

LOG NO: 30-08	RD.
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**GEOCHEMICAL ASSESSMENT REPORT**  
ON THE  
**MAPLE LEAF PROPERTY**  
Baycrest #2, #3, #4 and Expo #1 and #2 claims  
ALBERNI MINING DIVISION  
WEST COAST VANCOUVER ISLAND, BRITISH COLUMBIA  
NTS 92F/4 & 5  
49° 15'N 125° 43'W

PREPARED FOR

**STRABANE RESOURCES LTD.**  
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PREPARED BY

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**AUGUST, 1990**

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**20,219**

## SUMMARY

The Maple Leaf Property comprises five claims, totalling 30 units (750 hectares) situated in the Alberni mining division on Vancouver Island, British Columbia. The nearest community is Tofino, 20 air kilometres to the southwest and Port Alberni, 70 air kilometres to the east. Access is by barge, boat or float plane from the Tofino area. The property is situated on the west coast of Vancouver Island, 22 kilometres east of the Pacific Ocean. The region has a wet climate averaging 250 centimetres precipitation annually.

The Maple Leaf Prospect was initially discovered in the early 1940's and was developed prior to 1942 and after 1946. Limited underground work was carried out on two veins.

Strabane Resources Ltd. optioned the property from the owner in early 1988. The writer carried out a field examination of the property in May of 1988 following an exploration program carried out by Stetson Resource Management Corp. On behalf of Strabane, Canamera Geological Ltd. carried out a soil sampling assessment program in May of 1990.

The Maple Leaf Property lies within the Insular (tectonic) Belt which hosts several precious and base metal ore deposits. The claims are underlain by Pennsylvanian - Permian Sicker volcanics which are intruded by Jurassic batholiths. Major northwesterly trending structures are crosscut by minor northeasterly and easterly trending faults. Gold mineralization occurs in quartz veins and fissures from Esperanza Inlet to the Alberni Canal area on the west coast of Vancouver Island. The most prolific area to date is the Zeballos Camp, 100 kilometres north of the Maple Leaf Property, which produced 287,811 ounces of gold and 124,700 ounces of silver prior to 1949.

On the Maple Leaf Property several veins have been discovered; two of the veins, the E Vein and the Shaft Vein, have been developed underground. Similarly to those in the Zeballos Camp the veins vary in width from 0.05 to 0.30 metres and carry gold values averaging 0.1 to 0.8 ounces of gold per ton. The gold occurs with silver in ore shoots comprising fine grained gold, pyrite, arsenopyrite, sphalerite, and minor chalcopyrite within quartz and quartz-carbonate veins and stockwork zones.

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## 1. INTRODUCTION

The geology and economic potential of a precious metal prospect covered by the Maple Leaf Property under option to Strabane Resources Ltd. is discussed in this report. In 1990 Canamera Geological Ltd. carried out a geochemical exploration assessment program on behalf of Strabane. In addition to that data this report summarizes exploration programs carried out for Strabane by Stetson Resource Management Corp. in 1988 and 1989 as well as public Assessment Reports and British Columbia Minister of Mines Reports discussing exploration work carried out by previous operators.

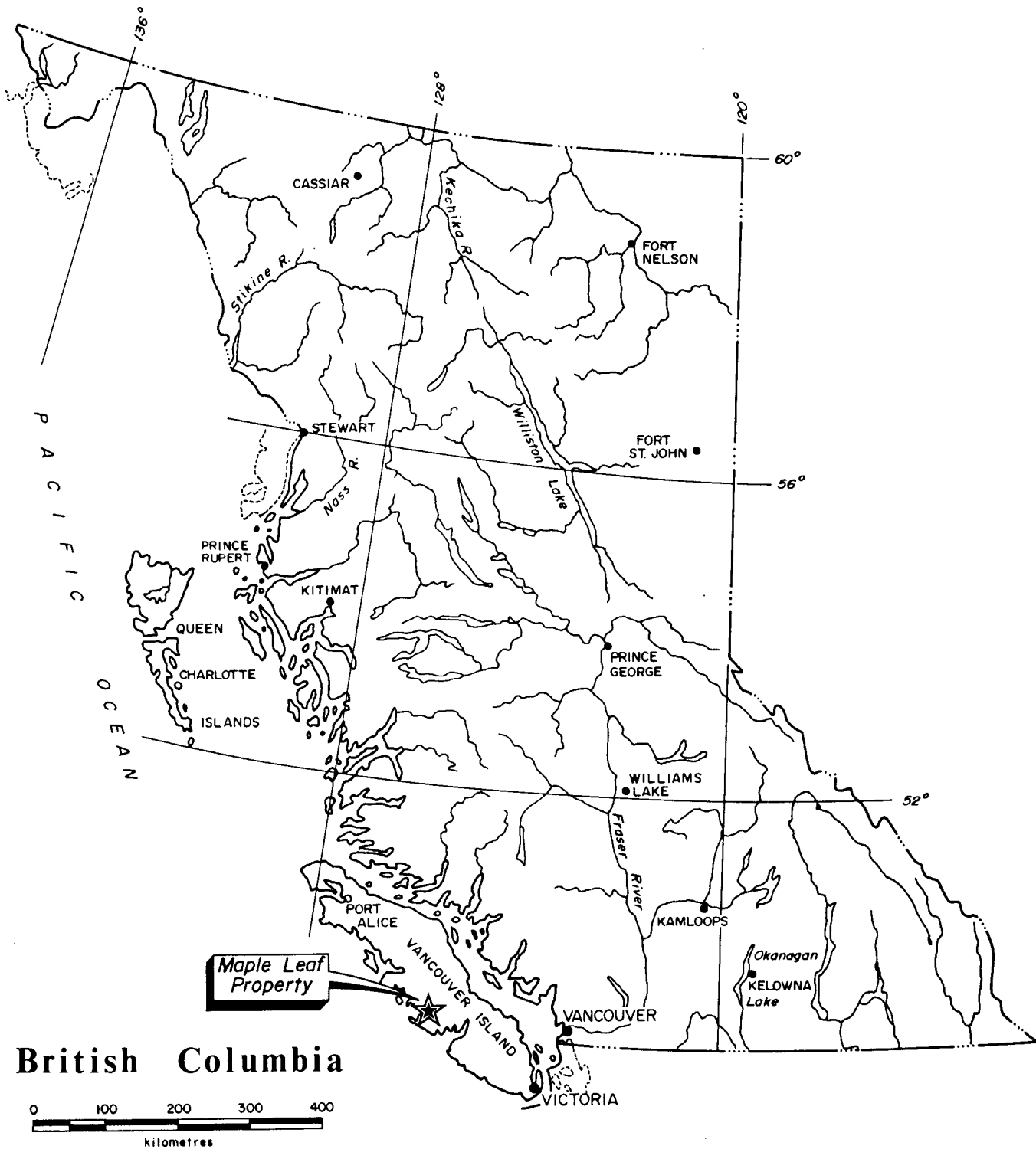
### 1.1 Location and Access

The Maple Leaf Property is situated in the Alberni mining division on the west coast of Vancouver Island, British Columbia, approximately 20 kilometres northeast of Tofino. The claim blocks cover a total area of 7.5 square kilometres centered at 49° 15' N and 125° 43' W (Figure 1.1).

Access from Port Alberni to the Tofino area is 120 kilometres via Highway 4 and the Tofino Highway. Logging roads access Warn Bay from Rankin Cove which is accessible by barge from Berryman Point. A new logging road following the west side of Bulson Creek provides excellent access to the property.

The most convenient access to Warn Bay is by boat from Tofino but float planes may also be used during seasons when boats are not practical. Exploration can be carried out from a camp site near the mouth of Bulson Creek.

Groceries, fuel, lumber and general supplies are available to a limited extent, in Tofino. The remainder may be trucked from Port Alberni to Warn Bay via Rankin Cove.



**British Columbia**

**STRABANE RESOURCES LTD.**  
**MAPLE LEAF PROPERTY**  
 Alberni M.D., B.C.  
**General Location Map**

 <b>STILLWATER        ENTERPRISES        LTD.</b>	Date	Aug. 1990	N.T.S. 92F/5
	Scale	as shown	Figure
	By		1.1

## 1.2 Property

The Maple Leaf Property covers five contiguous claims comprised of 30 units as listed below and shown on Figure 1.2. Strabane Resources Ltd. has an option to earn 100% interest of the property from the owner.

