ASSESSMENT REPORT

DIAMOND DRILLING ON THE FX-2 MINERAL CLAIM

KINGFISHER PROPERTY
Latitude 50° 44' N
Longitude 118° 44' W

VERNON MINING DIVISION
BRITISH COLUMBIA

NTS 82/L 10 and 15

on behalf of

COLBY MINES LIMITED

by

T.J.R. Godfrey, P. Eng.
A.H. Taylor, M.Sc.
D.L. Murray, M.Sc.

DECEMBER 1, 1977

INTRODUCTION

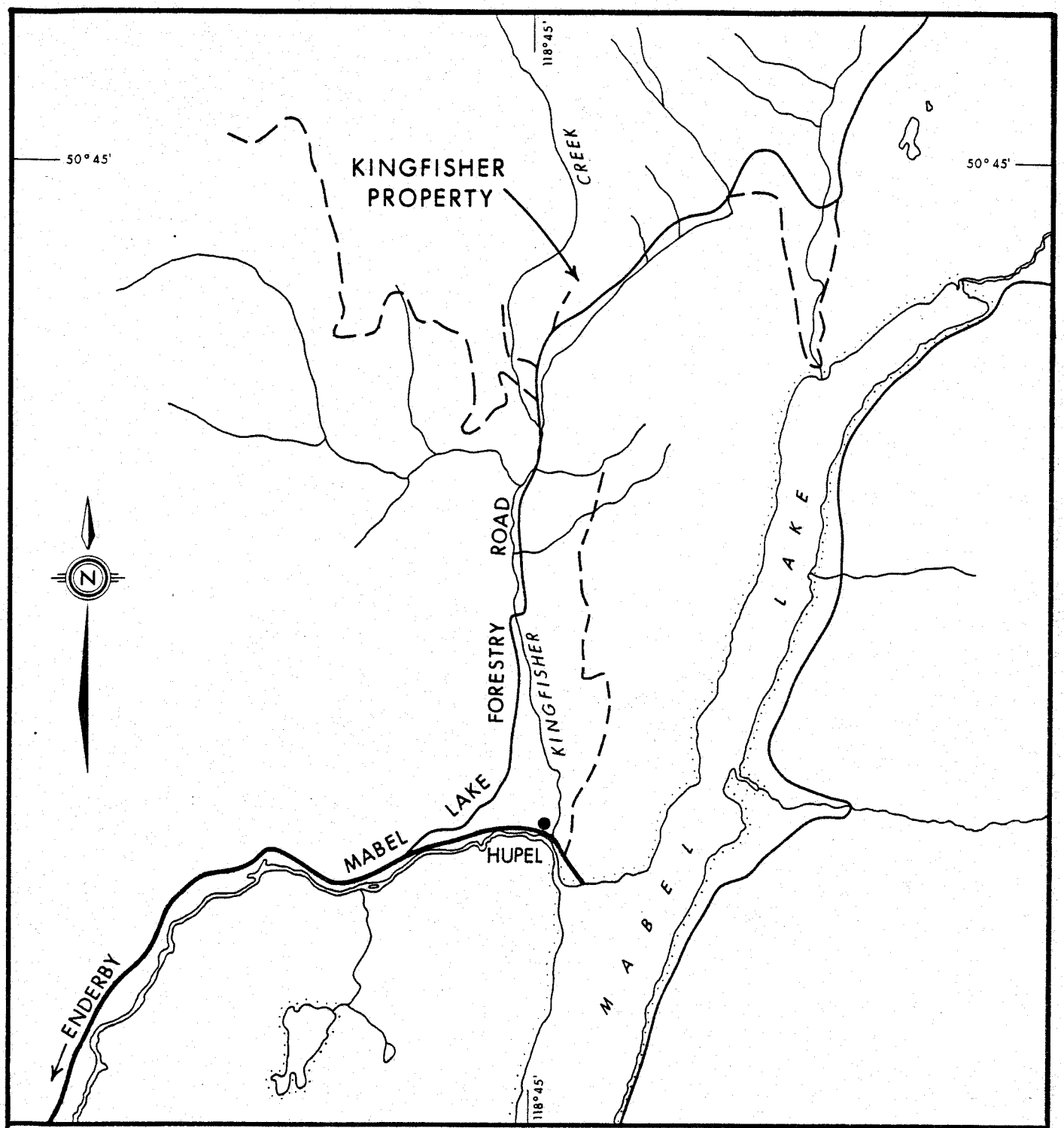
During the Fall of 1977, Union Oil Company of Canada Limited carried out a diamond drilling program on the Kingfisher Property which is held under option from Colby Mines Limited.

