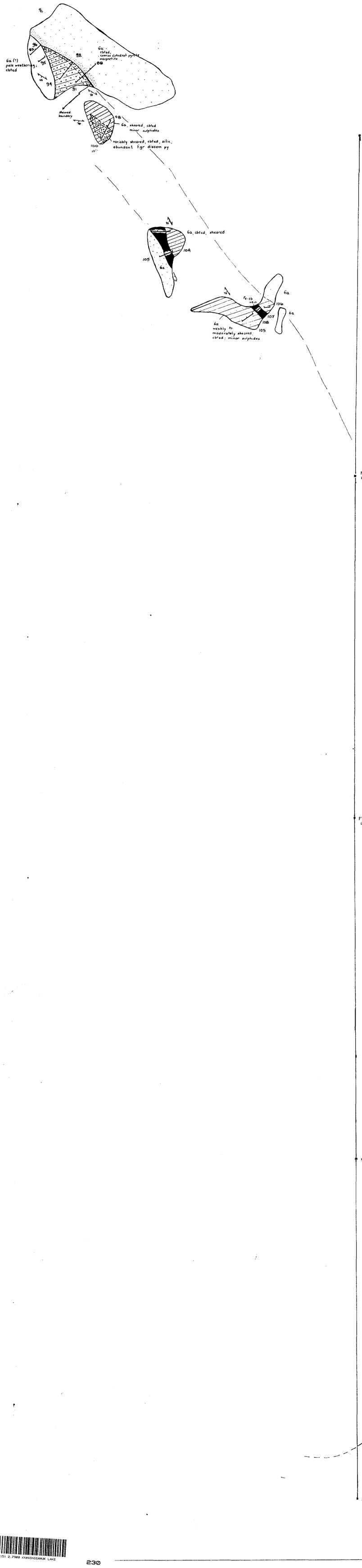
ACCOUNT Nº | FILE Nº | TORONTO
DRAWN BY: | DATE | N.T.S.
DWG Nº | MAP Nº
SCALE 1:5000
0 50 100 150 200 250 300 350
To Accompany A Report By
Dated

2·1980

52F08NW0151 2.7388 KAKASHEEKAHUK LAKE



2.1900



- sheared
- relative abundance of pyrite
- carbonatized, silicified ± pyrite
- Fe-carbonate vein, massive
- 2b Felsic Tuff
- 5t Interflow sediments
- 6 Gabbro
  - (a) massive
  - (l) leucocratic
  - (k) knobbly
  - (p) porphyritic

mt - magnetite
cbtzd - carbonatized
silic - silicified
/ - channel sample
/ - bedding
// - foliation

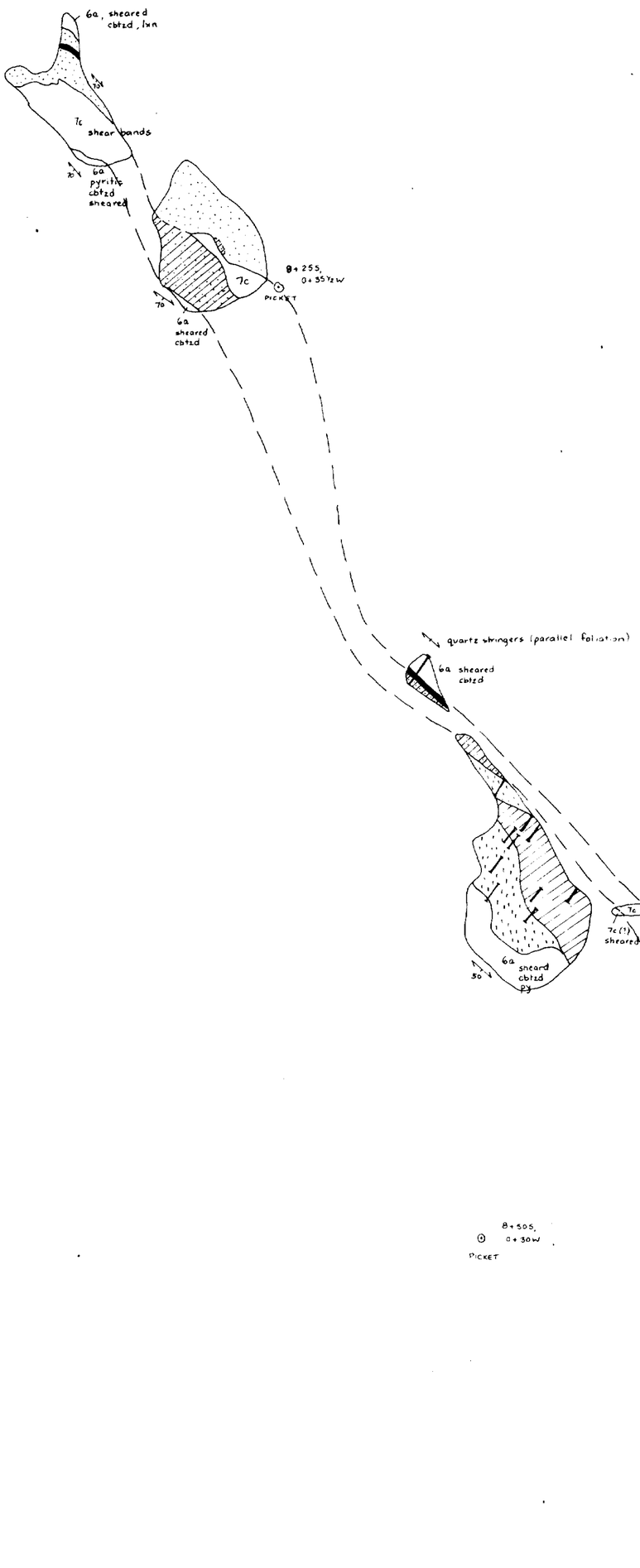
ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

PROSPECT: **FRINGE ZONE GEOLOGY**

ACCOUNT Nº	FILE Nº Ont 70 TORONTO	
DRAWN BY: EPM	DATE	NTS 52F/8
DRG Nº	MAP Nº	

SCALE 1:100

To Accompany A Report By:
Dated: 2/1970



N

ESSO MINERALS CANADA

DIVN. OF ESSO RESOURCES CANADA LIMITED

PROSPECT: "OLD TIMER" ZONE GEOLOGY

ACCOUNT Nº | FILE Nº Ont 70 TORONTO

DRAWN BY: EPM | DATE | NTS 52 F/8

DRG. Nº | MAP Nº

SCALE 1:100

To Accompany A Report By

Dated

OLDTIMERS' ZONE

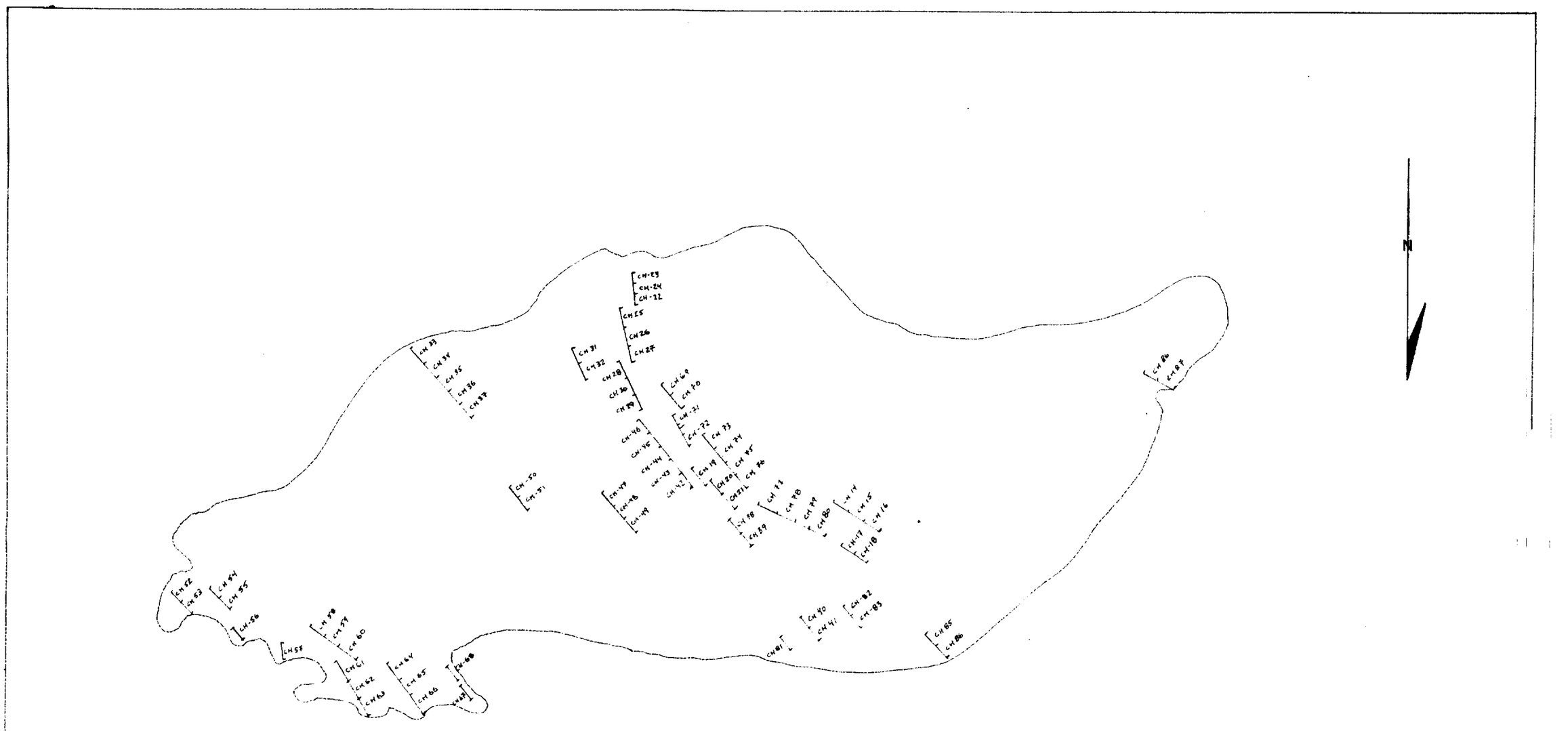
Scale: 1:100 0 1 2m

Legend

- massive Fe-carbonate + carbonate vein with quartz stringers, minor sulphides
- quartz-sericite ± pyrite; badly weathered in spots
- silicified zone with f gr disseminated pyrite and fuchsite
- silicified, sericitized, carbonatized 7c ± pyrite
- Fe-carbonate vein
- foliation measurement — 6a massive gabbro
- contact measurement — 7c quartz porphyry
- channel sample