<u>Claim Name</u>	<u>Record No.</u>	<u>Record Date</u>	<u>Expiry Date</u>	<u>No. Units</u>
Baycrest	#2 4099	May 2, 1990	1991	4
Baycrest	#3 2919	May 28, 1986	1991	8
Baycrest	#4 4104	May 28, 1990	1991	16
Expo	#1 3007	Sept 15, 1986	1990	1
Expo	#2 3008	Sept 15, 1986	1990	1

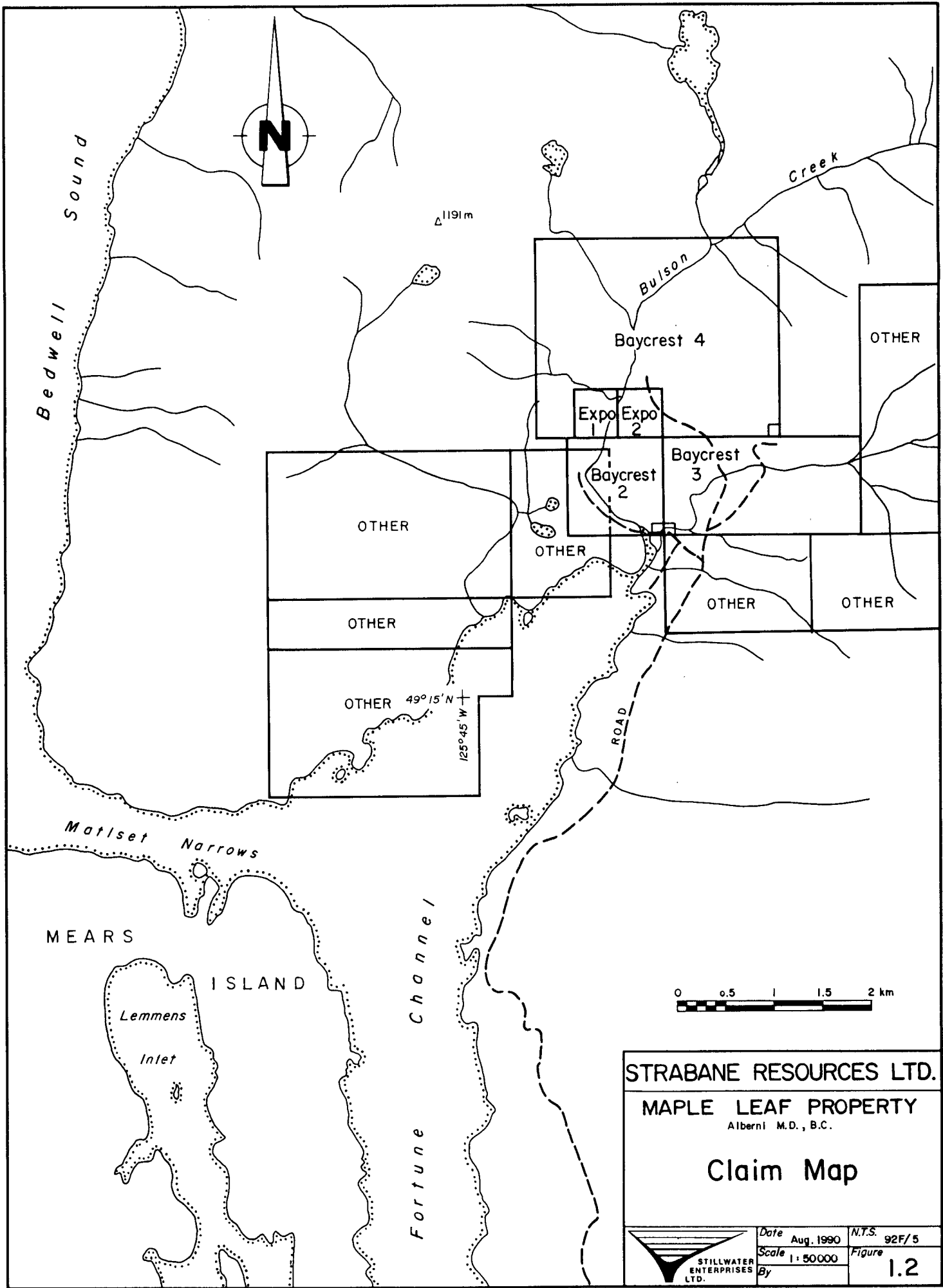
## 1.3 Physiography, Vegetation and Climate

The claims are situated on the west coast of Vancouver Island, 22 kilometres east of the Pacific Ocean. The region has a wet climate; snow cover in winter is moderate; rain, snow, and wind storms are common all year round. Mean annual precipitation is greater than 250 cm.

The property covers a semi-rugged to rugged mountainous terrain with elevations ranging from 70 metres (230 feet) to 800 metres (2,624 feet). Some slopes are fairly steep, but most may be traversed with care.

Natural vegetation cover is moderate to dense and typical of west coast rain forest. Cedar and alder trees with thick to moderate underbrush characterize the vegetation.


Water and timber resources for exploration and development purposes are plentiful. Several tributaries to the main creeks carry sufficient drilling water during most of the year.



STRABANE RESOURCES LTD.

MAPLE LEAF PROPERTY  
Alberni M.D., B.C.

Claim Map

 <p>STILLWATER ENTERPRISES LTD.</p>	Date	Aug. 1990	N.T.S.	92F/5
	Scale	1:50000	Figure	1.2
	By			

#### 1.4 History

The Tranquille Inlet - Warn Bay area was initially explored in the 1840's for its mineral potential. The first gold discovery was made at the head of Warn Bay in 1899. Several claims were staked at the head of Tranquille Inlet to cover lenticular bodies of low grade copper.

In 1931, the New Privateer gold mine was discovered in the Zeballos area 100 kilometres north of Warn Bay. This discovery sparked a renewed interest in precious metal exploration along the west coast of Vancouver Island.

Several gold discoveries were made in the Tranquille - Warn Bay area during the late 1930's. The Fandora, Gold Flake and Yankee Boy were all accessed via Tranquille Inlet and Tranquille Creek. The Fandora produced 1,468 ounces (45,660 grams) of gold and 269 ounces (8,367 grams) of silver from 1,071 tons (972 tonnes) of ore. The Moscena (Maple Leaf) prospect is the most significant discovery to date in Warn Bay.

The Maple Leaf prospect was staked in 1941 by the Maple Leaf Syndicate. The syndicate sunk a shaft and carried out some prospect drifting. The syndicate also started building a trail from the beach to the mine and 300 feet of drifting but were forced to curtail work in 1942 due to the war measures act. Moscena Mines Limited acquired the property and resumed work in 1946. They completed the tractor road and a bridge to the camp and commenced a crosscut at the 225 foot (68.58 metre) elevation. Four veins were discovered and exposed but most of the development was carried out on the E Vein and the Shaft Vein. Both veins were drifted on at the 225 foot (68 metres) elevation via the crosscut. The E Vein was drifted along for 200 feet (61 metres) at the 430 foot (131 metres) elevation and the Shaft Vein was drifted on for 15 feet at the 260 foot (80 metre) elevation and developed for 25 feet in a vertical shaft.

In 1988, Stetson Resource Management Corp. personnel carried out geological mapping, rock chip sampling and "B" horizon soil sampling on the property (see Figures 2.3, 2.3A, 3.1 and 3.2). In 1989 limited geological mapping was carried out in addition to a VLF-electromagnetometer and magnetometer survey, also by Stetson Resource Management Corp.

#### 1.5 1990 Exploration Program

In May of 1990 Canamera Geological Ltd. carried out a soil sampling program on the Baycrest #3 claim. A total of 41 soil samples were collected from the "B" soil horizon.



## 2. GEOLOGY

### 2.1 Regional Geology

The Warn Bay area lies within the Insular Belt, the westernmost tectonic subdivision of the Canadian Cordillera. The area was mapped by J.E. Muller in 1968 and is presented in the Geological Survey of Canada Open File 463. This geology is shown on Figure 2.1 and 2.1a.

The Insular Belt, also called the Island Mountains, comprises Paleozoic - Triassic and Jurassic volcanic - plutonic complexes which are both underlain by gneiss migmatite terranes and overlain respectively by Permo - Pennsylvanian and Cretaceous clastic sediments. The two complexes are separated by Upper Triassic basalts overlain by carbonate - clastic sediments. The lower complex, the Paleozoic and Triassic rocks, are part of an allochthonous terrane called Wrangellia. Although it formed in southern latitudes plate tectonics moved this terrane up to the North American plate during the Early Jurassic.