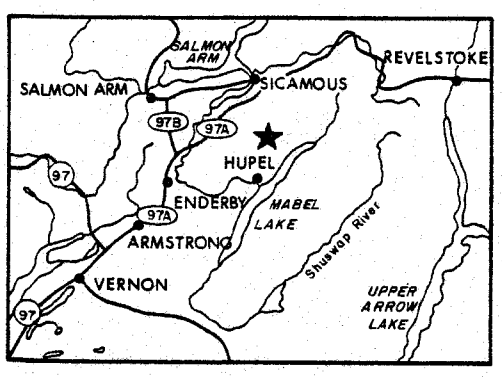
LOCATION AND ACCESS (Figure 1)

The Kingfisher Property is located in the Vernon Mining Division approximately 30 km east of Enderby. Road access is by means of the Mabel Lake Road east of Enderby for a distance of 26 km and then north along the Mabel Lake - Three Valley Gap Forestry road for a distance of 13 km and finally north of the forestry road for approximately 2 km along the property access road to the camp.

DRILLING PROGRAM

Diamond drill hole 77-02 was drilled from October 4, 1977 to October 11, 1977 on the FX-2 Mineral Claim Record No. 16230 (see Figure 2). Drilling was carried out under contract to Union Oil by Interior Diamond Drilling Ltd. of Summerland, B.C. at a cost of $30.48 per metre. The core is stored in a core rack at the campsite on the property.





BRITISH COLUMBIA

SCALE

2 1 0 2 4

MILES

union 76

KINGFISHER PROPERTY
BRITISH COLUMBIA

LOCATION MAP

VERNON MINING DIVISION

AUTHOR	T. GODFREY
DATE	DEC. 1977
SCALE	1" = 2 MILES
CONTOUR INTERVAL	
DRAWN BY	S. ROONEY
APPROVED	

UNION OIL COMPANY OF CANADA LIMITED
CALGARY ALBERTA

FILE NO.

N.T.S. NO.

FIGURE 1

This report supports the assessment work filed on November 7, 1977 at the Mining Recorder's Office at Vernon, British Columbia.

DETAILS OF DRILLING

Drilling Contractor - Interior Diamond Drilling Ltd.
R.R. 2
Summerland, British Columbia
V0H 1Z0

Drill - Truck mounted Longyear 38

Core - BQ Wireline Diameter

Dates - October 4, 1977 to October 11, 1977

Depth of Hole 77-02 - 104.31 metres

Corelog - see Appendix I

Personnel

Core Logging - D.L. Murray, M.Sc.

Supervision - T.J.R. Godfrey, P. Eng.
A.H. Taylor, M.Sc.

Costs

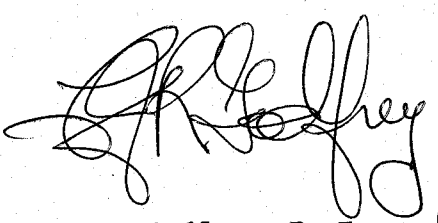
DDH 77-02 - 104.31 metres @ $30.48 = $3,179.37

Application of Costs

A total of $2,800 has been applied as one year's assessment work on:

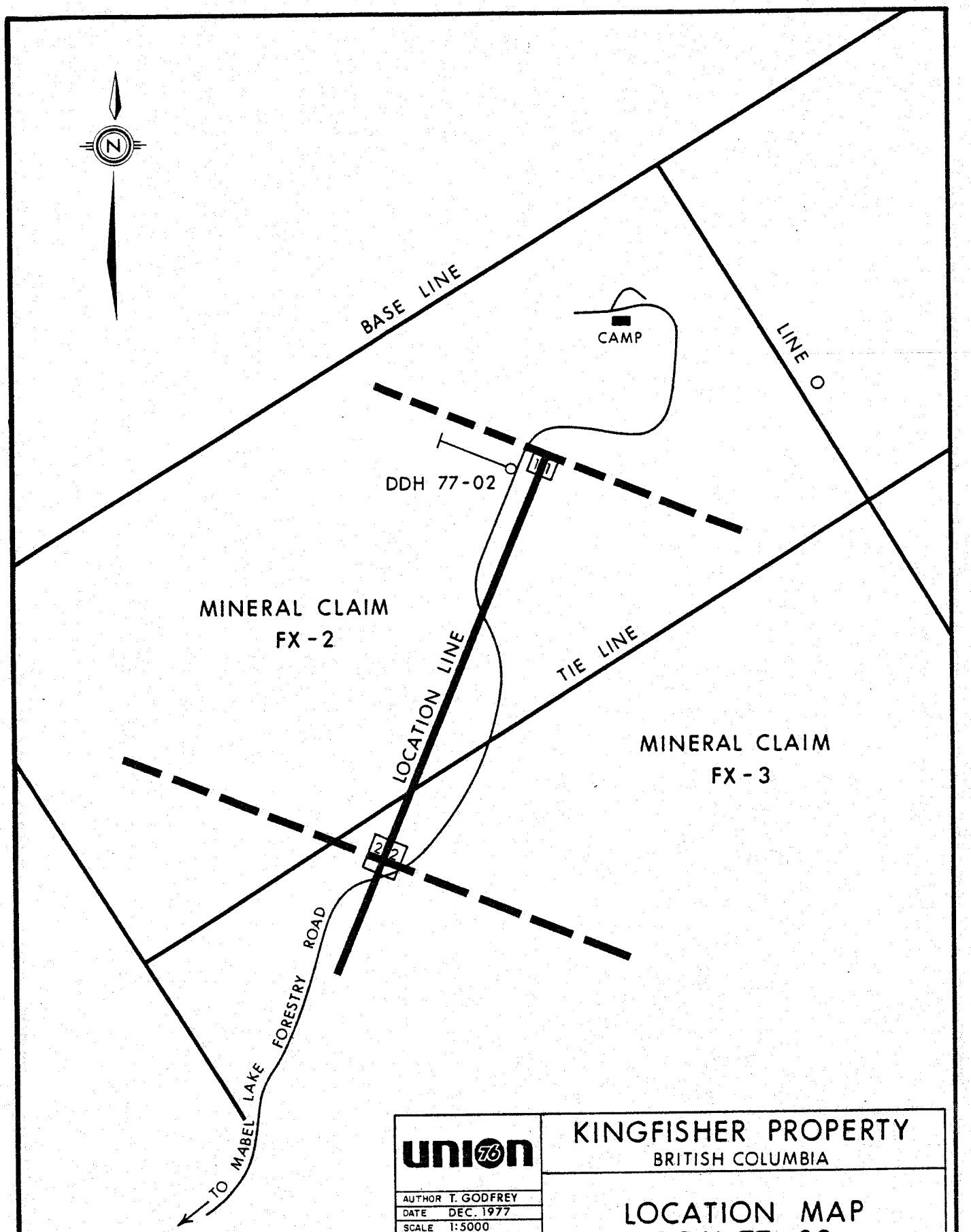
Claim	Record No.	Units	Amount Applied
North	245	10	$1,000
Mile 12	180	18	$1,800
			$2,800 TOTAL

Respectfully submitted,



T.J.R. Godfrey, P. Eng. BC No 6817
Exploration Coordinator
Minerals Department

TJRG/dmg
Attach.



UNION 76	KINGFISHER PROPERTY BRITISH COLUMBIA
AUTHOR T. GODFREY DATE DEC. 1977 SCALE 1:5000 CONTOUR INTERVAL DRAWN BY S. ROONEY APPROVED	LOCATION MAP DDH 77-02 VERNON MINING DIVISION
UNION OIL COMPANY OF CANADA LIMITED CALGARY ALBERTA	FILE NO N.T.S. NO. FIGURE 2

TO ACCOMPANY ASSESSMENT REPORT

APPENDIX I

LOG OF DDH 77-02

KINGFISHER PROPERTY
BRITISH COLUMBIA

DECEMBER 1, 1977

CORE LOG FORM
UNION OIL - MINERALS DEPARTMENT

Project COLBY-KINGFISHER
Property KINGFISHER
Started October 4, 1977
Completed October 11, 1977
Logged by Dave Murray

Bearing Az. 290°
Inclination -45°
Etch tests at end of hole shows -43°
Depth 104.31 metres

Sheet 1 of 4 Hole No. 77-02
Coordinates 274 metres south; 181 metres east - Union Oil Grid
Elevation 785 m.