cbtzd, py, lxn, carbonatized, pyrite, leucoxene

2.1900

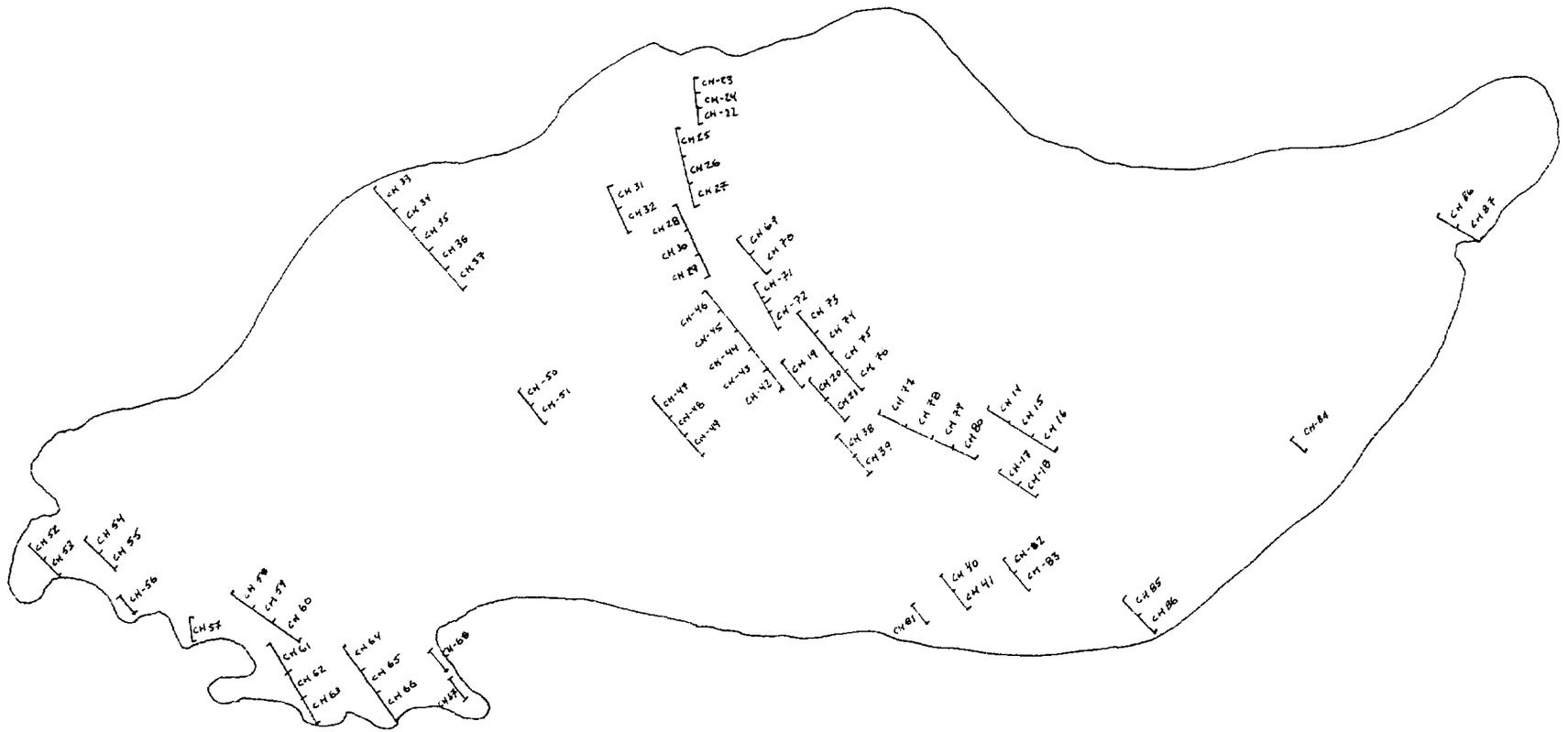


ESSO MINERALS CANADA
DIV'N. OF ESSO RESOURCES CANADA LIMITED

PROSPECT: TWILIGHT ZONE

CHANNEL SAMPLE LOCATION MAP

ACCOUNT Nº	FILE Nº ONT 70 TORONTO	
DRAWN BY: EPM	DATE	NTS 52 F/8
DRG. Nº	MAP Nº	
SCALE 1:100		
To Accompany A Report By:		
Dated: 2.7900		



0 5m

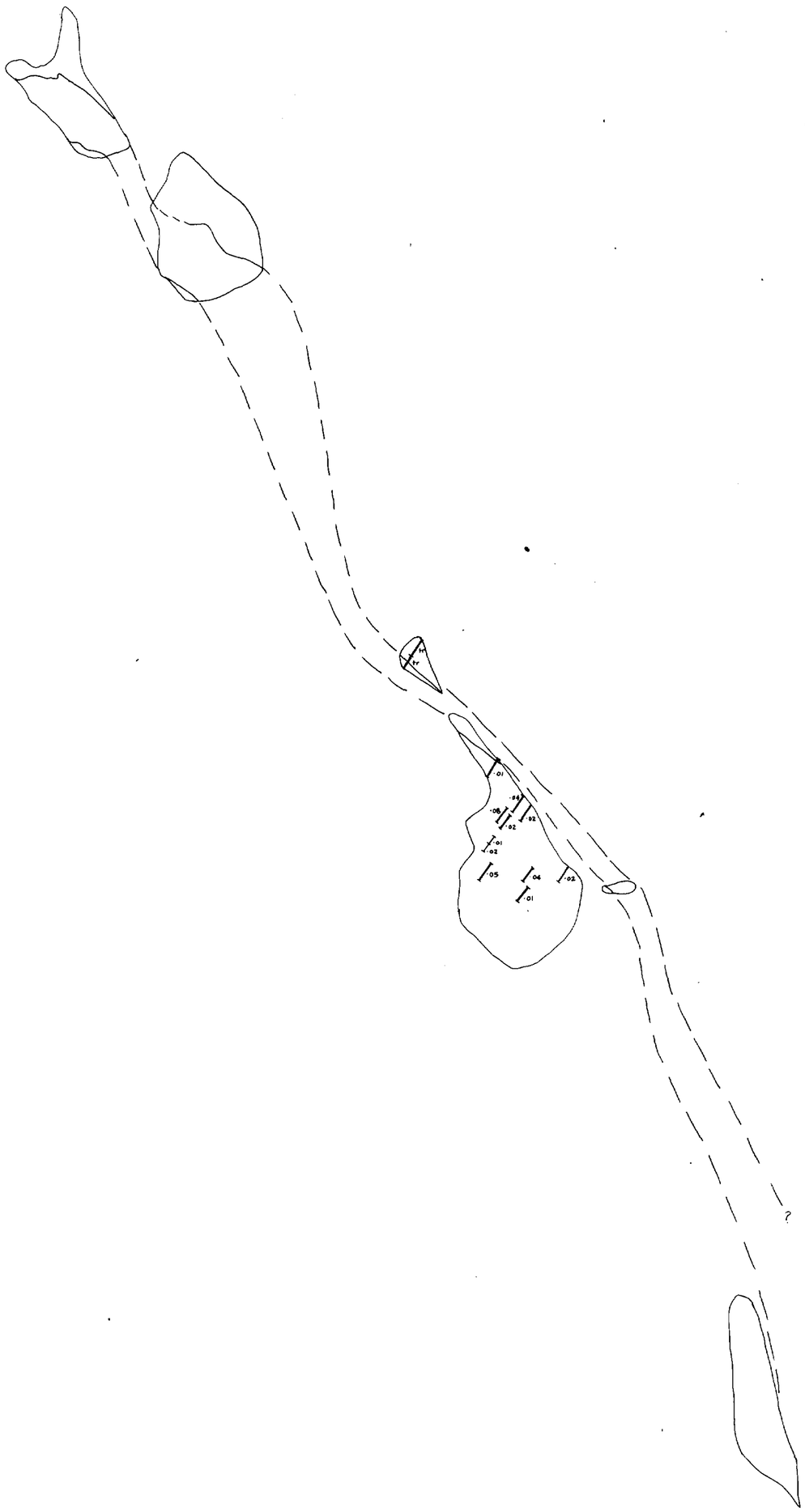
ESSO MINERALS CANADA
DIV'N. OF ESSO RESOURCES CANADA LIMITED

PROSPECT: TWILIGHT ZONE

CHANNEL SAMPLE LOCATION MAP

ACCOUNT Nº	FILE Nº ONT70 TORONTO	
DRAWN BY: EPM	DATE	NTS 52 F/8
DRG. Nº	MAP Nº	
SCALE 1:100		
To Accompany A Report By:		
Dated: 2.7900		