### 2.2 Regional Mineralization

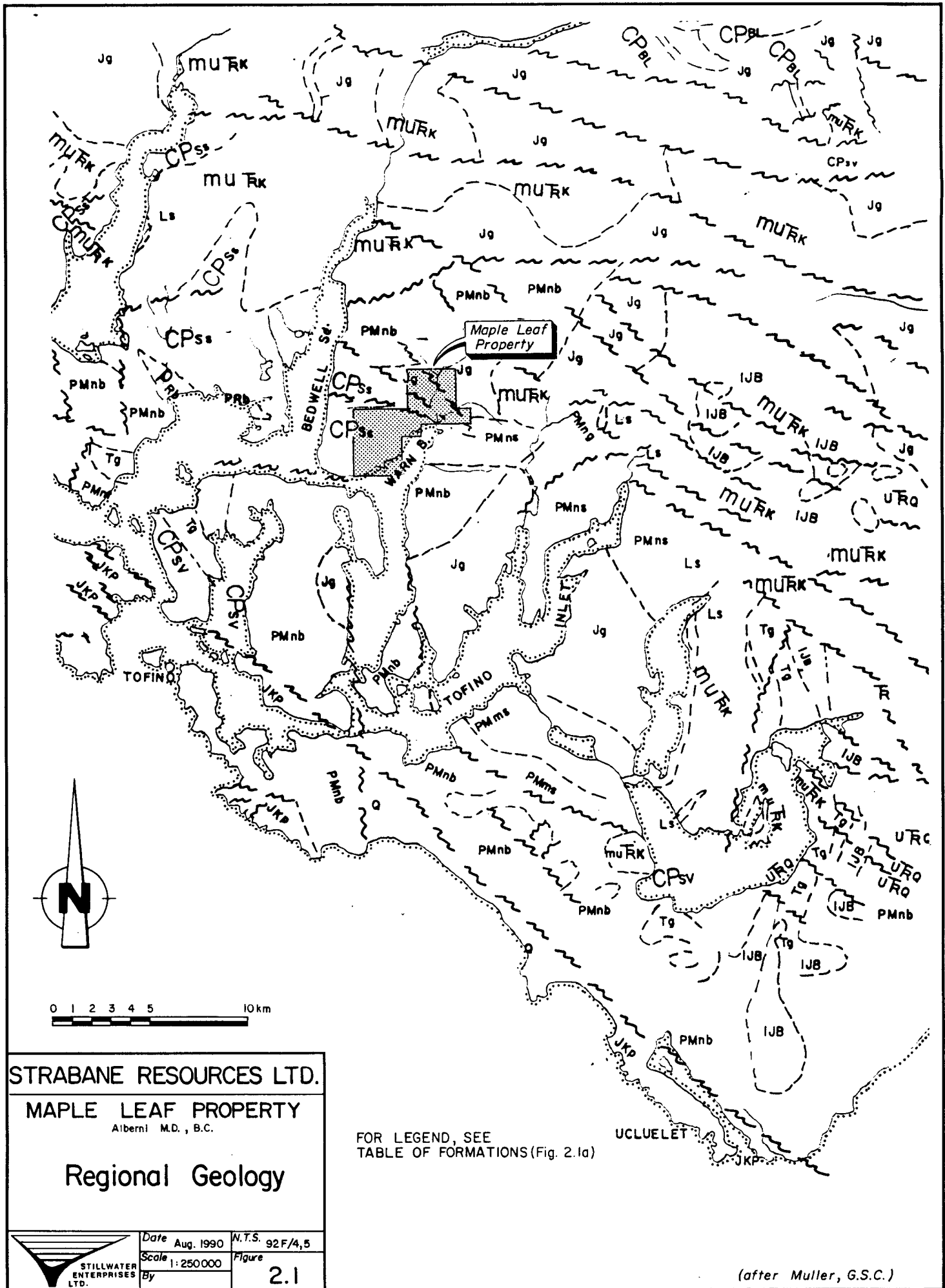
The regional structural trend is northwest-southeast. Faults occur both parallel to the main trend and in a north-south direction.

The Insular (tectonic) Belt hosts several precious and base metal ore deposits.

Chalcopyrite, magnetite, molybdenite and weak gold mineralization occur in the Island Copper porphyry copper deposit associated with a Jurassic batholith intruding Bonanza group volcanic rocks at the north end of Vancouver Island.

Polymetallic, volcanogenic, massive sulphides, formed syngenetically in the Sicker volcanics, produce copper, lead, zinc, gold, silver, cadmium and barium in mines held by Westmin Resources Ltd. at Buttle Lake.

Gold mineralization occurs in quartz veins and fissures from Esperanza Inlet to the Alberni Canal area on the west coast of Vancouver Island. The most prolific area to date is the Zeballos camp which has produced 287,811 ounces of gold and 124,700 ounces of silver. At Zeballos gold bearing veins comprise sulphides in quartz gangue in fault fissures which average 0.305 metres (1 foot) in width and extend along fairly consistent strikes and dips.



STRABANE RESOURCES LTD.  
 MAPLE LEAF PROPERTY  
 Alberni M.D., B.C.  
 Regional Geology

FOR LEGEND, SEE  
 TABLE OF FORMATIONS (Fig. 2.1a)

UCLUELET

	Date	Aug. 1990	N.T.S. 92F/4,5
	Scale	1:250000	Figure
	By		2.1

(after Muller, G.S.C.)

# TABLE OF FORMATIONS OF VANCOUVER ISLAND

		SEQUENTIAL LAYERED ROCKS					CRYSTALLINE ROCKS, COMPLEXES OF POORLY DEFINED AGE				
PERIOD	STAGE	GROUP	FORMATION	SYM-BOL	AVERAGE THICKNESS IN m.	LITHOLOGY	NAME	SYM-BOL	ISOTOPIC AGE Pb/U K/Ar	LITHOLOGY	
CENOZOIC	EOCENE to OLIGOCENE		late Tert. volc's of Port McNeill	Tvs							
			SOOKE BAY	mpTsb		conglomerate, sandstone, shale					
			CARMANAH	eoTc	1,200	sandstone, siltstone, conglomerate					
			ESCALANTE	eTe	300	conglomerate, sandstone					
	early EOCENE		METCHOSIN	eTm	3,000	basaltic lava, pillow lava, breccia, tuff	SOOKE INTRUSIONS - basic METCHOSIN SCHIST, GNEISS LEECH RIVER FM.	Tg Tgb Tmn JKL	32-59 31-49 47 38-41	quartzdiorite, trondhjemite, agmatite, porphyry gabbro, anorthosite, agmatite chlorite schist, gneissic amphibolite phyllite, mica schist, greywacke, argillite, chert	
MESOZOIC	LATE	CAMPANIAN	NANAIMO	GABRIOLA	uKGA	350	sandstone, conglomerate				
				SPRAY	uKS	200	shale, siltstone				
				GEOFFREY	uKG	150	conglomerate, sandstone				
				NORTHUMBERLAND	uKN	250	siltstone, shale, sandstone				
				DE COURCY	uKDC	350	conglomerate, sandstone				
				CEDAR DISTRICT	uKCD	300	shale, siltstone, sandstone				
	EXTENSION - PROTECTION	uKEP	300	conglomerate, sandstone, shale, coal							
	EARLY	SANTONIAN	QUEEN CHARLOTTE	HASLAM	uKH	200	shale, siltstone, sandstone				
				COMOX	uKC	350	sandstone, conglomerate, shale, coal				
		ALBIAN		conglomerate unit	IKAc	900	conglomerate, greywacke				
		APTIAN?		siltstone shale unit	IKAp	50	siltstone, shale				
		VALANGNIAN		LONGARM	IKL	250	greywacke, conglomerate, siltstone				
BARREMIAN		Upper Jurassic sediment unit		uJS	500	siltstone, argillite, conglomerate					
JURASSIC	MID-LATE	TITHONIAN					PACIFIC RIM COMPLEX	JKP		greywacke, argillite, chert, basic volcanics, limestone	
	EARLY	TOARCIAN?	BONANZA	IJB	1,500	basaltic to rhyolitic lava, tuff, breccia, minor argillite, greywacke	ISLAND INTRUSIONS WESTCOAST silicic COMPLEX basic	Jg PMns PMnb	264 141-181 163-192	granodiorite, quartzdiorite, granite, quartz monzonite quartz-feldspar gneiss metaquartzite, marble hornblende-plagioclase gneiss, quartz diorite, agmatite, amphibolite	
TRIASSIC	LATE	VANCOUVER	PARSON BAY	uRPB	450	calcareous siltstone, greywacke, silty-limestone, minor conglomerate, breccia	diabase sills limestone metavolcanic rocks	PRb Ls PMmv			
			QUATSINO	uRQ	400	limestone					
	KARNIAN		KARMUTSEN	muRK	4,500	basaltic lava, pillow lava, breccia, tuff					
MID	LADINIAN	sediment-sill unit	Rds	750	metasiltstone, diabase, limestone						
PALEOZOIC	PENN. and PERM.	SICKER	BUTTLE LAKE	CPBl	300	limestone, chert	TYEE INTRUSIONS COLQUITZ GNEISS WARK DIORITE GNEISS	Pg Pns Pnb	>390 >390	metagranodiorite, metaquartz diorite, metaquartz porphyry quartz feldspar gneiss hornblende-plagioclase gneiss, quartz diorite, amphibolite	
			sediments	CPss	600	metagreywacke, argillite, schist, marble					
			volcanics	CPsv	2,000	basaltic to rhyolitic metavolcanic flows, tuff, agglomerate					
	DEV. or EARLIER										