Metres		% Rec												Remarks
0	3.7												-	Casing
3.7	4.9	100%											-	Marble: with phlogopite and trace diopside and muscovite.
4.9	6.1	100%											-	Calc-silicate rock: with trace of quartz-calc-silicate rock. Constituents are calcite and diopside with minor biotite and quartz. Typical foliations are 55 to 62 degrees. Minor shear at 5.2 metres.
6.1	7.7	100%											-	Impure marble: with quartz-feldspar-biotite-garnet gneiss bands. Marble contains diopside, phlogopite, and some biotite.
7.7	18.8	100%											-	Quartz-feldspar-biotite gneiss: with minor garnet and sillimanite Gneiss grades to pegmatite. Pegmatite forms about 25% of unit. Shear zones at 9.2 metres and 15 metres. Foliations in this unit vary from 30 degrees to 80 degrees with 55 to 65 degrees most common.
18.8	19.7	100%											-	Andesitic dyke rock. Pyrite and calcite veins in fractures in dyke.
19.7	20.1	100%											-	Quartz-feldspar-biotite gneiss as above. Foliation 65 degrees.
20.1	20.8	100%											-	Andesitic dyke rock as above.
20.8	21.4	100%											-	Quartz-feldspar-pegmatite. Brecciated zone at 21.2 to 21.3 metres
21.4	24.2	100%											-	Andesitic dyke rock as above. Highly fractured. 1/10 metre of brecciated pegmatite at 23.4 to 23.5 metres.
24.2	24.8	100%											-	Quartz-feldspar-pegmatite: with traces of garnet and biotite.
24.8	25.4	100%											-	Marble: with diopside and phlogopite. Shear zone at bottom contact.
25.4	27.7	100%											-	Quartz-feldspar-pegmatite: with minor garnet. Fault at 27.4 metres at 90 degrees to core axis. Fault at bottom contact of unit at 30 degrees to core axis.
27.7	28.3	100%											-	Marble. Fault at 28.2 metres at 20 degrees to core axis.
28.3	29.9	100%											-	Andesitic dyke: highly fractured, contains pyrite along fractures.

Metres		% Rec	Remarks
29.9	32.6	100%	- Quartz-feldspar-pegmatite. Relatively fine crystalline and weakly gneissic. Contains minor biotite and garnet. Foliation at 70 degrees. Fault at bottom contact at 75 degrees to core axis.
32.5	37.4	100%	- Siliceous marble: with traces of diopside and muscovite. Fault at 36.5 metres at 20 degrees to core axis.
37.4	37.8		- Quartz-feldspar-pegmatite.
37.8	40.8	100%	- Calc-silicate rock and minor fine quartz-calc-silicate rock. Fault at 38.2 metres at 20 degrees to core axis. Gouge and breccia zone from 38.2 to 38.85 metres. Foliations 70 to 80 degrees to core axis
40.8	43.6	100%	- Quartz-feldspar-pegmatite with traces of disseminated pyrrhotite and pyrite. 0.2 metres of diopsidic and feldspathic quartzite from 42.3 to 42.5 metres. Quartzite is slightly pyritic. Fault at 43.4 metres at 15 degrees to core axis.
43.6	46.5	100%	- Quartzite with minor diopside and feldspar. Grades locally to pegmatite. Disseminated pyrite and traces of pyrrhotite throughout quartzite. Trace sphalerite from 44.8 to 45.0 metres and 46.3 to 46.5 metres: less than 1%. Foliations in mineralized quartzite 42 to 65 degrees. Shear zone at 46.4 metres at 40 degrees to core axis.
46.5	48.5	100%	- Interlayered coarse quartz-calc-silicate rock with pegmatite, and fine quartz-calc-silicate rock grading to diopsidic quartzite. Foliations 55 to 70 degrees. Fault gouge at 47.3 metres at 60 degrees to core axis.
48.5	48.7		- Andesitic dyke.
48.7	49.7	100%	- Quartz-feldspar-pegmatite with minor diopside. Grades locally to coarse quartz-calc-silicate rock.
49.7	58.4	100%	- Quartzite with minor diopside and feldspar. Andesitic dyke 0.1 metres thick at 51.2 metres. Coarse quartz-calc-silicate rock band at 53.7 to 53.9 metres. Pegmatite from 56.7 to 57.2 metres. Open shear surface at 51.6 metres at 58 degrees to core axis. Foliations mainly 45 to 60 degrees, but 0 degrees just below dyke.
58.4	59.9	100%	- Quartz-feldspar-pegmatite with minor biotite and diopside. 0.1 metres of coarse quartz-calc-silicate rock at top of unit. Slickensided shear surface at 59.3 metres at 10 degrees to cor axis.
59.9	60.2	100%	- Quartz-feldspar-biotite gneiss, minor garnet. Foliation 8[illegible] degrees.

