010

Diamond Drilling

Area Kawashegamuk Lake Report Nº 21

Work performed by: Esso Resources Canada Ltd.

Claim Nº	Hole Nº	Footage	Date	Note
K 762809	FJ1	17m	Feb/84	(1)
	FJ2	23.5m	"	(1)
	FJ3	29m	"	(1)
	FJ4	38m	"	(1)
	FJ5	71m	"	(1)
	FJ6	35m	"	(1)
	FJ7	71m	"	(1)
	FJ8	47m	"	(1)
	FJ9	68m	"	(1)
	FJ10	44m	"	(1)
	FJ11	53m	"	(1)
	FJ12	44m	"	(1)
	FJ13	71m	"	(1)
	FJ14	74m	"	(1)
	FJ17	44m	Mar/84	(1)
	FJ18	44m	Mar/84	(1)
K 762805	MK-1	29m	Feb/84	(1)
	MK-2	20m	"	(1)
	MK-3	20m	"	(1)
	ZG-7	83m	Oct/83	(1)
	ZG-8	101m	"	(1)
K 762804	FJ15	17m	Mar/84	(1)
	FJ16	29m	"	(1)
	SK-1	68m	Feb/84	(1)
	SK-2	68m	"	(1)
	ZG-4	101m	Oct/83	(1)
	ZG-5	50m	Oct/83	(1)
K 762803	ZG-1	99.5m	"	(1)
	ZG-2	80m	"	(1)
	ZG-3	60m	"	(1)
	ZG-6	80m	"	(1)
	ZG-9	101m	"	(1)
	ZG-10	86m	Nov/83	(1)

Notes: (1) #43-85

THE SNAKE BAY DRILL PROGRAMME

OCTOBER 1983

JANUARY 16, 1983

File #16.70

Doc. #0202

P.A. TYLER

ESSO MINERALS CANADA

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INTRODUCTION

Ten BQ diamond drill holes, for a total of 841.5 m of drilling, were completed between October 19th and November 2nd by Longyear Canada Ltd. Borehole logs are attached, hole locations are given on Fig. 1 and results summarized on Table 1. The average cost was $62.31 per metre drilled.

Of the various zones located during the 1983 exploration programme, only the Zig, south Katisha and Main Katisha were drill tested. The Fiji Kawijekiwa and O veins will be tested in early 1984.

Results from the Zig and South Katisha confirm the low grades obtained from trenching. The South Katisha, however, was wider and stronger than surface mapping had indicated. Interpretation of results from the Main Katisha is complicated by a number of felsic dykes and further drilling is required.

A core logging and storage facility has been established at Pine Sunset Lodge, Dinorwic.

TABLE 1

SUMMARY SNAKE BAY DRILLING - OCTOBER 1983

HOLE #	ANGLE	AZIMUTH	DEPTH (M)	TARGET ZONE	SIGNIFICANT ASSAY (Oz Per t/m)	COMMENTS
ZG 1	45°	065°	99.5	Zig	0.04/0.9	Narrow zone of silicification in Carbonatized shear zone
ZG 2	45°	060°	80.0	Zig	0.03/0.65	
ZG 3	45°	245°	60.0	Zig	Nil	
ZG 4	45°	065°	101.0	South Katisha	0.02/0.70	Silicified zones adjacent to felsic dykes, in a pervasive zone of carbonatization
ZG 5	45°	065°	50.0	South Katisha	0.05/4.0	
ZG 6	45°	065°	80.0	Zig	Tr	As ZG 1 & ZG 2
ZG 7	45°	003°	83.0	Main Katisha & Portage	Tr	Narrow zones of silicification localized adjacent to felsic dykes, in zones of carbonization
ZG 8	45°	003°	101.0	Main Katisha	0.68/0.55	
ZG 9	45°	267°	101.0	Zig	0.03/1.00	As ZG 1 & ZG 2
ZG 10	45°	087°	86.0	South Katisha	0.02/1.10	As ZG 4 & ZG 5
			841.5			

Average of 30 m per shift

CONCLUSIONS AND RECOMMENDATIONS

The gold values obtained in the drilling were comparable to those obtained by surface sampling in both the Zig and South Katisha zones and in both these zones the surface and sub-surface geology could be related. This was not the case with the Main Katisha however, where the surface and sub-surface could not be connected and where the down-dip continuation of the zone was not located.

It is recommended that;

(i) Two further holes be drilled on the south Katisha structure, one 30 metres to the north of ZG 5 and the other 30 metres south of ZG 4, for a total of 160 metres of drilling.

(ii) At least three short holes, for a total of 60 metres of drilling, be drilled to better define the down-dip extension of the Main Katisha.

The regional and detailed geology of the Katisha area has been described in a report by Randy Hall, November 1st, 1983.

The three zones drill tested are localized along minor structural zones within a 350 m thick, differentiated gabbro sill. Within the structural zones the gold is localized within zones of silicification, which have overpinted an earlier, more pervasive carbonatization and sericitization. The gold is associated with pyrite, arsenopyrite and traces of chalcopyrite and sphalerite. Extensive zones of mariposite are developed in places and occasional Tourmaline has been noted.

1. THE ZIG ZONE

Where exposed, the Zig is a 5-20 m wide zone of sericitized, pyritized and silicified sheared meta gabbro within a wider, foliated structural zone striking at 340°. Channel samples ranged from 0.02 to 0.24 oz/ton Au over 50 cm. The average grade was 0.02 oz/ton Au.

To the south of the road drilling from the east, which would have allowed for shallower holes, was not possible because of the presence of cedar swamp.

ZG 1 and ZG 2 were collared 50 m apart to intersect beneath the north and south ends of the trenched area. Results are summarized on drill sections - Figs 2 and 3. A zone of strongly foliated and carbonatized gabbro 20 to 30 m wide corresponding to the surface feature was intersected in both holes. The zone contained narrow sections up to 2 m in width with a 20-90% silicification overprint and containing generally 5-10% disseminated pyrite. No aresenopyrite was noted. Four intersections of above trace were obtained; 0.01 oz/ton Au/0.95 m, 0.03 oz/ton Au/0.65 m, 0.015 oz/ton/3.50 m and 0.04 oz ton/0.90 m. All of these were within zones of silicification.

ZG 6 was collared 55 m south of ZG 2 and intersected the continuation of the same structural zone. However the intensity of both the foliation and carbonatization had decreased markedly. Two narrow zones of weak silicification with 1-2% pyrite were intersected, both assayed trace.

1. THE ZIG ZONE (Cont'd)

ZG 3 and ZG 9 were drilled to intersect the northern extension of the zone. ZG 9 was also part of a fence of twoholes between the Zig and South Katisha zones. ZG 3 intersected only weakly carbonatized metagabbro centred on a narrow zone of foliation, which seems to correspond to the eastern boundary of the foilated zone intersected in the holes to the south. ZG 9 intersected two zones of strong foliation. The most easterly of these contained three narrow zones of silicification with 1-5% pyrite. All assayed trace. Four close spaced 0.5 - 1 cm wide quartz/carbonate veins with Tourmaline, specks of disseminated chalcopyrite and minor mariposite were intersected in the westerly foliated section. A 1 metre sample centred on one of these veins returned an assay of .03 oz/t Au. The others assayed trace.

2. THE SOUTH KATISHA ZONE

Surface mapping had outlined a wide zone of pervasively carbonatized, sericitized and silicified metagabbro striking at 335°. Except for a single value of .06 oz/ton Au, sampling returned values of Nil to 0.02 oz/ton Au.

Three holes, ZG 5 north of the road and ZG 4 and 10 south of the road, have intersected the zone.

2. THE SOUTH KATISHA ZONE (Cont'd)

ZG 4 and 10, drilled approximately on section, intersected a zone of 20-90% silicification 14 to 23 m in width and dipping 45°-55° to the west. The silicification occurs at the base of a wider zone of pervasive carbonatization and is post-carbonatization in age. A number of thin banded or coloform carbonate veins were intersected. Many of these were silicified. Some of the silicified sections were brecciated and re-cemented with silica indicating a prolonged period of tectonism and mineralization. The silicified sections generally contain 2-5% pyrite. A 3m wide felsic dyke was intersected in both holes within the silicified zone. Gold values, generally associated with the most intensely silicified and pyritized sections, were sporadic and ranged between 0.01 and 0.02 oz/t Au.

ZG 5 intersected 18 m of similar alteration between 20.5 and 37.5 m, 5 m of which graded .04 oz/t Au from 20.5-25.5, including .09 oz/t Au over 1.2 m. This section is faulted to the west at 20.5 m with 0.5 m of sheared, Talcose silicified gabbro between 20.00 and 20.5 m. A carbonatized felsic dyke was intersected near the base of this section.

3. THE MAIN KATISHA ZONE

On surface the zone consists of a 10-300 cm wide zone of foliated, sericitized and pyritized rock striking at 300°, sub-parallel to the north contact of the metagabbro and the overlying metasedimentary rocks and striking into the metasediments at the eastern end of the trenching. The lamination in the metasediments dips 70° N.

The zone has been traced over a strike length of 100 metres. The channel sample results ranged from nil to 3.42 oz/ton Au, which averages to 0.21 oz/ton Au over 1.5 m for 42 m uncut or 0.07 oz/ton Au cut. The Au values are associated with silicification.

To the south of the Main Katisha at the eastern end of the zone as exposed, a discontinuous zone of sericitization and silicification is exposed, the Portage zone. The zone contains up to 10% pyrite with traces of sphalerite. Channel samples returned 0.10 to 0.50 oz/ton Au.

Two holes, ZG 7 and ZG 8, were drilled to test the down-dip extension of the zone-Fig. 6. This was not found in either hole either because;

i) The zone is dipping at 75° to the north on less. Surface mapping suggests this is unlikely.

3. THE MAIN KATISHA ZONE (Cont'd)

ii) The zone does not continue at depth, possibly having an en echelon relationship to the gabbro-epiclastic contact. If this is the case then the down-dip continuation of the contact and not the vein may be the target.

iii) The vein is cut-off or displaced along the felsic dykes intersected in both holes. The dip and strike of these is unknown and cannot be tied in with surface outcrop conclusively.

ZG 7 was collared to test for a possible down-dip extension of the portage zone. This was not seen in the core. A similar looking section, which averaged 0.25 oz/ton Au over 1.55 m, including 0.68 oz/ton Au over 0.55 m, was however intersected in ZG 8 between 13.05 and 14.60 m. Any up-dip continuation of this zone has not be seen on surface.

Short holes, drilled from the north, are planned for the winter 1984 programme.

APPENDIX I

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY ...SNAKE BAY..... LOCATION .....

NTS CODE ..... HOLE NO. ...Z.9.-1.....
99.5m

LATITUDE ...8+50.S..... AZIMUTH ....065°..... PURPOSE ..TEST Z19 VEIN

DEPARTURE ...2+40W..... DIP ....-45°..... STARTED .OCT. 19th 1983

ELEVATION ..... CORE ....BQ..... COMPLETED OCT. 20th 1983

SECTION ..... LOGGED BY .P.A.TYLER
PAT

REF. GRID .....

DIP TESTS

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

START 14 OCT 1983 [redacted] 8450S, 2+40W [redacted] HOLE NO [redacted]

DEPTH @ 99.5 M

PAGE 1 OF 5 P.A.T

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC. Structure	Min.	Alt	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
		0-2 No Recovery				
2		2-24.5 METAGABBRO				
		Massive, aquigranular, aphyric gabbro.				
		Grain size varying btwn fine (0.5mm) and				
5		medium (4mm). Mafics = amphiboles -				
		30-50%. Extensively altered to chlorite				
		with variable epidote/carbonate. Small				
	0.5-1mm	0.5-1mm pale leucocrene evenly				
		disseminated throughout.				
				9.3		
10		@ 10.5m minor fault - dip ~20° SCA				
10.5	fault	9.3-11.5 c.1% disem. py as euhedral	fault 20° SCA	11 Py.		
		xtals, centred on fault.		11.5		
	0.5-1mm	24.5-44 SHEARED/FOLIATED &				
		CARBONATISED METAGABBRO.				
		Primary textures destroyed due to				
15		well developed foliation and associated				
15.01	3-4mm	carbonate alteration. foliation largely				
17.33	0.5-1mm	non-fissile and due to alignment of				
17.53	3-4mm	alteration products, mainly carbonate				
19.4		& chlorite bands, wisps & lenses within				
20		plane of foliation. Generally 2-5% pale				
		pink to yellow leucocrene throughout.				
	1mm	24.5-33.3 foliation consistant @				
		around 40°. Non-fissile. &				
		@ 33.3 Minor talcose fault plane with				
24.5		1cm qtz/carb vn with blebs of disem. py.			Carbonatised	
25						

Weak carbonatisation.

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES--NO./FROM/TO/WIDTH/METALS AVGS.
25		33.2-35.8 as above but foliation	foln 40° SCA	
		increasing to 45°-55° SCA.		
		35.8-36.1 NARROW QUARTZ ± FELDSPAR VEIN.		
		60-70% quartz as irregular blebs &		
30		stringers not aligned along foliation,		
		(either post-foliation or brittled		
		subsequent to emplacement) with 20-30%	30° SCA fault 43° SCA	
33		strongly chloritised & carbonitised		
		gabbro. Foliated. About 5%		
35	35.25 Tr .01	tourmaline (schorl) as diffuse blebs		2301 23.0 35.25 2.25 .02
	35.8 Contacts	& stringers and disseminated needles, much	qtz/Tm vein	2302 35.25 35.80 0.55 Tr
	36.1 50° SCA .01	concentrated at boundaries of quartz	foln 45°-55°	2303 35.80 36.10 0.30 .01
	36.5 Tr	blebs. 5% pyrite, most irregularly		2304 36.10 36.50 0.40 .01
		distributed as blebs adjacent to QTZ.		2305 36.50 38.0 1.50 Tr
40		Trace arsenopyrite		
40.8		35.25-35.8 (Footwall) more strongly	foln 50-60° fmile	
		carbonatised with weak silic and narrow		
		tectonically disrupted QTZ veining		
43.4		2-3% dissem. pyrite. 3-5% leucoxene.		
44		36.1-36.5 carbonatised, weakly		
45		silicified with 5-10% dissem. py.		
46.3		36.5-44 (as 33.2-35.8)		
		44-66.94 MASSIVE METAGABBRO	foln 50-70° SCA	
		As 2-24.5m with v. weak		
50		foliation & carbonatisation.		

Structure | Mins. | Alt. | CARBONATISED | CARBONATISED | CARBONATISED

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
50			Structure / Min. / Alt.	
50.3		46.3–50.3 well foliated – 50–70° SCA, fissile. Carbonatized with variable		
		dissm. py up to 2%		
	1 mm			
55				
		66.94–67.55 FELSIC DYKE		
		see below (69.2–77.1) for descriptions.		
		Contacts sharp @ 48° – parallel &		
60		almost normal to foliation – ie. flat		
		dipping intrusion.		
		67.55–69.2 MASSIVE METAGABBRO		
		69.2–77.1 FELSIC DYKE		
	2–4 mm	Equigranular, aphyric (except for		
65		possible widely disseminated 3–5mm qtz		
		phenocrysts?). 66.94–67.55, & contacts		
66.94	0.5–1 mm	69.2 – 71 & 76–77.1, fine grained		
67.55		(0.5–1mm). Main part of dyke		
69.2		medium grained (1–2mm). Contacts	80–85° SCA	
70		irregular, probably sub-// to foliation,		
71.6		top @ 80–85° SCA & bottom 70–75°		
		SCA. Approx. 30% mafics, feldspars	A	partial bxtn.
		pale pinkish grey to white (pinks	A	
		associated with alteration?). Possibly	A	Carbonatized & lt. bxtn.
75				

DEPTH	LITH.	DESCRIPTION	STRUCT./ALT./ETC.	SPL NO FROM	FROM	TO			AVGS.
75			structure: Δ Δ; Alt: Minor pyrite; Min: disseminated pyrite						
76		perthitic ... Mafic generally fine-grained							
77		amphibolite	70°-75° sca						
		71.6 - 76 dyke partially brecciated							
		(largely shattering without rotation)							
80-80		associated with partial alteration							
		- carbonatisation with disseminated							
		haematite. Alteration penetrates							
		along brittle fracturing - late							
		hydrothermal system? feldspars							
86		largely pinkish within alteration							
		zone. Minor disseminated pyrite at							
		contact 76 - 77.1							
		77.1 - 80 MASSIVE METAGABBRO:							
		Variably foliated & carbonatised.							
		Disseminated leucoxene.							
90		80 - 99.5 FOLIATED METAGABBRO							
		Non fissile variably carbonatised;							
		80 - 84.5 weak.							
		84.5 - 88.7 20-30% carbonate mucha as		2306	94.2	95.2	1.0	Tr	
95		irregular & discontinuous lens - 1cm veinlets		2307	95.2	96.1	0.9	.04	
95.4 - 96.1		generally in plane of foliation. Minor QTZ		2308	96.1	96.6	0.5	Tr	
		mtk Carb. Minor disseminated py. Most assoc. with							
		veining.							
		88.7 - 91.3 weak carbonatisation with							
99.5		Minor veining & v. minor disseminated py.							
E.O.H.									

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
		91.3 – 95.2 Strongly carbonatised, much as diffuse alteration – minor veining. Minor dissm py – much concentrated adjacent to veins & veinlets.		
		95.2 – 95.4 c. 60% diffuse carbonate with minor silic. & 3-5% dissm py.		
		95.4 – 95.55 Silicified Gabbro with 5-10% dissm. pyrite		
		95.55 – 96.1 40-50% diffuse carbonate with patchy silicification & 5-10% py		
		96.1 – 99.5 (as 91.3 – 95.2) strongly carbonatised, mainly as diffuse patches with minor narrow veinlets. Minor dissm. py mainly concentrated along veinlets.		

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY SNAKE BAY LOCATION .....

NTS CODE ..... HOLE NO. ZG-2
80 m

LATITUDE 9+005 AZIMUTH 060° PURPOSE TEST ZG VEIN

DEPARTURE 2+30 W DIP -45° STARTED OCT. 20TH 1983

ELEVATION ..... CORE BQ COMPLETED OCT. 22nd 1983

SECTION ..... LOGGED BY P.A. TYLER
PAT

REF. GRID .....

DIP TESTS

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

[redacted] NO [redacted]9-[redacted]

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	Stockwk	Alt	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS					AVGS.
		0–2 No recovery									
2		2–14.7 MASSIVE METAGABBRO									
		Variable grain size 0.5mm – 3mm, equigranular, aphyric. Highly altered, carbonate, epidote & chlorite with small									
5		xtals pale creamy leucoxene. Occassional 1 – 5mm qtz+/carb veins, variable									
		dips & strikes. 13 – 14.7 gradual									
		increase in carbonate with development									
		of "microbreccia" textures in part. Traces									
10		Py.									
		14.7 – 14.78 Sheared zone - dip 40-45° SCA									
820											
		14.7 – 66.5 SHEARED / FOLIATED									
14.7		CARBONATISED & SILICIFIED METAGABBRO	40-45°								
15		Primary textures destroyed. Foliation									
		largely non-fissile due to alignment of	foln								
		alteration products mainly carbonate &	44-35 SCA								
		chlorite.				2309	20.6	21.1	0.5	Tr	
20		14.7 – 20.6 – carbonatised only. foln				2310	21.1	21.8	0.7	Tr	
20.6	Tr	varying between 35° & 44° SCA, increasing				2311	21.8	23.6	1.8	Tr	
21.1	Tr	45° – 50° 20.2 – 20.6. C 30% carbonate	foln 40°			2312	23.6	25.0	1.4	Tr	
21.8	Tr	overall	40-45°		Tr Py	2313	25.0	26.8	1.8	Tr	
23.6	Tr	20.6 – 21.1 As above but with minor									
		silicification. foln @ 40° SCA. C 1-2% disseminated	35-40°		5% py						

Strongly carbonatised

Dyke

Weak carbonatisation

[redacted] HOLE NO. [redacted]S-[redacted]
PAGE 2 of 6

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS	AVGS.
15		20.6–21.8 Mafic dyke. Dark grey, fine grained intrusive – gr. size 0.5 mm & less with 1.5 mm – 3.0 mm phenocrysts of quartz. Intruded along foliation – Top contact 30°, lower contact 36°. Pre-silicification.	foln 40° Minor Py. 20° sCA 5–10% Py. Structure: FAULT ZONE WITH GOUGE; Alt: CARBONATE + Minor silic; Min: Tr + Py. 30°–40° sCA; Alt: CARBONATE + Minor silic; Min: 5–10% Py. 25°–45°; Alt: CARB; Min: 2–3% Py. CARB; Min: 1% Py; Min: 3–5% Py; Alt: 160–192 CARB; Alt: 120–132 CARB; Alt: V. Minor Carb only; Min: >1% Py; Min: 5–10% Py; Alt: CARB	2314 20.6 21.8 1.2 Tr 2315 21.8 23.6 1.8 Tr 2316 23.6 25.0 1.4 Tr 2317 25.0 27.6 2.6 Tr 2318 27.6 28.8 1.2 .01 2319 28.8 30.3 1.5 Tr 2320 30.3 31.8 1.5 .03 2321 31.8 33.3 1.5 Tr 2322 33.3 34.8 1.5 Tr 2323 34.8 36.3 1.5 Tr 2324 36.3 37.8 1.5 Tr 2325 37.8 39.3 1.5 Tr 2326 39.3 40.8 1.5 Tr 2327 40.8 42.3 1.5 Tr 2328 42.3 43.8 1.5 Tr	
20					
25					
30					
35					
40					
45					
50					

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
50		27.6 – 32.45 Carbonatised – foliated @ 30-40°	Structure: ⇌ Min: 2-3% py Alt: 40-70% carbonatised	
		SCA 29.6 – 30.7 occurs. 1.6 – 3.8 cm QTZ		
	Leucocrat	veins // foliation. Tr. pyrite. 30.7 – 32.5	1% Py.	
53.1	↑	80% QTZ veining, 20% highly chloritised, foliated		
	Ilmenite (0.5-1mm)	gabbro. 30.7 – 31.3 2cm – 16cm QTZ veins with		
55		1cm sheared chloritic partings, partially		
55.8	↓	Silic. mlt. dissm. py. Minor tourmaline with	Weak carbonatisation	
	Leucocrat	QTZ 31.3 – 31.45 chloritic parting, 31.45 – 31.50		
		QTZ vein 31.50 – 31.60 chloritic, 31.60 – 31.95		
	0.5-1mm	QTZ vein / minor tourmaline, 31.95 – 32.0 chloritic,		
60		32.0 32.25 – 32.26 QTZ VN, 32.25 – 32.45 fault zone		
	Leucocrat	sheared & gauged chloritic zone		
66		32.45 – 33.3 Silicified, foliated ≠		
66.6	0.5-1mm Ilmenite 2-5mm	carbonatised gabbro. Silic pervasive	45° SCA normal to foln	
65		ca. 70% – 80% overall foln 45° – 55° SCA.		
		Small haematised carb. patches, c 5-10%		
		dissm. py. Discon xtals leucocrat.		
	1-1.5mm + 2.5mm	33.3 – 34.45 Dark chloritised & carbonatised		
	QTZ veins x-cut	foliated gabbro foln 35° – 45° SCA. c. 2%		
70		dissem leucocrat 2-3% finely dissm py		
		Occurs 1-3 cm irregular QTZ veins	Dissm. Haematite + Minor carbonate.	
		and folded. foln disrupted / by steep S-rolling shears.		
72.1			50° SCA normal to foln	
	Ilmenite	34.45 – 35.10 pervasively silicified, foliated		
		gabbro. Almost 90% silic with minor		
74.2	Leucocrat	Carbonate, chlorite and dissm leucocrat.		
76				

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC. STRUCTURE	MIN	ALT	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
75		ilmenite + leucocene				
		5-10% dissm py. fol'n 35°-45° sCA.				
		35.40 - 39.7 Carbonatised, foliated				
77		gabbro. Carbonatisation decreasing from	fol'n 45°-55° sCA			
		60-70% @ 38m to 20-30%. 36.63-36.9				
		0.5-2mm zone of intense carbonatisation with minor				
80		silicification and 3-5% dissm. py. Generally				
	E.O.H	py @ ≤1% or less. Dissem leucocene throout.				
		fol'n @ 35°-45° occasionally up to 55° sCA.				
		39.7 - 45.4 Weakly foliated gabbro. Some of				
		foliation may be original fabric of gabbro due				
		to orientation of feldspar laths // to sill				
		contacts. 39.7-42.7 weakly carbonatised				
		throout most of ilmenite has been altered to				
		leucocene, although is presence in small patches.				
		42.7-45.4 carbonatisation weaker and				
		most of ilmenite is preserved. Leucocene /				
		ilmenite c. 2-3% overall. Gabbro				
		grain size varying btwn 1-2 mm				
		45.4 - 47.8 foliated, carbonatised gabbro				
		2-3% leucocene, >1% py. fol'n @ 55°-65° sCA.				
		47.2-49.8 Silicified, foliated gabbro c. 70%				
		silic 5-10% dissm. py. 2-3% leucocene				
		48.1 - 48.35 1 veg. QTZ vein with tourmaline				
		fol'n not strongly developed @ 55°-65° sCA.				
		49.0 - 53.1 Weakly foliated, carbonatised				

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES--NO./FROM/TO/WIDTH/METALS AVGS.
		gabbro - 60-70% carb. decreasing below		
		52m. 2-3% finely disem. py throughout		
		decreasing to >1% below 52m. 2-3%		
		leucoxene.		
		53.1-55.8 Massive, unfoliated gabbro		
		2-3% ilmenite, unaltered. Gr. size 0.5-1.0mm.		
		No igneous fabric.		
		55.8-65 V. weakly foliated, carbonatized		
		gabbro. 2-3% leucoxene. Gr size		
		generally 0.5-1mm.		
		65-66.5 Massive, largely unaltered		
		gabbro. 2-3% ilmenite. Gr size 65-65.75		
		0.5-1mm & 65.75-66.5 3-5mm		
		66.5-72.1 Felsic dyke (is 69.2-77.1 in 29-1)		
		Equigranular, medium grained ~~to~~		
		1-1.5mm, weakly porphyritic with well		
		scattered 2-6mm phenocrysts of qtz.		
		Mafics up to 30%. Contacts fine		
		grained, top dips 45° SCA, bottom @		
		50° SCA. Minor hematitic alteration		
		as widely disem. specks. Contacts		
		normal to foliation.		
		72.1-74.2 massive, largely unaltered		
		gabbro. 2-3% ilmenite. Gr. size 3-5mm ~~medium~~		
		becoming finer with depth 1-2mm.		

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
		74.2 - 77 weakly carbonatized gabbro. Ilmenite partially altered to leucoxene.		
		77 - 80 Carbonatized & weakly foliated gabbro. 2-3% leucocrans. foln 45°-55° SCA. Gr. size varying 0.5 - 2.0 mm.		
		80m. E.O.H.		

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY ..SNAKE..BAY..... LOCATION .....

NTS CODE ..... HOLE NO. ..ZG-3.....
60 m

LATITUDE ..7+90S..... AZIMUTH ...245°....Magn. PURPOSE TEST. ZIG VEIN

DEPARTURE ..2+25W..... DIP .....~~Hor.~~ -45°..... STARTED ..22nd Oct. '83

ELEVATION ..... CORE ..... COMPLETED 23rd Oct. '83

SECTION ..... LOGGED BY ..P.A.TYLER.
PAT.

REF. GRID .....