Figure 2.1a

In the Tranquille Creek - Warn Bay area gold has been produced from quartz veins at the Fandora, Gold Flake, Yankee Boy and Moscena prospects.

The Fandora, the largest mine, produced 1,468 ounces (45,660 grams) of gold and 269 ounces (8,367 grams) of silver from quartz veins hosted by shears in andesites and granitic rocks.

### 2.3 Property Geology

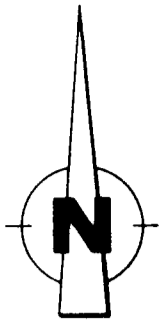
The oldest rocks underlying the Free Gold Property belong to the Pennsylvanian - Permian Sicker Group. This group is intruded by Jurassic batholiths belonging to the Westcoast Complex and the Island Intrusions. Northwesterly trending faults occur within the Sicker Group and form contacts between the Sicker Group and the intrusive bodies.

The Sicker Group comprises three formations. The oldest is a 2,000 metre thick sequence of basaltic to rhyolitic metavolcanic flows, tuffs and agglomerates. Above this lies a sedimentary sequence of metagreywacke, argillite, schist and marble approximately 600 metres thick. The top of the Sicker Group is marked by the Buttle Lake Formation which comprises crinoidal limestone and intercalated chert beds. The Sicker Group outcrops predominantly west of Warn Bay as well as in the form of xenoliths or roof pendants within the intrusive bodies elsewhere.

The Westcoast Complex comprises both a silicic and a basic unit. The basic unit was emplaced prior to the silicic unit and is composed of hornblende - plagioclase gneiss, quartz diorite, agmatite and amphibolite. The silicic unit is made up of quartz - feldspar gneiss, metaquartzite and marble. The Westcoast Complex predominates east of Warn Bay.

The Island Intrusions are generally younger than the Westcoast Complex. Granodiorite, quartz diorite, granite and quartz monzonite make up the Island Intrusions and outcrop at the head of Warn Bay.

Geological mapping by the British Columbia Minister of Mines (1946) show north and northeasterly andesitic dykes crosscutting the intrusive body near the Maple Leaf workings. Mapping by J.C. Freeze and J.F. Wetherill identified large clasts of Sicker Group limestone and andesite agglomerates and flows in the southerly drifts off of the 225 level crosscut where one of the andesite dykes was mapped. However, an andesite to microdiorite exposed in the first northerly drift off of the 225 level crosscut does appear to be a crosscutting dyke. See Figure 2.3.



**LEGEND**

**VANCOUVER GROUP**

muRk(?) Karmutsen Formation: Andesite dykes, black, fine grained

**SICKER GROUP**

CPBL Buttle Lake limestone, black, fetid to recrystallized white to grey limestone

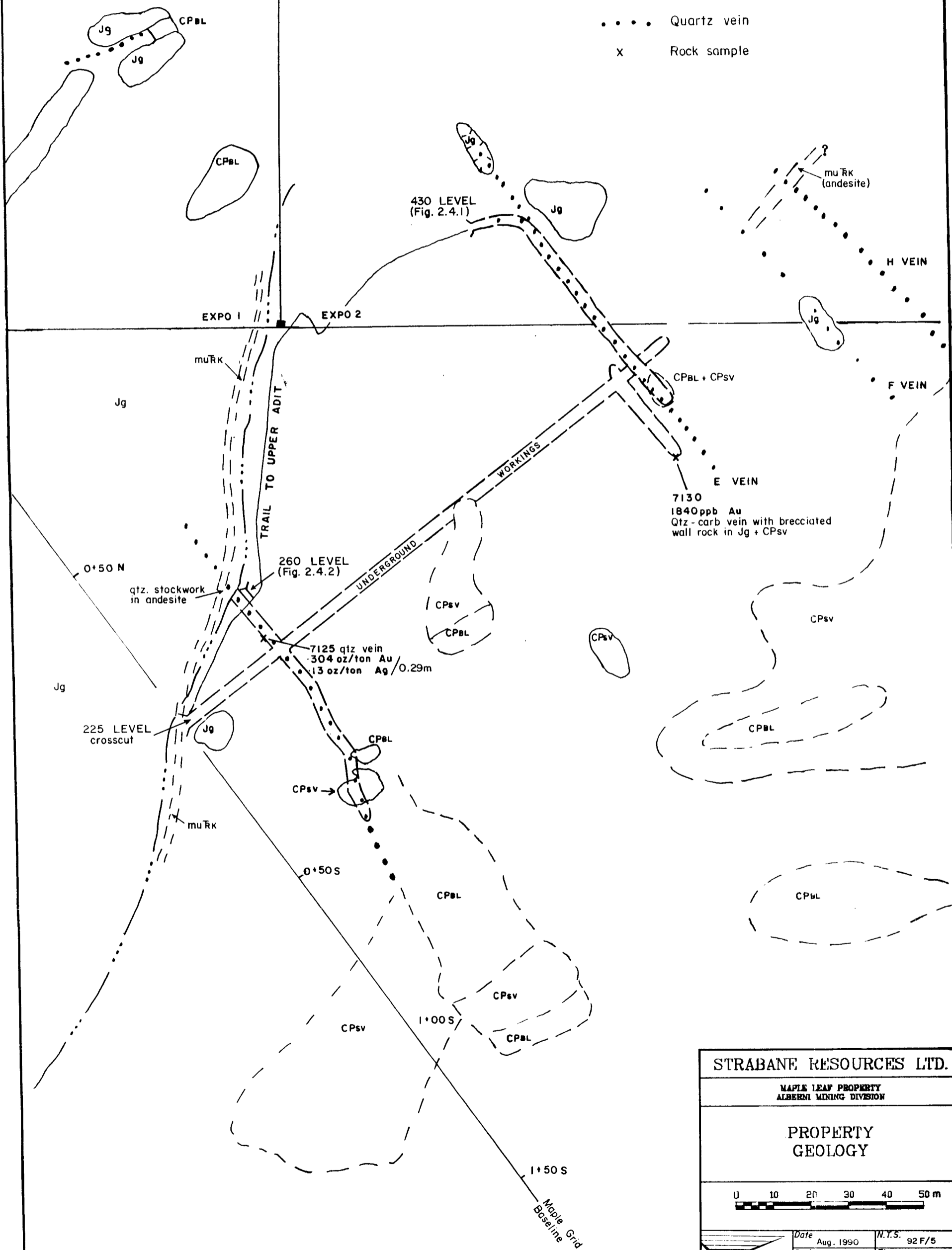
CPsv Andesite porphyry, metamorphosed to greenschist facies

**ISLAND INTRUSIONS**

Jg Quartz diorite, chloritic alteration, mafics, mostly biotite, hornblende

..... Quartz vein

x Rock sample



(Compilation of mapping by B.C.D.M. and J.F. Wetherill)

<b>STRABANE RESOURCES LTD.</b>		
MAPLE LEAF PROPERTY ALBERNI MINING DIVISION		
<b>PROPERTY GEOLOGY</b>		
Date Aug. 1990	N.T.S. 92 F/5	
Scale 1:1000	Figure 2.3	
By J.F.W.		