Hole Shee

Metres		% Rec	Remarks
60.2	62.2	100%	– Quartz-feldspar-pegmatite with minor diopside, biotite and garnet. Gouge zones common, particularly at 60.6 metres.
62.2	63.4	100%	– Quartz-feldspar-biotite-gneiss with minor garnet. Foliations weak at 50 degrees to 70 degrees to core axis.
63.4	63.6	100%	– Quartz-feldspar-pegmatite.
63.6	69.0	100%	– Siliceous marble with minor diopside. Bands of coarse quartz-calc-silicate rock and pegmatite at 65.5 to 65.9 metres and 56.5 to 66.6 metres. Abundant phlogopite in lowest 5/10 metre of marble.
69.0	75.4	100%	– Fine quartz-calc-silicate rock with local coarse diopside crystals and minorfine disseminated pyrrhotite throughout. Pegmatite at 72.5 to 72.7 metres. Minor shear at 69.2 metres at 65 degrees to core axis; faults at 73.3 metres, 74.3 metres, and 74.5 metres. Fault attitudes are 55, 40, and 55 degrees to core axis, respectively. Coarse quartz-calc-silicate rock occurs adjacent to faults. Foliations range from 50 to 70 degrees to core axis. Minor pyrrhotite, sphalerite and pyrite at 74.1 and at 74.3 metres: estimated 1% lead+zinc.
75.4	76.0	100%	– Relatively fine-crystalline pegmatite with minor biotite and garnet.
76.0	77.4	100%	– Fine quartz-calc-silicate rock and calc-silicate rock interlayered. Grades to coarse calc-silicate rock at bottom. Foliations 60 to 65 degrees.
77.4	78.2	100%	– Pegmatite.
78.2	78.6	100%	Quartzite with minor pyrrhotite and sphalerite. Estimated up to 1% lead+zinc.
78.6	79.3		– Pegmatite.
79.3	80.2	100%	– Quartzite with minor pyrrhotite and sphalerite, also minor pyrite. Up to 1% lead+zinc. Fault at 79.9 metres at 20 degrees to core axis Foliations 30 to 35 degrees to core axis.
80.2	83.0	100%	– Andesitic dyke with 1/10 metre pegmatite separating it from quartzit at top. Calcite veinlets and pyrite stringers fill fractures in and pyrite is disseminated throughout.
83.0	88.6	100%	– Fine quartz-calc-silicate rock and calc-silicate rock interlayered and intergrading. Minor pyrrhotite disseminated throughout. Coarse quartz-calc-silicate rock from 84.9 to 85.2 metres with shear surface at base at 15 degrees to core axis.

Hole No.
Sheet ___ of ___

Metres		% Rec	Remarks
			Massive pyrrhotite concentrated here and at 83.8 to 84 metres and at 86 to 86.4 metres. Faults at 86.1, 86.3, 86.4, 87.1, 87.8, and 88.1 metres. Fault attitudes as follows: 55, 25, 45, 15, 40, and 40 degrees, respectively. Foliations range from 30 degrees to 50 degrees.
88.6	90.5	100%	- Quartzite with minor diopside and feldspar and traces of pyrrhotite Interrupted by pegmatite from 88.8 to 89.1 metres with fault gouge at 89.1 metres.
90.6	93.0	100%	- Quartz-feldspar-pegmatite with traces of biotite.
93.0	93.4	100%	- Fine quartz-calc-silicate rock with minor pegmatite. Contains minor garnet and calcite. Foliations 65 degrees to core axis.
93.4	99.6	100%	- Quartz-feldspar-biotite gneiss with traces of garnet, grading locally to pegmatite. Foliations highly variable and folded but mostly range from 65 to 70 degrees to core axis.
99.6	100.7	100%	- Impure diopsidic and phlogopite-rich marble with quartz-feldspar-biotite gneiss band at 100.4 to 100.5 metres. Foliations 50 to 65 degrees to core axis.
100.7	101.9	100%	- Coarse quartz-calc-silicate rock and pegmatite intergrading, with quartz-feldspar-biotite gneiss band at 101.3 to 101.5 metres containing minor diopside. Foliations here 70 degrees to core axis Shear surface at 101.0 metres at 35 degrees to core axis.
101.9	103.1	100%	- Fine quartz-calc-silicate rock with minor interlayered calc-silicat rock. Foliation 65 degrees. Minor shear at 102.7 metres at 50 degrees to core axis.
103.1	103.6	100%	- Intergrading coarse quartz-calc-silicate rock and pegmatite.
103.6	104.31	100%	- Fine quartz-calc-silicate rock with thin quartz vein at 104 metres. Foliations at 75 degrees to core axis. Possible fault at 104.1 metres.
			- End of hole is at 104.31 metres in fine quartz-calc-silicate rock.

Hole No.
Sheet # of