DIP TESTS

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

[redacted] E N[redacted]9-[redacted]

PAGE 1 of 3

DEPTH	GRAPHIC LOG LITH.		DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES--NO./FROM/TO/WIDTH/METALS AVGS.
				Structure Min Alt.	
0			0-7 Overburden. Small pebbles		
			of epiclastics & gabbro recovered.		
			7-10.45 fine grained (0.2-0.5mm)		
			equigranular, aplyric metagabbro.		
5			less ilmenite than usual >1%, much		
			concentrated with minor pyrite in		
			little irregular veinlets. Possibly intrusive		
7.0			into coarser gabbro, with fine grained		
		0.2-0.5 mm.	contact @ 10.45m. V. minor carbonatization.	ilmenite	
10			Contact @ 10.45 @ 40° sca		
10.45				40° sca	
10.8		0.5-1.0 mm.	10.45 - 10.8 fine gr. metagabbro	leucocratic with contact	
			0.5m - 1.0mm. Weak alteration - 2-3%		
		0.2-0.5 mm.	pale leucocratic foliated adjacent to		
			dyke contact - foln crenulated - 30° sca.		
15			10.8 - 15 Qtz Porphyry fine grain		
			0.2 - 0.5 mm grey-green intrusive, with		
			v.d.l scattered qtz phenocrysts generally		
			1 - 2mm, occas. up to 4mm.		
			Contacts irregular, steep dipping.		
20			15.0 - 29.3 fine grained - >5mm increasing		
			in part to 0.6 - 1mm. Medium green		
			gabbro. Contains minor quartz - >0.5% -		
			and very little ilmenite most of which		
			is concentrated along thin irreg. discontinuous		
			carb. veinlets. V. minor diss. py.		
25					

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
25			structure · Min · Alt	
		29.3 – 33.5 Fine grained, equigranular anorthositic phase of gabbro. Gr. size 0.5–1mm, increasing to 1–2mm btwn 29.5 & 30.5 Contacts with gabbro top and bottom sharp to slightly diffuse dip 45° sca. 70% feldspar, 30% mafics. 10cm. carb. shear zone @ 31m. Dip 45° sca	shear zone 45° sca	carb.
29.3		0.5–1mm		
30		1–2mm		
33.5		0.5–1mm		
35		33.5 – 60 fine-medium grained (0.5–1.5mm) massive, equigranular gabbro. 33.5 – 33.8 1–2% disem. ilmenite. 33.8 – 36.7 v. minor ilmenite mainly associated with thin discontinuous veinlets. Occassional grains of quartz noted. Carbonatised throughout, increasing generally below 36.7. 36.7 – 45.2 Generally 20% carbonate as variable, discontinuous and often irregular thin carbonate veins pale green/cream in colour. Dips vary from 30°–70° generally. Variable strikes commonly sub ∥ to foln, which is poorly developed at 45°–50° sca. Often carbonate as diffuse, disem. patches generally 1–3mm across. These tend to increase		wisp carb.
40			foln 45°–50° sca	
45			weak foln	20% 0.5–1.5 cm
45.2				
45.2				20% 1–2 cm
90				

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
50		adjacent to veinlets and many veinlets are formed by coalescing of patches.*		
		45:2 – 48:3 Weakly foliated Hmont. Carbonatized as above ~20% overall.		
55		48:5 – 60 Massive carbonatized metagabbro Occasional foliation, minor veining, 15–20% carb. overall.	15%–20% Carb	
60	EOH			

* Thin early white carbonate veinlets with ilmenite still observable in part.

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY ..... LOCATION .....

NTS CODE ..... HOLE NO. ....29-84.....
101 m

LATITUDE ..7+84.S..... AZIMUTH ....065°..... PURPOSE TEST..SOUTH KATISHA VEIN

DEPARTURE ...1+24.W..... DIP .....45°..... STARTED 23/10/83....

ELEVATION ..... CORE ....89..... COMPLETED 24/10/83..

SECTION ..... LOGGED BY ..P.A.T....
PAT.

REF. GRID .....

DIP TESTS

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

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS	AVGS.
		0-2 No Recovery			
2		2- Pervasively carbonatized,			
		massive, equigranular, aplyric gabbro.			
		0.5-1.0mm this is suggested by presence of leucoxene after		2329 3.0 4.2 1.2 Tr	
5		ilmenite. 2-5.7 0.5-1.5 mm gr. size. Carbonatized			
5.7		with finely disseminated leucoxene. 1-4mm number			
		of irregular, diffuse carb-qtz veins at 65-90°			
		to CA. These contain 1-2% fine disseminated py stringers			
		and diffuse blebs. V. minor disseminated carb.			
10	0.2-0.5 mm	gabbro		>0.5% py	
		8.7-14.2 fine grained, pale grey-green			
		evenly carbonatized gabbro. 0.2-0.5 mm			
		gr. size. 12.8-13.3 possible primary			
		banding @ 58° to CA. Minor, variable generally	banding 58° to CA	2330 13.2 14.2 1.0 Tr	
14.2		0.5-5 mm carb. veins. Many have	alt alb+carb vn.	2331 14.2 14.6 0.4 Tr	
14.6		narrow 1-2 mm margins of chloritized		2332 14.6 16.25 1.65 Tr	
15	0.5-1.0mm	gabbro and disseminated pyrite occurs in many.		2333 16.25 16.80 0.55 Tr	
16.5		Less than 0.5% disseminated py occurs in the carb.	45°-50° to CA	2334 16.80 18.3 1.5 Tr	
	0.5-1.0mm	gabbro, occasionally increasing and forming		2335 18.3 19.8 1.5 Tr	
	0.2-0.5 mm	diffuse blebs		2336 19.8 21.3 1.5 Tr	
20				2337 21.3 22.8 1.5 Tr	
21.2		14.2-14.6 Completely altered gabbro. 40%		2338 22.8 24.0 1.2 Tr	
		weakly colloform carbonate as irregular			
	0.5-1.0mm	blebs & veins generally 1-2 cm across.		2339 24.0 24.7 0.7 Tr	
		60% as highly carbonatized gabbro		2340 24.7 25.0 0.3 Tr	
24.0					
24.9	0.2-0.5	rock partially to completely silicified.			
25					

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS	AVGS.
25		Carb. veining – also partially replaced by silica – wisps as 1 mm irregular ladder veinlets. 2-3% finely dissem. py throughout – most in silica-natural between carb.	structure / Min / Alt	2341 25.0 26.5 1.5 Tr 2342 26.5 27.3 0.8 Tr 2343 27.3 27.9 0.6 Tr 2344 27.9 29.0 1.1 Tr	
27.0					
30		14.6-16.23 Pervasively carbonatized gabbro as 5.7-14.2. Gr size 0.5-1 mm. V. weakly foliated @ 45°-50° sca. Numerous 0.5-2 cm coloform carb. veins with small QTZ-ladder veins. Contacts irregular-reniform. Dips // to foliation 45-50° sca. 1-2% dissem. py throughout. Concentrations tend to occur in and adj to many of the carb. vns. Occas. 0.5-1 mm pyrite-chalcopyrite veinlets occur // foliation.	1-2% py Minor py 2-3% py Minor py 1% py 2% py	2345 29.0 30.0 1.0 Tr 2346 30.0 31.0 1.0 Tr 2347 31.0 32.1 1.1 Tr 2348 32.1 33.3 1.2 Tr 2349 33.3 34.1 0.8 Tr 2350 34.1 35.6 1.5 Tr 2401 35.6 37.6 2.0 Tr	
30.7	fault		45° sca		
34.1					
35	0.5-1.5 mm				
36.6					
37.0			foln 60° sca		
37.6	0.5-1.5 mm		30° sca		
40	1-2 mm + 5 mm qtz phenocrysts	16.25-16.8 As above but weakly foliated, more intensely carbonatized to pale grey-green colour. Some coloform carb. vns with QTZ ladder veins. 2-3% dissem. pyrite. foln 45°-50° sca.	Shears @ 30° sca		
41.2			25° sca	2402 41.2 42.0 0.8 .01	
42.0			5% py	2403 42.0 42.7 0.7 Tr	
42.7			0.5% py	2404 42.7 43.9 1.2 .01	
45		16.8-21.2. (as 14.6-16.25) fn. gr. 0.2-0.5 mm. Pervasively carbonatized with narrow zones of weak silica centred on narrow coloform carb. bands/veins which are often silica-hematized. 16.8-19.15 small 0.5-2.0 cm coloform carb. vns. @ 1-2% py to 17.4 m	50% coloform carb. vns 5% py 1% py 3-5% py 1-2% py	2405 43.9 45.2 1.3 .01 2406 45.2 46.4 1.2 Tr 2407 46.4 47.8 1.4 Tr 2408 47.8 48.4 0.6 Tr	
46.4					
47.8	0.5-1.5 mm		v. weak carb		
50					

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS	AVGS.
50		>1% 17.1m – 18.15m ... numb cons. in and adj	V. weak carb		
		to veins. 18.15 – 18.25 partially silic and			
53.0		are veined colojorm carb vein. 18.25 – 19.7			
	>0.5 mm	Occurs v. irregular colojorm carb veins.	Basalt xenolith?		
54.5				2409 54.65 54.95 0.4 Tr	
56-54.65	0.5-1.5	Minor silic ... y veinly ad adj carb. gabbro.	1% Py Weak Carb		
55.65		>1% py. mod concentrated in vein zone	5% Py (2-10%)	2410 54.95 55.65 0.7 0.02	
		19.7-20.1 ... more intensely Carb. zone. Minor	1% py	2411 55.65 56.15 0.5 Tr	
	0.5-1.5 mm	silic 5% py	V. minor Py Weak Carb		
58.4					
58.9	0.5-1mm	20.1 – 21.2 (as above 20.1) ... 20.6 – 21.0	Xenolith? Basalt 70-85°		
60	1-2 mm	Zone y colojorm veining with partial silic	Dyke 0.5% Py		
60.8	0.5-1mm	btwn veins ... 5% py. Veins v irregular "ptygmatic" in appearance.	70-95°		
	0.5-1.5 mm	21.2 – 24.0 As above but coarser grained.	Tr-5% py 0.5-1% Py	Mod Carb	
62.8		0.5-1mm 22.3 – 22.45 silic colojorm			
		carb. vn zone 1% py. Generally v. weak			
63		disem. py > 0.5% – concentrated adj to			
		thin QTZ ad QTZ/carb veins and			
66.5		veinlets.			
		24 – 24.7 fn. gr. pervasively carb. gabbro.		weak Carb	
		occ 0.5mm gr. size. 2-3% disem py			
70	0.5-1.5 mm	24.7-30 Completely altered pervasive	Massive		
		carb & silic – 50-60% silic generally?			
		24.7-29 ~ 80% silic with 1-2% py Tr Asp Generally			
		1% disem. py, but variable over short			
73.5		distances. Minor silic. colojorm carb veining.	Weak foln 45°sCA	Strong Carb	
		@ 27.5m 7cm QTZ/ferroan carb veining			

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS	AVGS.
75		colaform carb. 1-2% py + Aspy.	weak jolin 45°scA	strong carb	
76.8		30-30.7 Pale. grey-green carb. Gabbro. Partially weathered/oxidised. Minor fault @ 30.7 dip approx 45°scA. c. 1% disem py throughout		Moderate carb	
80		30.7-36.5 (as 24.0-30) with zones of more intense silic with increased py + Q; 31-32.1 (31-31.8 c 5% py) not >1% py; 33.3 34.1 34.3-35.1 2-3% py;	massive weak jolin 45°-50°	carb 24.12 86.0 96.3 0.3 Tr	
85		35.1-36.5 coarser grained 0.5mm-1.5mm with 2-3% disem leucocrata.			
	0.5-1.5mm	36.5-37.0 weathered partially oxid zone centred on minor shearing @ 60° scA x-cutting foliation @ a steep angle. Disem pyrite ± 1%		weak Moderate carb	
90		37.0-37.6 Coarser gr carb. gabbro 0.5-1.5mm gr size 2-3% disem. leucocrat.	massive		
94.3		37.4-37.6 50-60% silic with c 2% disem py. Silic increasing to contact g dyke. poss. contact metamorphism g silic. gabbro			
95		acs dyke appears to be post silic g gabbro	weak jolin 25°-30° scA	carb	
96.7		37.6-41.2 Felsic dyke 70% feldspar 30% mafic (chlorite) with well scattered qtz phenocrysts up to 5mm across 1-2mm gr size with finer (0.5-1mm)	weakly foliated to massive	carb	

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
100				
101		contacts. Small patches up to 10 cm		
E.O.H		across of weakly haematitic alteration.		
		Contact @ 37.6 30° sCA, @ 41.2 25° sCA.		
		38.8 - 41.2 dyke is sheared, shear planes		
		@ 30° sCA.		
		41.2 – 42.0 V. strongly carbonatised		
		rock. V. pale grey/green colour. c. 40%		
		silic. and minor fuchsite. 2-3% diss.		
		leucocrane. much stretched out. Est.		
		5% diss. pyr. Hmo'ont, much spatially		
		associated with silic. sections.		
		42.0 – 42.7 Moderately carb.		
		gabbro. 2-3% diss. leucocrane. V.		
		minor patches silic. > 0.5% py.		
		42.7 – 46.4 (as 41.2 - 42.0) Rock almost		
		completely carbonatised and silicified -		
		est. 60-70% silic. Rock originally		
		carbonatised, 50% colaform carb. vns.		
		with carb. of rock between, followed by		
		silic. overprint of, both veins and		
		carb. gabbro. Rock colour dominantly		
		grey – white with minor green - buff		
		patches. Minor fuchsite present. Est.		
		5% diss. py overall. fn. gr. leucocrane		
		diss. Hmo'ont. much "stretched" ant.		

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
		46.4 – 47.8 Moderately carbonatized meta-gabbro with 20% silic. Colour varies from pale buff-grey-green to dark grey-green and buff. 46.4 – 47.3 less altered with 1% disem. pyrite. 47.3 – 47.8 more strongly altered with 3-5% disem. py. Minor Tourmaline with some stk. colaform veins. @ 46.4 grades into more strongly altered rock & @ 47.8 grades down into weakly altered gabbro. Disem. leucocrene Hbl'ort.		
		47.8 – 53.0 V. weakly carbonatized meta-gabbro, alteration decreases rapidly between 47.8 and 48.4 m this section containing 0.3 – 1% disem. pyrite. Grain size of gabbro within range 0.5 – 1.5 mm with slight variations from spot to spot. 2-3% disem. leucocrene Hbl'ort – no perh ilmenite. @ 51.6' 3cm colaform carb vein with diffuse stk. and AR ladder vein & minor hematite.		
		53.0 – 54.5 fine grained, generally less than 0.5 mm, massive even grained mid-green rock. Contacts @ 54.5 53.0 are irregular with @ small detached block 1.5 cm. thick, 4 cm above		

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.

@ 53.0 Small patches of recrystallised gabbro seem to intrude the contact which has a thin reaction rim. Suggests fine grained rock is an xenolith, possibly of a massive Hedleitic flow.

54.6 – 54.95 Massive weakly carbonatised metagabbro. Gr. Size 0.5–1.5 mm. <1% py. 2–3% disem. leucocrene.

54.95 – 55.65 (as 47.7–46.4) 50–60% silica. 5% disem py. Minor fuchsite, minor tourmaline in silica carb vns @ 54.95 concentrated in ATC ladder veins. 2–3% disem leucocrene – much stretched out.

55.65 – 57.3 Weakly carbonatised, Massive gabbro. Gr Size 0.5–1.5 mm. 2–3% disem leucocrene. 55.65–56.1 <1% disem py as coarse disem anhedral xtals. Minor py 56.1–58.1 57.3–57.6 & 57.9–58.1 thin dykes dipping @ 70°–80° to CA. fine grained felsic, gr size >1 mm. Approx 70% felsic ex pale pinkish grey colour. 30% small mafic fragments – 0.5–5 mm across – mainly chloritic lenses fragments

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.

are irregular and sub-angular. Mafic fragments aligned ∥ to dyke contacts. Presence of leucocrane in some of larger fragments suggests they might be small pieces of gabbro wall rock.

58.1 - 58.9 Xenolith of fine grained Hbl-bearing flow rock? – as 53.0-54.5

58.1-58.9 Carbonatized gabbro.

58.9-60.8 felsic dyke – as 57.3 @ – 57.6 @ 59.9-58.1, but without angular mafic fragments. Contacts @ 70°-85° SCA. fine grained near margins, 0.5-1 mm, medium grained core 1-2 mm. Rock is 80% pale pink/grey feldspar and 20% quartz, interstitial mafics - now chlorite. 0.5% fine dissem. py. Itzo'ant'n increasing near contacts.

60.8-62.8 Moderately carbonatized massive gabbro. Gr. 520 0.5-1.5 mm 2-3% leucocrane + 1% magnetite? un-unaltered Hbnite? 0.5-1% dissm py. Tr cpy @ 61.2-61.3 m

@ 60.295 rounded blob of felsic dyke, veined, connected to main dyke by 1 cm vein-like intrusion.

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.

62.8 – 66.5 Pink felsic dyke as 58.9 – 60.8. Mafic content increased to 30% – 35%. Gr. size 1–2 mm decreasing to 0.5 – 1 mm @ margins. Contact @ 62.8 82° sca, @ 66.5 53° sca, both sharp & regular. c. 0.5% disem. py increasing towards contacts.

66.5 – 73.5 Massive weakly carbonatised gabbro. Pervasive fine grained carbonate with epidote throughout much of section. Ilmenite (1–3%) partially altered to leucoxene. Approx 2 – 10 cm apart, thin discontinuous carbonate veining of variable dip & strike. Gr. size 0.5 – 1.5 mm.

73.5 – 76.8 Weakly foliated, strongly carbonatised metagabbro. Pervasively carbonatised – c 50%. foln @ 45° sca. foln largely non-fissile and formed by a stretching of the gabbro fabric and an alignment of the carbonate & chlorite patches. 2–3% leucoxene – no ilmenite, much stretched along foln. Minor carb. vning.

76.8 – 85.4 Massive weak – moderately

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
		carbonatised gabbro as 66.5-73.5. 2-3% ilmenite partially altered to leucoxene. Minor carb. veining.		
		85.6-86.6 Weakly foliated meta gabbro as 73.5-76.8. foln @ 45°-50° sca. @ 86.15 2cm silic. vein with 5% py and bounded by disem Tourmaline in massive pyrite 86.15-86.25 coarse carbonate / quartz replacement.		
		86.6-94.3 Massive weak-moderately carbonatised gabbro. Gr. size varies slightly from 0.5-1.0 to 0.5 to 1.5 mm. 90.5-91.5 feldspar rich phase of gabbro with 3-5% finely disem ilmenite. Generally 2-3% ilmenite most altered to leucoxene.		
		94.3-96.7 Weakly foliated, carb. gabbro. foln @ 25°-30° sca @ 94.5 flattening to 45° @ 96°. 2-3% leucoxene much stretched along foln.		
		96.7-101.V. Weakly foliated to massive carbonatised meta gabbro as 86.6-94.3		

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY ..... LOCATION .....

NTS CODE ..... HOLE NO. ..29..-5.....

50 m

LATITUDE ..7+40.S..... AZIMUTH ....065°..... PURPOSE TEST SOUTH. MATTISHA VEIN

DEPARTURE ..1+28.W..... DIP .....45°..... STARTED 25/10/83...

ELEVATION ..... CORE ..... COMPLETED 25/10/83...

SECTION ..... LOGGED BY .P.A.T...

REF. GRID .....

PAT

DIP TESTS

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

[redacted] NO [redacted] S [redacted]

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DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS	AVGS.
0		0-2 No Recovery			
	2.0	2-24.5 Massive pale (white-grey-green) carbonatised rock. Probably 70-80% carbonate replacement Hydrothermal. Primary textures largely destroyed - appears to have been a fine to medium grained - 0.5 to 1.5 mm - massive rock. 2-11.5 massive, with > 0.5% fine grained, 0.1-0.3 mm, leucoxene and 0.5% Quartz xtals. Generally only Trace py except; 6.7-6.8m < 1% py; @ 7.7m 3cm @ 1% py.; 10-11.3 m slight increase in v. finely disem py with v. minor, v. fn. gr. arsenopyrite.	massive. (Structure) (Min) (Alt) (Silicification 70-90%) Carb.	2413 6.6 6.9 0.3 Tr 2414 10.9 11.3 1.3 .01 2415 12.5 13.0 0.5 Tr	
5					
10	0.5-1.5 mm.				
15		11.5-14.5 as 2-11.5 but with less leucoxene. Slight increase in pyrite. 12.5-13.0 m 14.5 Traces of leucoxene + increase in QTZ.			
17.2		14.5-17.2 as 2-11.5	crushed Talcose		
20		17.2-20 Pale white/grey colour - rock "Crushed" - probably talcose. Tr py - V. minor py - No leucoxene.	fault/shear.	2416 20.0 20.5 0.5 Tr 2417 20.5 22.1 1.6 .04 2418 22.1 23.3 1.2 .03 2419 23.3 24.5 1.2 .09 2420 24.5 25.5 1.0 .01	.05 / 4.0 .04 / 5.4
20.5		20-20.5 Probable fault/shear zone - 80% recovery only - White to pale grey - crushed - silicified talcose rock	massive 2-3% py weak foln 35-45° to CA 3-5% py		
22.1					
24.5					
25					

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS	AVGS.
25		Poorly developed foliation @ 40° sca	folin 45° sca	2421 25.5 27.0 1.5 Tr	
		1-2% diss'm. fn. gr. pyrite.	2-3% py	2422 27.0 28.6 1.6 Tr	
		20.5-24.5 Pale carbonatised &		2423 28.6 29.4 1.3 Tr	
28.6		silic. gabbro. 20.5-21.5 with v. minor		2424 29.9 31.2 1.3 Tr	
	1.0-1.5mm to 0.5-1.0 mm	leucocene, from 21.5-24.6 2% leucocene.			
30		20.6-22.1 overall 60-70% silic.	Massive	0.5-1.0% py.	moderate carb	2425 31.2 32.3 1.1 Tr	
		with 2-3% pyrite as diss'm specks,		2426 32.3 33.3 1.0 Tr	
31.3		blebs up to 2cm across and thin		2427 33.3 34.3 1.0 Tr	
33.3		stringers or veinlets.	folin 20°-40° sca / 40° sca	2-3% py	weak-mod carb	2428 36.7 37.2 0.9 Tr	
		23.1-24.5 Carbonatised gabbro with		carb	2429 37.2 37.5 0.3 .01	
35	1-2mm	narrow sections of partial silic. 3-5%		weak carb	2430 40.8 41.0 0.2 Tr	
37.2		diss'm. py. Weakly foliated- fol'n	10° sca	2% py	mod silic	2431 47.3 48.3 1.0 Tr	
37.5 37.65		@ 35°-45° sca.	folin 5° sca / 20° sca / 30° sca	minor py;		
		24.5-28.6 Pale white/green soft			
40		talcose zone, with minor silic.		minor diss'd py.	Moderate Carb	
		generally associated with sulphides.			
		foliated- Horizontal fol'n @ 45° sca.			Mod. carb	
		26.7-28.3 strongly sheared with	40° sca		
42.7		intense weathering and oxidation - prob.			
43		a fault/shear zone. 2-3% py. Horizontal	folin 20-45°		pervasive carb	
		28.6-32.3 Massive, moderately			
	0.5-1.5 mm	carbonatised gabbro. Gr size	Massive.		
		variable 0.5-1mm to 1mm-1.5mm.			
		2-3% diss'm leucocene throughout.			
	0:0:H	0.5-1% py overall as diss'm, fine grains			

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.

Hebs & stringers. Minor carb veining some showing poorly developed colaform structure.

32.3 – 33.3 Silic - carbonatised gabbro. 40% 32.3 – 32.7 increasing to 80% 32.7 – 33.3. Leucosome present throughout, much stretched out. 2-3% disseminated pg. V. minor fuchsite. foliated, foln @ 30°-40° SCA. Contact @ 33.3 metamorphosed by adjacent dyke, mtx recrystallisation q. Quartz. Hbl stringers q. dyke rock intruded along foln up to 1.5cm above contact. clearly dyke is post alteration & mineralisation.

33.3 – 37.2 felsic dyke – 70% feldspar, 30% mafics. Aphyric, equigranular, gr. size 1-2mm with 3-6cm chilled margins. Contact @ 33.3 @ 40° SCA, @ 37.2m @ c. 10° SCA but irregular.

33.3 – 36.2 dyke partially to completely carbonatised with partial to complete destructional texture. Where complete carbonatisation gives a fine grained buff coloured rock.

35 – 36.2 weaker carbonatisation.

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.

Carbonatisation intense adjacent to thin calcite veins @ 35.05 and 35.3m, the latter with minor diseem. pyrite in & adj to the vein. Unlike in 29.4 rock is not haematised.

37.2 – 37.5 Completely altered gabbro, 30% carbonate, 70% silic with 5% pyrite. Minor pre-silic colaform carbonate veining.

37.5 – 37.65 Carbonatised & weakly silic gabbro - grades up into vein material. Minor pyrite decreasing to trace @ 37.65.

37.65 – 43.7 foliated, moderately ± carbonatised gabbro. 2-5% leucocrate Hnd'ant, mostly stretched along fol'n.

37.65 – 38.2 foln v. strong @ 5° SCA.

38.2 – 43.7 foln increasing in dip. @ 38.7 m – 20° SCA ; @ 39.5 – 30° SCA @ [illegible] SCA. @ 41.2 – 43.7 40° SCA.

+ Minor diseem py Hnd'ant. 40.90 – 40.95 narrow silic zone. Silic up to 40% replacing carb. gabbro along fol'n.

5-10% py concentrated in and adj to silic lenses as fine diseem. xtals and

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
		small blebs and lenses of v. fine gr. "earthy" pyrite.		
		427-50 Massive, moderately to weakly carbonatised meta gabbro. Carb. pervasive replacement. Gr. size gabbro 0.5-1.5mm. 2-3% leucoxene with occasional minor unaltered diorite. Narrow weakly foliated cores; 431-435 30-45° CA. 437-460 30°-41° CA; 472-475 45° CA.		
		473-483 Narrow discontinuous qtz/carb veining as lenses & pods following an undulating chlorite shear running along long core axis. Veining contains pyrite & magnetite.		
		50m EOH.		

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY ..... LOCATION .....

NTS CODE ..... HOLE NO. 29...6.....
80 m

LATITUDE ...9+55S..... AZIMUTH .....065°..... PURPOSE TEST 29 VEIN

DEPARTURE ...2+39W..... DIP .....45°..... STARTED 26/10/83...

ELEVATION ..... CORE ..... COMPLETED 27/10/83...

SECTION ..... LOGGED BY ..P.A.T...
PAT

REF. GRID .....