The exposures along the new logging road paralleling Bulson Creek show Sicker volcanics in both intrusive and fault contact with a granodiorite body which likely belongs to the Island Intrusions. Epidote-garnet skarn alteration assemblages occur within the volcanics in this area. This geology is shown on Figure 2.3.A.

#### 2.4 Property Mineralization and Alteration

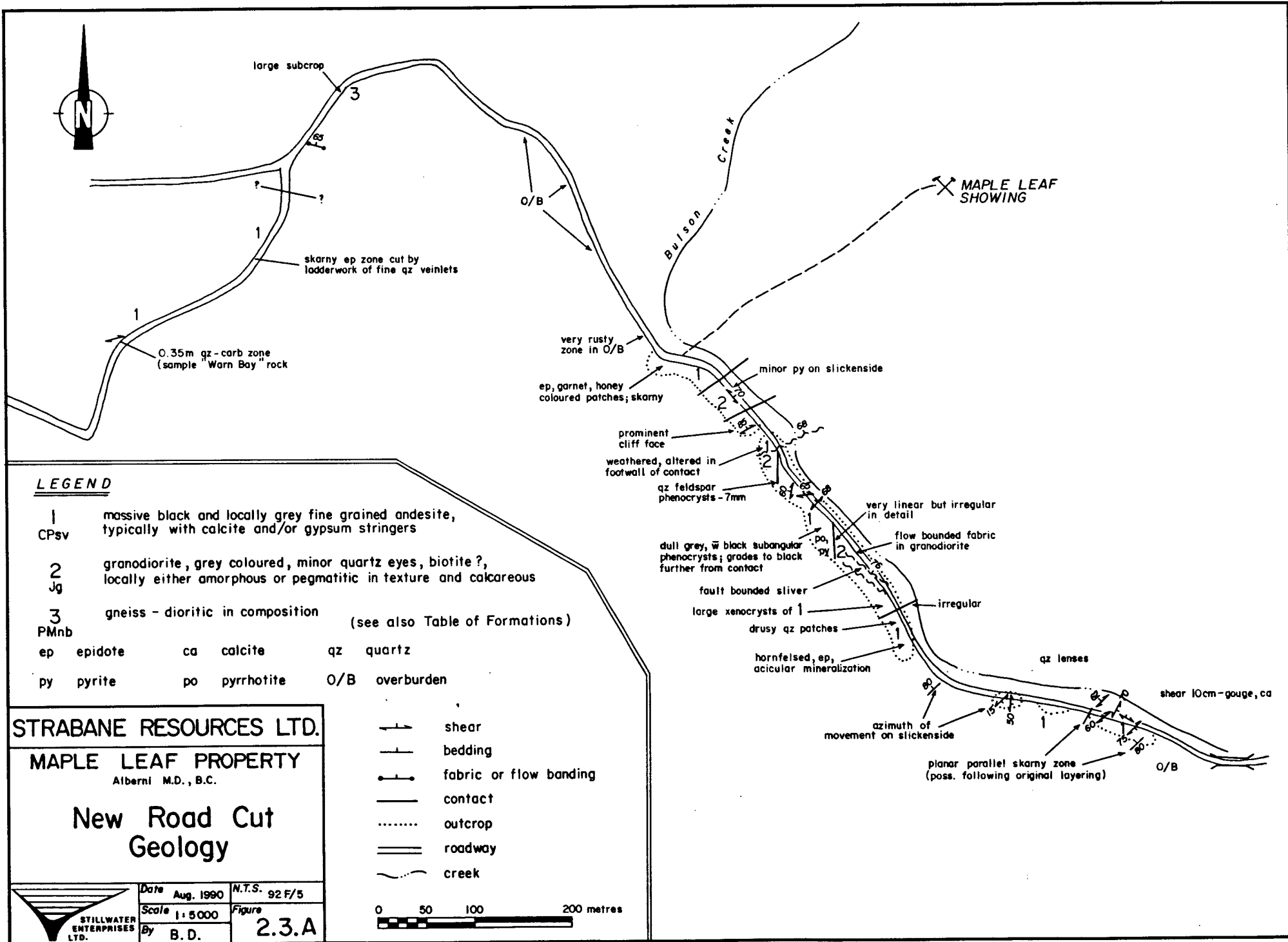
Four quartz veins are exposed in the Maple Leaf workings. The veins follow fractures which strike north 40 to 45 degrees west (315 to 320 degrees), dip almost vertically, and are expressed as long, narrow gullys. Although the gullys extend (without deflection) from the quartz diorite and breccia into the older skarnified volcanics and limestone there are no quartz veins exposed where the older rocks are not brecciated.

Most of the development work has been carried out on two of these veins, the E Vein and the Shaft Vein. A third vein known as the H Vein is exposed in surface cuts.

The most extensive vein appears to be the E Vein which is exposed by open cuts over a length of 800 feet (244 metres) in a gully which is 900 feet (274 metres) long. A crosscut and drift was driven along this vein for 200 feet (61 metres) at an elevation of 430 feet (131 metres). The vein outcrops between 430 and 550 feet (131 and 168 metres).

The E Vein was sampled by J.F. Wetherill of Stetson Resource Management Corp. on the 430 level (underground) approximately every 2 metres. The vein ranges in width from 0.01 to 0.62 metres but averages from 0.1 to 0.2 metres wide. A 44 metre (144 foot) section of the vein averages 0.688 ounces of gold per ton (23,593 ppb) over a 0.19 metre width. Grades commonly range from 0.1 to 0.2 ounces of gold per ton however the highest gold grade obtained during the systematic underground sampling was 6.1 ounces per ton over a 0.16 metre width. This site was resampled by the writer and analysed more thoroughly; a grade of 28.35 ounces of gold per ton and 5.86 ounces of silver per ton over a width of 0.16 metres were obtained. Only the sample collected during the systematic sampling was used in the averaging process. The E Vein sampling is shown on Figure 2.4.1.

Both the Shaft and E Veins were drifted on at the 225 foot (68 metre) elevation via the crosscut. The Shaft Vein was followed for 250 feet (76 metres) while the E Vein was followed for 82 feet (25 metres).