52F08NW8151 2.7900 KAWASHEGAMUK LAKE



N

OLDTIMERS' ZONE

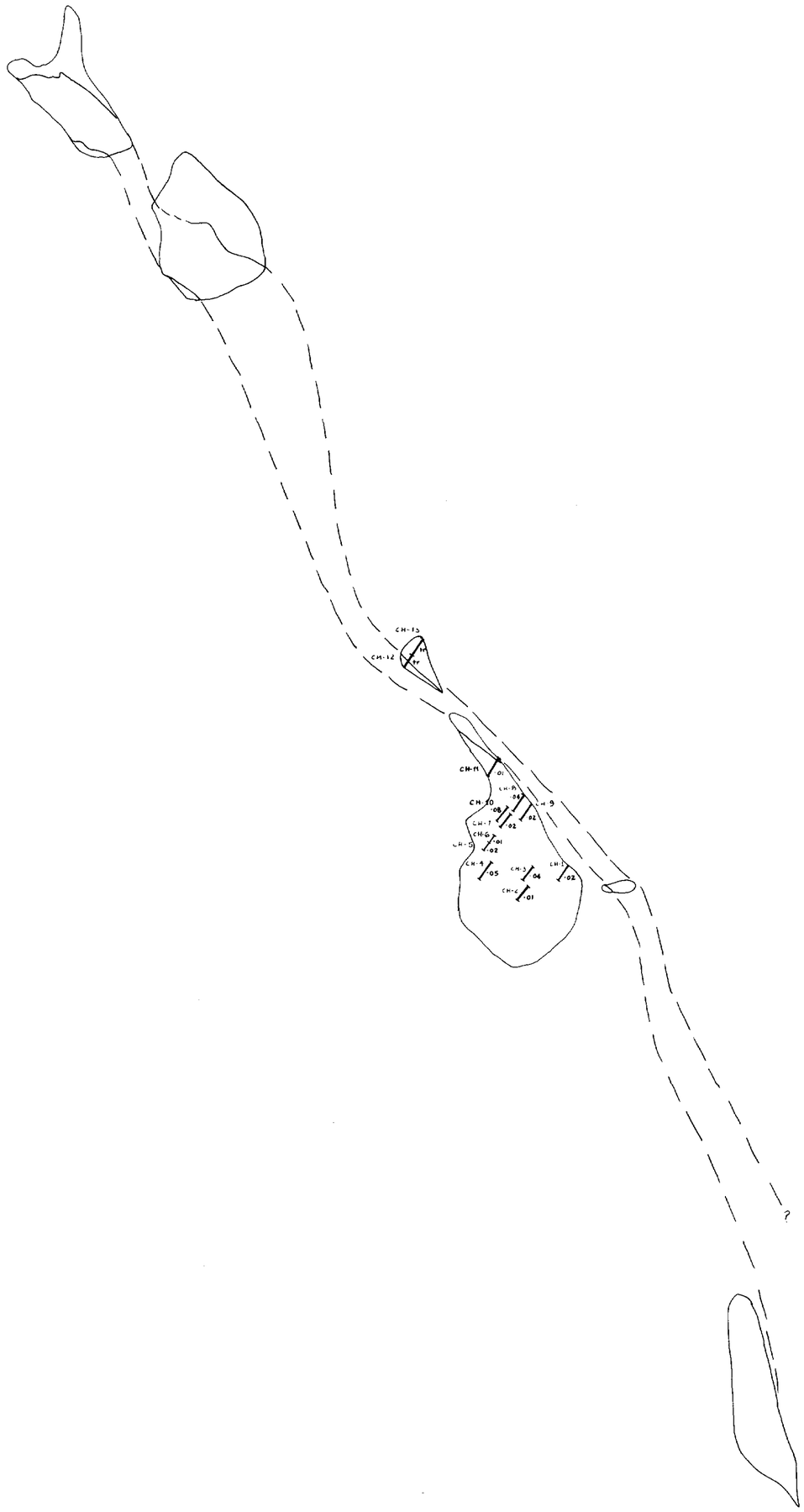
Scale: 1:100 0 1 2m

ESSO MINERALS CANADA
DIV'N. OF ESSO RESOURCES CANADA LIMITED

PROSPECT: OLD TIMER ZONE
CHANNEL SAMPLE LOCATIONS

values in oz/ton

ACCOUNT Nº	FILE Nº	TORONTO
SCALE		DATE
AUTHOR EP MORETON	NTS . 52 F/8	DWG. Nº 2.1900



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OLDTIMERS' ZONE

Scale: 1:100 0 1 2m

K162804

ESSO MINERALS CANADA
DIV'N. OF ESSO RESOURCES CANADA LIMITED

PROSPECT: OLD TIMER ZONE
CHANNEL SAMPLE LOCATIONS

values in oz/ton

ACCOUNT Nº	FILE Nº	TORONTO
SCALE		DATE
AUTHOR E P MORETON	NTS . 52 F/8	DWG. Nº

2.7900

K743831 K743830 K743827 K743826 K771803 K771802 K771799 K771797 K771796

K743832 K743829 K743828 K743825 K771804 K771801 K771800 K771798

K762801 K762806 K762804 K726960 K726873 K771783 K771784 K771785 K771786 K771795

K718907 K771787

KAWIJEKIWA LAKE

K762802 K762805 K762808 K726961 K726872 K771790 K771789

KATISHA LAKE 105

K762803 K762804 K762809 K726962 K726963 K728144

Area covered by 1983 survey

HOWIE LAKE

K771791 K771792

K728135 K776952 K732089 K732090 K728141 K726141 K728143 K771794 K771793

K731142

K743838 K706170 K706171 K706172

K776958 K776954 K732087 K732088 K731140

K732084 K732085 K732086 K731139 K731141

K743841

K743842 K743813 K743814 K743815

TL 205

L6W L5W L4W L3W L2W L1W L0E L1E L2E L3E L4E L5E L6E L7E L8E L9E L10E L11E L12E L13E L14E L15E L16E L17E L18E L19E L20E L21E L22E L23E L24E L25E L26E

N

ESSO MINERALS CANADA

PROSPECT: SNAKE BAY — ONT 70

SOIL GEOCHEMISTRY

Au p.p.b.

(EAST SHEET)

nil

ACCOUNT Nº FILE Nº TORONTO

DRAWN BY EPM DATE N.T.S. 52 F/8

ENG. Nº MAP Nº

SCALE 1:5000

0 50 100 150 200 250 300 350m

52F08NW0151 2.7388 KAWASHEGAMUK LAKE

290

2 1980

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THUNDERCLOUD LAKE
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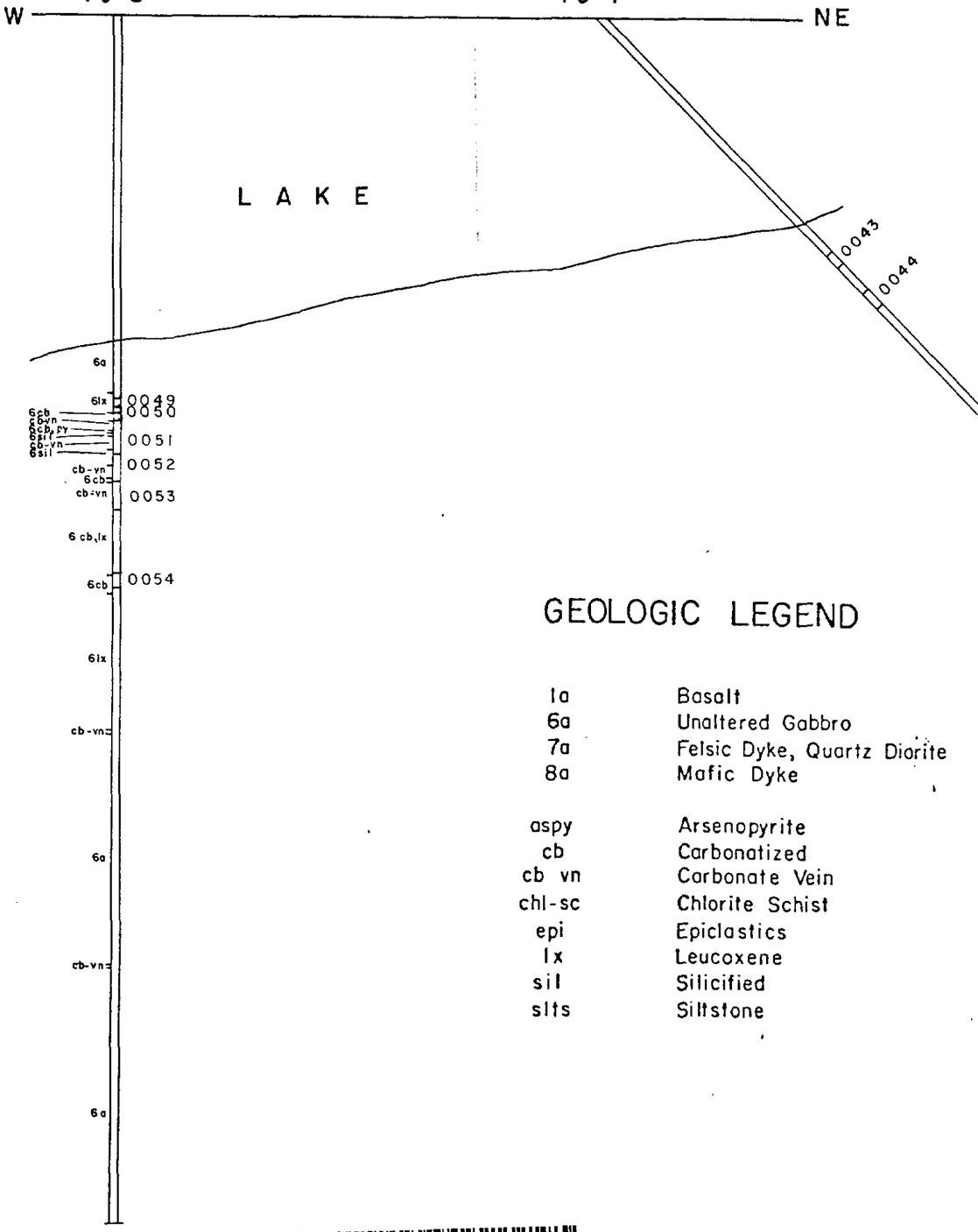
K743842
SNAKE BAY ONT 70
SOIL GEOCHEMISTRY
AU P.P.B. (WEST SHEET)
E.P. MORETON
52 F/8
N
300
2-1900

2.7900

1+00W B-Baseline, 60S

SW — FJ-8 — FJ-7 — NE



47.0m E.O.H.