DIP TESTS

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

[redacted] NO [redacted] 6 [redacted]

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DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS	AVGS.
0		0 – 5.3 OVERBURDEN – as per Douglas Resources			
5		5.3 – 45.5 Massive metagabbro – slight variations in grain size from 0.5 – 1.5mm to 1mm – 3mm. Equigranular, aplyric, non-aphitic textures. 5.3 – 8.0 – ilmenite disseminated, below 8.0m ilmenite partly altered to leucoxene. Gabbro altered throughout with pervasive diffuse carbonatisation, often with weak yellow/green epidote, and minor narrow carbonate veining.			
5.3		ilmenite	weak carb		
8		↓ ilmenite leucoxene	folin 45-50°	3552 7.6 8.2 0.6 Tr	
10		0.5-1.5	strong carb		
10.9		To 1-3 mm gr size	weak folin 50°-60°		
7.6 – 8.2		Gabbro foliated – 45-50° SCA. Strongly carbonatised & silicified. 1-2% disseminated py concentrated mainly in carb.	weak carb		
14.6 – 14.85			Strong carb	3556 14.6 14.85 0.25 Tr	
		veining 9.2 – 10.9 – weak folin @ 50°-60° SCA, associated with stronger carb.			
		14.6 – 14.85 – more strongly carb. as diffuse – pervasive carb up to 60% replacement & minor silic associated with carb/epi/chlorite veins @ 5° SCA.			
		25.4 – 26.6 foliated, strongly carb with minor silic folin & assoc. veining @ 15-20° SCA. Leucoxene partly stretched along folin. Est 1% py.	weak carb		

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS	AVGS.
25					
25.4		32.25–32.4 Massive QTZ vein with	15°–20° SCA	1% py Strong Carb 3559 25.4 26.6 1.2 Tr	
26.6		inequlon dots of chlorite and 1–2cm			
		wide zone of tourmaline @ the lower			
		contact. Contacts inegulon @ 5–10° SCA.			
30		35.85–36.6 Fine grained – 0.1–0.5mm		weak Carb	
		aphyric dyke – 90% plag feldspar			
32.25		with 10% fn. chlorite – 0.5% diss py	5–10° SCA	3560 32.25 32.4 0.15 Tr	
32.4		Contacts @ 32° SCA, sharp.			
		Similar to xenolithic dyke seen			
		immediately U/g 29.1 collar.			
35		37.15–37.25 foliated – carb	DYKE 33° SCA	0.5% py	
35.85		section – dip 35–40° SCA. Intensely chloritized.			
36.6		41.8–41.9 foliated – carb weakly	foln 35–40° SCA	Strong carb	
		silic. foln @ 5–10° SCA. 44.5–45.5			
40		gradual increase in carb. with			
		incipient development of foln.		Weak Carb (weak silic)	
		45.5–55.2 Strongly foliated &	foln 5–10° SCA		
		carbonatized gabbro. foln 25°–45° SCA.			
		Mid-grey felsic dyke material intruded		increase in carb	
45		into foliated zone @ 46.25–46.35			
45.5		Contacts @ 60°–65° SCA. Dyke contact			
46.25	+ DYKE	is carb & silic over 3–7mm. Alt.	60–65° SCA	Strong Carb 3561 46.4 46.85 0.45 Tr	
46.35		penetrates the dyke, which is			
48.65		unfoliated – post-foliation – & X-cuts	Strong foln 25°–45° SCA		
49.1		foln. 47.65–49.1 dyke contact @		1–2% py 3562 49.1 50.1 1.0 Tr	

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS	AVGS.
50		in centre – contacts 0.5mm – centre 1–1.5mm @ 47.65 contact steep & irregular – 75° sCA, x-cuts foliation, @ 49.1 – 65° sCA, x-cutting folin. 47.8 – 47.85 small carb/silic, chloritised gabbro xenolith with 1–2% disem py. @ 47.9 small angular inclusions up to 0.5cm across of qtz/carb material. Dyke material is 20–80% feldspar-pale grey – with interstitial chloritic material. Similar to felsic dykes in EG 7 & 8.	folin 40° sCA 25° sCA weak folin 30–35° sCA shear 20° sCA sheared 45°–55° sCA contact 50° sCA strong cmbd weak folin 40–50° sCA, 65° sQ° 50° sCA unfoliated 65° sCA	3563 50.1 50.6 0.5 Tr	
53.2					
55	55.4				
59.2	1.5mm				
60					
63.7	0.5–1mm				
65	65.0–65.2				
	0.5–1mm	49.1 – 50.1 strongly foliated, pervasively silic & carb gabbro. Up to 60% silic @ 49.1 decreasing to 5% @ 50.1. 1–2% py @ 49.1 decreasing to >0.5% @ 50.1. 49.2 – 49.3 1cm felsic dyke // to folin @ 40°–43° sCA.			
69.6		50.1 – 53.2 strongly foliated & carb gabbro. V. minor, occass, silic folin gradually decreasing from 40° sCA to 25° sCA. V. minor sporadic pyrite, occass reaching 0.5%			
70	0.2–0.5 mm				
72					
72.2					
	0.2–0.5 mm	Over 1–2cm 52.3 – 52.5 felsic dyke – contacts x cut folin @ 30° sCA			
75					

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
76				
		0.5-1.5 top, 65° SCA bottom		
		53.2 - 55.3 weakly foliated, strongly	75° SCA	
77.0			80° SCA	
77.2		Comb. gabbro. Foln 70-75° SCA.		
		Sporadic diam. py. @ 55.2		
		epidotised zone - 4cm wide dipping	80° SCA	
80		60° XCA, with comb. & QTZ + Hb.		
80.0				
81.0		discontinuous comb. ladder veins.		
		minor v. fine grn diam. py.		
		55.2 - 63.7 Massive mafic gabbro.		
		58.2 - 59.3 pervasively etc. comb. +		
		epidotised med. grn - 1-3mm -		
		Meta gabbro. Unfoliated but with		
		occass. diffuse epidote - comb.		
		vein/shear zones of variable dip +		
		strike. 2-3% coarse ilmenite throughout		
		@ 59.3 - 59.45 sheared core		
		with minor comb & chl. - Tr py only.		
		Dip 70° SCA.		
		59.3 - 63.7 weakly comb gabbro		
		as above - no epidote - Numerous,		
		Hb - variable - discontinuous		
		comb veins increasing to 63.7.		
		Note 63.4 - 63.7 core mixed		
		possibly some missing as contact with		
		felsic dyke @ 63.7 lost + no obvious		

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
		grinding 63.4 – 63.7 intermixed		
		converted to leucocrate with up to		
		1% py as coarse euhedral grains.		
		63.7 – 65.0 felsic dyke – see below		
		65.0 – 65.2 sheared & carb. gabbro.		
		Shearing @ 45° – 55° SCA. No sulphides		
		65.2 – 69.6 Felsic dyke .. fine gr.		
		0.5 – 1mm, leucocratic, equigranular		
		aphyric 70% – 80% feldspar - white		
		to pale grey with interstitial		
		chloritic material. No quartz noted.		
		Contact @ 65.2, 50° SCA @ 69.6 v.		
		irregular & x cutting. Slight chilling @ contacts.		
		69.6 – 73.0 fine grained – 0.2 – 0.5 mm -		
		metagabbro. Weakly foliated &		
		carbonatized throughout. foln @ 40-50° SCA		
		finely disem. leucocrate throughout,		
		much stretched along foliation. V.		
		minor fine disem py 69.85 – 69.90		
		fine gr. felsic dyke extended along		
		foln		
		72.0 – 73.2 felsic dyke – as 65.2 – 69.6.		
		Contact @ 72.0 – 65° SCA – sharp .. @		
		73.2 – 50° SCA.		
		73.2 – 74.69 fine gr. metagabbro –		

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
		0.2 - 0.3mm - dissem leucoxene. Not foliated - v. weakly carbonatized.		
		74.65 - 77.0 felsic dyke - fine gr. 0.5 - 1.5mm, equigranular, aplytic. 60-70% pink feldspar with interstitial chlorite - same as 65.2 - 69.6 except for increase in mafics & colour of feldspar. Contact @ 74.65 - 65° to CA. @ 77.0 - 75° to CA.		
		77.0 - 77.2 Indurated - thermally metamorphosed, gabbro parent.		
		77.2 - 79.95 felsic dyke - as 74.65 - 77.0. Contact @ 77.2 & 79.95 - 80° to CA.		
		79.95 - 80.0 Gabbro.		
		E.O.H @ 80.0		

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY ..... LOCATION .....

NTS CODE ..... HOLE NO. ...29-7.....

83 m

LATITUDE ..544S..... AZIMUTH ....003°..... PURPOSE .TEST. MAIN. KATISHA ZONE & PORTAGE ZONE

DEPARTURE ..037W..... DIP .....45°..... STARTED .27/10/83...

ELEVATION ..... CORE ..... COMPLETED 28/10/83...

SECTION ..... LOGGED BY ..P.A.T...

REF. GRID ..... PAT

DIP TESTS

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

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
0		0-2 No Recovery		
		2-27.3 Massive weakly carbonatized gabbro. Unfoliated, fresh=using 2.3-14.5 texture as seen elsewhere 0.5-1.5 mm gr. size, 1-2% pale diss. leucoxene.		
5		14.5-21.0 typical "gabbro" texture with radial well developed plagioclase laths up to 1.5 mm in length. Contacts only minor leucoxene. 21.0-27.3 less well developed plagioclase, minor ilmenite & leucoxene.		
10		27.3-31.7 Meta gabbro - probably sheared with felsic & mafic components partially separated, to give foliated appearance. Felsic components have been concentrated in 0.5-1 cm lenses surrounded by sinuous lenses & veinlets of chlorite dominant rock. Foliation produced is non-fissile and dips @ 75°-85° SCA @ 27.1 2 cm qtz vein with minor diss. sulph. in adj to contacts. Vn dips @ 75° SCA normal to the strong foliation. Minor silic & carb with diss. py following foliation adj to vein.		
20		31.7-42.7 Massive to weakly foliated		
25				

HOLE NO. ZG-7
PAGE 2 OF 6

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
			Structure / Alt / Alt	
		Metagabbro, foln dominantly @ 55° sc A. Numerous, thin, discontinuous carbonate veins, up to 0.5 cm thick, with variable dips & strikes. Variable weakly magnetic ilmenite, il. = 5%, throughout 34 – 42.2 weak, 0.5% overall, disem pyrite as coarse blebs and xtals, 0.5 – 2 mm across, with/in metam. g-gabbro, along chloritic foliation planes and in and adjacent to veins.	foln @ 75-85° sc A; Disem py; Veins of carb & chlorite	2432 31:8 32:2 0.4 Tr 2433 32:5 33:0 1.5 Tr 2434 33:0 34:5 1.5 Tr 2435 34:5 41:0 1.5 Tr 2436 41:0 42:7 1.7 Tr
42.7		42.7 – 43.55 fn grained felsic dyke. Gr. size < 0.5 mm. Contains single 5 cm xenolith g-gabbro. Contact @ 42.7 dips @ ° sc A, @ 42.55 75° sc A.		
		42.55 – 42.9 As above but with irregular chloritic blebs 2 – 5 mm in diameter.		
42.7		42.9 cm Aphyric; Porph. Aphyric 1 – 1.5 mm		
43.9		43.9 – 44.15 As 42.7 – 43.55.		
44.9		44.15 – 44.9 Metagabbro – gr. size 1 – 1.5 mm – ophitic texture. 2 – 3% disem leucoxene. Minor disem py.	75° sc A; 85° sc A; 20° sc A; 45° sc A; 45° sc A	
45.6		44.9 – 45.3 felsic dyke as above – chloritic blebs, clear lower contact.	Minor fault 45° dip A; 5-10° sc A	
47.4		Contact @ 44.9 85° sc A, @ 45.2 20° sc A.	60° sc A; 85° sc A	
49.5				

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS	AVGS.
50					
50.3			75°-85° SCA		
50.6		43.2 – 45.6 Gabbro as 43-44:15 & 44:9		2437 51:6 51:8 0:2 Tr	
		45.6 – 48:25 Felsic dyke – small chloritic blebs. Contact @ 45.6 = 45° SCA., @ 45:20 = 45° SCA.			
53.7					
		48.75 – 45:9 meta gabbro as 45:2-45.6			
55		45.9 – 47.0 felsic dyke as above with chloritic blebs. Dip contact @ 45.9 = 30° SCA @ 47.0 = contact ground = approx 30 cm core lost @ 47.0 – 46:3 = 47:0			
	0.5:1.0m				
60		dyke strongly weathered / oxidized.			
60.9		@ 47.5 – 4cm crushed, gouge		2438 60:9 61:5 0.6 Tr	
61.5		dyke rock recovered.	2-3% py Carb		
62.1					
62.6		61.0 – 47.4 Heavily oxidized	40° SCA	2439 62.1 62.6 0:5 Tr	
63.3		meta gabbro. Strongly veined. Minor	1% py Sulfide	2440 63.3 64.5 1.2 Tr	
64.5		fault @ 47.4 Dip @ 50° SCA.			
66		47.4 – 47.7 meta gabbro as 45.2-43.6	1-2% py 3-5% py 90° Carb Silicic	2441 65.0 66.0 1.0 Tr	
66.0		47.7 – 48.3 felsic dyke – part milt chloritic blebs – Gabbro xenolith @ 47.9 – 48m. Contacts flat @ 5°-10° SCA.			
		48.3 – 49.0 Meta gabbro as 45.2 : 45.6		2442 70.4 71.0 0.6 Tr	
70		49.0 – 49.8 felsic dyke as 47.7 – 48:3 Contact = 6° @ 49.0 & 35° @ 49.8	5-10% py Sulfide	2443 71.0 71.5 0.5 Tr	
70.4					
70.9					
71.0		49.8 – 50:3 Meta gabbro as above			
		50:3 – 50.6 felsic dyke as 47.7 – 49:3			
75		Contacts sharp & irregular 35° – 82° SCA.			

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES—NO./FROM/TO/WIDTH/METALS AVGS.
75		50.6–53.7 Meta & gabbro as above with thin felsic dykes @; 51.5–51.6, 51.8–51.92, 52.3–52.5, 52.8–53.1, & 53.4–53.6		
80		51.6–51.8 gabbro carbonatized with 1–2 cm qtz/carb veins and 5% diss. py		
81.0		53.7–60.9 Massive coarse grained, leucocratic, intrusive. 70% feldspar, 30% amphibole + minor chlorite. Recovery 100%? Grain size 0.5–1.0 mm.		
		60.9–61.5 Carbonatized meta gabbro. Ilmenite altered to Leucoxene 2–3% chlorite, coarse pyrite		
		61.5–62.1 fn. grained felsic dyke @ 47.7–48.3 61.7–61.8 metagabbro xenoliths		
		62.1–62.6 meta gabbro @ 60.9–61.5.		
		62.6–63.3 felsic dyke, part with coarse chlorite blobs. @63.3 contact @ 40° to core normal to foliation gabbro.		
		63.3–64.5 Pale carbonatized meta-gabbro ilmenite altered to leucoxene		
		63.3–63.4 & 64.0–64.5 64–64.5' weakly silicified 1% diss. py		
		64.5–65.0 felsic dyke, part with		

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
		coarse chloritic blebs. Mineralised		
		carb/silic metagabbro. Unaltered		
		parting 64.13–64.73.		
		65.0–66.0 Altered, mineralised		
		metagabbro. 63.0–68.6 c 90%		
		carbonate replacement with minor silic		
		& 1–2% disseminated pyrite. Primary texture		
		almost completely destroyed. [65.3–65.4		
		felsic dyke.] 68.6–66.0 Moderately		
		carbonated, pervasively silicified,		
		primary texture largely preserved. 3–5%		
		disseminated py.		
		66.0–70.4 felsic dyke, variable		
		texture – fine grained to fine grained		
		with chloritic blebs. 67.3–67.6		
		narrow dyke of grey felsic intrusive		
		as 52.7–60.9. This includes a		
		number of small 0.5–1.0 cm		
		angular to subangular fragments		
		of silic, pyritic vein material.		
		contacts 45° to CA		
		70.4–70.9 Altered, mineralised		
		metagabbro. 70.4–70.8 silic gabbro		
		and carbonatised gabbro, 5–10% py.		
		Paragenesis as recorded for i) Gabbro		

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
		carbonatised with development of laminated colaform carbonate veins; ii) Carbonatised rock is brecciated with rotation of fragments, silicified and pyritised 70.9-70.9 c.90% carbonate replacement, 3-5% py. Throughout leucocene is present indicating original gabbroic host and replacement nature of vein. 70.9-71.0 Pervasively silicified gabbro. <5% disseminated py. 71.0-83.0 Massive, fine-medium gr gabbro. Weak carbonatisation throughout with numerous thin to hairline irregular & discontinuous carbonate veins. 71.0-73.0 ilmenite altered or partially altered to leucoxene, 73.0-83.0 generally ilmenite unaltered. 71.0-71.2 0.3-1% disseminated py. 71.2-75.0 >0.5% py. 25.0-83.0 V. minor pyrite. 83.0 R.O.M		

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY ..... LOCATION .....

NTS CODE ..... HOLE NO. ...Z.9....8.....

LATITUDE ..5.+2.4.S..... AZIMUTH ....003°..... PURPOSE TEST MAIN KATISHA ZONE

DEPARTURE ..0.+84.W..... DIP .....45°..... STARTED 29/10/83....

ELEVATION ..... CORE ..... COMPLETED 30/10/83....

SECTION ..... LOGGED BY ..P.A.T...

REF. GRID .....

PAT.

DIP TESTS

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

[redacted] E N[redacted]G [redacted]

PAGE 1 of 5

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
		0–7.7 No recovery except for 0.7m of boulders.		
		7.7–62.9 Metagabbro. Slight variations in texture, grain size, composition and alteration throughout – single intrusive body.		
5				
7.7		7.7–11.3 Weakly carbonatised meta-gabbro. Carb. pervasive and as thin, variable, irregular & discontinuous veins & veinlets. Ilmenite altered to leucoxene. Gr. size 0.5–1mm.	weakly carb.	
10	0.5–1mm			
11.3		11.3–17.0 Gradual increase in alteration to 13.55 reaching 40%–50% carb over 0.3m. 13.65–14.1 Highly altered "vein" zone. 70–80% carbonatisation with partial silica overprint. 14.1–17.0 gradual decrease in carb. Dissm leucoxene present throughout. 11.3–13.55	Dissm coarse py 10% carb 40–50% py in carb	2445 13.08 13.55 0.50 .02
13.55				2446 13.55 14.10 0.55 .68
14.1			foln 60–65° SCA 10–15% py	2447 14.10 14.60 0.50 .02
15			v. weak py	
17.0				
	0.5–1.5 cm	Scattered coarse anhedral py cubes upto 0.5cm across. Increasing to 13.55 >0.25% overall.		
20		13.55–14.1 10–15% dissm. pyrite, most strongly concentrated in-site section. Leucoxene stretched along weak foln dips @ 65°–60° SCA.		
	1–3 mm			
25				

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
		14.1–17.0 (43_14.3–13.55) with loss pyrite.		
	1–3 mm	17.0–59.6 Massive weakly carb. meta gabbro as 29–11.3. 17.0–20 gr size 0.5–1.5 mm, 20–31 gr size increasing upto 3 mm 17.0–18.5 ilmenite altered to leucoxene 17.0–	fol'n 65° scA	2448 31.7 32.3 0.6 Tr
		Ilmenite unaltered. Minor disseminated py. 31–42 good oplitic texture developed. Gr size 1.0–3.0 mm with variable		
	oplitic texture upto 5% ilmenite	ilmenite upto 5% 31.7–32.3 stronger carbonatisation, assoc with fol'n @ 65° scA. Minor tourmaline & qtz in thin, variable carb veins 0.5–1% py. Ilmenite unaltered 42.0–59.6 oplitic texture either poorly or undeveloped. Gradual increase in carb below 53 m. 55.9–56.9 stronger carb reaching 20–30% in small patches with 1–2% py overall increasing with increase in carb. Ilmenite unaltered. V. weakly foliated @ 25°–35° scA.		
		59.6–62.9 Main Katisha Zone. Vaiably altered & mineralised meta gabbro. 59.6–60m strong carb		

0.5–1.0% py Tr

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
50		70-80% @ 59.6 decreasing to 30% @ 60.4 - Carb as patches, irregular & diffuse & coarse replacement. 1% diss py throughout. @ 59.85 0.2-1cm QTZ vein, dip 65° sCA, with small blebs & cpy + speck V.G. This section is unfoliated. 60.4-62.3 Weakly Carb Gabbro - less than 10% - with diss py - pyrite > 1%, but increasing to < 1% below 62m.	increasing carb	
55				
55.9				
56.8			v. weak foln @ 25°-35° sCA	2449 55.9 56.8 0.9 Tr
58.9				2450 58.9 59.6 0.5 Tr
59.6				3551 59.6 60.4 0.8 0.5 Tr
60				
60.4		Ilmenite unaltered. 62.3 - 62.9 Highly altered gabbro. Diss Leucoxene throughout 70-80% carbonatized, bxtated? with silica overprint to 20-30% 3-5% finely diss py. throughout	Brecciated?	3552 60.4 61.4 1.0 Tr 3553 61.4 62.3 0.9 Tr 3554 62.3 62.9 0.6 Tr
62.3				
62.9	0.5-1mm porphyritic			3555 62.9 63.4 0.5 Tr
62.8				
63.3				
65				
	Aphyric with narrow porphyritic sections	62.9 - 101.0 Compound dyke complex. 62.9 - 63.8 fn gr 0.5 - 1.0mm, equigranular felsic 60%, mafic 40% No QTZ 62.9 - 63.1 dk green chloritic, 63.1 - 63.75 dark - mid grey, 63.75 - 63.8 chloritic content blue chloritic & non-chloritic	60% felsic 40% mafic	
70	0.5-1mm			
73.9	4 cm gr	gradual @ 63.1, shows & material by irregular 1 cm Carbide vein @ 63.75 a.	40° sCA chilled margin	
75	1-1.5cm		70% felsic 30% mafic	

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
75		dip 50° sc A. 6		
		63.8 – 64.5 Probably similar to		
	1-1.5mm	above, mid grey felsic matrix with		
		30% coarse chloritic blebs up		
80		to 8mm across, probably		
80.7		altered pyroxene/amphibole phenocrysts.		
		64.5 – 73.9 fine grained felsic		
		intrusive as above, with minor		
		porphyritic sections, in places		
85		contacts are gradational in others		
	porphyritic phenocrysts up to 9mm.	they are sharp, intrusive in		
		appearance. Suggests more or		
		less synchronous injection of two		
		similar magmas, one non-porphyritic		
90		the other porphyritic.		
		73.9 – 80.2 Third, probably related,		
91.2		intrusive type. Med gr 1-1.5mm,	veins & foln sub // LCA	3556 91.8 93.3 1.5 Tr
		felsic ~70% feldspar pink to pale		
93.4		grey in colour, 30% mafics only		
95 93.8		partially altered to chlorite. Contacts		
94.4		intrusive. At 94m irregular &	slow/crush zone // LCA	
		ramifying with irregular chilling.		
		At 93.9m sharp @ 45° sc A with		
		9cm chilled margin.		
99.0		From to 80.7m Hard/ont	sub // LCA crush & gouge zone	
100 99.6				

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
100				
101		the various dyke types, xtal		
	E.O.H	orientations have all indicated		
		dips of close to 45° SCA.		
		80.7–101 Coarse porphyritic		
		felsic intrusive with chlorite		
		phenocrysts upto 8mm across,		
		& Rock has strong foln superimposed		
		in places which rotates the xtal		
		fabric from the usual 45° SCA, to		
		in places almost ⊥ to the LCA.		
		91.2–93.4 Series of 1cm–5cm		
		wide veins running along LCA		
		associated with chloritic alteration and		
		v. strong foln sub ∥ to LCA. Veins		
		consist of a coarse mosaic of QTZ		
		& carbonate & minor early 2mm–		
		5mm wide "ptygmatic" QTZ-carb		
		vein set x-cuts foliation.		
		Vein zone is weakly weathered/		
		oxidised.		
		93–93.4 shear/crush zone sub ∥		
		to LCA. Centred on thin QTZ-carb		
		vein. Partially weathered/oxidised.		
		99–99.8 Crushed/gouged zone		
		sub ∥ to LCA. Weakly weathered.		

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY ..... LOCATION .....

NTS CODE ..... HOLE NO. 79-9

101 m

LATITUDE 7+90.5 AZIMUTH ~~087°~~ 267° PURPOSE TEST 21.9. VEIN & PART OF FENCE BTWN 21.9 & S. KATISHA

DEPARTURE 1+70W DIP 45° STARTED OCT. 31ST

ELEVATION ..... CORE BQ COMPLETED NOV. 1ST

SECTION ..... LOGGED BY P.A. TYLER PAT

REF. GRID .....

DIP TESTS

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

HOLE NO. [redacted]-8

PAGE 1 OF

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC. STRUCTURE	MIN	ALT	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
0						
		0-4 No Recovery				
		4-11.7 fine grained meta gabbro - gr. size 0.2-1.0 mm Massive, weakly carbonatised - ilmenite altered to leucoxene, rutile & finely dissem Hnb'ont Incipient foln below 9.5 m. Occass. Hrln, irreg, discontinuous qtz/carb veining.			weak carb	
4		0.2-1cm				
5		11.7-14.5 As above but weakly foliated & carb. foln 40°-60° SCA. Minor pyrite, occass. weathering 0.5-1% over width of 1-2 cm.	weak foln 40°-60° SCA	Minor py	weak carb	
10						
14						
14.5		14.5-29.85 Massive fn-md gr meta gabbro - 0.5-1.5 mm Weakly Carb. Hnb'ont with epidote appearing below 17.5 m to 20 m fn. gr. dissem leucoxene Hnb'ont. Occass Hrln carb. vein.			weak carb + epidote	
15						
		29.85-35.20 Weakly foliated gabbro, weakly to strongly carbonatised with silic in part - foln 40°-43° SCA. Dissem. leucoxene Hnb'ont - weakly stratified along foln 32.1-32.4 50-60% silic with 5% dissem py. 32.4-35.2 Minor fn. dissem Tourmaline in gabbro. @ 31.5 2 cm fn dissem tourmaline,			weak carb.	
20						
25						

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
25		35:20 – 47:8 Weakly foliated, carbonatised gabbro. 20–40% carb. overall as pervasive replacement fnly disem leucoxene Hrd'ont, stretched along foln in more strongly foliated sections. Gr 230 gabbro 0.5–1.5 mm. foln varies btwn 40° & 60° to CA.	Weak foln; 40–45° to CA; Strong Min; Alt: Weak Carb	3564 35:5 32:1 0:6 Tr; 3565 32:1 32:4 0:3 Tr; 3566 32:4 32:9 0:5 Tr
30	29.5			
35	36.2	45:8 – 47:8 Highly altered gabbro. 45:8 – 46:0 50–60% carb with 1–2% disem. py. 46:0 – 46:9 60–70% silic with 3–5% disem. py. 46:9 – 47:8 50–60% carb with 1–2% py.	Disem Tr; Alt: Carb; Weak foln 40–60° to CA; Alt: Weak Carb.	
40		47:8 – 57:8 Strongly foliated & carbonatised gabbro. foln 50–55° to CA. Disem leucoxene Hrd'ont much stretched along foln. 47:8 – 48:5 Minor silic with disem py – up to 1% over 1cm sections, with weak disem tourmaline. 51:3 – 52:8 foln @ 40° to CA. 48:5 – 51:3 finely disem tourmaline Hrd'ont. 55:0 – 55:5 up to 30% carb with silic &	1–5% py; Alt: Carb; Silic; Carb; up to 1% py; Alt: Carb	3567 48:8 46:9 1:1 Tr; 3568 46:9 47:8 0:9 Tr; 3569 47:8 48:5 0:7 Tr
45				
47.8				
50				

HOLE NO. ZS-0
PAGE 3 of

DEPTH	GRAPHIC LOG LITH.		DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.				CORE SAMPLES–NO./FROM/TO/WIDTH/METALS						AVGS.
				STRUCTURE	MIN	ALT								
50			c-3% diss py concentrated in silic											
			section 55.23–55.38 Minor diss py	50-55° SCA	Diss py Tm	Strong carb								
			Tourmaline	Strong foln										
			@57.8m minor fault c/w 1cm	40-45° SCA				35.70	54.60	55.10	0.5	Tr		
55			qtz gouge brkn 56.7–57.8 gabbro					3571	55.10	55.40	0.3	Tr		
			sheared & veined weakly sub // to		2-3% py			3572	55.40	55.90	0.5	Tr		
		Sheared	dip of fault @ 55° SCA.											
57.8		fault	57.8–63.6 Massive, fn. grained	55° SCA 1cm gouge										
			0.2–1.0 mm gabbro. Unfoliated or											
			v. weak foliation. V. weak carb.				V. weak carb							
60		0.2-1.0 mm	c/w numerous thin, discontinuous	DYKE 50° SCA										
			carb veins of variable dip & strike.											
			60.85–61.20 fn. grained, felsic dyke.											
63.6			Gr. size 0.2–0.5 mm 80% pink											
			feldspar, 20% chloritic matrix.	weak foln			weak carb							
65			Contacts @ 50° SCA sub // to foln.	40° SCA										
66.8			63.6–66.8 Weakly foliated &											
			carb gabbro. Foln @ 40° SCA.	strong foln			20-50%	3573	70.5	71.5	1.0	.03	arc vn. with fn py.	
			Diss py leucocrene Hrd'out.	45-50° SCA	2-3% py.	carb		3574	71.5	72.5	1.0	Tr		
69.6								3575	72.5	73.5	1.0	Tr		
70			66.8–69.6 Strongly foliated &											
		copy/Tm	carbonatised ultramafic. Carb	strong foln				3576	73.5	74.2	0.8	Tr		
		copy/Tm	veining between 20% & 50% foln	45-55° SCA	<0.5% py.	40-60% carb		3577						
		copy/Tm	45°–50° SCA. Diss py leucocrene					&						
		copy/Tm	Hrd'out.											
74.2		copy/Tm	69.6–74.2 Strongly foliated	45-55° SCA	Tr py	40-60% carb								

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
75				
		gabbro with 40-60% carb.	V. strong foln	
		replacement foln 45°-55° to CA.	45°-55° to CA.	40-60% carb
		Minor diss. py throughout - 0.5%.		
		@ 70.35, 71.90, 72.20, 73.0, & 74.0		
79.7		Hair 0.5-1cm qtz carb vns -	weak foln	weak carb
80		carb selvages with qtz cores.		
	0.5-1mm	Minor Tm occurs concentrated		
	3-5mm qtz phenocrysts	at the qtz/carb contacts. Diss.	DYKE	
		specks of cpy were noted in all		
		three vns. @ 72.30 has an		
85				
85.5		alteration halo of 100% carb with	45-55°	
	0.5-1mm	fuchsite 1mm wide above below - 3cm	weak foln	1% py weak carb
		wide above below vein. More minor		
88.1		fuchsite occurs adj. to the others.		
		74.2 - 79.7 V. strongly foliated &		weak carb
90		carbonatized gabbro. foln @		
		45°-55° to CA. Diss. leucoxene. tr		
78.8		finely diss. py. 78.8 - 79.7 Core		
		crisis-crossed by irregular qtz-carb		
		veins related to dyke @ 79.2.		
95				
95.2		79.7 - 95.5 fine grained - 0.5-1mm		
		quartz porphyry. Mid-grey 80% +	DYKE	
		feldspar with with scattered qtz		
98.2		phenocrysts up to 3mm in diameter.		10-20% pyrite
100		79.7 - 81.2 dyke is weakly foliated &		

DEPTH	GRAPHIC LOG LITH.	GRAPHIC LOG	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
100					
101	C.O.H.		carbonatized (bleached). Contact @ 85.5		
			@ 78.7 // to foliation		
			85.5 – 88.1 fg. grained 0.5 x 1 mm		
			weakly foliated & carb meta gabbro.		
			Diss leucocrene 86 – 86.2 1% diss		
			pyrite.		
			88.1 – 95.2 Massive fg. gr. meta gabbro		
			Variably carb. with weak foln		
			in places.		
			95.2 – 98.2 QTZ porphyry @ 79.7		
			– 85.5		
			98.2 – 101 Massive to weakly		
			foliated, carb. gabbro. Carb		
			varying 10 – 20%. Diss leucocrene		

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY ..... LOCATION .....