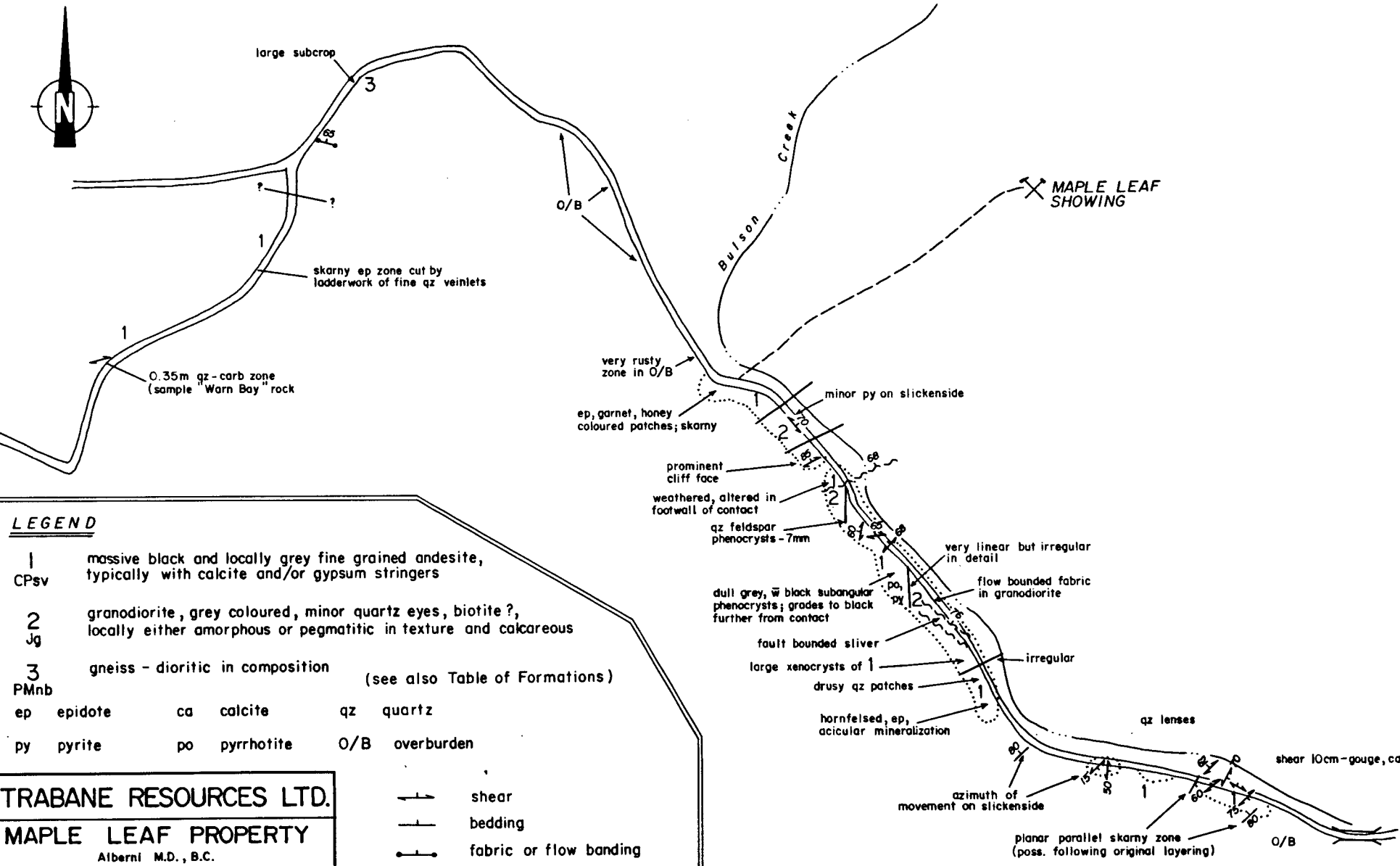


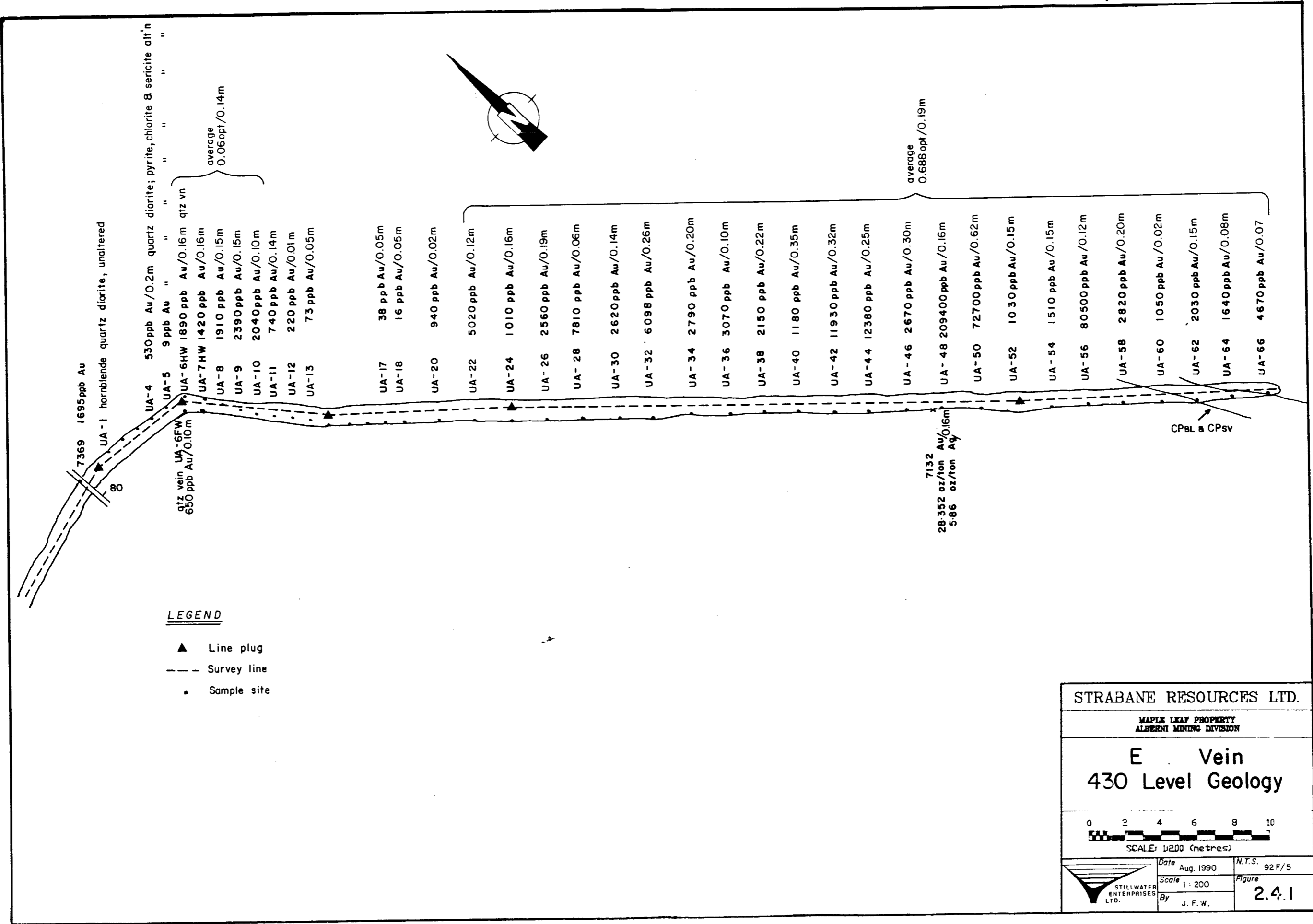
**STRABANE RESOURCES LTD.**  
**MAPLE LEAF PROPERTY**  
 Alberni M.D., B.C.

**New Road Cut  
 Geology**

Date	Aug. 1990	N.T.S.	92 F/5
Scale	1:5000	Figure	2.3.A
By	B. D.		

**STILLWATER ENTERPRISES LTD.**





UA-4	530ppb Au/O.2m quartz diorite; pyrite, chlorite & sericite alt'n	
UA-5	9ppb Au " " "	
UA-6FW	1890ppb Au/O.16m qtz vn	average 0.06opt/O.14m
UA-7HW	1420ppb Au/O.16m	
UA-8	1910ppb Au/O.15m	
UA-9	2390ppb Au/O.15m	
UA-10	2040ppb Au/O.10m	
UA-11	740ppb Au/O.14m	
UA-12	220ppb Au/O.01m	
UA-13	73ppb Au/O.05m	
UA-17	38ppb Au/O.05m	
UA-18	16ppb Au/O.05m	
UA-20	940ppb Au/O.02m	
UA-22	5020ppb Au/O.12m	
UA-24	1010ppb Au/O.16m	
UA-26	2560ppb Au/O.19m	
UA-28	7810ppb Au/O.06m	
UA-30	2620ppb Au/O.14m	
UA-32	6098ppb Au/O.26m	
UA-34	2790ppb Au/O.20m	
UA-36	3070ppb Au/O.10m	
UA-38	2150ppb Au/O.22m	
UA-40	1180ppb Au/O.35m	
UA-42	11930ppb Au/O.32m	
UA-44	12380ppb Au/O.25m	
UA-46	2670ppb Au/O.30m	average 0.688opt/O.19m
UA-48	209400ppb Au/O.16m	
UA-50	72700ppb Au/O.62m	
UA-52	1030ppb Au/O.15m	
UA-54	1510ppb Au/O.15m	
UA-56	80500ppb Au/O.12m	
UA-58	2820ppb Au/O.20m	
UA-60	1050ppb Au/O.02m	
UA-62	2030ppb Au/O.15m	
UA-64	1640ppb Au/O.08m	
UA-66	4670ppb Au/O.07	

7369 1695ppb Au

UA-1 hornblende quartz diorite, unaltered

qtz vein UA-6FW  
650ppb Au/O.10m

7132  
28352 oz/10m Au/O.16m  
586 oz/10m Ag

CPBL & CPsv



The Shaft Vein has been traced intermittently over a length of 400 feet in a gully that stretches 500 feet (152 metres) in length. In addition to the drifts along the vein at the 225 level, the Shaft Vein was exposed in a 15 foot adit at 260 feet (79 feet), a 25 foot vertical shaft and open cuts, some of which are now filled. The vein outcrops between 260 and 310 feet above sea level. The Shaft Vein Gully is terminated to the northwest by a bluff (fault) and has not been traced beyond 40 feet southeast of the shaft where a lithological contact between andesite and limestone occurs.