71.0 m E.O.H.

GEOLOGIC LEGEND

1a	Basalt
6a	Unaltered Gabbro
7a	Felsic Dyke, Quartz Diorite
8a	Mafic Dyke
aspy	Arsenopyrite
cb	Carbonatized
cb vn	Carbonate Vein
chl-sc	Chlorite Schist
epi	Epiclastics
lx	Leucoxene
sil	Silicified
slts	Siltstone

ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY

FIJI ZONE

DDH SECTION FJ-7, FJ-8

ACCOUNT Nº M670 FILE NºONT. 70 TORONTO

DRAWN BY:	DATE	NTS
P. MORETON	MARCH '84	52 F/8
DWG. Nº 10,781	MAP Nº	

SCALE 1:200 0 10M

To Accompany A Report By:

Dated:

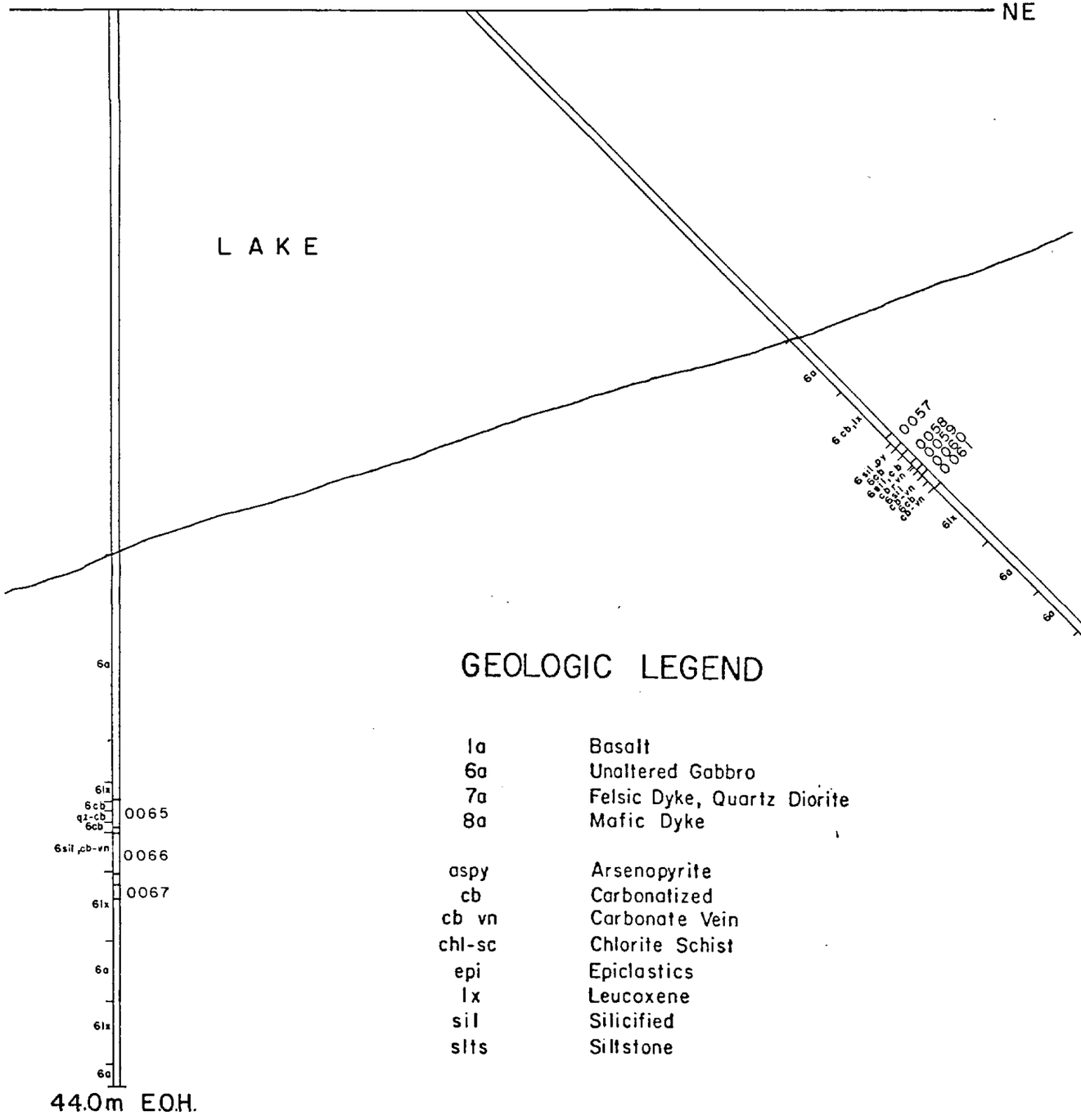
2.7900

0+75W B-Baseline, 75S
FJ-10

0+75W B-Baseline, 60S
FJ-9

SW — NE

LAKE



GEOLOGIC LEGEND

1a	Basalt
6a	Unaltered Gabbro
7a	Felsic Dyke, Quartz Diorite
8a	Mafic Dyke
aspy	Arsenopyrite
cb	Carbonatized
cb vn	Carbonate Vein
chl-sc	Chlorite Schist
epi	Epiclastics
lx	Leucoxene
sil	Silicified
slts	Siltstone

ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY

FIJI ZONE

DDH SECTION FJ-9, FJ-10

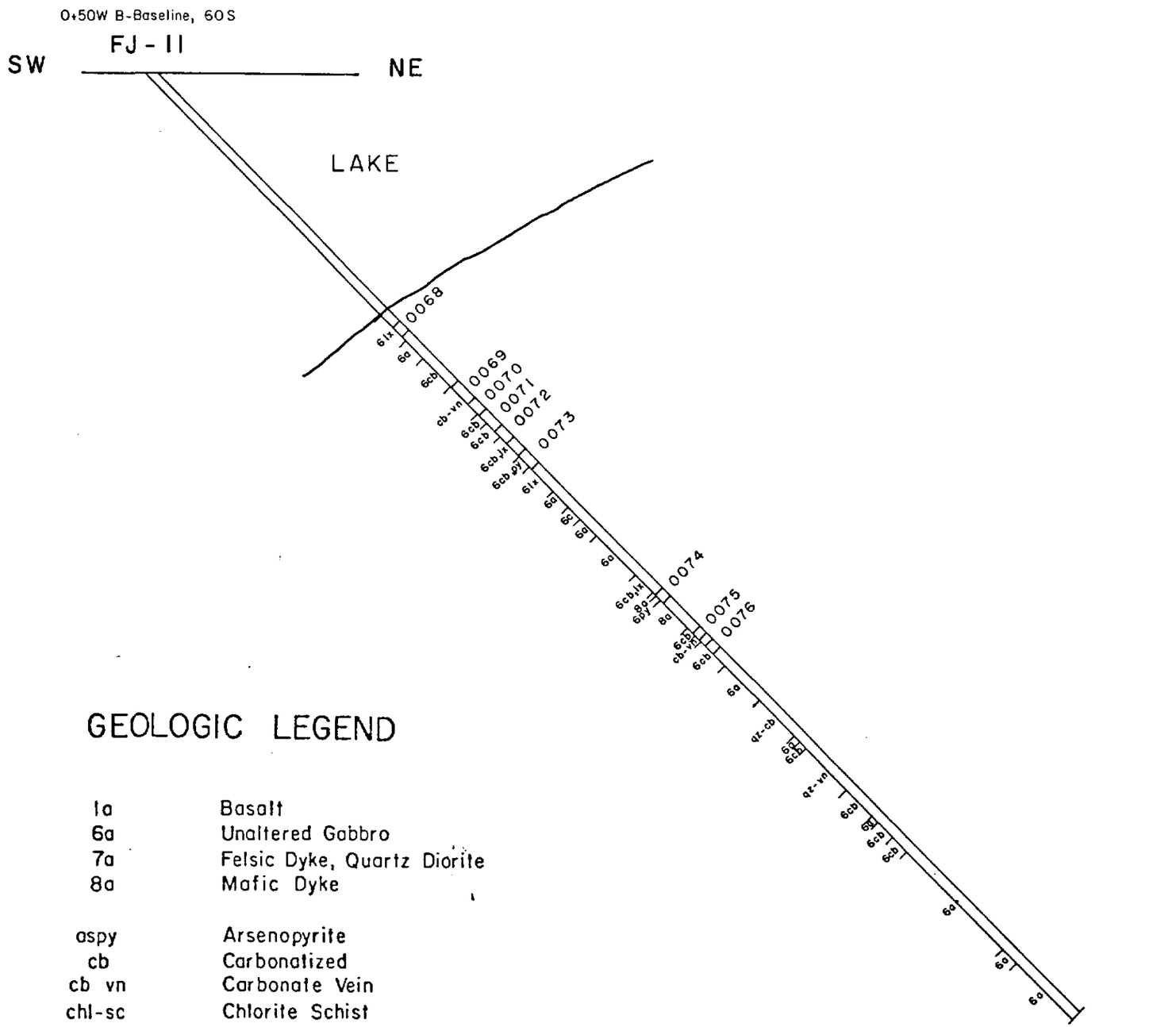
ACCOUNT Nº M670 FILE Nº ONT.70 TORONTO

DRAWN BY:	DATE	NTS
P. MORETON	MARCH '84	52F/8
DWG. Nº 10,782	MAP Nº	

SCALE
1:200 0 10M

To Accompany A Report By:
Dated:

0+50W B-Baseline, 60S



GEOLOGIC LEGEND

1a	Basalt
6a	Unaltered Gabbro
7a	Felsic Dyke, Quartz Diorite
8a	Mafic Dyke
aspy	Arsenopyrite
cb	Carbonatized
cb vn	Carbonate Vein
chl-sc	Chlorite Schist
epi	Epiclastics
1x	Leucoxene
sil	Silicified
slts	Siltstone

ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY

FIJI ZONE

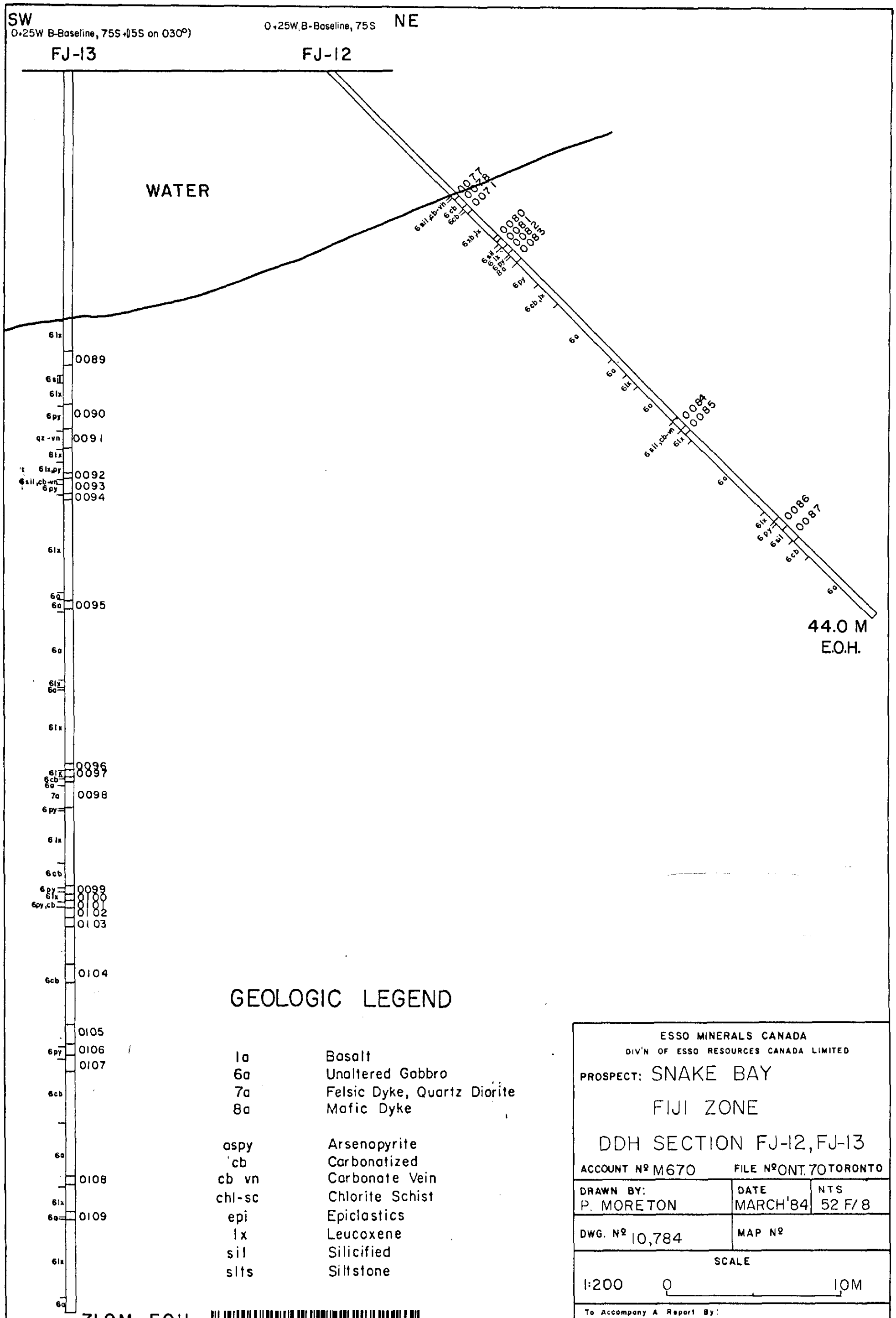
DDH SECTION FJ-11

ACCOUNT Nº M670 FILE Nº ONT.70TORONTO

DRAWN BY:	DATE:	NTS
P. MORETON	MARCH'84	52F/8
DWG. Nº 10,783	MAP Nº	

SCALE
1:200 0 10M

To Accompany A Report By:
Dated: 2.1900



GEOLOGIC LEGEND

1a	Basalt
6a	Unaltered Gabbro
7a	Felsic Dyke, Quartz Diorite
8a	Mafic Dyke
aspy	Arsenopyrite
cb	Carbonatized
cb vn	Carbonate Vein
chl-sc	Chlorite Schist
epi	Epiclastics
lx	Leucoxene
sil	Silicified
slts	Siltstone

ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY

FIJI ZONE

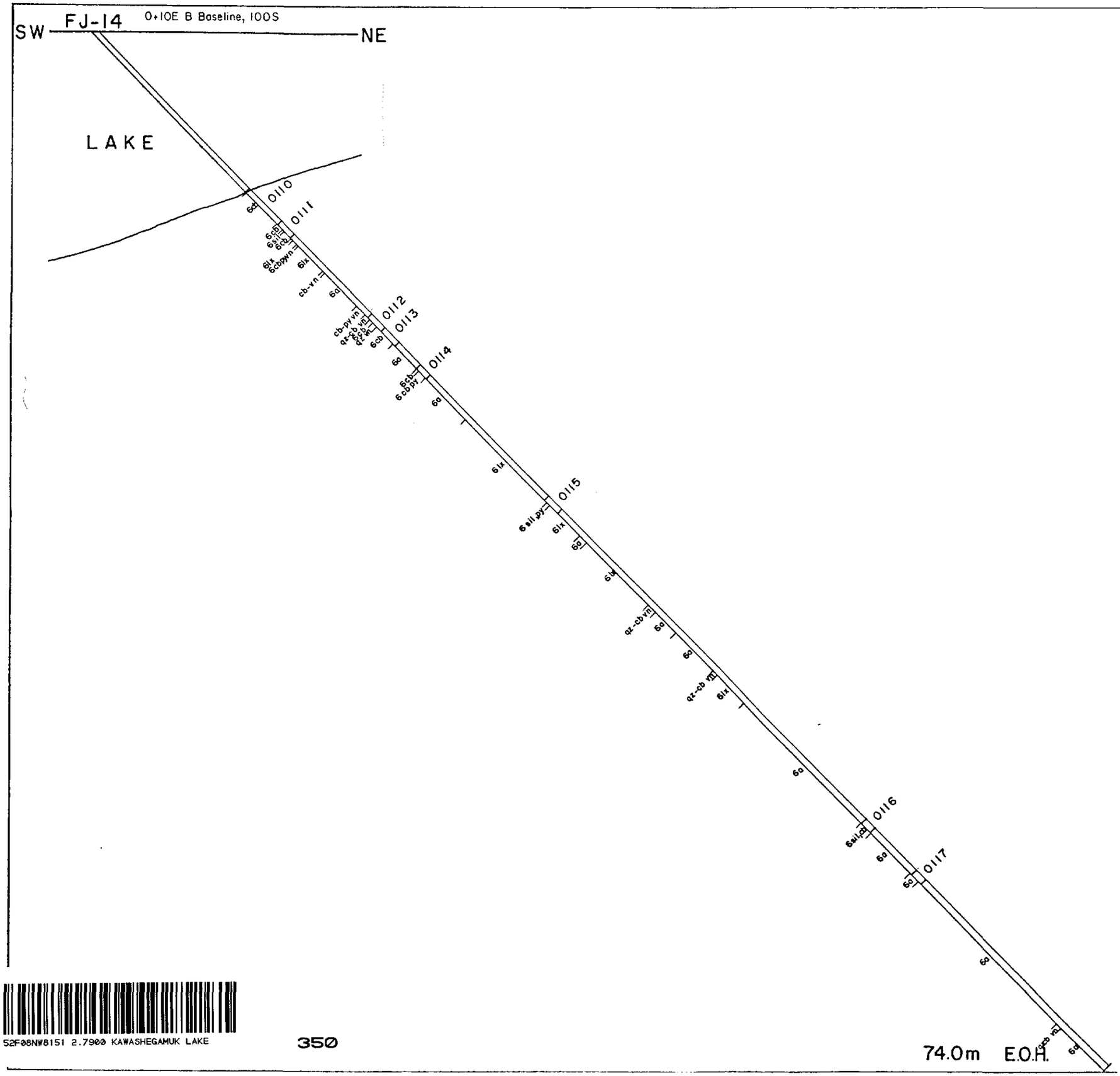
DDH SECTION FJ-12, FJ-13

ACCOUNT Nº M670 FILE Nº ONT. 70 TORONTO

DRAWN BY:	DATE	NTS
P. MORETON	MARCH'84	52 F/8
DWG. Nº 10,784	MAP Nº	

SCALE
1:200 0 10M

To Accompany A Report By:
Dated:



GEOLOGIC LEGEND

1a	Basalt
6a	Unaltered Gabbro
7a	Felsic Dyke, Quartz Diorite
8a	Mafic Dyke
aspy	Arsenopyrite
cb	Carbonatized
cb vn	Carbonate Vein
chl-sc	Chlorite Schist
epi	Epiclastics
lx	Leucoxene
sil	Silicified
slts	Siltstone

ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY

FIJI ZONE

DDH SECTION FJ-14

ACCOUNT Nº M670 FILE Nº ONT.70TORONTO

DRAWN BY:	DATE	NTS
P. MORETON	MARCH '84	52 F/8
DWG. Nº 10,785	MAP Nº	

SCALE
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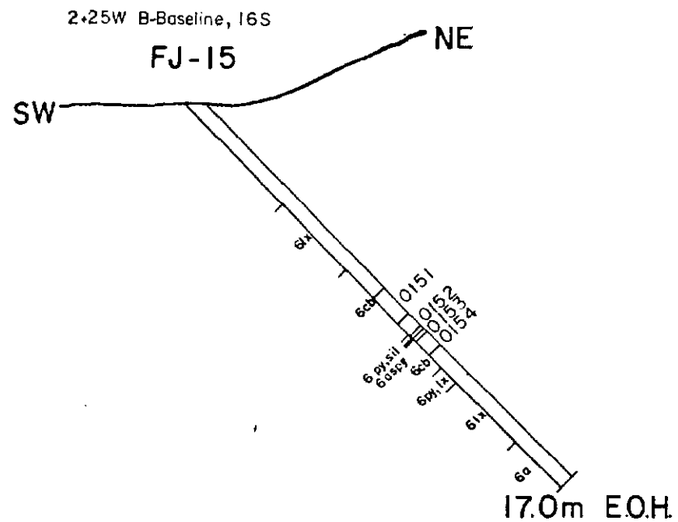
To Accompany A Report By:
Dated: 2-1980



GEOLOGIC LEGEND

1a	Basalt
6a	Unaltered Gabbro
7a	Felsic Dyke, Quartz Diorite
8a	Mafic Dyke
aspy	Arsenopyrite
cb	Carbonatized
cb vn	Carbonate Vein
chl-sc	Chlorite Schist
epi	Epiclastics
1x	Leucoxene
sil	Silicified
slts	Siltstone

ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY

FIJI ZONE

DDH SECTION FJ-15

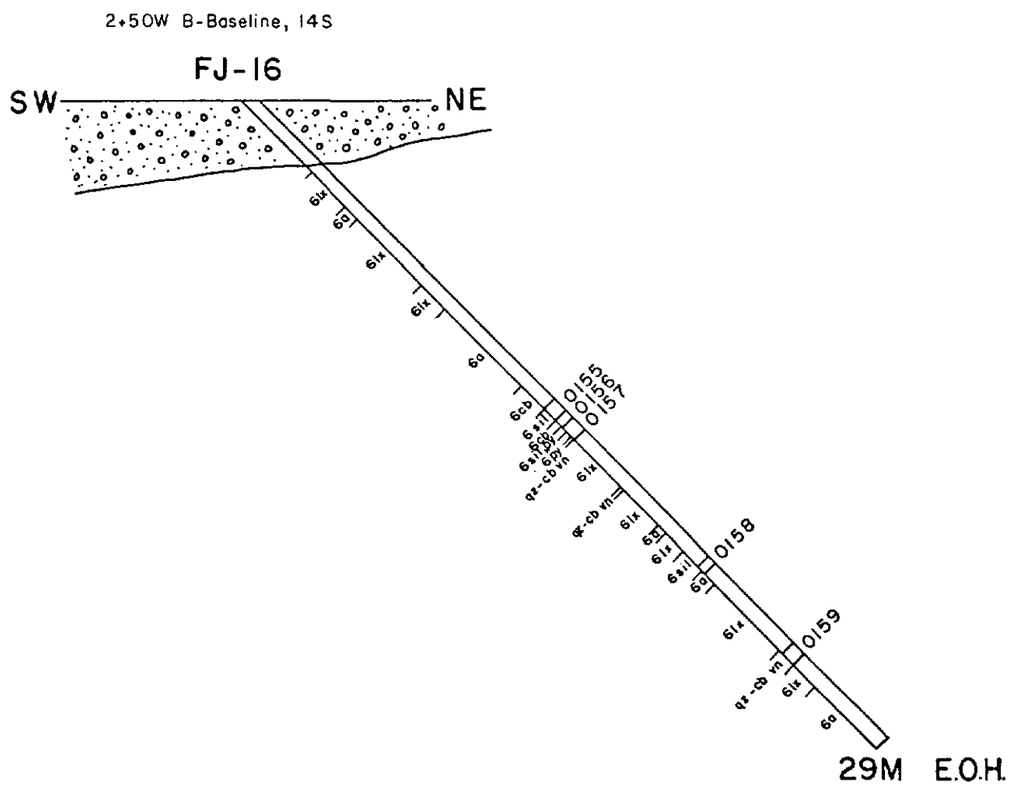
ACCOUNT Nº M670 FILE Nº ONT.70TORONTO

DRAWN BY:	DATE	NTS
P. MORETON / REG	MARCH'84	52F/8
DWG. Nº 10,788	MAP Nº	

SCALE
1:200 0 10M

To Accompany A Report By:
Dated: 2.7900

2+50W B-Baseline, 14S



GEOLOGIC LEGEND

1a	Basalt
6a	Unaltered Gabbro
7a	Felsic Dyke, Quartz Diorite
8a	Mafic Dyke
aspy	Arsenopyrite
cb	Carbonatized
cb vn	Carbonate Vein
chl-sc	Chlorite Schist
epi	Epiclastics
lx	Leucoxene
sil	Silicified
slts	Siltstone

ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY

FIJI ZONE

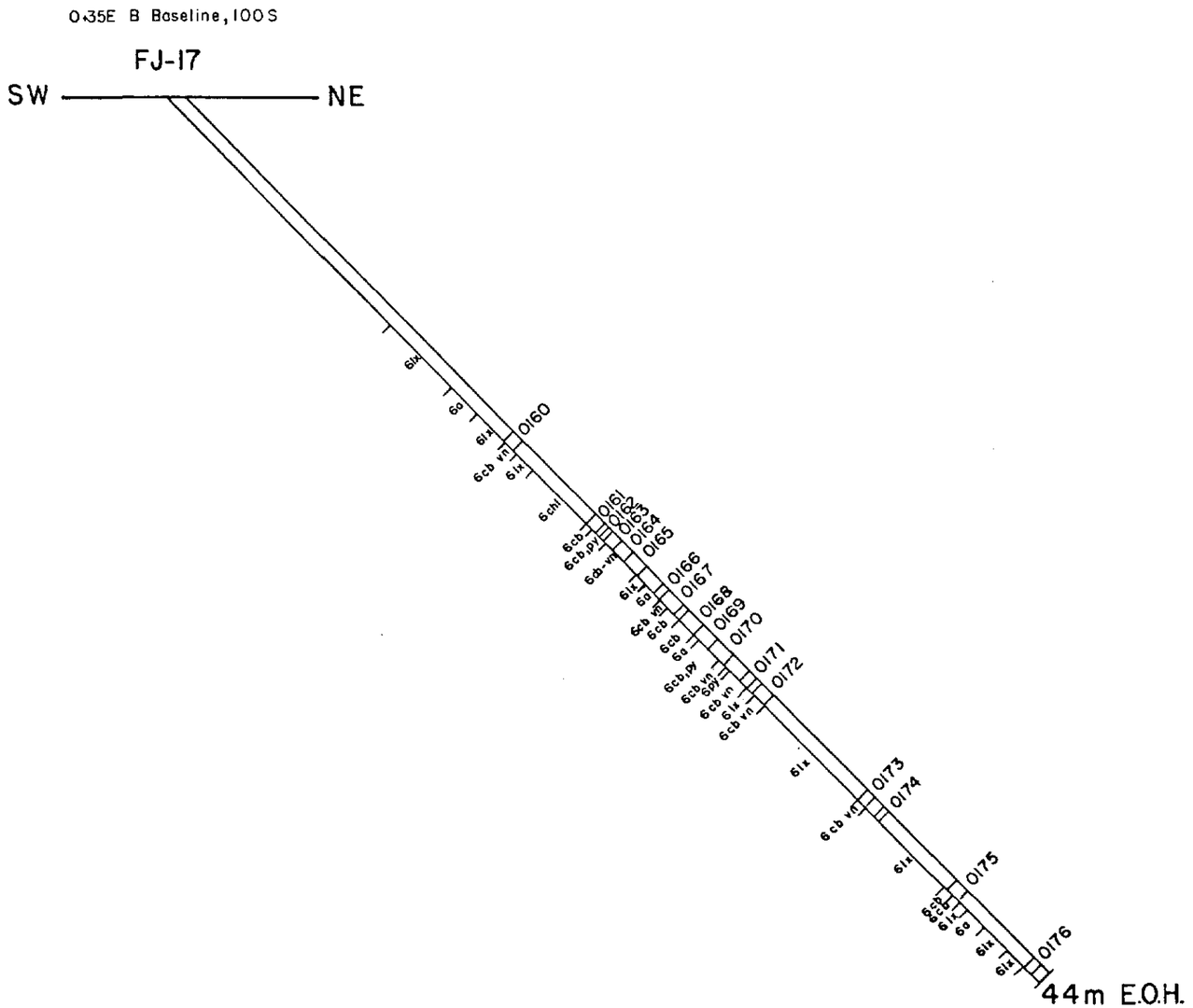
DDH SECTION FJ-16

ACCOUNT Nº M670 FILE NºONT.70 TORONTO

DRAWN BY:	DATE	NTS
P.MORETON/REG	MARCH'84	52F/8
DWG. Nº 10,789	MAP Nº	

SCALE
1:200 0 10M

To Accompany A Report By:
Dated: 2.1900



GEOLOGIC LEGEND

1a	Basalt
6a	Unaltered Gabbro
7a	Felsic Dyke, Quartz Diorite
8a	Mafic Dyke
aspy	Arsenopyrite
cb	Carbonatized
cb vn	Carbonate Vein
chl-sc	Chlorite Schist
epi	Epiclastics
lx	Leucoxene
sil	Silicified
slts	Siltstone

ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY

FIJI ZONE

DDH SECTION FJ-17

ACCOUNT Nº M670 FILE Nº ONT.70 TORONTO

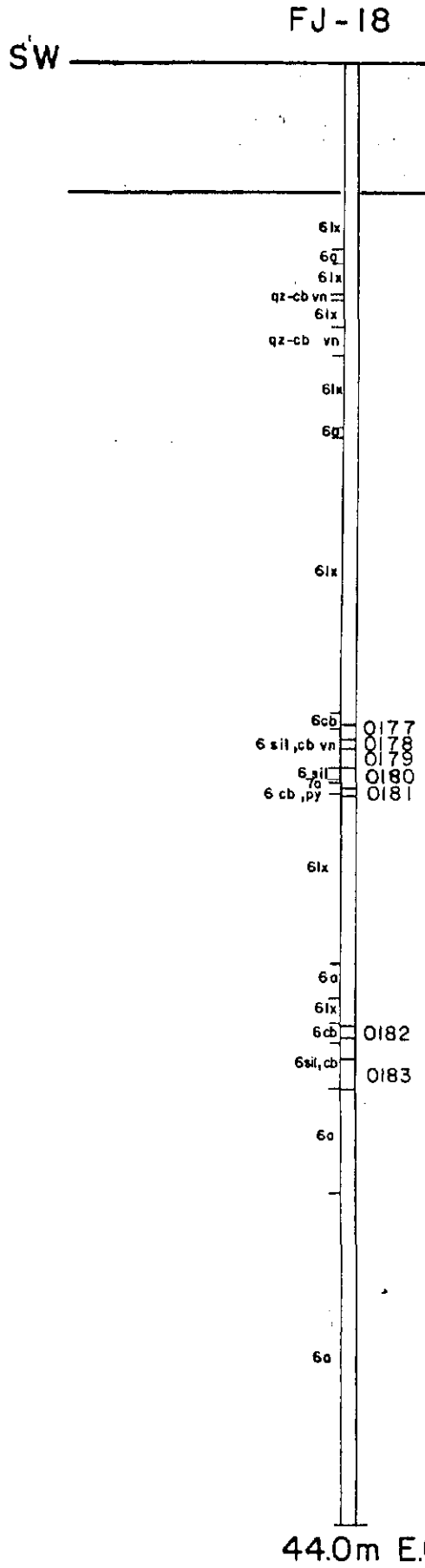
DRAWN BY:	DATE	NTS
P.MORETON / REG	MARCH '84	52 F/8
DWG. Nº 10,790	MAP Nº	

SCALE
1:200 0 10M

To Accompany A Report By:
Dated 2.1900

0-75E B-Baseline, 63S

FJ-18



GEOLOGIC LEGEND

1a	Basalt
6a	Unaltered Gabbro
7a	Felsic Dyke, Quartz Diorite
8a	Mafic Dyke
aspy	Arsenopyrite
cb	Carbonatized
cb vn	Carbonate Vein
chl-sc	Chlorite Schist
epi	Epiclastics
lx	Leucoxene
sil	Silicified
slts	Siltstone

ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY

FIJI ZONE

DDH SECTION FJ-18

ACCOUNT Nº M670 FILE Nº ONT.70TORONTO

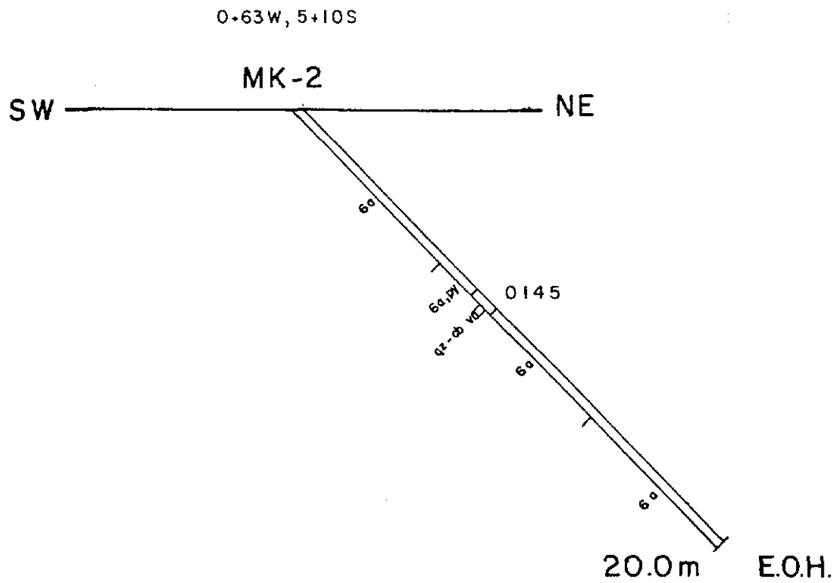
DRAWN BY:	DATE	NTS
P.MORETON/REG	MARCH'84	52F/8
DWG. Nº 10,791	MAP Nº	

SCALE 1:200 0 10M

To Accompany A Report By:

Dated:

2.7900



GEOLOGIC LEGEND

1a	Basalt
6a	Unaltered Gabbro
7a	Felsic Dyke, Quartz Diorite
8a	Mafic Dyke
aspy	Arsenopyrite
cb	Carbonatized
cb vn	Carbonate Vein
chl-sc	Chlorite Schist
epi	Epiclastics
lx	Leucoxene
sil	Silicified
slts	Siltstone

ESSO MINERALS CANADA
DIV'N. OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY
MAIN KATISHA

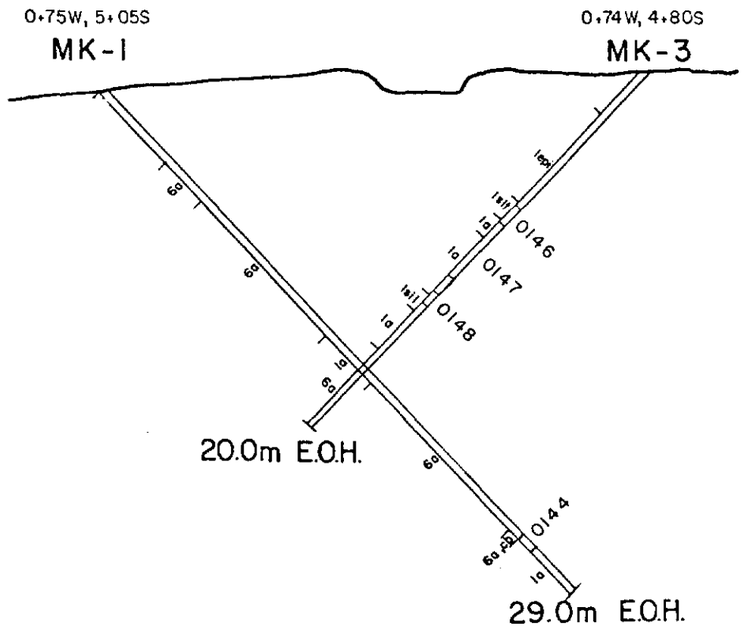
DDH SECTION MK-2

ACCOUNT № M670 FILE № ONT. 70 TORONTO

SCALE 1:200 0 10M DATE MAR. 84

AUTHOR P. MORETON | NTS 52F/8 | DWG. № 10,931

2.7900



GEOLOGIC LEGEND

1a	Basalt
6a	Unaltered Gabbro
7a	Felsic Dyke, Quartz Diorite
8a	Mafic Dyke
aspy	Arsenopyrite
cb	Carbonatized
cb vn	Carbonate Vein
chl-sc	Chlorite Schist
epi	Epiclastics
lx	Leucoxene
sil	Silicified
slts	Siltstone

ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY

MAIN KATISHA

DDH SECTION ZG-7, MK-1,3

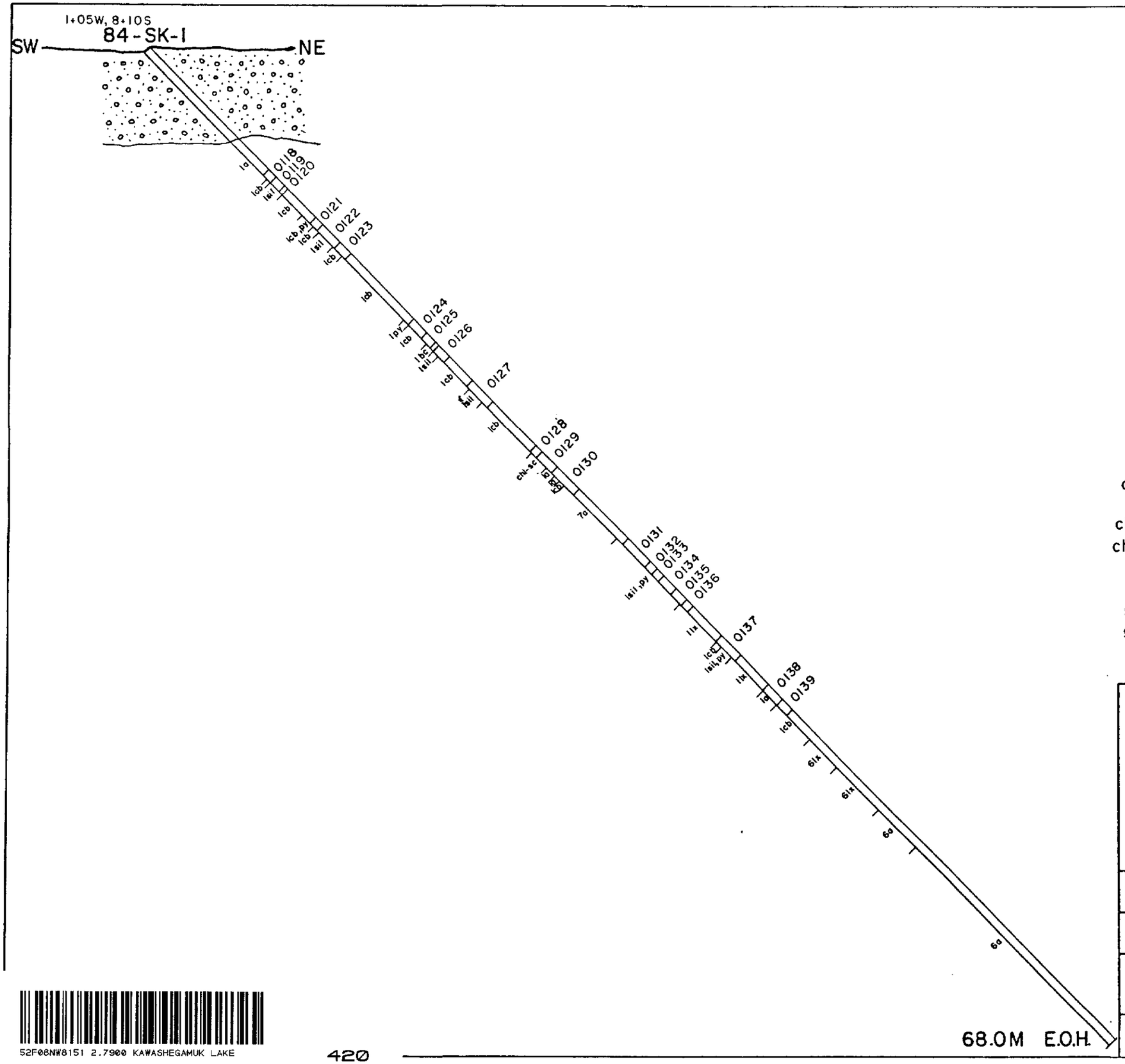
ACCOUNT Nº M670 FILE Nº ONT.70 TORONTO

DRAWN BY:	DATE	NTS
P. MORETON / REG	MARCH'84	52F/8

DWG. Nº 10,793 MAP Nº

SCALE
1:250 0 10M

To Accompany A Report By:
Dated: 2 1900



GEOLOGIC LEGEND

1a	Basalt
6a	Unaltered Gabbro
7a	Felsic Dyke, Quartz Diorite
8a	Mafic Dyke
aspy	Arsenopyrite
cb	Carbonatized
cb vn	Carbonate Vein
chl-sc	Chlorite Schist
epi	Epiclastics
lx	Leucoxene
sil	Silicified
slts	Siltstone

ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

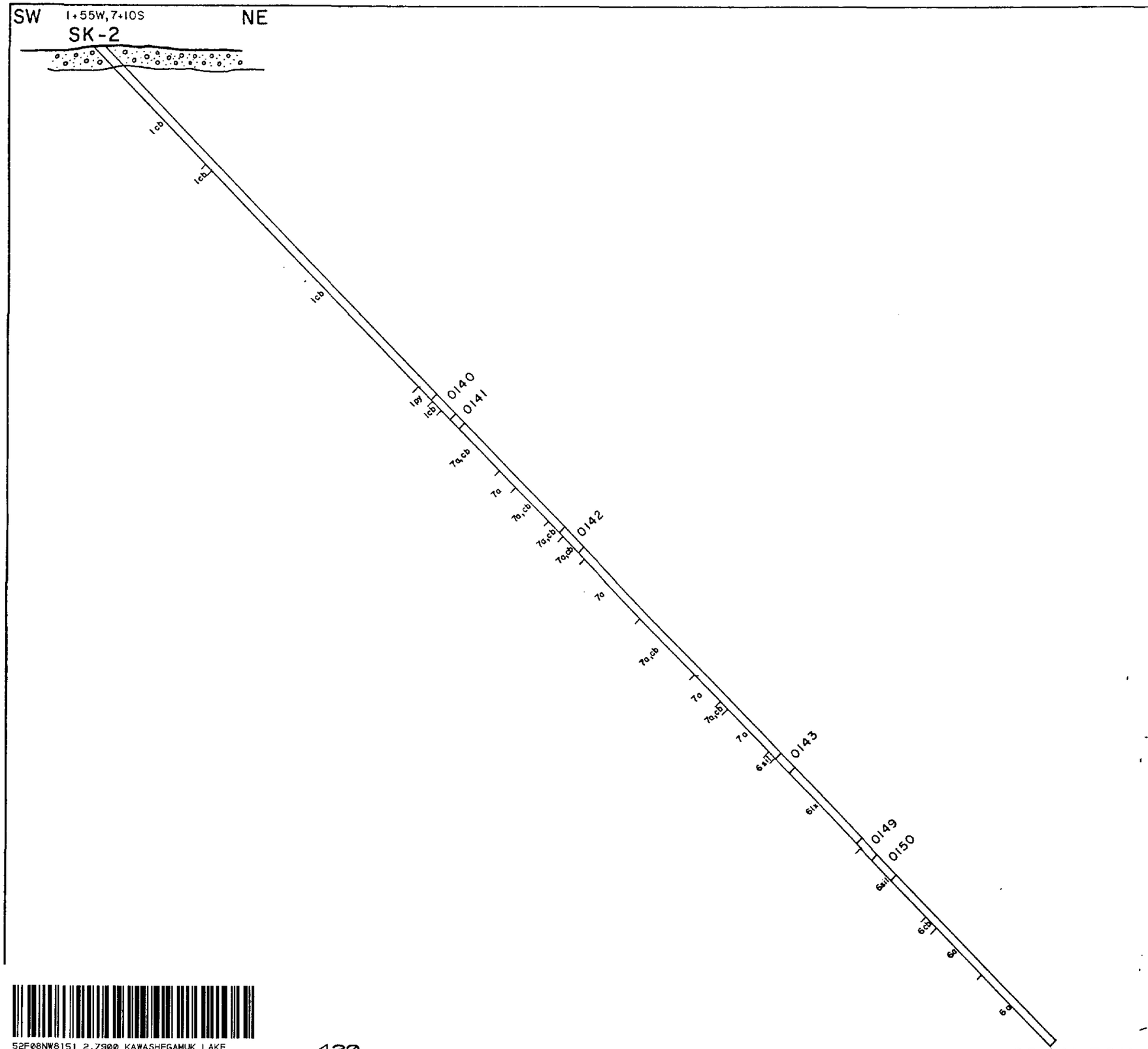
PROSPECT: SNAKE BAY
SOUTH KATISHA
DDH SECTION SK-1

ACCOUNT Nº M670 — FILE Nº ONT.70 TORONTO

DRAWN BY:	DATE	NTS
P. MORETON	MARCH'84	52 F/8
DWG. Nº 10,786	MAP Nº	

SCALE
1:200 0 10M

To Accompany A Report By:
Dated: 2.1900



GEOLOGIC LEGEND

1a	Basalt
6a	Unaltered Gabbro
7a	Felsic Dyke, Quartz Diorite
8a	Mafic Dyke
aspy	Arsenopyrite
cb	Carbonatized
cb vn	Carbonate Vein
chl-sc	Chlorite Schist
epi	Epiclastics
lx	Leucoxene
sil	Silicified
slts	Siltstone

ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY

SOUTH KATISHA

DDH SECTION SK-2

ACCOUNT Nº M670 FILE Nº ONT.70TORONTO

DRAWN BY:	DATE	NTS
P. MORETON	MARCH'84	52 F/8
DWG. Nº 10,787	MAP Nº	

SCALE
1:200 0 10M

To Accompany A Report By:
Dated 2.7900