NTS CODE ..... HOLE NO. ..Z9.-.10.....
86 m.

LATITUDE .7.+90. S..... AZIMUTH ....087°..... PURPOSE PART OF FENCE BTWN Z1G 7 SOUTH KATISNA.

DEPARTURE ..1.+70. W..... DIP .....45°..... STARTED .1/11/83....

ELEVATION ..... CORE ..... COMPLETED 2/11/83...

SECTION ..... LOGGED BY ..P.A.T.....
PAT

REF. GRID .....

DIP TESTS

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

HOLE NO 39 [redacted]
PAGE 1 of

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC. STRUCTURE	MIN	ALT	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS					AVGS.
0		0–4.8 0.7m recovery of boulders.									
		4.8–12.3 Massive, weakly carb.									
		fg. grained metagabbro 0.2–0.7 mm									
		to 8.4 m decreasing to P <0.5mm									
5 4.8		& 12.3 fg-gr. dissem leucoxene									
		Hornfelsed.									
		12.3–21.7 As above but more strongly					weak				
		carb as pervasive replacement. V.					carb.				
8.4		weak fol'n present to planes part...									
		dipping 45°–55° SCA. Occass. thin									
10		1cm carb/qtz veins (CQ2 cores)									
		with minor py in and adj. to veins – 19.4 –									
12.3		19.6 1cm qtz/carb vn @ 70° SCA									
		with dissem Tourmaline & pyrite.									
15		21.7–22.1 strongly carbonatised,	occas fol'n				Mod.				
		50% overall, with minor silica. Carb		minor py in & adj veins			carb.				
		pervasive and as thin wispy diffuse veins.	45–55° SCA								
		1% pyrite overall as blebs & stringers									
		& to carb. veins – Dip 45° SCA.									
		22.1–26.75 as 12.3–21.7.	70° SCA	Tr py							
20		22.3–22.7 0.3–1% py as stringers and				3577	19.4	19.6	0.2	Tr	
		blebs mainly ½ to minor veins and	45° SCA		Mod. carb.	3578	21.7	22.1	0.4	Tr	
21.7 22.7		carbonatisation bands in gabbro.		1–2% py		3579	22.1	22.75	0.65	Tr	
		24.0–24.7 stronger carb with 1–2%			Mod. carb	3580	24.0	24.7	0.7	Tr	
		py mainly as blebs & stringers		1–2% py	Strong carb						
25											

HOLE NO [redacted] 29 [redacted]
PAGE 2 of

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS					AVGS.
25		qtz/carb veins	STRUCTURE / MIN / ALT.						
		assoc. with 45° dolerite carb. veins of	1-2% py	3581	27.95	28.36	0.4	Tr	
26.75 Cpy		variable.	dyke	3582	29.0	29.6	1.6	Tr	
		@ 28.5 3-5mm qtz-carb veins with	fol'n	3583	29.6	32.1	1.5	Tr	
28.35		Tourmaline.		3584	32.6	32.8	0.2	Tr	
30		25.75-26.75 1% pyrite as stringers							
		// to foln & dyke contact @ 26.75							
		26.75-26.95 fine grained, equigranular							
		aplytic, felsic dyke. Mid. grey							
		colour, 0.3-0.5mm gr. size,							
35		dominantly composed of feldspar.							
		26.95-28.35 weakly foliated,							
37.3		carb-gabbro. Gr size 0.5-1mm.							
		27.95-28.35 up to 50% carb, with							
		minor silic and 1-2% disem							
40		py. Minor tourmaline in carb vns.	v.weak foln						
		Weak cohesion texture in veins, minor							
		fuchsite adj to veins.							
		28.35-37.3 Massive, v.weakly foliated		3585	42.4	43.1	0.7	Tr	
		to unfoliated fine-grn gabbro. Gr		3586	43.1	44.6	1.5	Tr	
		size 0.5-1.2mm, little variation.	foln 30-80° SCA	3587	45.9	46.2	0.3	Tr	
45 45.25		Fn disem leucoxene throughout. Variable	Shear zone 40-60° SCA						
46.0 46.2		carb generally around 20-25% as							
		pervasive replacement – increasing to							
		30-60% over narrow sections;							
50		29.2-29.2 60-70% carb with irregular							

DEPTH	LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS					AVGS.
50									
		weakly coloform qtz-carb veins &		3588	54.3	54.7	0.4	Tr	
		<0.5% fn disem py @ 29.5 2cm	2y=40° carb						
		irreg carb/qtz vein with stringer							
		tourmaline. Minor py 29.5-30.3, 30-40%							
393			weak foli @ 50° sca						
394		carb.; 30.4-30.9, thin 3-5mm							
65									
		weakly coloform, irregular carb./qtz							
564			3 lineal						
567		veins. Minor disem py 31.5-31.7 as	Talcose						
		above; 32.0-32.1 as above; 32.6-32.8	2y=40° carb						
		up to 60% carb replacement with 1%							
595			foli. 50° sca	3589	59.5	60.0	0.5	.01	
60 600		disem py; 35.1-35.4 as above, minor		3590	69.0	69.4	0.4	Tr	
		pyrite.		3591	69.4	70.4	1.0	Tr	
		27.3-45.25 As above, massive	2y=40° carb	3592	70.4	71.4	1.0	.01	
		weakly foliated to unfoliated		3593	71.4	72.5	1.1	.02	
		metagabbro - increase in carb. to		3594	75.8	76.9	1.1	Tr	
		>30%. Disem leucocrene throughout.		3595	76.9	78.0	1.1	Tr	
65				3596	78.0	78.7	0.7	Tr	
63.6		42.4-43.1 1% py as disem specks,		3597	78.7	79.6	0.9	Tr	
68.5		blebs and stringers.		3598	79.6	80.5	0.9	Tr	
		43.1-44.6 50-60% carb with silic		3599	80.5	82.3	1.8	Tr	
		overprint. Number of 1-2cm coloform							
69.0		carb veins silic in part and with qtz							
69.4		ladder veins. Stretched leucocrene.	60-85° sca.						
70 69.6		3-5% Disem. py							
70.1									
72.8		44.6-45.25 3% carb fn py							
		weak foli @ 70-80° sca.	Dyke 80° foli.						
75									

HOLE NO. ZS-10
PAGE 4 OF

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS	AVGS.
75					
75.8		43.25–46.0 Soft talcose, sheared & foliated gabbro. Foln @ 40–45° sCA. Zone partially weathered/ oxidised.	foln 55° sCA	3600 82.3 83.8 1.5 Tr 1935 83.8 86.0 2.2 Tr	
79					
78.7		46.0–46.3 40–50% carb with weak silic overprint + carb veinlets	50–55° sCA		
80			50–55° sCA		
79.6			50–55°		
80					
80.5		finely brecciated – shattered no rotation. Single coloform qtz carb/ qtz vein with diss tm + tr py & Aspy & v. weak diss tourmaline	50° sCA		
85			50–55° sCA		
86		occurs Horizontal 46.3 zone.			
	FOLI	46.2–69.0 Massive & unfoliated, with 46.3 weakly foliated sections, carbonatized meta gabbro. Gr. size 0.5–1.5 mm approx. Carb varies	weak foln		
90		between 20% & 40%. Diss leucoxene. Horizontal. Occurs weakly coloform carb/qtz vein.			
		54.3–54.7 weakly foliated @ 50° sCA, with 1/4 in qtz/carb veins // to the foln and ≤ 1% py as			
95		stringers & blebs along foln. Minor Tourmaline with veining & as v. weak foln diss. mineral.			
		56.2–56.7 soft weakly foliated/sheared			
100					

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
		Zone partially weathered & oxidized		
		59.5-60.10 60-70% carb with		
		central silic overprint and 1-2%		
		pyrite as blebs & stringers aligned		
		along foliation @ 50° CA. Colaform		
		carb veining partially silic with QZ		
		ladder veins, sub ll to foliation.		
		Minor tourmaline in veins and		
		carb. gabbro. Stretched leucocrane.		
		65.2-65.5 up to 60% carb with		
		colaform veining and silic overprint.		
		Unfoliated & unmineralised. Diss.		
		leucocrane.		
		69.0-69.4 60%-70% pervasive carb		
		with strong silic overprint 0.5-1.0%		
		pyrite. Minor colaform veining unfoliated		
		Diss. leucocrane.		
		69.4-69.85 Massive, weakly carb		
		gabbro. 20-30% carb.		
		69.85-70.1 60-70% carb weakly		
		foliated with colaform veining.		
		Minor silic overprint 0.5-1.0% py.		
		Minor tourmaline mainly in veining.		
		70.1-70.4 as 69.4-69.85		

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
		70.4 – 72.5' Strongly silic zone – 80–90% silic overall. Originally 70–90% carb. with colaform veining – minor iron brkd., w/ some rotation & orientation & finally silicified. 3–5% py overall. V. minor Aspy @ 71.0 – 71.3 Remnant foln., ie pre-silic & bdia foln., indicates 60–65° sc/A. Silic. & colaform directed colaform veins can still be traced across core.		
		72.5 – 75.8 Leucocratic, felsic dyke. 80% feldspar with 20% interstitial chlorite Gr. sgo varies 0.5–2.0 mm. Contact dip @ 10° sc/A @ 72.5 & @ 5° sc/A @ 75.8.		
		75.8 – 79.0 As 70.4 – 72.5 – relaxation below 77.0m foln @ 55° sc/A.		
		79.0 – 79.7 Massive carb galena – 30–40% porphyritic carb with v. minor silic. 1% diss pyrite. Weakly foliated @ 50°–55° sc/A. Sheeted leucoxene.		
		79.7 – 79.6 Carb increases to 50–60% foln still 50–55° sc/A: slight increase		

DEPTH	GRAPHIC LOG LITH.	DESCRIPTION	GRAPHIC LOG STRUCT./ALT./ETC.	CORE SAMPLES–NO./FROM/TO/WIDTH/METALS AVGS.
		in silic. increasing with depth.		
		1-2% py increasing with depth.		
		79.6-80.5 Increase in comb to 80%		
		with development coloform veining.		
		Increase in silic. 2-3% py. foln 50°-55°		
		80.5-83.3 90% comb - dominated		
		by development of irregular coloform		
		veining - up to 50% of total rock.		
		Strong - 30-40% - silic overprint.		
		Weak - 1% - disem py. foln 50-55°		
		BBXX veins developed @ top & bottom		
		of section.		
		83.3-86.0 Massive to weakly		
		foliated, metagabbro, 20-30%		
		comb. Horizont - mainly pervasive		
		replacement with minor veining.		
		Weak silic. foln 50-55° SCA.		
		Est 1% py. Horizont, occass		
		veining 3-5% over narrow		
		1-2cm bands.		

APPENDIX II

P.T.

CUSTOM FIRE ASSAYING

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

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

Esso Minerals Canada

ASSAY CERTIFICATE

Date: Nov. 7-83

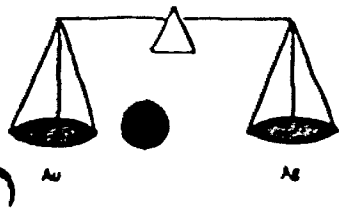
ESSO MINERALS CAN
RECEIVED
NOV 9 1983
LAB

Sample No.	Description	oz/ton Au	oz/ton Ag
1975		Trace	
3581		"	
82		"	
83		"	
84		"	
85		"	
86		"	
87		"	
88		"	
89		.01	
90		Trace	
91		"	
92		.01	
93		.02	
94		Trace	
95		"	
96		"	
97		"	
98		"	
99		"	
3600		"	

Assayer: Paul Okanski

Red Lake Printing Co. Ltd.

P.T.



CUSTOM FIRE ASSAYING

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

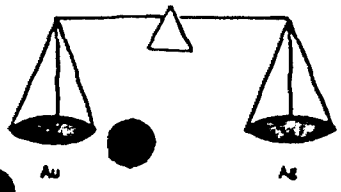
Phone: Bus. 662-8171
Res. 662-3361

Esso Minerals Canada — **ASSAY CERTIFICATE** — Date: Nov. 4-83

Sample No.	Description	oz/ton Au	oz/ton Ag
3556		Trace	
57		"	
58		"	
59		"	
60		"	
61		"	
62		"	
63		"	
64		"	
65		"	
66		"	
67		"	
68		"	
69		"	
70		"	
71		"	
72		"	
73		.03	
74		Trace	
75		"	
76		"	
77		"	
78		"	
79		Trace	
80		Traced	

Assayer: Paul A. Okanski

Red Lake Printing Co. Ltd.



CUSTOM FIRE ASSAYING

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Res. 662-3361

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

Esso Mineral Can.

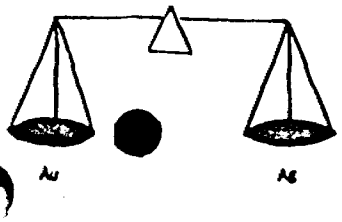
ASSAY CERTIFICATE

Date: Nov. 2-83

Sample No.	Description	oz/ton Au	oz/ton Ag
2444		Trace	
45		.02	
46		.68	
47		.02	
48		Trace	
49		"	
50		"	
3551		"	
52		"	
53		"	
54		"	
55		"	

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

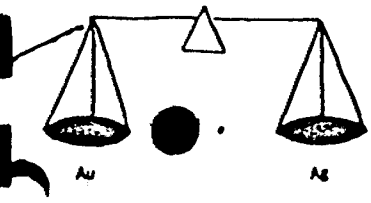
Esso Minerals Can. Ltd. **ASSAY CERTIFICATE** Date: Oct. 31-83

Sample No.	Description	oz/ton Au	oz/ton Ag
2403		Trace	
04		.01	
05		.01	
06		Trace	
07		"	
08		"	
#1		"	
2		"	
3		"	
2409		"	
10		.02	
11		Trace	
12		"	
13		"	
14		.01	
15		Trace	
16		"	
17		.04	
18		.03	
19		.09	
20		.01	
21		Trace	
22		"	
23		"	

Assayer: Paul A Okanski

Red Lake Printing Co. Ltd.

P.T.



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

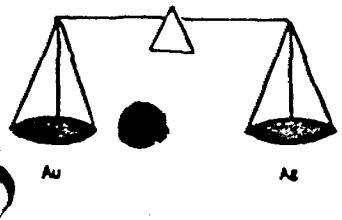
Phone: Bus. 662-8171
Res. 662-3361

Esso Minerals Can. Ltd. **ASSAY CERTIFICATE** Date: Oct. 31-83

Sample No.	Description	oz/ton Au	oz/ton Ag
2329		Trace	
30		"	
31		"	
32		"	
33		"	
34		"	
35		"	
36		"	
37		"	
38		"	
39		"	
40		"	
41		"	
42		"	
43		"	
44		"	
45		"	
46		"	
47		"	
48		"	
49		"	
50		"	
2401		"	
02		.01	

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 Mineral Can. Ltd. **ASSAY CERTIFICATE** Date: Oct. 31-83

Sample No.	Description	oz/ton Au	oz/ton Ag
2424		Trace XXX	
25		"	
26		"	
27		"	
28		"	
29		.01	
30		Trace	
31		"	
32		"	
33		"	
34		"	
35		"	
36		"	
37		"	
38		"	
39		"	
40		"	
41		"	
42		"	
43		"	

Assayer: Paul Okanski

Red Lake Printing Co. Ltd.

SNAKE BAY WINTER DRILL PROGRAMME

JANUARY - MARCH 1984

P. MORETON

ESSO MINERALS CANADA

INTRODUCTION

Twenty-three diamond drill holes, for a total of 1035m were drilled between January 30th and March 14th, by Longyear Canada Ltd. 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 $\sim$25m spacings) intersected the Fiji vein with sporadic gold values obtained over narrow widths. The two holes drilled on the South Katisha vein were collared 30m along strike from holes drilled (ZG 4, 5) during the 1983 fall programme. The three holes (MK-1, 2, 3) drilled on the Main Katisha zone were collared ($<$ 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 are in Appendices 3 and 4, and drill sections are located in the back pocket.

Average cost of drilling was 72.39$ per metre drilled.

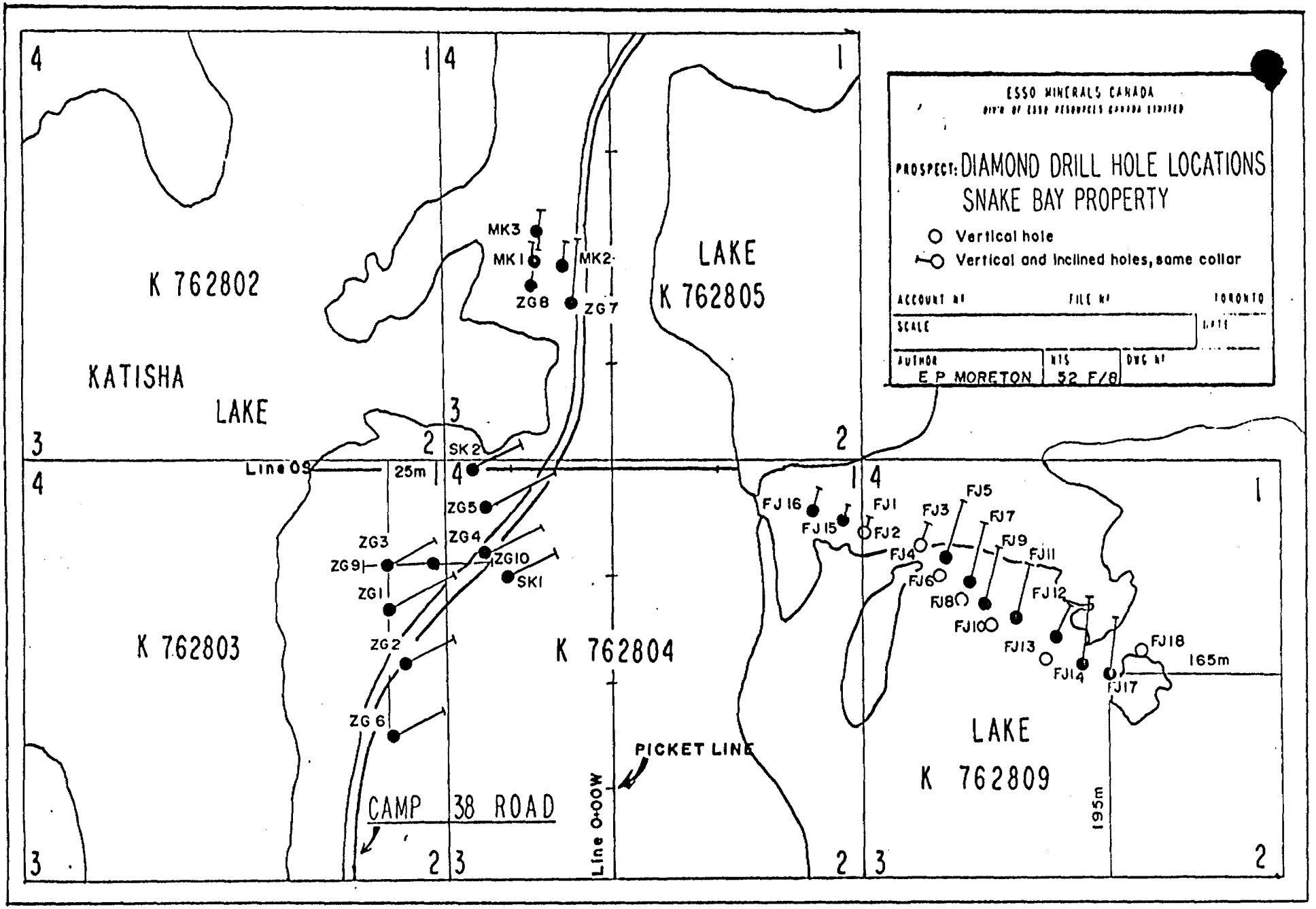

ESSO MINERALS CANADA
PROSPECT: DIAMOND DRILL HOLE LOCATIONS
SNAKE BAY PROPERTY
Vertical hole
Vertical and inclined holes, same collar
ACCOUNT N°
FILE N°
TORONTO
SCALE
DATE
AUTHOR
E P MORETON
NTS
52 F/8
DWG N°
K 762802
KATISHA
LAKE
LAKE
K 762805
K 762803
K 762804
LAKE
K 762809
MK3
MK1
MK2
ZG8
ZG7
SK2
Line 0S
25m
ZG5
ZG3
ZG4
ZG9
ZG10
SK1
ZG1
ZG2
ZG6
FJ16
FJ15
FJ1
FJ2
FJ3
FJ5
FJ7
FJ4
FJ9
FJ11
FJ6
FJ8
FJ10
FJ12
FJ13
FJ14
FJ18
FJ17
165m
195m
PICKET LINE
Line 0-00W
CAMP 38 ROAD

TABLE 1

SUMMARY SNAKE BAY DRILLING - FEBRUARY, MARCH 1983

HOLE #	ANGLE	AZIMUTH	DEPTH (M)	TARGET ZONE	SIGNIFICANT ASSAY (Au (Oz/Ton)/Metre)	COMMENTS
FJ1	45°	015°	17	FIJI	0.05/0.4m	- silicified,carbonitized gabbro, py-aspy
FJ2	90°	015°	23.5	FIJI	-	
FJ3	45°	015°	29	FIJI	0.09/0.37m	- silicified zone 5% aspy
FJ4	90°	015°	38	FIJI	Tr	
FJ5	45°	015°	71	FIJI	.045/1.25m, 0.07/0.5m	- silicified zone 2% aspy, py - carbonitized gabbro, py, asp
FJ6	90°	015°	35	FIJI	Tr	
FJ7	45°	015°	71	FIJI	Tr	
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% aspy, 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		1035m			

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, particularily 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 meters. 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°. Foutreen of the holes were drilled on Howie Lake and four on land (Figs 1 and 23). 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 (Fig. #2). 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.

Alteration 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 carbonitization of the gabbro. The leucoxene alteration zone varies in width from 7 to 16 metres (Table #2).

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

PIJI VEIN (Cont'd)

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 thin (<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.

FIJI VEIN (Cont'd)

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 and 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 (FJ-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 metres 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 (Figure #24).

Alteration and Mineralization - The alteration zone is centred along the basalt/gabbro contact. It is present on a weakly to intensely silicified and/or quartz veined zone. The silificication 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 carbonitization.

Foliated zones are common adjacent to the silicified zones within the carbonatized basalt and gabbro. In drill core, the foliation is consistantly oriented 40-60° to the s.c.a. which identifies a relatively steep orientation (75°W-75°W) to the zone, which is consistant with the field data (Fig. 24).

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 only minor carbonitized 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 extention 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 carbonitized 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 consistant with the surface geology.

TABLE 2

FIJI AND LOWER ZONE WIDTHS

HOLE #'S	THICKNESS OF LEUCOXENE ALTERATION ZONE	SILICIFIED ZONES	APPARENT DIP
FJ-1,2	FIJI Zone - 7m	FJ-1 1m FJ-2 2, 1/2m	40°S
FJ-3,4	FIJI Zone - 10m	FJ-3 2m FJ-4 1m, 3/4m	35°S
FJ-5,6	FIJI Zone - 9m Lower Zone - (FJ-5) 7m	FJ-5 1/2m, 2, 1/2m FJ-6 2m FJ-5 1/2m	25°S -
FJ-7,8	FIJI Zone - 12m Lower Zone - (FJ-7) 26m	FJ-7 1/2m, 3/4m FJ-8 2m FJ-7 1/2m (3)	25°S -
FJ-9,10	FIJI Zone - 6m Lower Zone - (FJ-9) 13.5m	FJ-9 3m FJ-10 1/2m FJ-9 1, 1/2m	25°S -
FJ-12,13	FIJI Zone - unknown Lower Zone - (FJ-12) 8m (Total) (FJ-13) 30m	FJ-12 1/2 (2) FJ-13 1m (2) FJ - 12 1/2m, 1, 1/2m FJ-13 1/2m	35°S 35°S