The Shaft Vein was sampled by the writer on the 225 level at a location 6 metres (19.7 feet) north of the crosscut. This sample assayed 0.304 ounces of gold and 0.13 ounces of silver per ton over a width of 0.29 metres (0.95 feet) see (Figure 2.3). The Shaft Vein was also sampled by J.F. Wetherill on the 260 level, the best sample carried 1,540 ppb gold over a 0.27 metre width (see Figure 2.4.2).

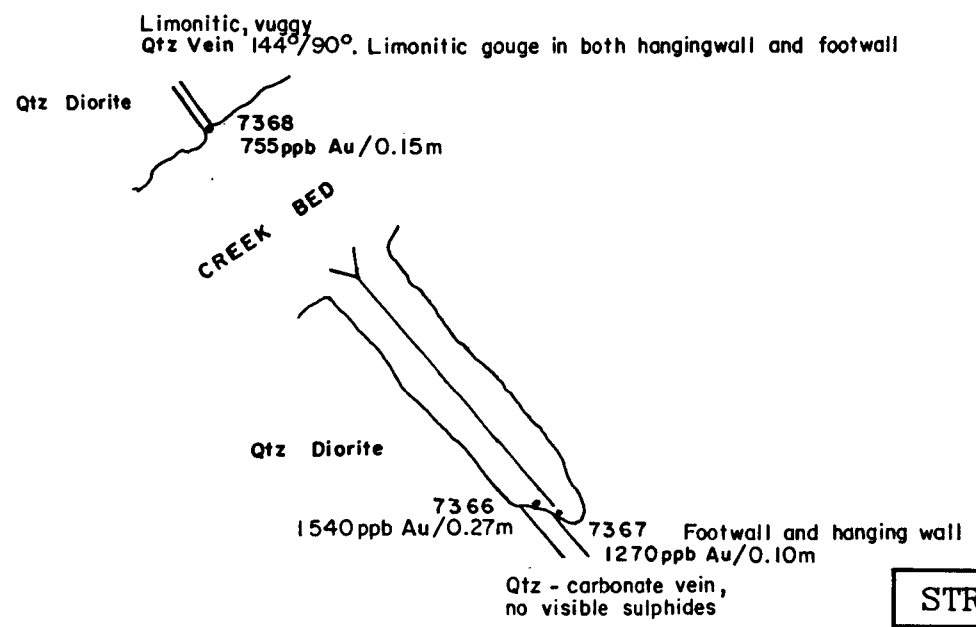
The H Vein is exposed intermittently by open cuts over a 170 foot length at the base of a 10 to 20 foot bluff.

A small vein was exposed during the 1940's by an open cut approximately 30 feet (9 metres) north of the 225 level crosscut at an elevation of 240 feet and again in the crosscut 23 feet (7 metres) from the portal. Small stringers were also exposed in the 1940's along the trail between the Shaft Vein and the 430 level portal at distances of approximately 180, 230 and 254 feet (55, 70 and 77.4 metres).

Another narrow gully 500 feet in length occurs between and parallel to the E and H Veins. The 1946 Minister of Mines report suggests that an F Vein may have been discovered in this gully.

The shears hosting the veins crosscut both the intrusive bodies and the volcanics, some wallrocks comprise a breccia of altered sediments and volcanics in a quartz diorite matrix. Where the shears are found within the intrusive bodies the quartz veins are well developed and the mineralization appears to be largely confined to the veins. In areas where the shear zones crosscut volcanics the quartz occurs as a more dispersed stockwork and both the alteration and mineralization permeate into the wall rocks.

The mineralization is very fine grained and comprises visible gold, pyrite, arsenopyrite, sphalerite and minor chalcopyrite occurring in quartz and quartz-carbonate veins and stockwork. The sulphides occur in bands parallel to the walls in a sheeted but massive gangue. The quartz is often characterized by euhedral crystals, vugs and banding. The walls are separated from the veins by a thin parting of gouge and iron oxide. Alteration in some of the walls comprises limonite, sericite, chlorite and pervasive quartz-carbonate.



<b>STRABANE RESOURCES LTD.</b>		
MAPLE LEAF PROPERTY ALBERTA MINING DIVISION		
<b>Shaft Vein 260 Level Geology</b>		
 Scale - 1:100		
	Date Aug. 1990	N.T.S. 92F/5
	Scale as shown	Figure
	By J.F.W	<b>2.4.2</b>

### 3. GEOCHEMISTRY

#### 3.1 Rock Chip Sampling

##### 3.1.1 Sampling, Sample Preparation and Analytical Procedures

One rock chip sample was collected from a quartz - carbonate zone 0.35 metres wide located at the western most extent of the mapping carried out on the new logging road west of Bulson Creek.

The sample was placed in a numbered plastic bag and sent to IPL (International Plasma Laboratory) in Vancouver for analysis. In the laboratory, the sample was put through primary and secondary crushers. A sub-sample of approximately 250 grams was then pulverized to minus 100 mesh. The pulp was then analyzed for gold by Fire Assay with an Atomic Absorption finish and for 31 elements by ICP (Inductively Coupled Plasma).

##### 3.1.2 Presentation and Discussion of Results

The assay results of the rock sample carried only 10 parts per billion (ppb) and minimal levels of most other elements. The only metal concentrations that could be considered anomalous are copper at 127 parts per million (ppm) and nickel at 39 ppm. The location and description of the sample are given on Figure 2.3.A. Assay results are listed in Appendix I.

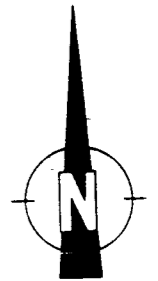
#### 3.2 Soil Sampling

##### 3.2.1 Sampling Procedures

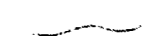
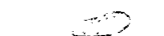
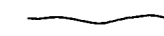


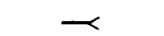
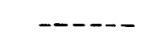

In 1990 soil samples were collected from the Maple Leaf Property along a northeasterly trending road cut crosscutting the Baycrest 3 claim. A total of 41 samples were collected at 25 metre intervals.

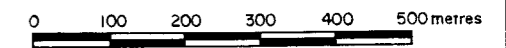
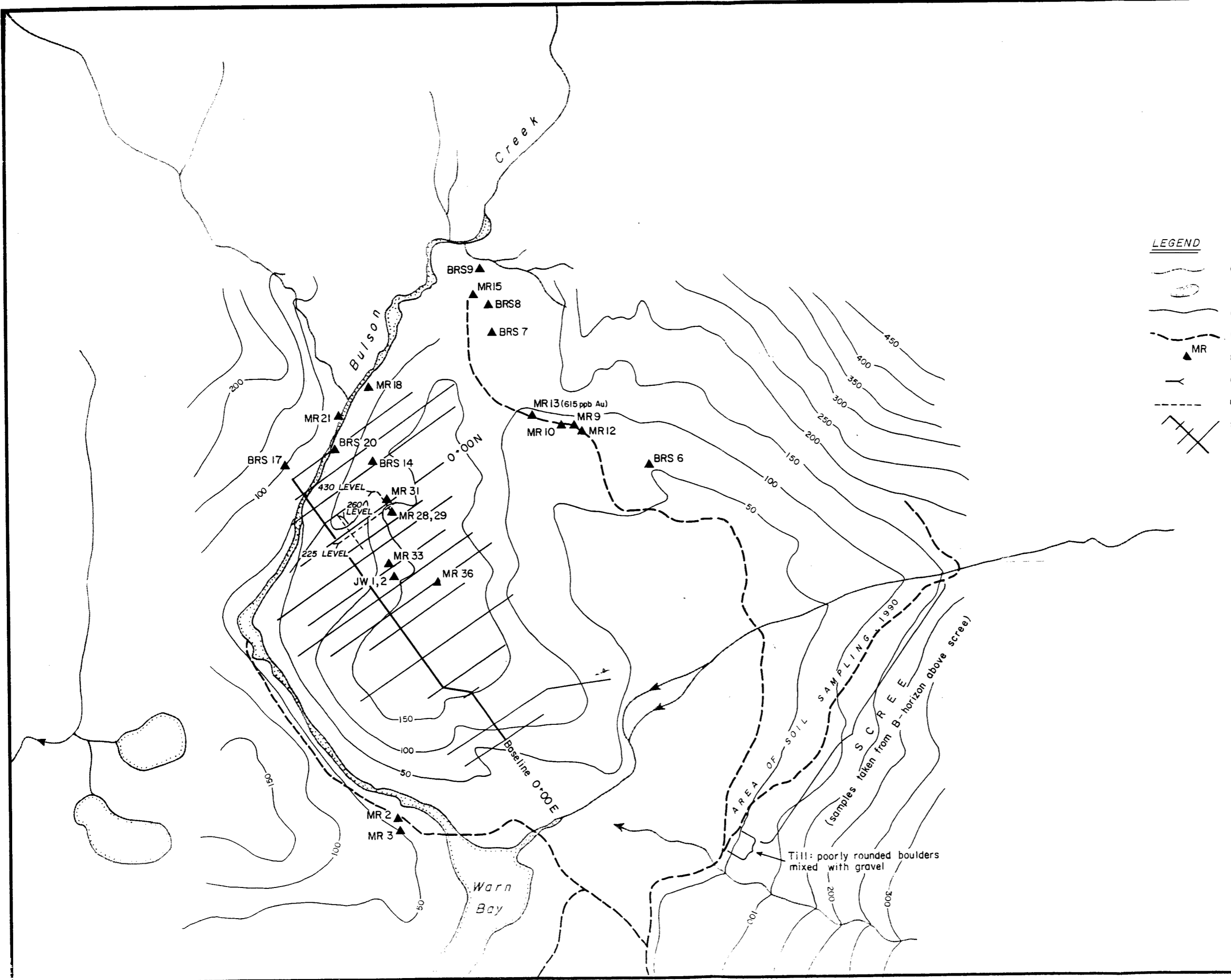
The samples were collected from the "B" soil horizon at an average depth of 10-15 centimetres using a lightweight mattock. The samples were sent to IPL (International Plasma Laboratory) in Vancouver for analysis.