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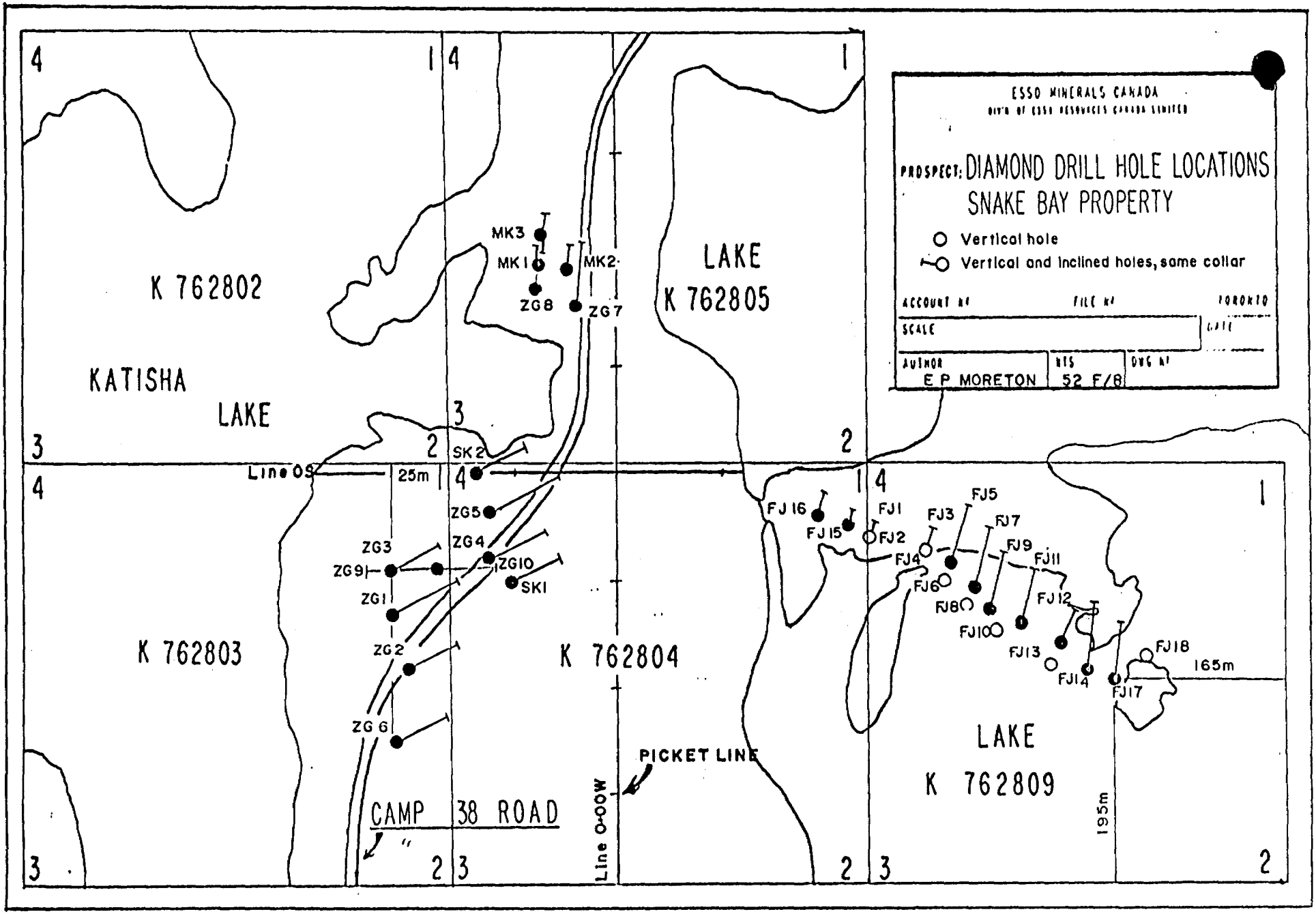
ESSO MINERALS CANADA
PROSPECT: DIAMOND DRILL HOLE LOCATIONS
SNAKE BAY PROPERTY
Vertical hole
Vertical and inclined holes, same collar
ACCOUNT N°
FILE N°
TORONTO
SCALE
DATE
AUTHOR
E P MORETON
NTS
52 F/8
DWG N°
K 762802
KATISHA
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ZG8
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SK2
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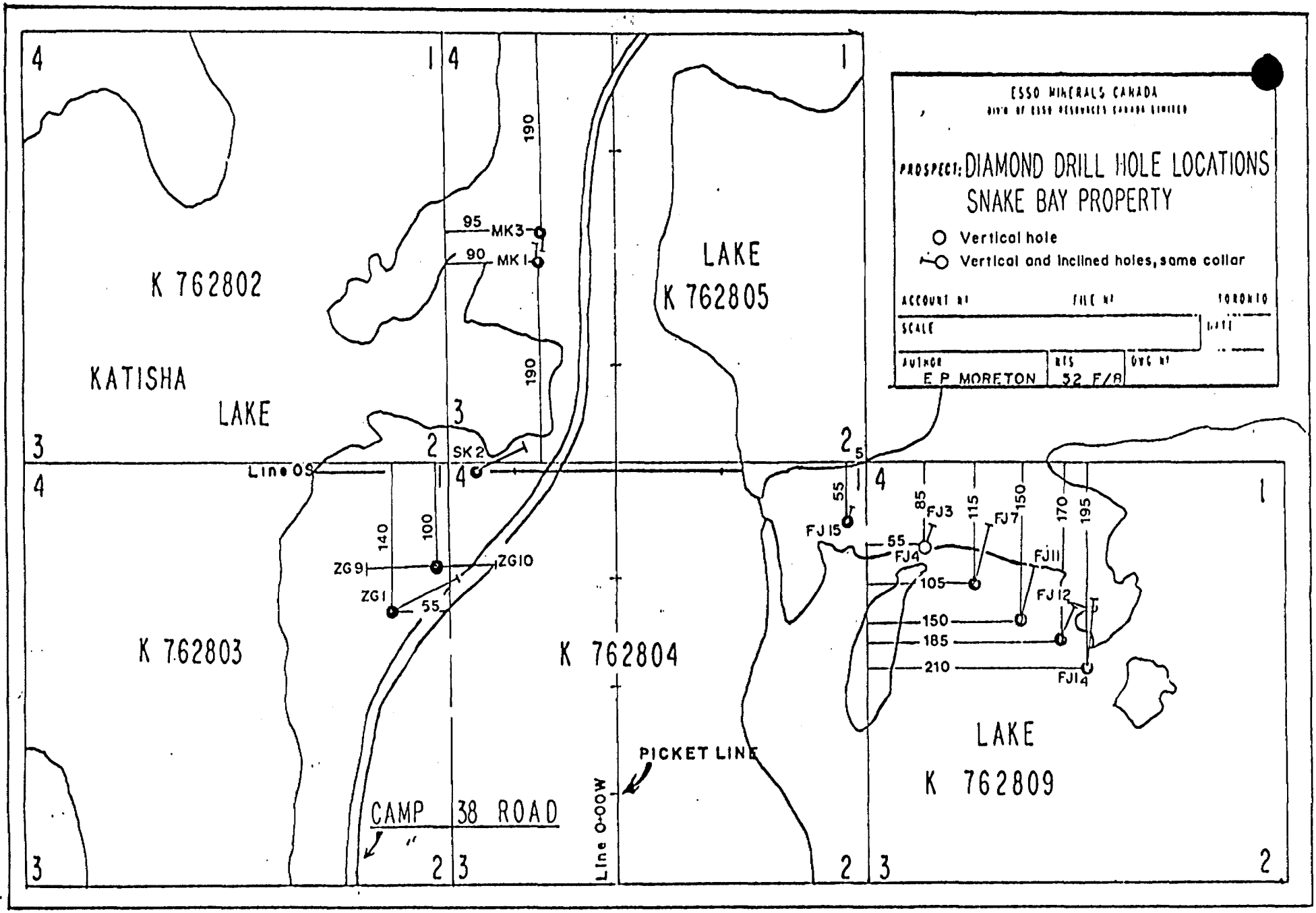
PICKET LINE
Line 0+00W
CAMP 38 ROAD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DIVN OF ESSO RESOURCES CANADA LIMITED
PROSPECT: DIAMOND DRILL HOLE LOCATIONS
SNAKE BAY PROPERTY
Vertical hole
Vertical and inclined holes, same collar
ACCOUNT N°
FILE N°
TORONTO
SCALE
DATE
AUTHOR
E P MORETON
RES
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DWG N°
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KATISHA
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SK2
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FJ15
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115
FJ7
150
170
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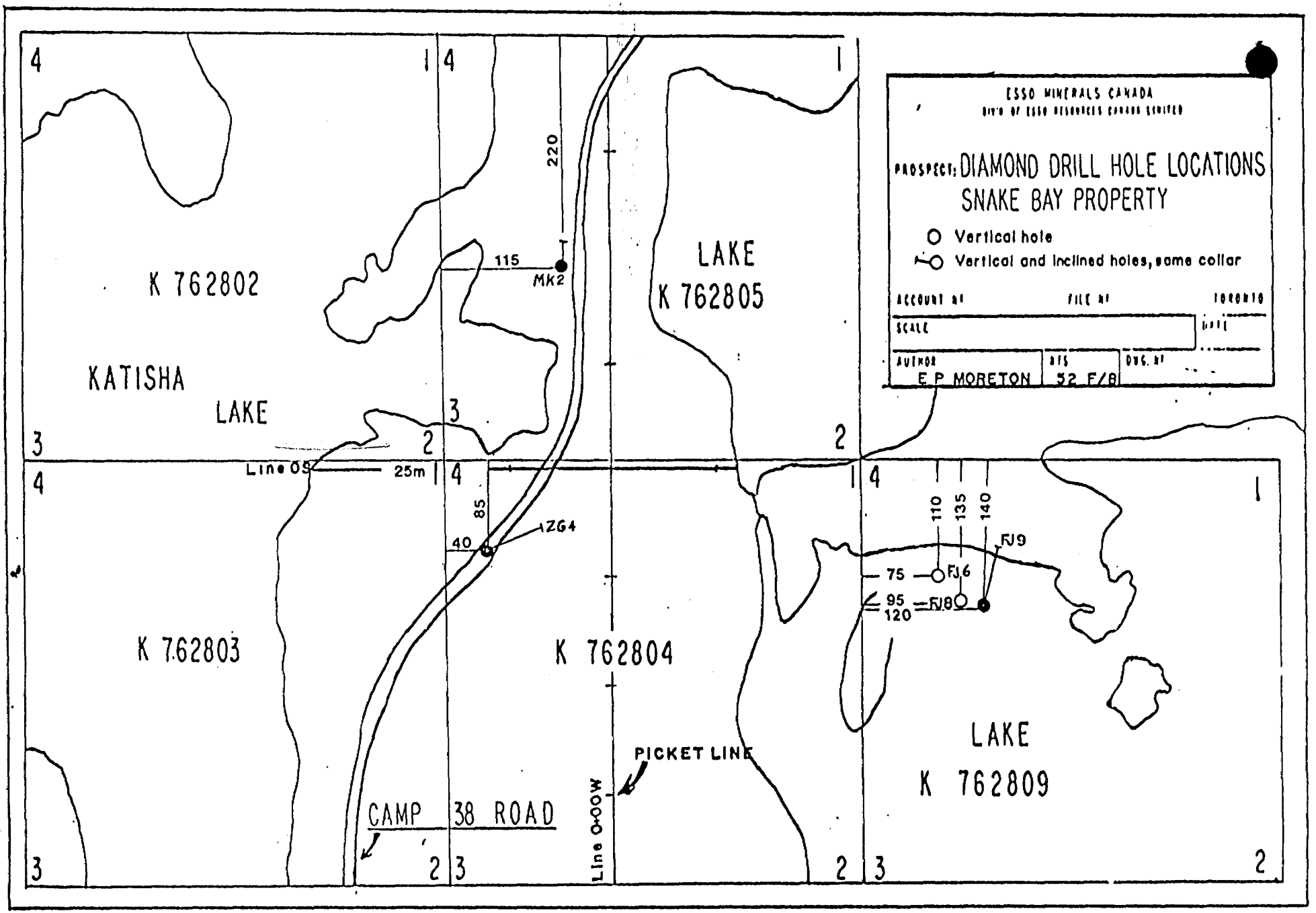
PICKET LINE
Line 0-00W
CAMP
38 ROAD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SNAKE BAY PROPERTY
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Vertical and inclined holes, same collar
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FILE N°
TORONTO
SCALE
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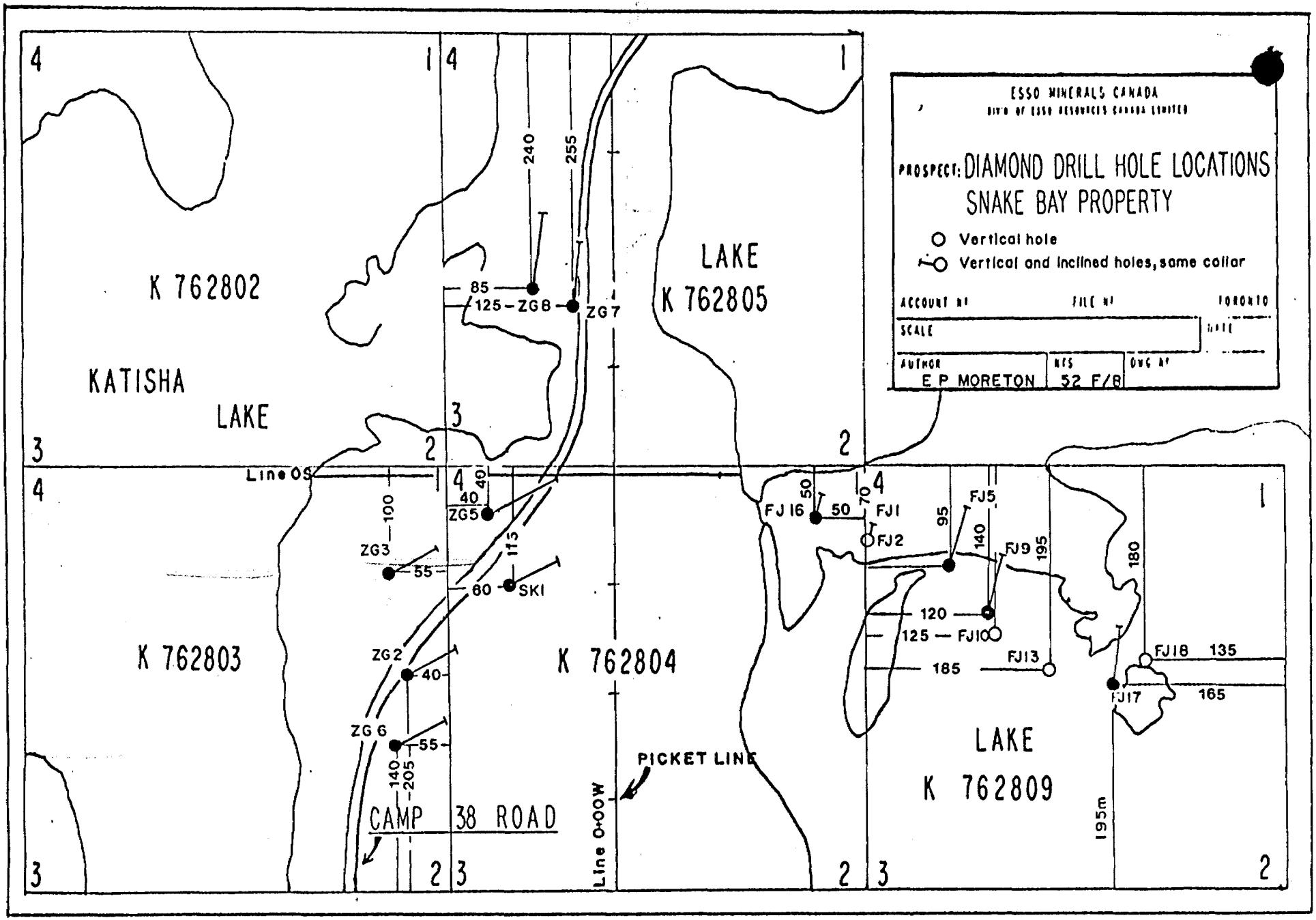
FJ8
PICKET LINE
Line 0+00W
CAMP
38 ROAD


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
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52 F/8
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K 762804
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Line 09
Line 0+00W
PICKET LINE
CAMP 38 ROAD
195m
ZG1
ZG2
ZG3
ZG4
ZG5
ZG6
ZG7
ZG8
SKI
FJ1
FJ2
FJ5
FJ9
FJ10
FJ13
FJ16
FJ17
FJ18
85
125
240
255
40
55
60
100
115
140
205
50
70
95
120
185
135
165
195
180

Drill Logs

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

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

NTS CODE ..... HOLE NO. FJ-1 17.0M .....

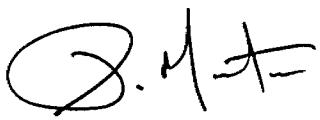
LATITUDE 2+00W ..... AZIMUTH 185° ..... PURPOSE Test Fiji Zone (West End)

DEPARTURE 18M South ..... DIP - 45° ..... STARTED Feb. 2nd, 1984

ELEVATION ..... CORE BQ ..... COMPLETED Feb. 3rd, 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	2.0	CASING
2.0	6.1	Medium-coarse-grained GABBRO -massive, unaltered -5% magnetite
6.1	7.0	Fine-grained GABBRO
7.0	9.0	LEUCOXENE-BEARING GABBRO -weakly foliated -5% carbonate stringers
9.0	9.5	CARBONATIZED GABBRO -tr. pyrite
9.5	9.7	SILICIFIED GABBRO -5 to 7% pyrite disseminated -aspy bands, locally up to 10% aspy -silicified carbonatized gabbro fragments
9.7	10.1	BRECCIA ZONE -composed of carbonatized gabbro fragments with quartz matrix
10.1	10.5	SILICIFIED ZONE -massive texture -2% disseminated aspy, abundant fuchsite
10.5	10.8	Weakly SILICIFIED ZONE - as silicification decreases foliation increases -foliation 75 to c.a.
10.8	13.0	Leucoxene-bearing GABBRO -10% leucoxene, 2% pyrite, 5% carbonate stringers
13.0	17.0	Massive, equigranular, unaltered GABBRO
17.0		E.O.H.

ASSAY RESULTS

SAMPLE #	FROM	TO	WIDTH	ASSAY OZ/TON
0001	8.8	9.4	0.6	0.2
0002	9.4	9.8	0.4	0.5
0003	9.8	10.0	0.2	0.2
0004	10.0	10.6	0.6	0.1
0005	10.6	11.9	1.3	Tr.

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

PROPERTY Snake Bay ..... LOCATION Fiji Zone (Howie Lake) .....

NTS CODE ..... HOLE NO. Fiji (FJ)-2 (25.0M) .....

LATITUDE 2+00W ..... AZIMUTH 195° ..... PURPOSE Test Fiji Zone (West Zone)

DEPARTURE 18M South ..... DIP -90° ..... STARTED Feb. 3rd, 1984

ELEVATION ..... CORE BQ ..... COMPLETED Feb. 3rd, 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	2.5	CASING
2.5	6.8	Unaltered Coarse-grained GABBRO
6.8	8.2	Unaltered Medium-grained GABBRO
8.2	10.5	Leucoxene-bearing GABBRO -1 to 5% leucoxene, 5% carbonate stringers
10.5	13.1	CARBONATIZED-SILICIFIED GABBRO - well banded 50 to c.a. -2 to 10% pyrite -12.2 to 12.5 colliform-textured carbonate vein
13.1	14.2	CARBONATIZED-PYRITIZED GABBRO -3% disseminated pyrite
14.2	14.5	Brecciated CARBONATE VEIN -arsenopyrite in stringers
14.5	14.6	Carbonatized Pyritized GABBRO -5% pyrite
14.6	16.3	Weakly to Intensely CARBONATIZED GABBRO
16.3	17.1	CARBONATE VEIN -5% quartz stringers with pyrite, pyrrhotite and arsenopyrite -contact 90 to c.a.
17.1	18.7	CARBONATIZED GABBRO - medium-grained abundant leucoxene
18.7	19.4	Weakly altered GABBRO
19.4	25.0	Unaltered Coarse-grained GABBRO -5% magnetite
25.0		E.O.H.

SAMPLE #	FROM	TO	WIDTH	ASSAY OZ/TON
0006	10.4	10.7	0.3	Tr.
0007	10.7	11.5	0.8	Tr.
0008	11.5	12.4	0.9	Tr.
0009	12.4	12.9	0.5	Tr.
0010	12.9	14.0	1.1	Tr.
0011	14.0	14.5	0.5	0.02
0012	14.5	15.0	0.5	Tr.
0013	16.2	16.5	0.3	Tr.
0014	16.5	17.0	0.5	0.01

IMPERIAL OIL LIMITED — DIAMOND DRILL HOLE LOG

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

NTS CODE ..... HOLE NO. FJ-3 (29.0M) .....

LATITUDE B-Baseline (1+50W) ..... AZIMUTH 015 ..... PURPOSE Test Fiji Zone .....

DEPARTURE 25S ..... DIP - 45° ..... STARTED Feb. 4, 1984 .....

ELEVATION ..... CORE BQ ..... COMPLETED Feb. 4, 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	2.5	CASING
2.5	9.4	Coarse-grained GABBRO
9.4	10.1	Fine-grained unaltered GABBRO
10.15	11.1	Leucoxene-bearing GABBRO -minor carbonate stringers
11.1	12.3	Fine-to-medium grained GABBRO
12.3	13.4	Weakly CARBONATIZED GABBRO
13.4	16.2	CARBONATIZED GABBRO - foliation 80 to c.a.
16.2	16.3	Laminated QUARTZ-TOURMALINE VEIN -contact 90 to c.a. -abundant pyrite in adjacent wallrock
16.3	16.85	PERVASIVELY CARBONATIZED GABBRO -fuchsite-bearing bands 80 to c.a.
16.85	17.0	SILICIFIED GABBRO -10 to 20% arsenopyrite, banded 90 to c.a.
17.0	17.8	Brecciated-silicified colliform-textured CARBONATE VEIN -15% quartz stringers -locally abundant tourmaline
17.8	18.2	Well-banded Pyritized-Silicified GABBRO -banding 90 to c.a. -trace arsenopyrite,2% pyrite
18.2	23.0	Weakly Carbonatized Leucoxene-bearing GABBRO - thin quartz stringers
23.0	23.2	SILICIFIED GABBRO -5% pyrite in quartz stringers -abundant fuchsite, coarse pyrite

FROM	TO	LITHOLOGY
23.2	26.8	Weakly altered Leucoxene-bearing GABBRO
26.8	27.0	Colliform-textured CARBONATE VEIN -crosscut by quartz-tourmaline stringers
27.0	27.2	Pyritized GABBRO
27.2	28.5	Weakly altered Leucoxene-bearing GABBRO -minor disseminated pyrite
28.5	29.0	Unaltered Medium-grained GABBRO
29.0		E.O.H.

SAMPLE #	FROM	TO	WIDTH	ASSAY OZ/TON
0015	10.4	10.7	0.3	Tr.
0016	10.7	10.9	0.2	Tr.
0017	15.8	16.1	0.3	Tr.
0018	16.1	16.53	0.43	0.01
0019	16.53	16.90	0.37	0.09
0020	16.9	17.7	0.8	Tr.
0021	17.7	18.1	0.4	Tr.
0022	18.1	18.62	0.52	Tr.
0023	22.6	23.1	0.5	Tr.
0024	26.6	27.05	0.45	Tr.

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

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

NTS CODE ..... HOLE NO. FJ-4 (37.0M) .....

LATITUDE 1+50W B-baseline ..... AZIMUTH 015° ..... PURPOSE Test Fiji Zone .....

DEPARTURE 26M South ..... DIP Vertical ..... STARTED Feb. 4th, 1984.

ELEVATION ..... CORE BQ ..... COMPLETED Feb. 5th, 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	1.5	CASING
1.5	11.0	Coarse-grained GABBRO
11.0	14.0	Fine-grained GABBRO
14.0	16.8	Leucoxene-bearing GABBRO -locally intensely foliated 80 to c.a.
16.8	17.7	Silicified Brecciated CARBONATE VEIN -10% quartz stringers -well developed banding 50 to c.a. -5% pyrite
17.7	18.1	Carbonatized GABBRO -well developed foliation 50 to c.a.
18.1	19.3	Leucoxene-bearing GABBRO
19.3	20.0	SILICIFIED GABBRO -well banded 90 to c.a. -minor disseminated pyrite
20.0	23.4	Leucoxene-bearing GABBRO
23.4	28.7	Massive unaltered GABBRO
28.7	29.3	Foliated GABBRO -5% magnetite -foliation 50 to c.a.
29.3	33.1	Magnetite-bearing GABBRO -7% magnetite
33.1	37.0	Feldspar-phyric GABBRO
37.0		E.O.H.

SAMPLE #	FROM	TO	WIDTH	ASSAY OZ/TON
0025	16.6	17.7	1.1	Tr.
0026	19.3	20.2	0.9	Tr.
0027	30.0	31.1	1.1	Tr.
0028	35.6	36.1	0.5	Tr.

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

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

NTS CODE ..... HOLE NO. FJ-5 (71.0M) .....

LATITUDE 1+25W B-baseline ..... AZIMUTH 015 ..... PURPOSE Test Fiji Zone

DEPARTURE 25M South ..... DIP -45° ..... STARTED Feb. 6th, 1984

ELEVATION ..... CORE BQ ..... COMPLETED Feb. 7th, 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	4.2	CASING
4.2	10.3	CARBONATIZED GABBRO -pyritic zone at 7.8 to 8.1 and 9.4 to 9.6
10.3	12.05	SILICIFIED GABBRO -overprinting carbonate vein -10% aspy from 10.5 to 10.8 -brecciated, abundant fuchsite
12.0	13.4	Carbonatized GABBRO -disseminated pyrite -5% carbonate-pyrite stringers
13.4	13.6	Pyritized GABBRO -20% pyrite
13.6	14.8	Carbonatized GABBRO -massive, non-foliated
14.8	15.00	SILICIFIED GABBRO
15.0	17.3	Carbonatized GABBRO
17.3	17.5	Brecciated Silicified GABBRO -10% pyrite in quartz stringers
17.5	18.8	Weakly Carbonatized GABBRO
18.8	20.0	Massive Fine-grained GABBRO
20.0	22.5	Massive medium to coarse-grained GABBRO
22.5	23.8	Medium-grained GABBRO
23.8	24.3	Fine-grained GABBRO

FROM	TO	LITHOLOGY
24.3	25.2	Medium-grained GABBRO
25.2	26.5	Fine-grained GABBRO
26.5	27.8	Feldspar-phyric Intermediate DYKE
27.8	30.5	Intensely foliated GABBRO -foliation 50 to c.a.
30.5	35.5	Fine-grained GABBRO
35.5	43.2	Anorthositic GABBRO -65% feldspar
43.2	46.5	Massive fine-grained GABBRO
46.5	47.5	Pyritized GABBRO -pyrite in thin stringers 75 to c.a.
47.5	53.6	Massive medium-grained GABBRO
53.6	54.0	Silicified GABBRO -well banded (75 to c.a.) -alternating layers of
54.0	58.3	Fine-grained Leucoxene-bearing GABBRO
58.3	61.0	Unaltered fine-grained GABBRO -6% magnetite
61.0	71.0	Coarse-grained GABBRO
71.0		E.O.H.

SAMPLE #	FROM	TO	WIDTH	ASSAY OZ/TON
0031	10.4	11.05	0.65	0.02
0032	11.05	11.47	0.43	0.04
0033	11.47	12.27	0.8	0.05
0034	12.27	12.72	0.45	Tr.
0035	13.2	13.7	0.5	0.07
0036	17.2	17.55	0.35	Tr.
0037	46.5	47.3	0.8	Tr.
0038	53.3	53.7	0.4	Tr.

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

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

NTS CODE ..... HOLE NO. FJ-6 (35M) .....

LATITUDE 1+25W B-baseline ..... AZIMUTH 015 ..... PURPOSE Test Fiji Zone .....

DEPARTURE 40S ..... DIP - 90° ..... STARTED Feb. 7, 1984 ..

ELEVATION ..... CORE BQ ..... COMPLETED Feb. 8, 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	9.6	CASING
9.6	11.5	Weakly altered GABBRO -streaky carbonatization
11.5	13.1	Carbonatized GABBRO
13.1	15.0	Weakly altered Leucoxene-bearing GABBRO
15.0	16.9	SILICIFIED GABBRO BRECCIA -10 to 30% quartz stringers -banding 70 to c.a. -1 to 5% pyrite
16.9	17.9	Carbonatized GABBRO
17.9	22.0	Leucoxene-bearing GABBRO
22.0	23.0	Fine-grained Magnetite-bearing GABBRO
23.0	32.0	Coarse-grained GABBRO
32.0	35.0	Fine-grained GABBRO
35.0		E.O.H.

SAMPLE #	FROM	TO	WIDTH	ASSAY OZ/TON
0039	15.0	16.2	1.2	Tr.
0040	16.2	16.9	0.7	Tr.
0041	17.4	17.9	0.5	Tr.

IMPERIAL OIL LIMITED – DIAMOND DRILL HOLE LOG

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

NTS CODE ..... HOLE NO. FJ-7 (71M) .....

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

DEPARTURE 40S ..... DIP -45° ..... STARTED Feb. 9, 1984 .....

ELEVATION ..... CORE BQ ..... COMPLETED Feb. 9, 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	11.2	CASING
11.2	12.0	Carbonatized GABRRO -foliation 70 to c.a.
12.0	13.1	Carbonatized Leucoxene-bearing GABBRO
13.1	13.3	Brecciated CARBONATE VEIN
13.3	13.4	CARBONATIZED GABBRO
13.4	13.6	Carbonate-stringer zone -25% carbonate veins -3% disseminated pyrite
13.6	15.2	Carbonatized-Leucoxene-bearing GABBRO
15.2	15.7	Silicified GABBRO -overprinting carbonate vein -5% pyrite well developed breccia fabric
15.7	16.0	Carbonatized GABBRO
16.0	16.1	Pyritized GABBRO -15% disseminated pyrite
16.1	17.1	Carbonatized GABBRO -well developed foliation
17.1	20.5	Unaltered fine-grained GABBRO -5% magnetite
20.5	33.0	Massive unaltered Medium to coarse grained GABBRO
33.0	42.5	Massive unaltered medium grained GABBRO
42.5	49.5	Massive Leucoxene-bearing GABBRO

FROM	TO	LITHOLOGY
49.5	50.4	Brecciated Silicified Carbonate VEIN -well laminated 45 to c.a. -quartz-pyrite-fuchsite
50.4	52.5	Moderately Carbonatized GABBRO -foliation 45 to c.a.
52.5	52.6	LAMPROPHYRE DYKE
52.6	54.0	Foliated Carbonatized GABBRO -foliation 50 to c.a.
54.0	54.3	Intensely Foliated GABBRO -foliation 55 to c.a.
54.3	54.6	Carbonatized GABBRO -weakly foliated
54.6	55.0	Foliated GABBRO 30% carbonate stringers parallel to foliation
55.0	56.5	Massive Carbonatized GABBRO
56.5	60.0	Pyritized-Silicified GABBRO -weakly to well banded 60 to c.a. -containing up to 20% pyrite -well developed breccia texture
60.0	61.0	Leucoxene-bearing GABBRO
61.0	61.7	Silicified-Brecciated Carbonate VEIN -well banded 70 to c.a., less than 3% pyrite
61.7	62.7	Leucoxene-bearing GABBRO
62.7	62.8	Silicified GABBRO -5% pyrite

SAMPLE #	FROM	TO	WIDTH	ASSAY	oz/ton
0043	13.2	13.6	0.4	Tr.	
0044	15.1	15.8	0.7	Tr.	
0045	47.0	47.85	0.85	Tr.	
0046	61.4	61.85	0.45	Tr.	
0047	62.5	62.8	0.3	Tr.	
0048	66.70	67.10	0.40	Tr.	

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 Howie Lake .....

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

LATITUDE 2+25W B-baseline ..... AZIMUTH 015 ..... PURPOSE Test Fiji Zone .....

DEPARTURE 10S ..... 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.

[redacted]	4.5	Leucoxene-bearing GABBRO -broken 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.

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

-weakly foliated (90 to [illegible].)

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 ----------

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	0.01
0171	28.10	29.20	1.10m	0.01
0172	29.45	30.0	0.55m	Tr.
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	

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.

		-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. -10% 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.	

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. SK-2

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 .....

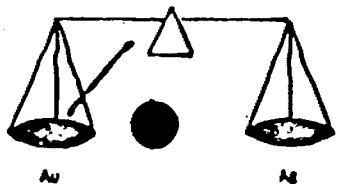
DIP TESTS

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.

Assay Results



CUSTOM FIRE ASSAYING

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

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

Esso Minerals Can. Ltd.

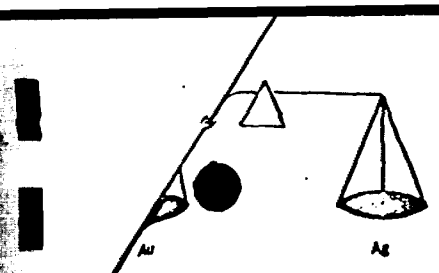
ASSAY CERTIFICATE

Date: Feb. 6-84

Sample No.	Description	oz/ton Au	oz/ton Ag
01		.02	
02		.05	
03		.02	
04		.01	
05		Trace	
06		"	
07		"	
08		"	
09		.01	
10		Trace	
11		.02	
12		TraCE	
13		"	
14		.01	

Assayer: Paul Okanski

Red Lake Printing Co. Ltd.



CUSTOM FIRE ASSAYING

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

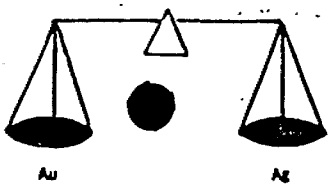
PAUL OKANSKI, Assayer
Box 253, Cochenour, Ontario POV 1LO

Esso Minerals Can. Ltd. **ASSAY CERTIFICATE** Date: Feb. 7-84

Sample No.	Description	oz/ton Au	oz/ton Ag
15		Trace	
16		"	
17		"	
18		.01	
19		.09	
20		Trace	
21		"	
22		X "	
23		"	
24		"	
		X	

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

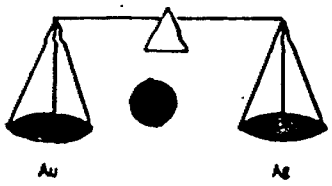
Esso Minerals Canada Ltd. **ASSAY CERTIFICATE** Date: Feb. 9-84

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 C Okanski

Red Lake Printing Co. Ltd.

PT



CUSTOM FIRE ASSAYING

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

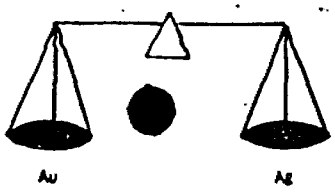
Phone: Bus. 662-8171
Res. 662-3361

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 Okanski

Red Lake Printing Co. Ltd.



CUSTOM FIRE ASSAYING

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

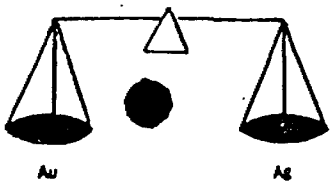
Phone: Bus. 662-8171
Res. 662-3361

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

Lake Printing Co. Ltd.



CUSTOM FIRE ASSAYING

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

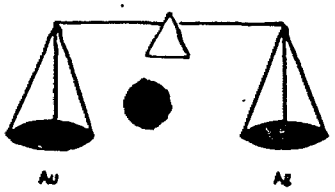
Phone: Bus. 662-8171
Res. 662-3361

Esso Minerals Can. Ltd. **ASSAY CERTIFICATE** Date: Feb. 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

Lake Printing Co Ltd.



CUSTOM FIRE ASSAYING

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

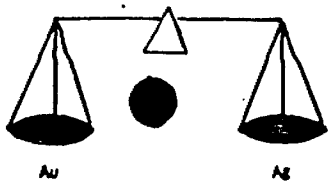
Phone: Bus. 662-8171
Res. 662-3361

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

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

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

Esso Minerals CZn. Ltd.

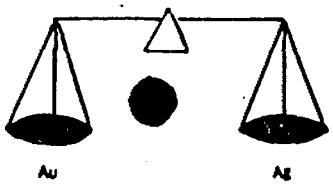
ASSAY CERTIFICATE

Date: Feb/ 20-84

Sample No.	Description	oz/ton Au	oz/ton Ag
112		Trace	
13		"	
~~12~~			
14		"	
15		"	
16		"	
17		"	

Assayer: Paul Okanski

Lake Printing Co. Ltd.



CUSTOM FIRE ASSAYING

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

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

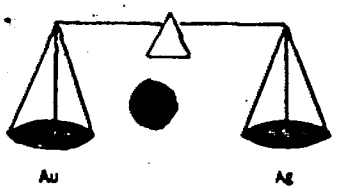
Esso Minerals Can. Ltd. **ASSAY CERTIFICATE** Date: Feb. 21-84

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

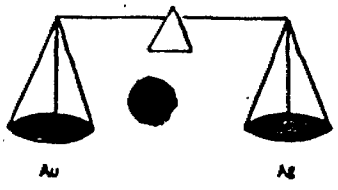
Esso Minerals Can. Ltd. **ASSAY CERTIFICATE** Date: Feb. 27-84

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

Assayer: Paul A Okanski

Lake Printing Co. Ltd.

E.P.M.



CUSTOM FIRE ASSAYING

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

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

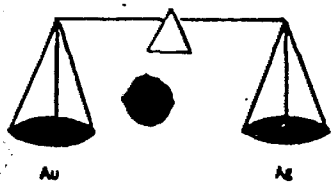
Esso Minerals Can. Ltd. **ASSAY CERTIFICATE** Date: Mar. 13-84

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 Okanski

Lake Printing Co. Ltd.

E.P.M Montor



CUSTOM FIRE ASSAYING

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

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

Esso Minerals Can. Ltd.

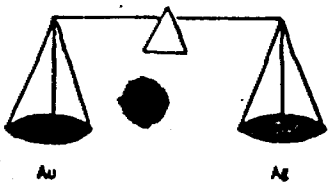
ASSAY CERTIFICATE

Date: Mar. 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 R 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. 16-84

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

Assayer: Paul R Okanski

Lake Printing Co. Ltd.

Ministry of Natural Resources
Ontario

Report of Work

Assess files

#43185

Instructions – Supply required data on a separate form for each ... to be recorded (see table below).

The f

52F08NW0385 21 KAWASHEGAMUK LAKE

900

Name and Postal Address of Recorded Holder

ESSO RESOURCES CANADA LIMITED

SUITE 1812, 120 ADELAIDE ST. W., TORONTO ONT P.O BOX 4629, M5W 1K3

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed ~~6015~~ 56462

for Performance of the following work. (Check one only)

- ☐ Manual Work
- ☐ Shaft Sinking Drifting or other Lateral Work.
- ☐ Compressed Air, other Power driven or mechanical equip.
- ☐ Power Stripping
- ☑ Diamond or other Core drilling
- ☐ Land Survey

Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
	SEE ATTACHED							

All the work was performed on Mining Claim(s): K762803, K762804, K762805, K762809

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Diamond Drilling preformed by Longyear Canada Ltd. between Oct 19, 1983 and March 19, 1984. A total of 1866.0 metres of BQ sized core was drilled and logged by:

E.P. Moreton
101 Ronborough St. E.
Toronto, Ontario
M4W 1V9

Peter Tyler
914 Vistola Dr.
Pickering, Ontario
L1W 2L5

Date of Report	Recorded Holder or Agent (Signature)
FEB 18, 1985	

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

E.P. MORETON c/o ESSO MINERALS P.O BOX 4629, TORONTO, ONT M5W 1K3

Date Certified	Certified by (Signature)
FEB 18, 1985	

Table of Information/Attachments Required by the Mining Recorder

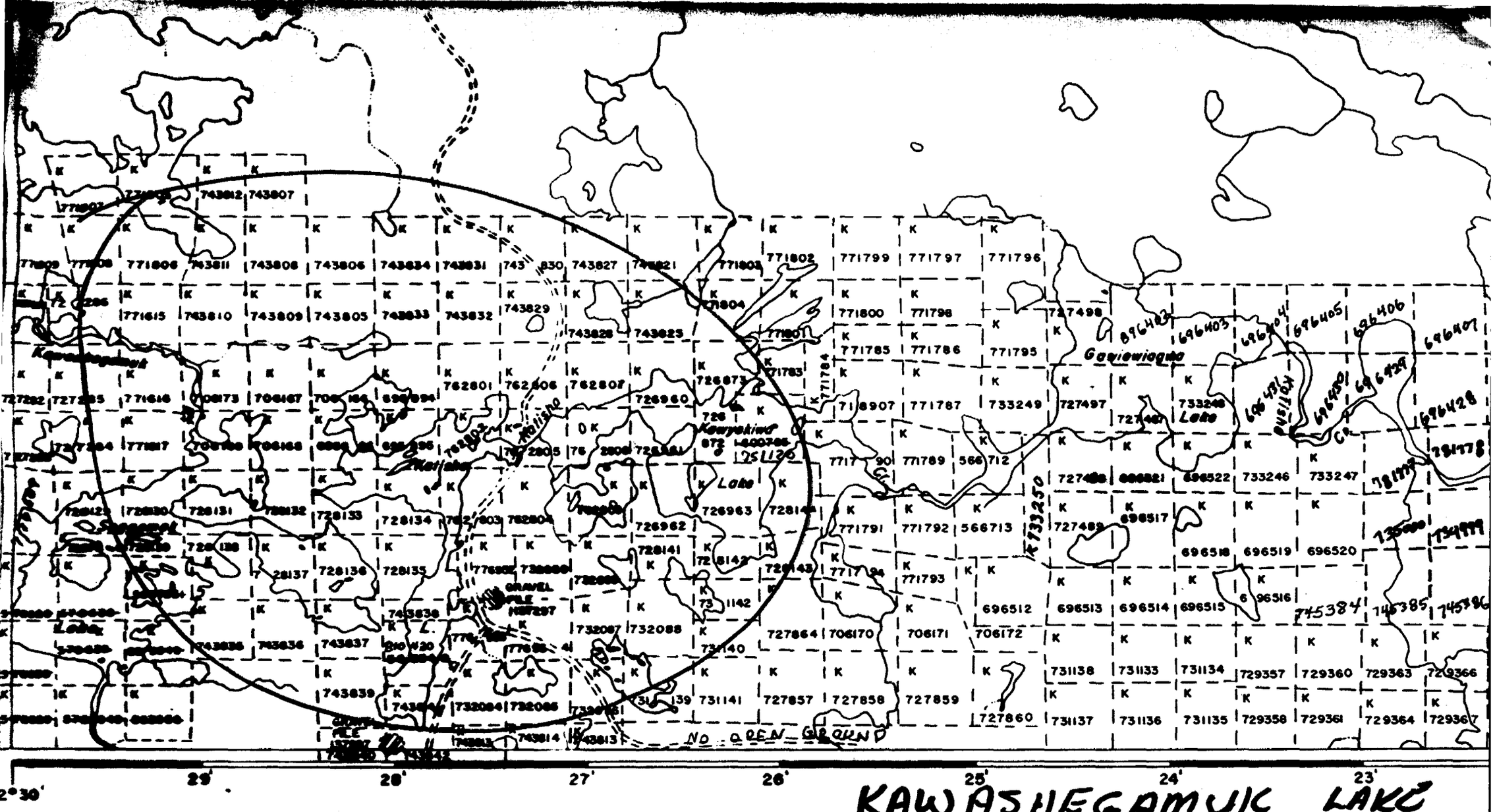
Type of Work	Specific Information per type	Other Information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment. 695894	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. **Note:** Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil

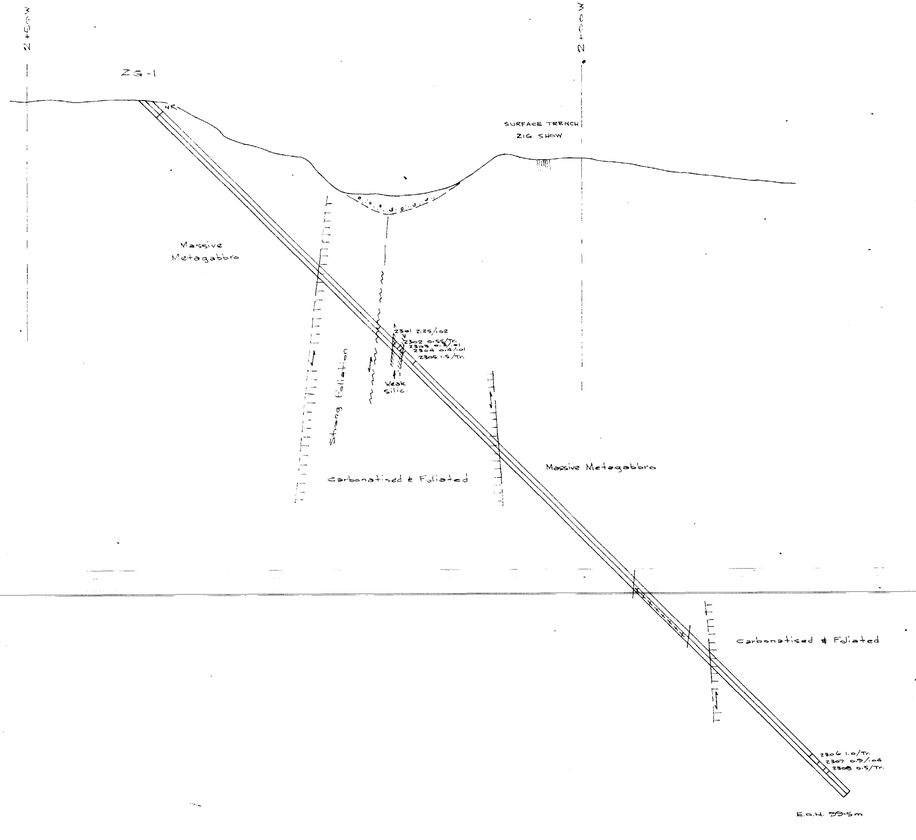
Mining Claims - Distribution of Credits - ~~[illegible]~~ 84.60 BM man days/Claim
Meggisi Lake (M2553) Kawashegamuk Lake (M2573)
Wapageisi Lake (M2056) Boyer Lake (M2582)

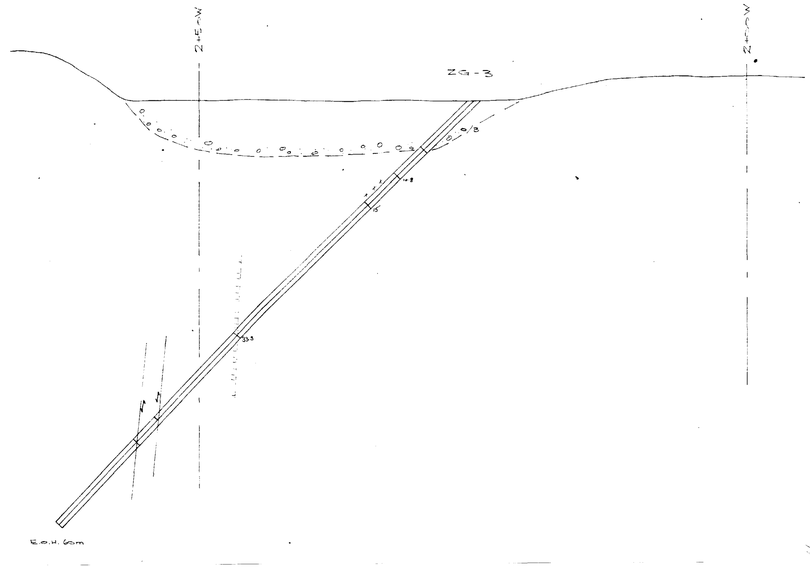
K 743834	K 706169	K 762803
743831	751120	~~762804~~ Dup BM
743830	695896	762809
743827	695895	726962
743833	762802	726963
743832	762805	743838
743829	762808	776953 BM 776953
743828	726961	776954
706168	726872	732087
706167	771790	732088
706166	771789	731142
695894	728138	731140 Dup
762801	728137	743841
762806	728136	732084
762804	728135	732085
726960	776952	732086
726873	732089	731139
771783	732090	731141
771784	728141	~~731140~~ BM
771800	728142	~~731142~~ DON
771798	728143	~~010400~~ MAC CHERPEN
771785	728131	
771786	728132	
718907	728133	
771787	728134	

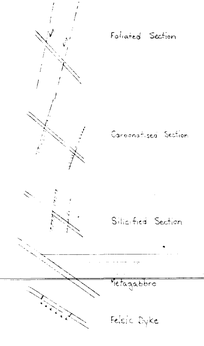
67 TOTAL

0003A
0045A


NO OPEN GROUND
GRAVEL PILE
Lake
Kawashegamuk
Gauniewiogama
Matabau
Kawashegamuk Lake
WAPAGEISI LA
6-2585







KAMSHEGAMUK LK, #21

ESSO MINERALS CANADA
A DIV. OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY
KATISHA GRID
DDH SECTION ZG-1, ZG-3

ACCOUNT Nº M670 FILE Nº ONT.70 TORONTO

DRAWN BY:	DATE	NTS
P. TYLER	DEC '83	52 F/8

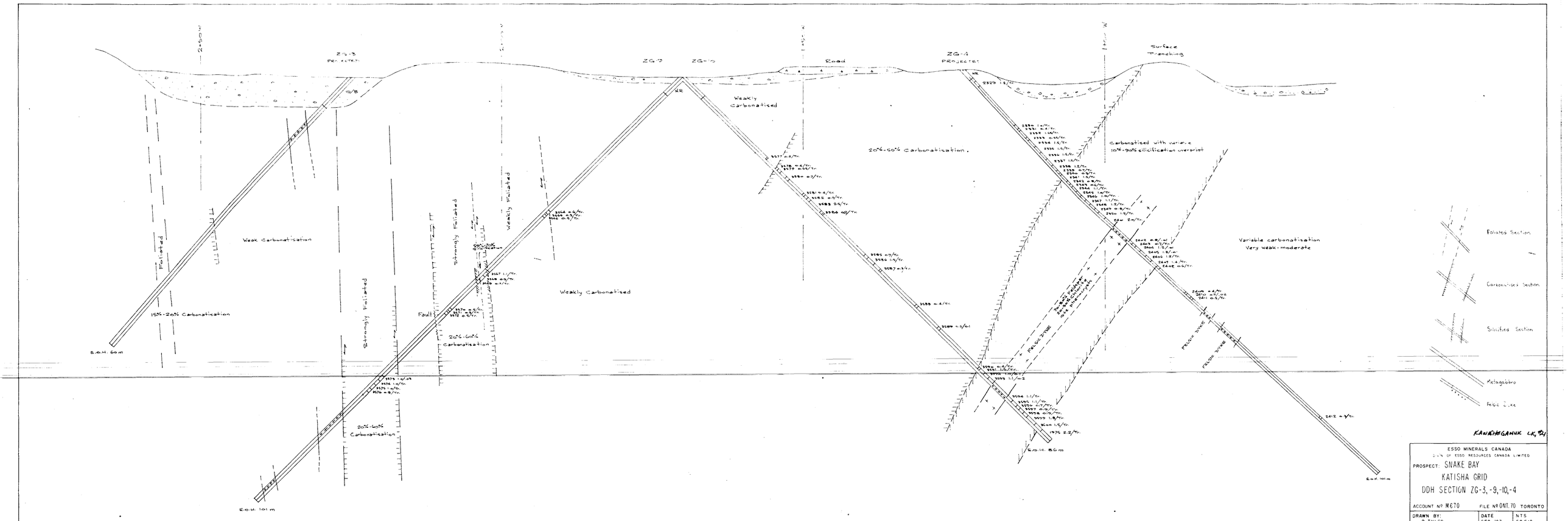
DWG Nº 10,761 MAP Nº

SCALE 1:250 0 10 M

Compiled & Report By
Dated

200

200

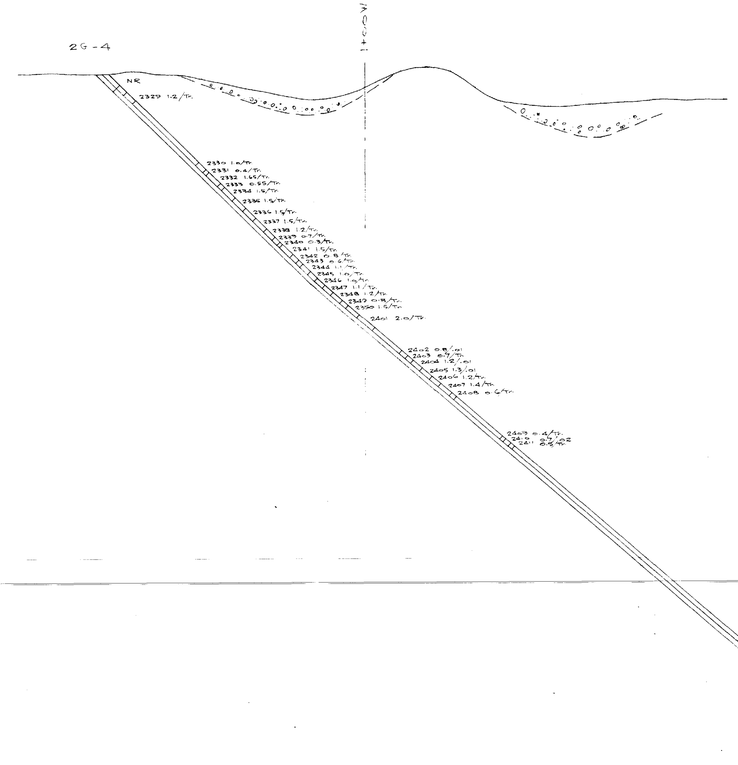


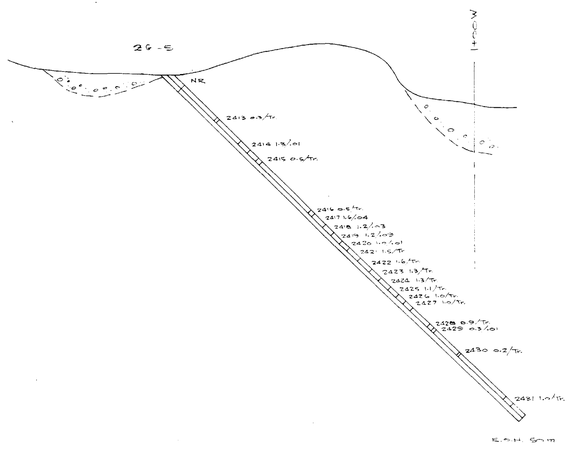
ESSO MINERALS CANADA
A DIV. OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY
KATISHA GRID
DDH SECTION ZG-3, -9, -10, -4

ACCOUNT Nº M670	FILE Nº ONT. 70 TORONTO	
DRAWN BY: P. TYLER	DATE DEC. '83	NTS 52 F/8
DWG Nº 10,762	MAP Nº	
SCALE 1:250 0 10 M		
To Accompany & Report By, Dated		

210





Faulted Section

Unconformable Section

Diabase Dyke

KAWACHEGAMUK LK. #21

ESSO MINERALS CANADA
A DIV. OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY
KATISHA GRID
DDH SECTION ZG-4, ZG-5

ACCOUNT Nº M 670 FILE Nº ONT 70 TORONTO

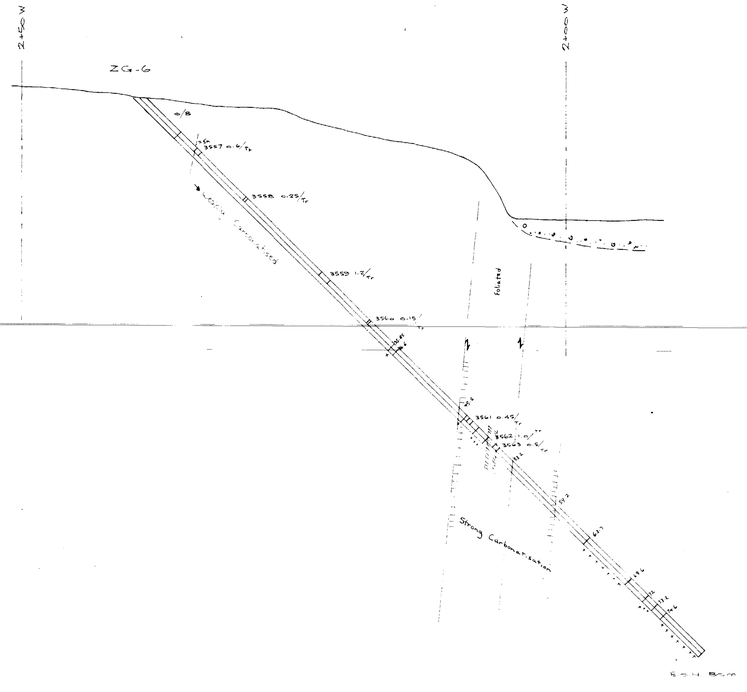
DRAWN BY:	DATE:	N.T.S.
P. TYLER	DEC. '83	52 F/8

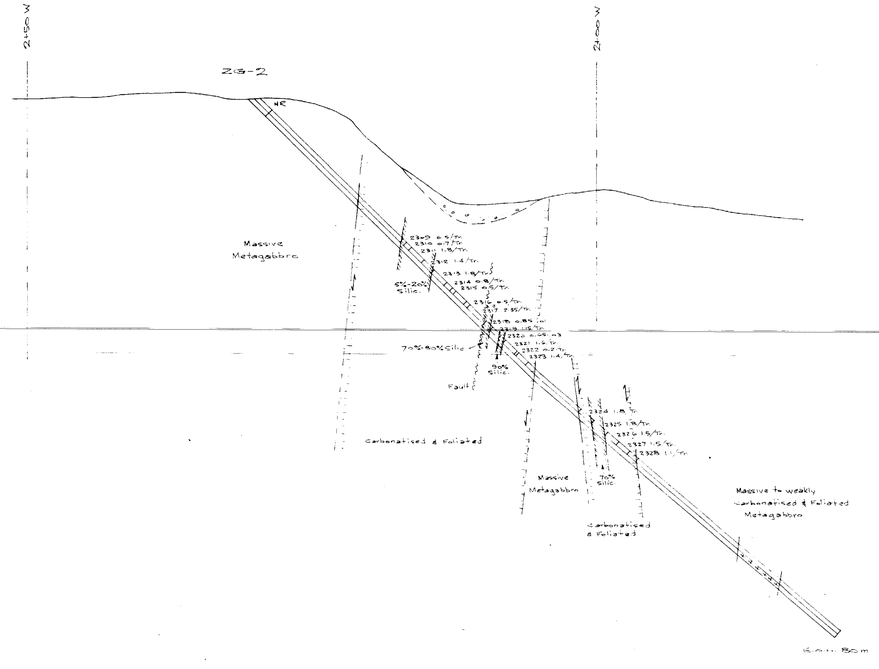
DWG Nº 1076 3 MAP Nº

SCALE
1:250 0 10 M

To Accompany A Report By
Dated

220





KAWAGAMAW LK., #21

ESSO MINERALS CANADA
A DIV. OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY
KATISHA GRID
DDH SECTION ZG-6, ZG-2

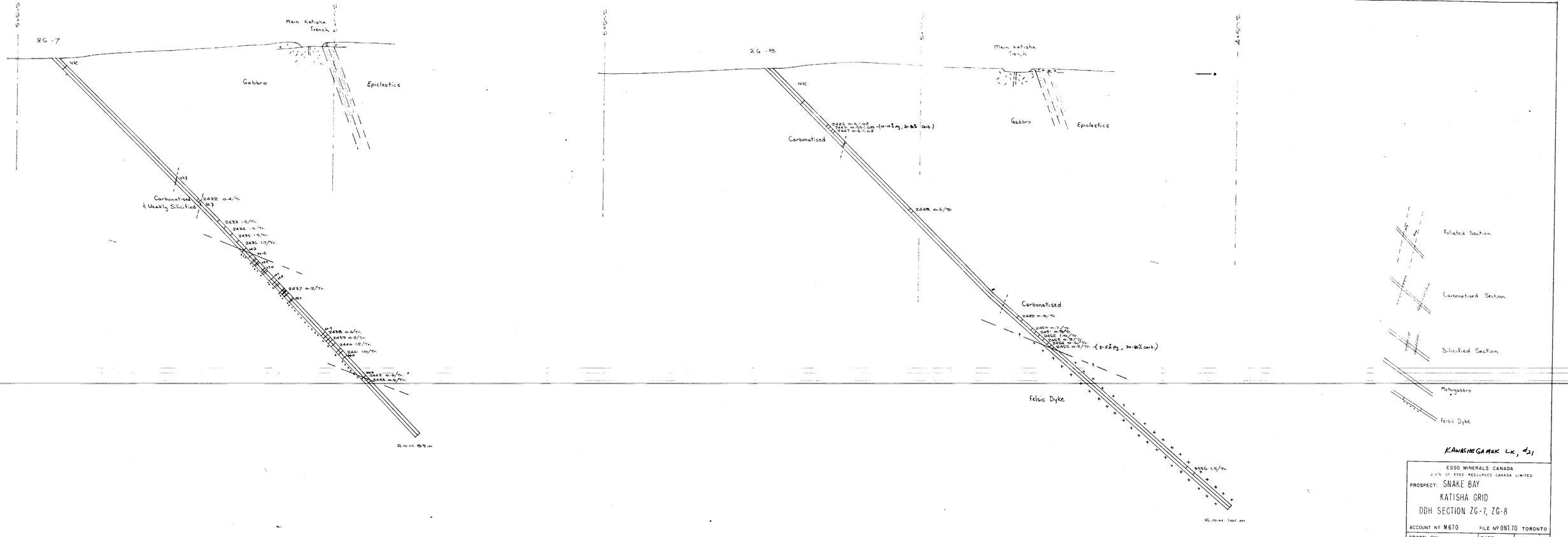
ACCOUNT Nº M670 FILE Nº ONT.70 TORONTO

DRAWN BY:	DATE	NTS
P. TYLER	DEC. '82	52 F/8

DWG Nº 10764 MAP Nº

SCALE
1:250 0 10 M

Submitted A. Report By
Dated



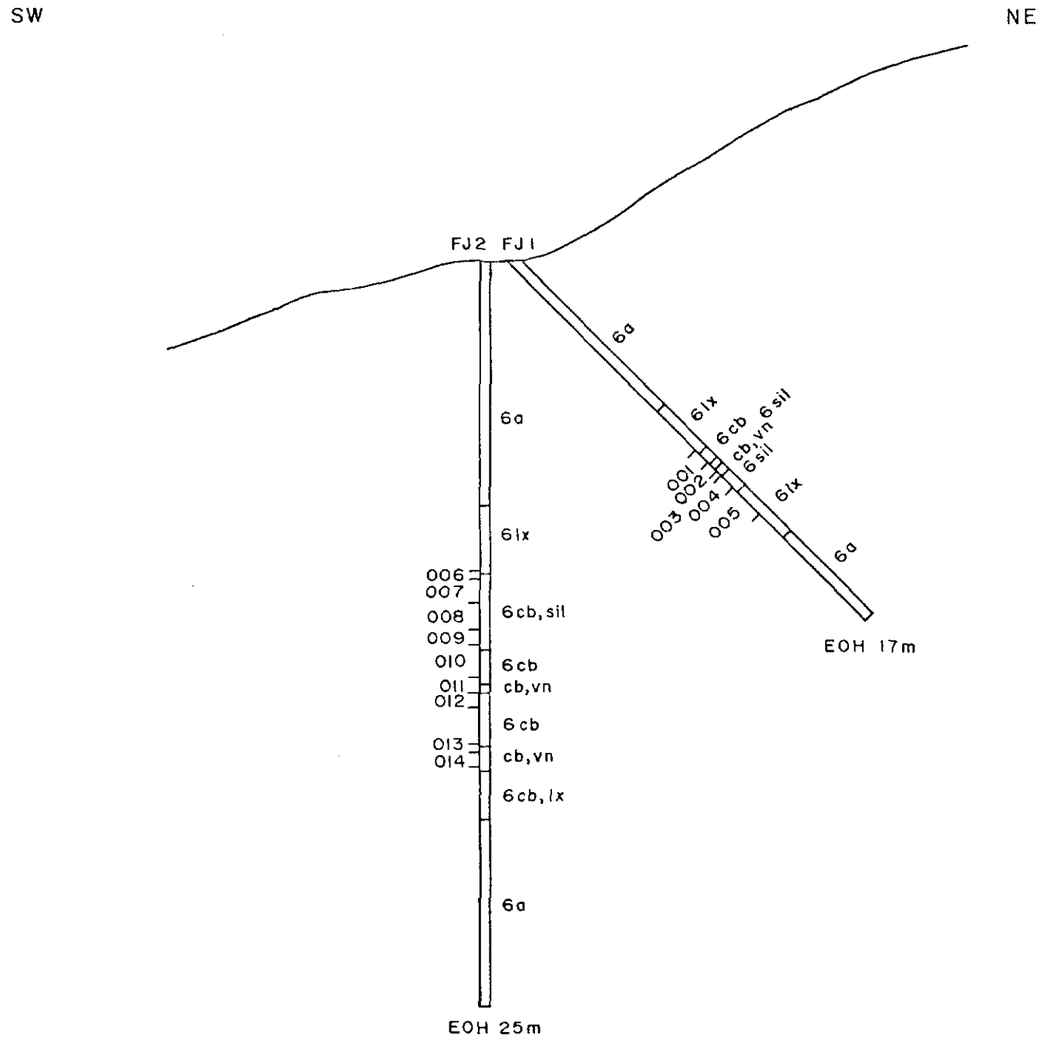
KAWASHEGAMUK LK, #21

ESSO MINERALS CANADA
D.V.N. OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY
KATISHA GRID
DDH SECTION ZG-7, ZG-8

ACCOUNT Nº M670	FILE Nº ONT.70 TORONTO	
DRAWN BY: P. TYLER	DATE DEC '83	NTS 52F/8
DWG. Nº C765	MAP Nº	
SCALE 1:250 0 10 M		
To Accompany A Report By Dated	RAT.	

240



#21

ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY
FIJI ZONE
DDH SECTION FJ1 & FJ2

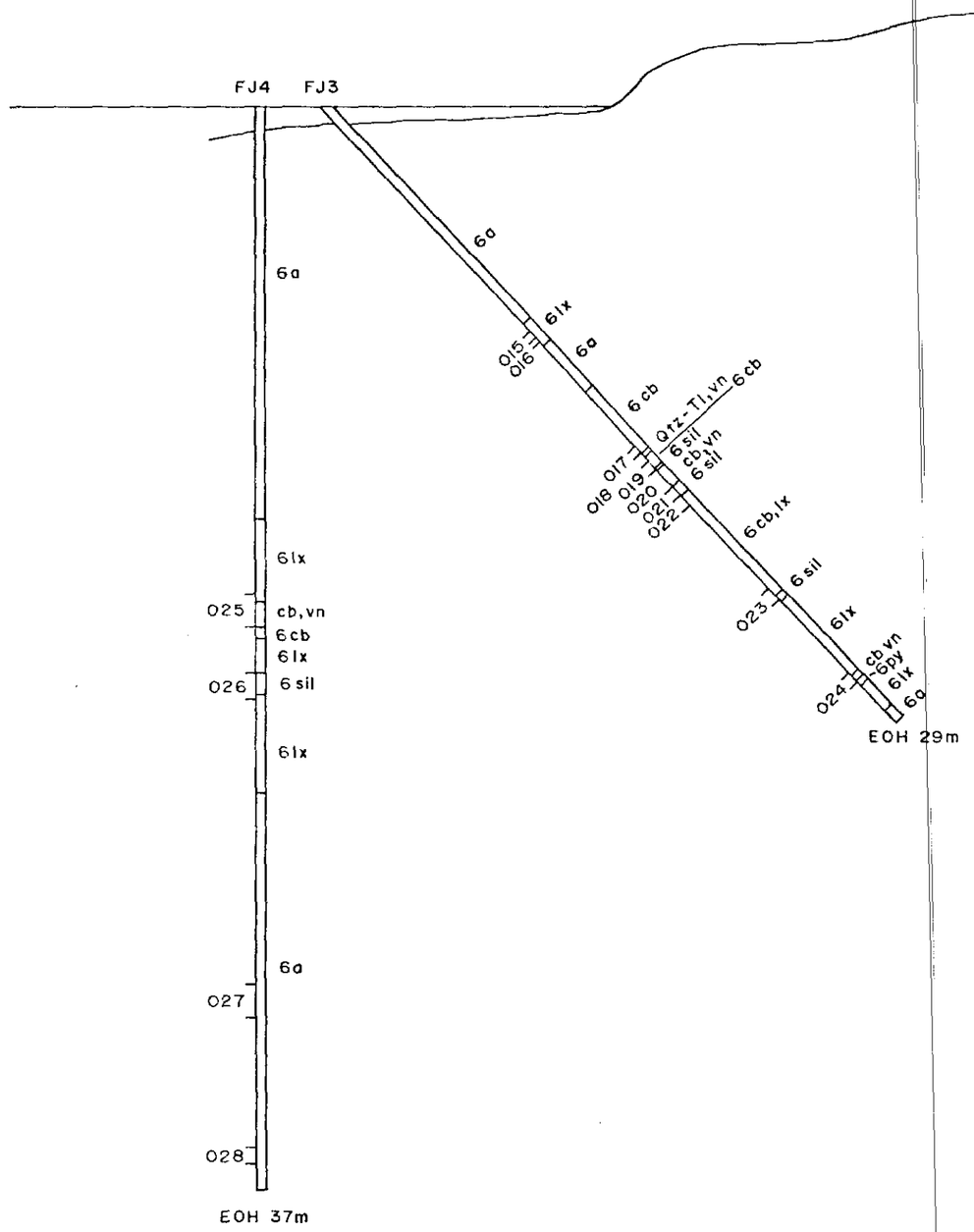
ACCOUNT Nº M670	FILE Nº	TORONTO
DRAWN BY: R. JACKSON	DATE MAR. '84	NTS 52F/8
DWG. Nº 10778	MAP Nº	

SCALE
1:200 0 5 m

To Accompany a Report By:
Dated

SW

NE



#21

ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY
FIJI ZONE

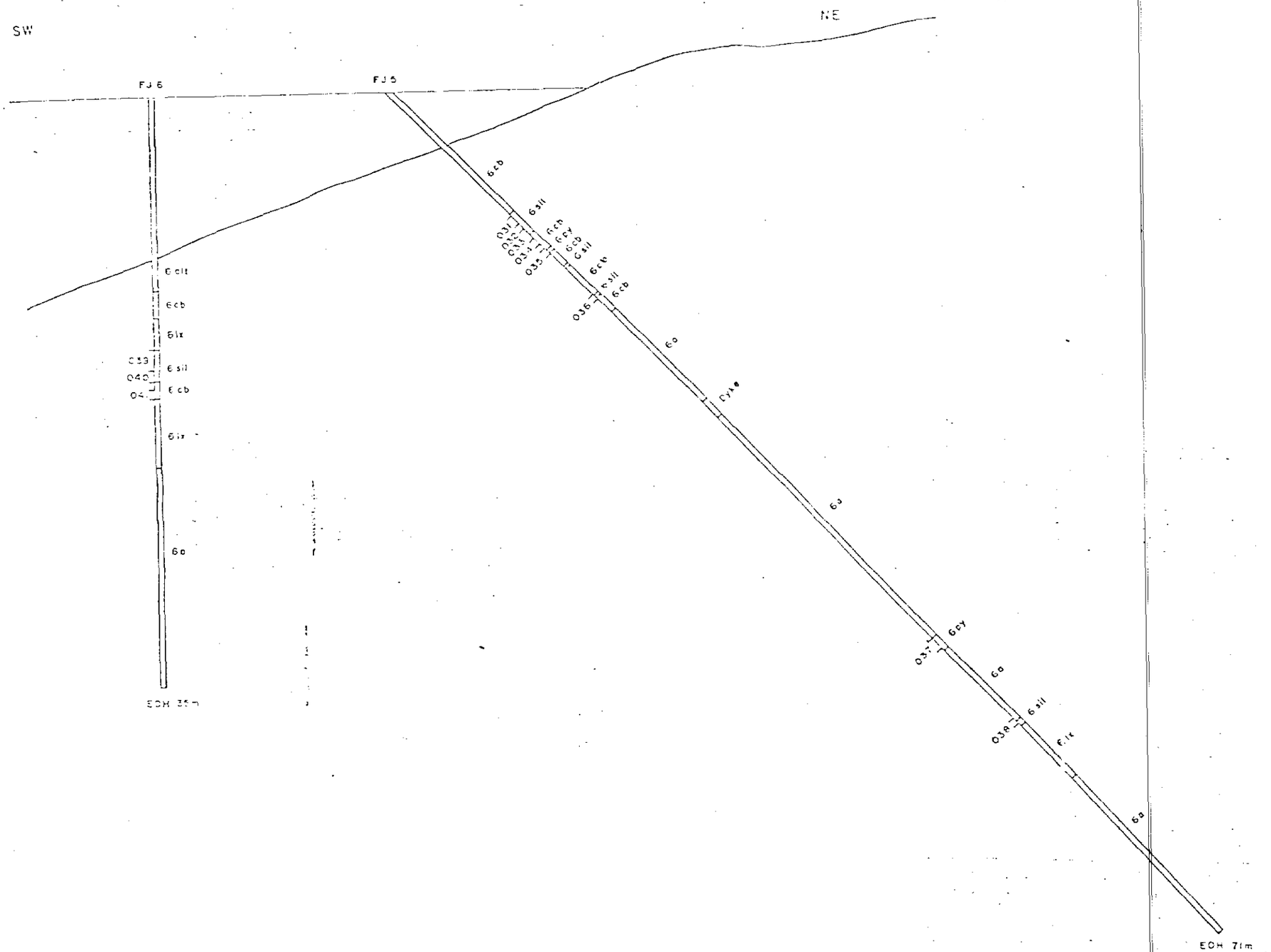
DDH SECTION FJ3 & FJ4

ACCOUNT Nº M670	FILE Nº	TORONTO
DRAWN BY: R. JACKSON	DATE MAR. '84	NTS 52F/8
DWG. Nº 10779	MAP Nº	

SCALE
1:200 0 5m

To Accompany A Report By
Dated:

260



#21

ESSO MINERALS CANADA
A DIVISION OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY
FIJI ZONE
DDH SECTION FJ5 & FJ6

ACCOUNT No M670 FILE No ONT.70-0-ENTO

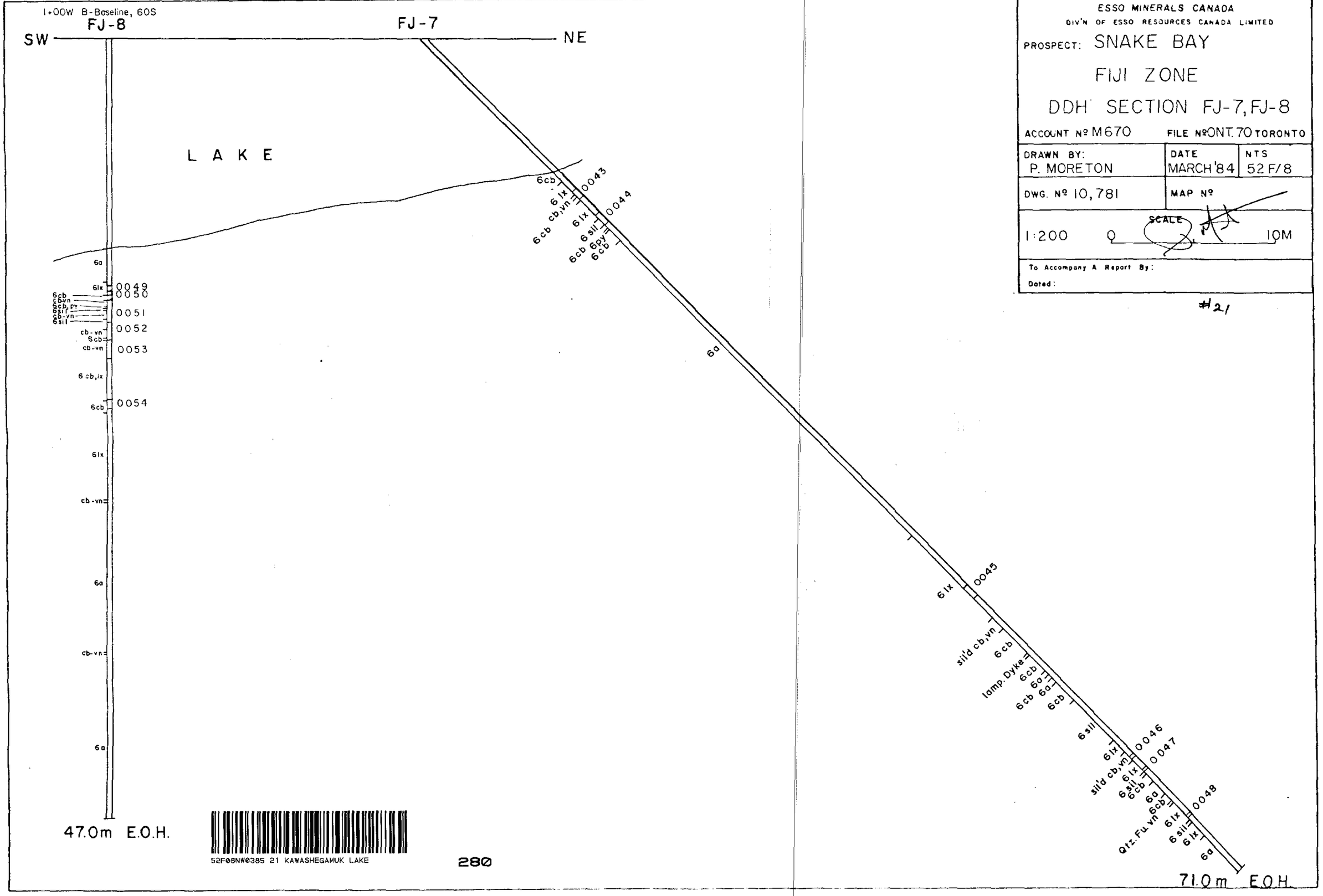
DRAWN BY:	DATE	NTS
R JACKSON	MAR '84	52F/8

DWG. No 10760 MAP No

SCALE 1:200 0 10 m

Re-drawing & Mylar By:

Date: 270



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

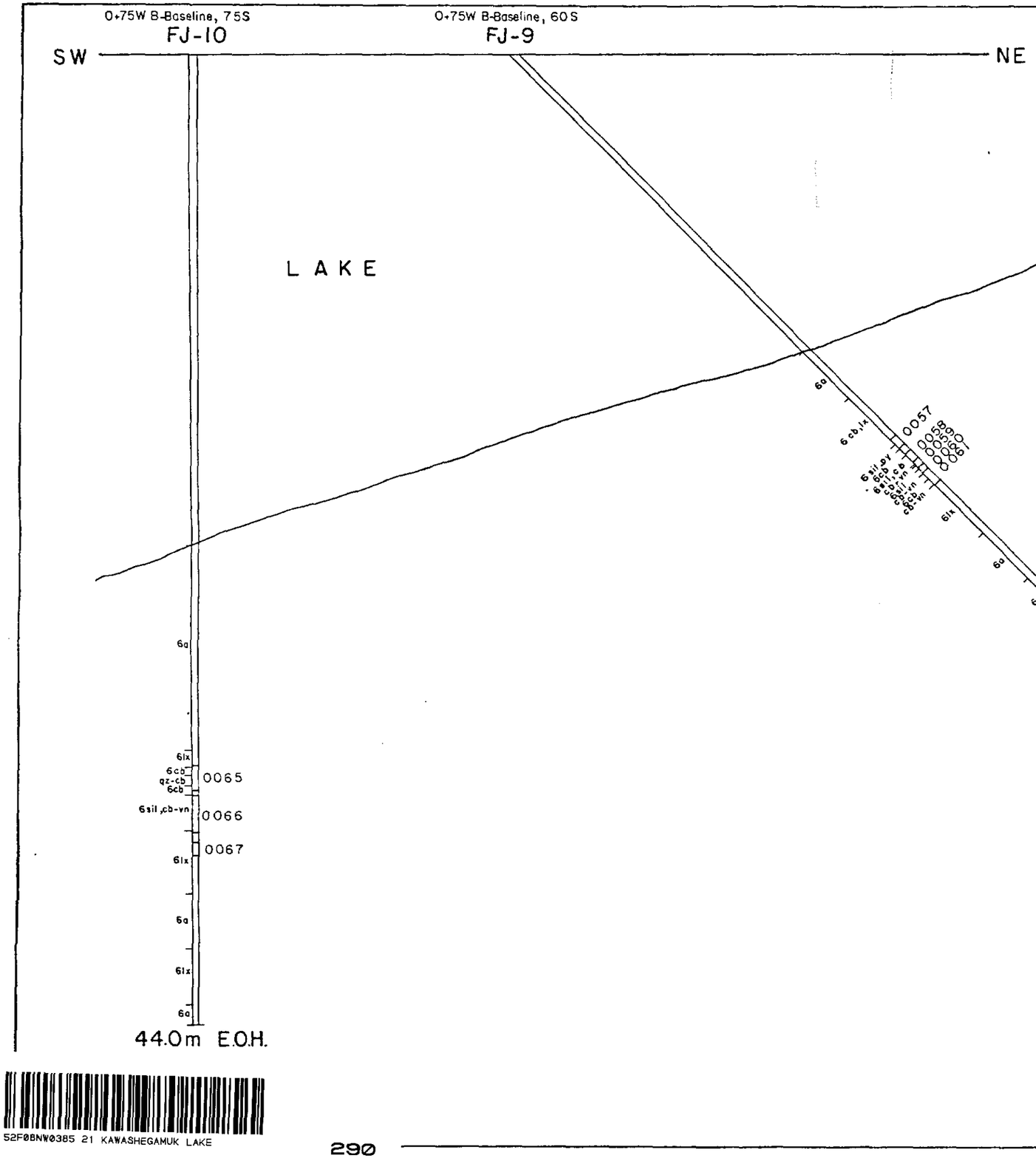
DRAWN BY:	DATE	NTS
P. MORETON	MARCH '84	52 F/8
DWG. Nº 10,781	MAP Nº	

SCALE 1:200 0 10M

To Accompany A Report By:

Dated:

#21



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:

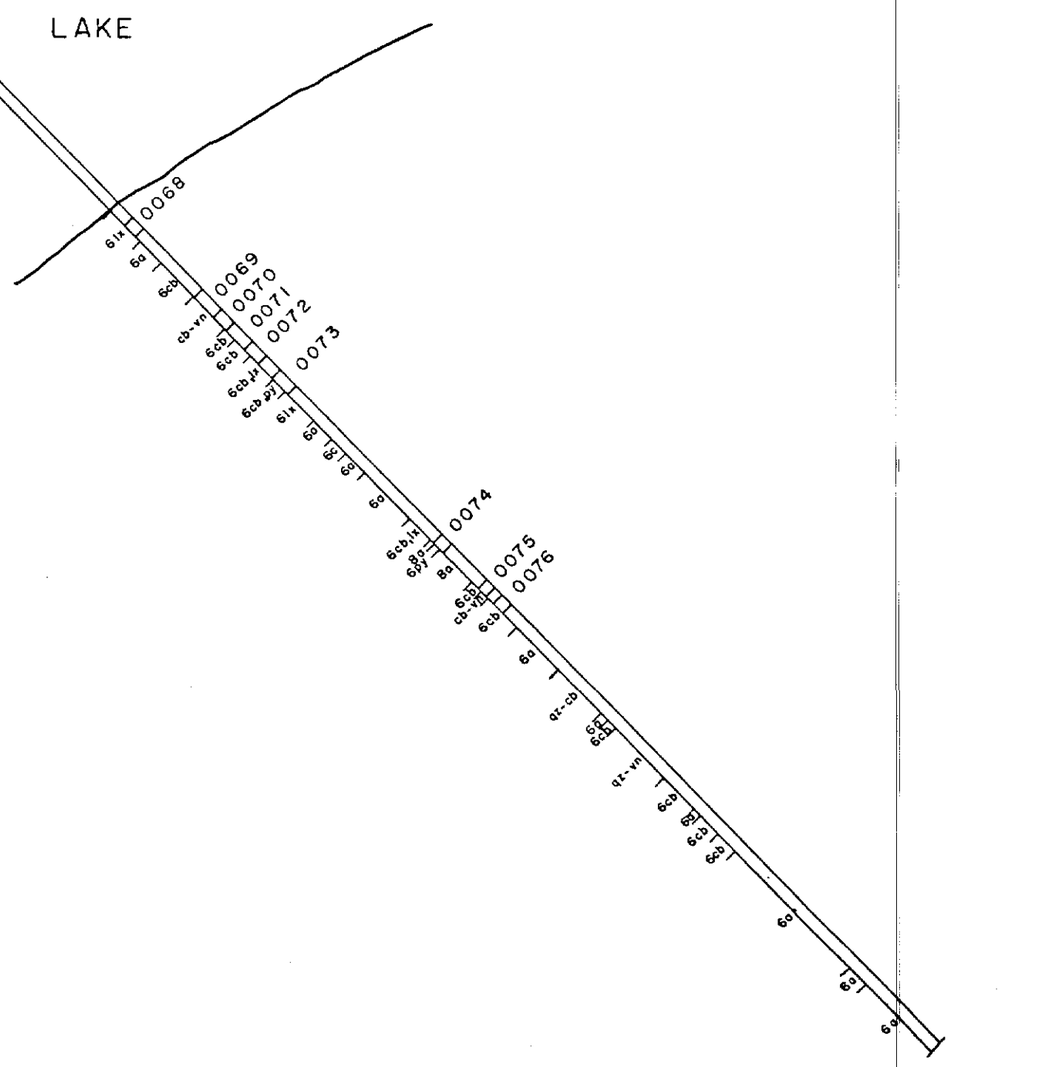
Dated:

#21

0+50W B-Baseline, 60S

FJ - 11

SW — NE



#21

ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY

FIJI ZONE

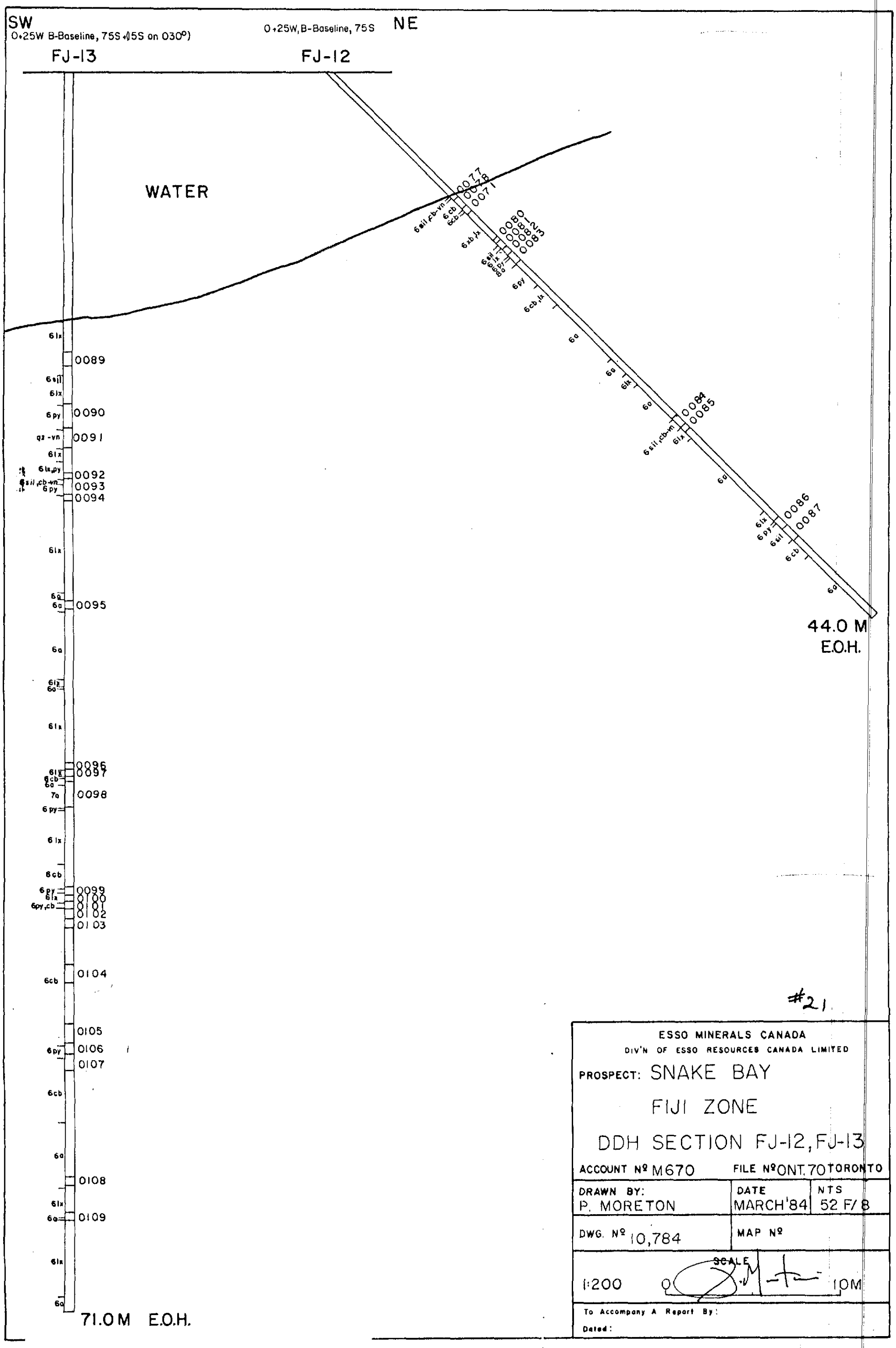
DDH SECTION FJ-11

ACCOUNT Nº M670 FILE Nº ONT.70TORONTO

DRAWN BY:	DATE	NTS
P. MORETON	MARCH'84	52F/8
DWG. Nº 10,783	MAP Nº	
1:200	SCALE 0 10M	

To Accompany A Report By:

Dated:



#21

ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY

FIJI ZONE

DDH SECTION FJ-12, FJ-13

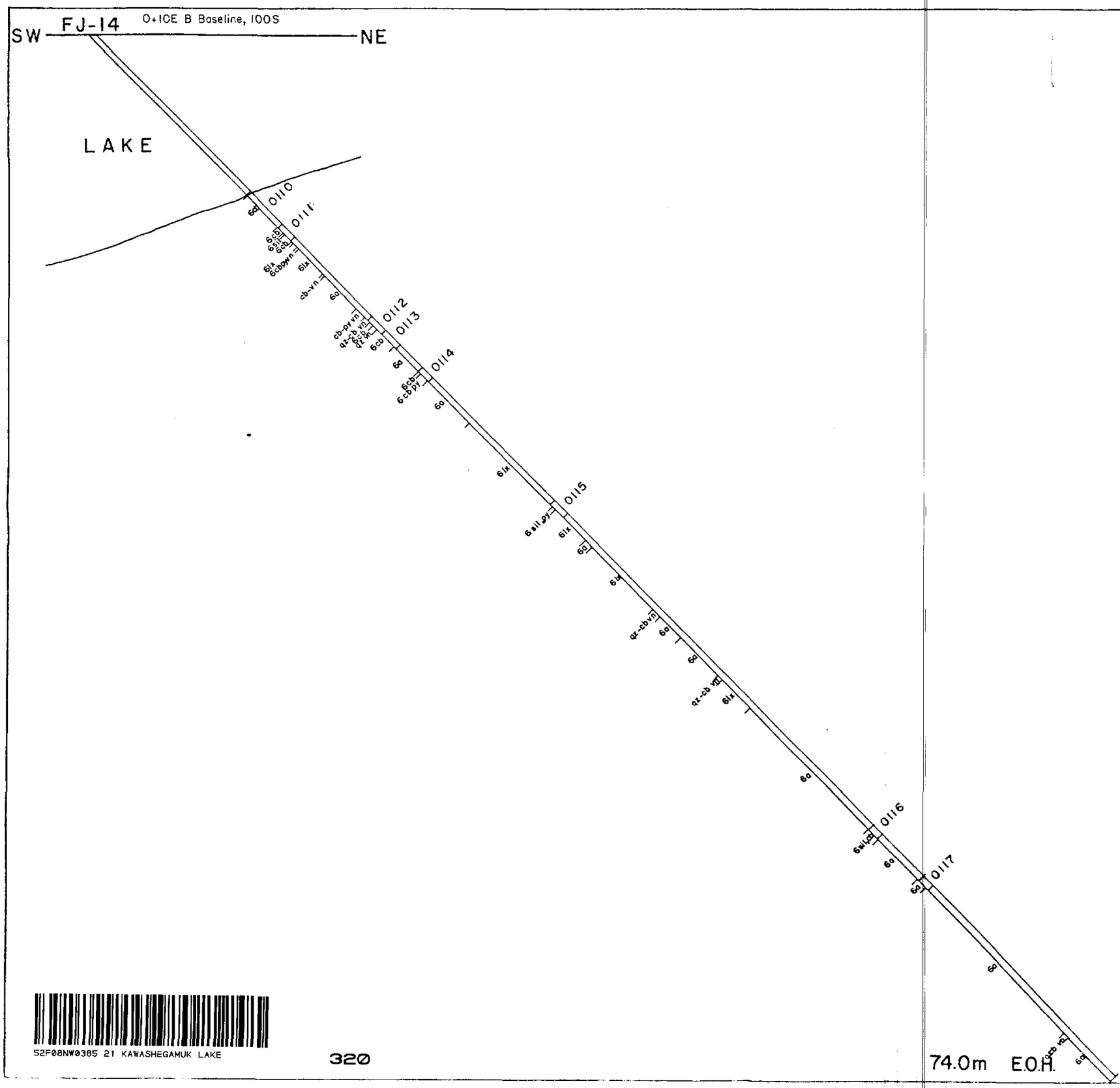
ACCOUNT Nº M670 FILE Nº ONT.70 TORONTO

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:



#21

ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY

FIJI ZONE

DDH SECTION FJ-14

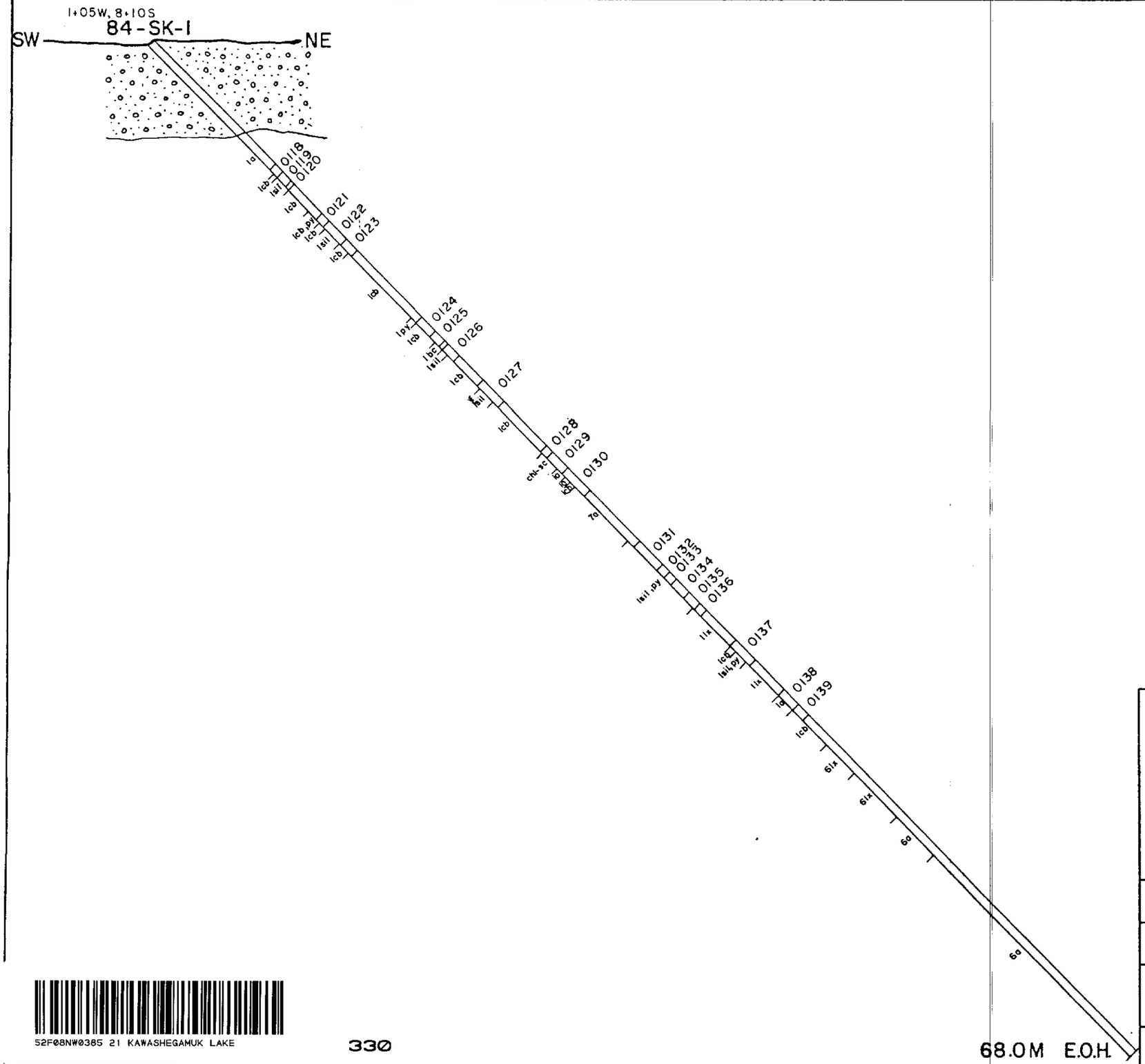
ACCOUNT Nº M 670 FILE Nº ONT.70 TORONTO

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

SCALE 1:200 0 10M

To Accompany A Report By:

Dated:



#21

ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY
SOUTH KATISHA
DDH SECTION SK-I

ACCOUNT Nº M670 — FILE Nº ONT.70 TORONTO

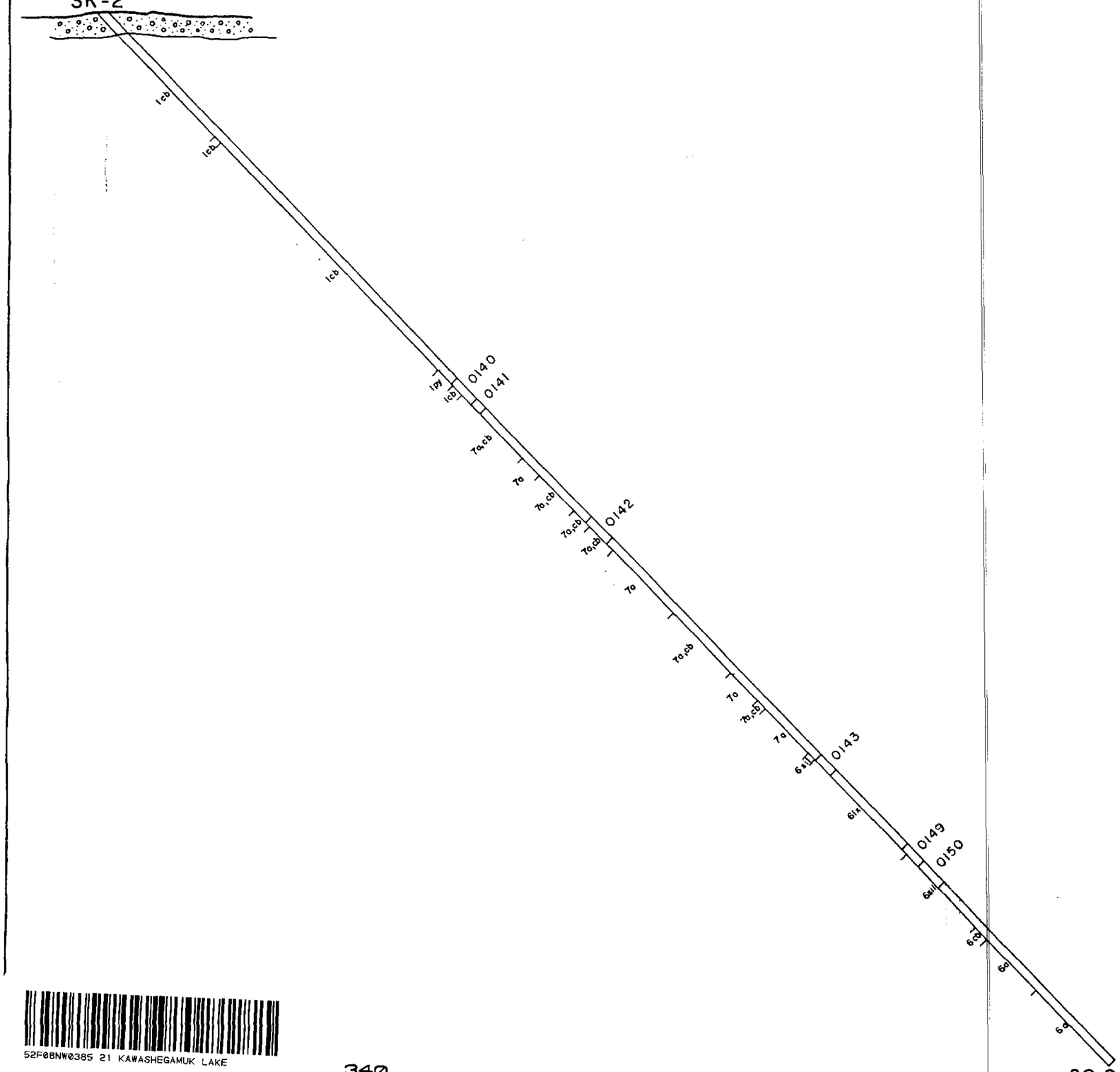
DRAWN BY:	DATE	NTS
P. MORETON	MARCH'84	52F/8
DWG. Nº 10,786	MAP Nº	

SCALE 1:200 0 10M

To Accompany A Report By:
Dated:

SW 1+55W, 7+10S NE

SK-2



68.0M E.O.H.

#21

ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

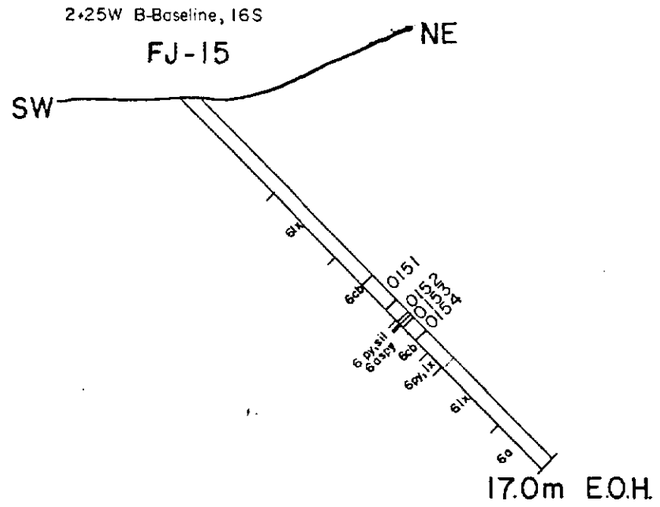
PROSPECT: SNAKE BAY
SOUTH KATISHA
DDH SECTION SK-2

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:



#21

ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY

FIJI ZONE

DDH SECTION FJ-15

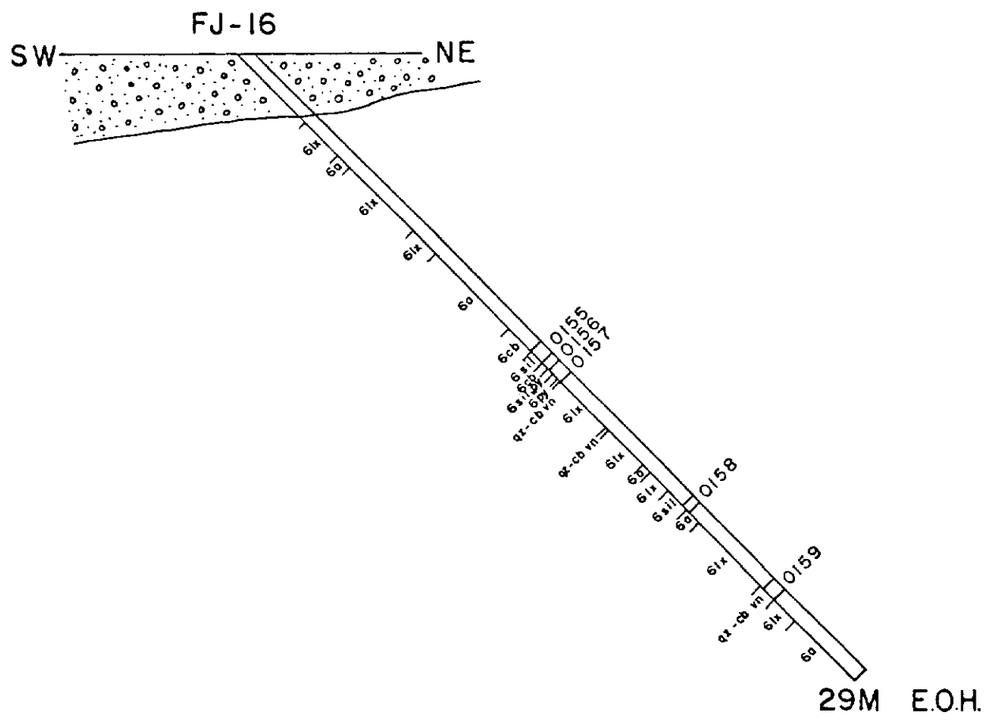
ACCOUNT Nº M670 FILE Nº ONT.70TORONTO

DRAWN BY:	DATE	NTS
P.MORETON / REG	MARCH'84	52F/8
DWG. Nº 10,788	MAP Nº	
1:200	SCALE 0 10M	

To Accompany A Report By:

Dated:

2+50W B-Baseline, 14S



#21

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	

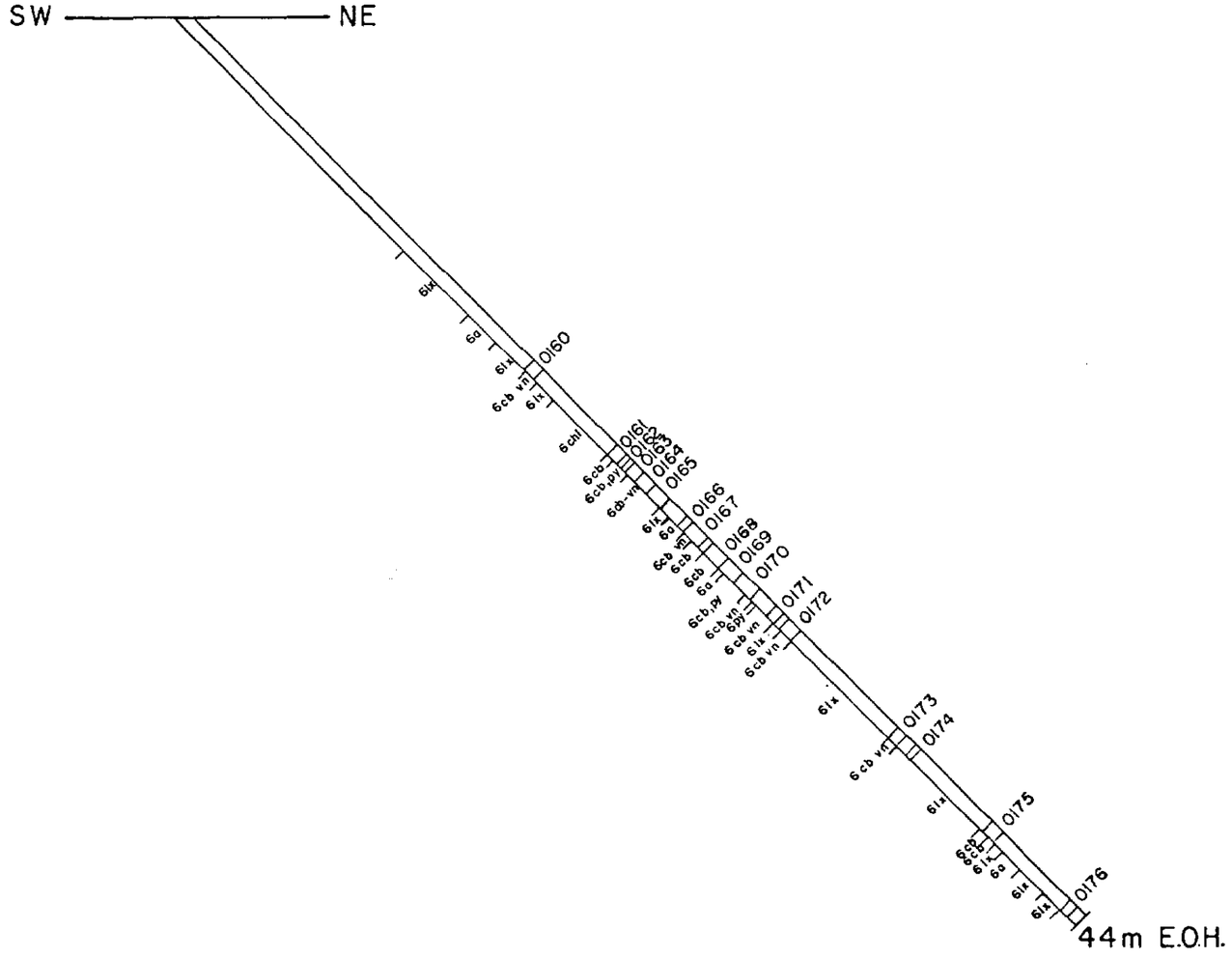
SCALE
1:200 0 10M

To Accompany A Report By:
Dated

0+35E B Baseline, 100 S

FJ-17

SW — NE



44m E.O.H.

#21

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

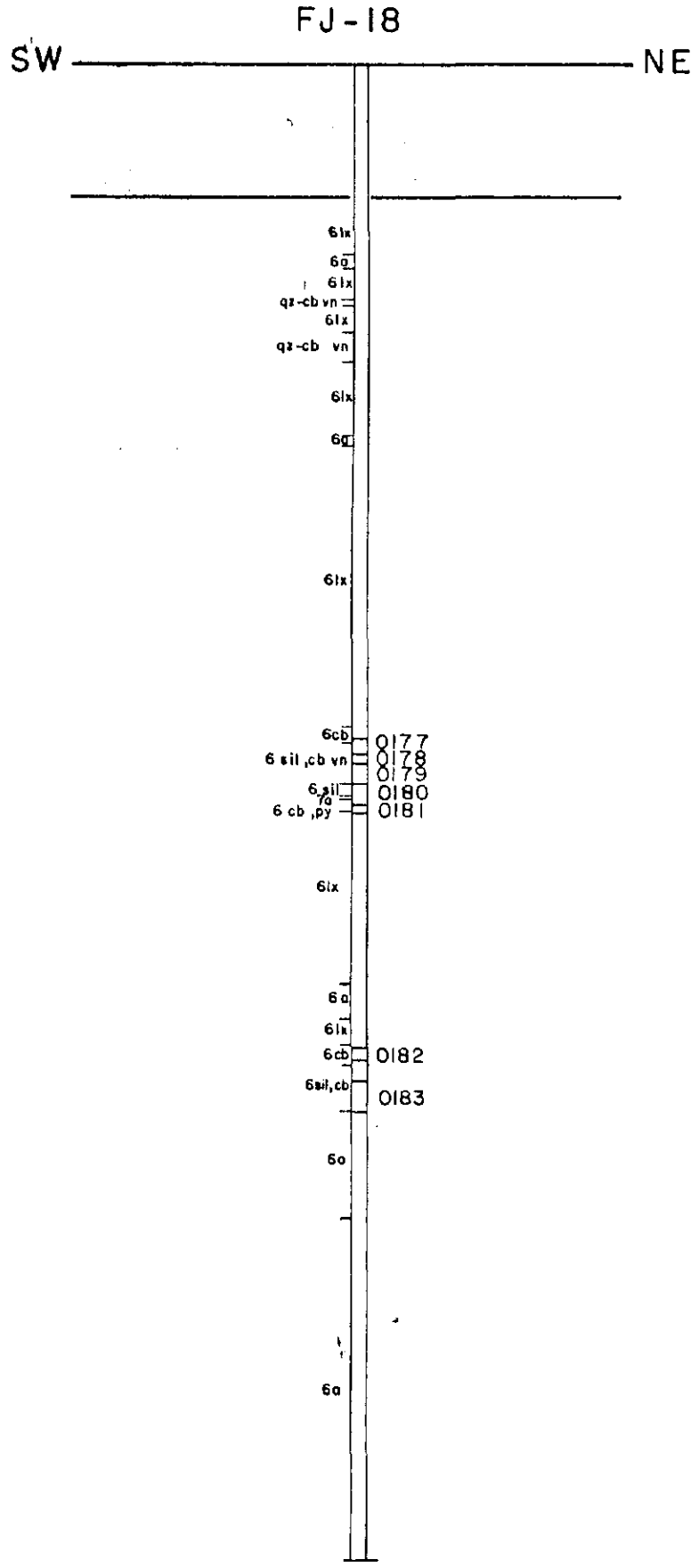
1:200 0 10M

To Accompany A Report By:

Dated:

0-75E B-Baseline, 63S

FJ-18



#21

ESSO MINERALS CANADA
DIV'N OF ESSO RESOURCES CANADA LIMITED

PROSPECT: SNAKE BAY

FIJI ZONE

DDH SECTION FJ-18

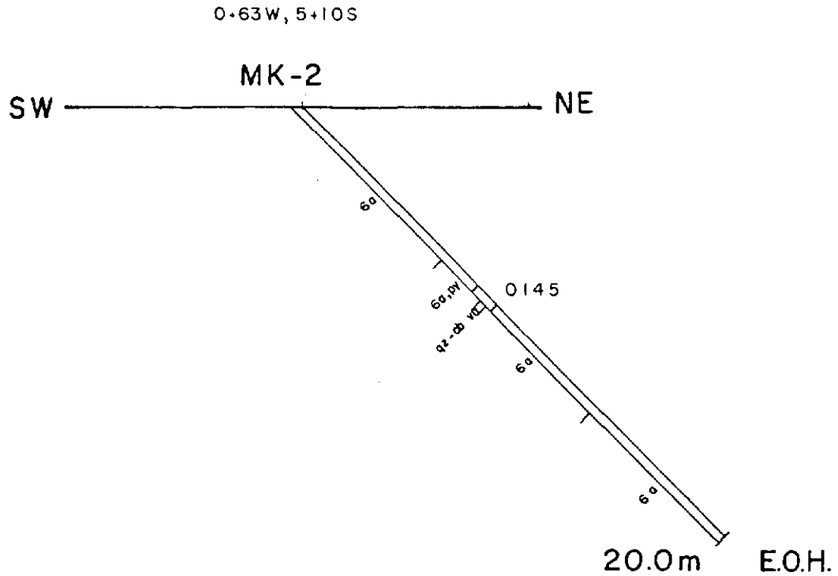
ACCOUNT Nº M670 FILE Nº ONT.70TORONTO

DRAWN BY:	DATE	NTS
P.MORETON/REG	MARCH'84	52F/8
DWG. Nº 10,791	MAP Nº	
SCALE 1:200	TOM	

To Accompany A Report By:

Dated:

0+63W, 5+10S



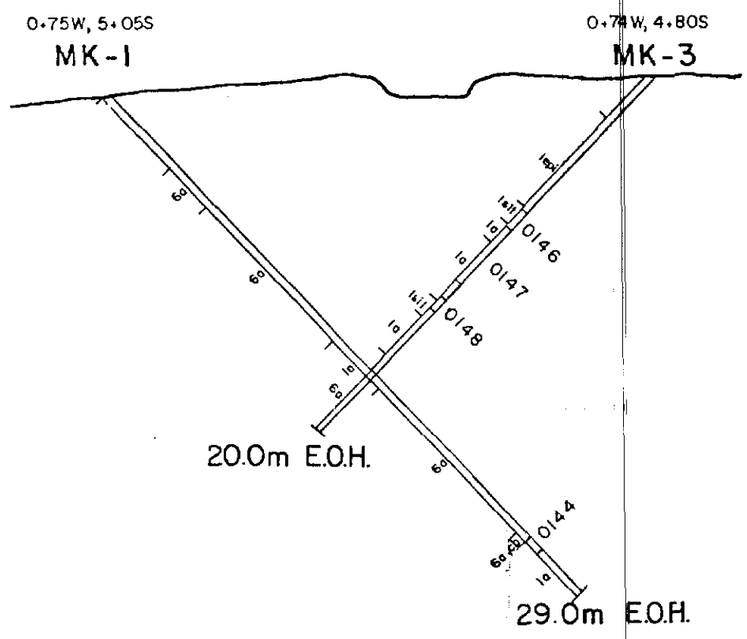
#21

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

PROSPECT: SNAKE BAY
MAIN KATISHA

DDH SECTION MK-2

ACCOUNT Nº M670	FILE Nº ONT. 70	TORONTO
SCALE 1:200 0 10M		DATE MAR. 84
AUTHOR P. MORETON	NTS 52F/8	DWG. Nº 10,931



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

#21

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 NºONT.70 TORONTO

DRAWN BY:	DATE	NTS
P. MORETON / REG	MARCH'84	52F/8
DWG. Nº 10,793	MAP Nº	
SCALE 1:250	0 ~~1 10M~~	

To Accompany A Report By:

Dated:

400