In the laboratory, samples were oven-dried at approximately 60°C. The dried samples were ring pulverized to minus 20 mesh and were analyzed for gold and 31 elements by ICP (Inductively Coupled Plasma). To analyze for gold, the samples were ignited at 60°C, digested with hot concentrated nitric-aqua-regia, extracted by MIBK (organic solvent) and analyzed by graphite furnace AA (atomic absorption).



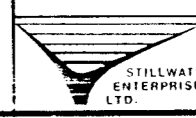
**LEGEND**

-  creek
-  lake
-  contour (50ft interval)
-  road
-  MR rock sample
-  adit
-  underground workings
-  soil grid



**STRABANE RESOURCES LTD.**  
**MAPLE LEAF PROPERTY**  
Alberni M.D., B.C.

**Compilation Map**

	Date Aug. 1990	M.T.S. 92F/5
	Scale 1:10000	Figure
	By J.C.F.	<b>3.1</b>

### 3.2.2 Treatment and Presentation of Results

In assessing the soil geochemical results, threshold and anomalous metal concentrations were determined by visual examination. These levels are given in Table 3.2.2.

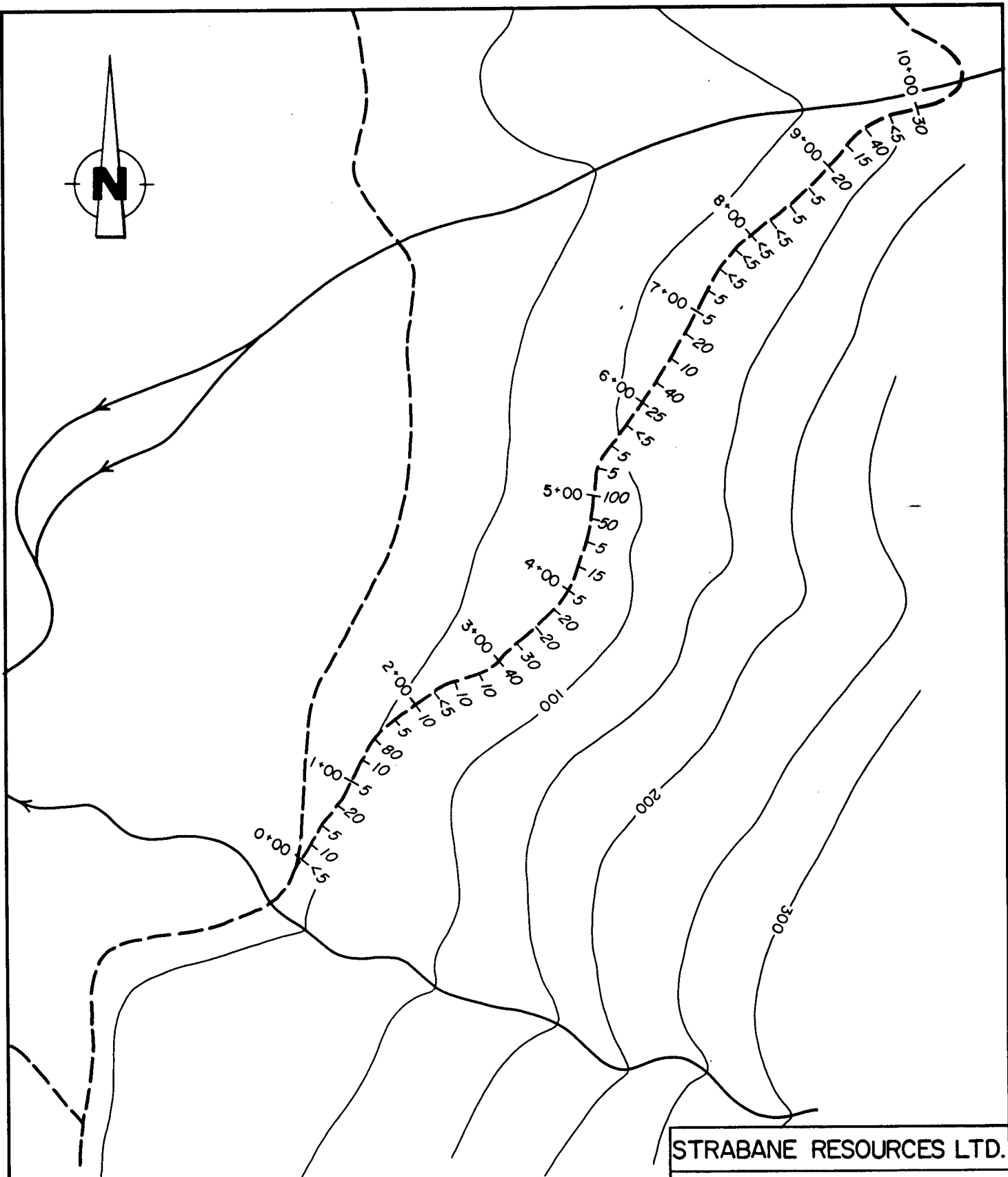
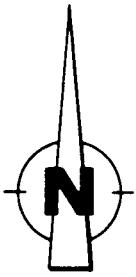
Results and sample locations for the 1990 sampling program are shown on Figures 3.1 and 3.2.2.5 and are listed in Appendix I.

**TABLE 3.2.2**  
**Statistical Data For Metal Values**  
**in "B" Horizon Soil Samples collected in 1990**




<b>Metal</b>	<b>N</b>	<b>Mean(x)</b>	<b>Threshold</b>	<b>Anomalous</b>
Au ppb	41	5	15	30
Ag ppm	41	0.1	0.3	0.4
Cu ppm	41	60	80	110
Ni ppm	41	20	29	35
Pb ppm	41	11	15	20
Zn ppm	41	65	75	90
As ppm	41	10	15	25
Co ppm	41	23	30	35

### 3.2.3 Results

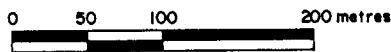
Results of the 1990 sampling program show a few scattered gold anomalies. None of the other metals show a correlation with gold. Anomalous copper, nickel, zinc and to a lesser extent cobalt and lead values occur in the soils from the 0+00 station to the 3+00 station. This may only be a function of differing lithologies but should be investigated. Each of these metals, in addition to arsenic, occur as scattered one or two station anomalies. Silver values are very low, only one station has a value as high as 0.4 ppm.



**LEGEND**

-  creek
-  road
-  contour

2+00 / 30 soil sample N<sup>o</sup> and gold assay (ppb) (sample spacing: 25m)



**STRABANE RESOURCES LTD.**

**MAPLE LEAF PROPERTY**  
Alberni M.O., B.C.

**1990 Soil Survey  
Sample Results**



Date	Aug 1990	N.T.S.	92F/5
Scale	1:5 000	Figure	
By			<b>3.2.5</b>

## CONCLUSIONS

The Maple Leaf Property hosts precious metal mineralization in quartz veins and quartz-carbonate stockwork zones filling fissures. This mineralization is similar in style to that mined both at the Fandora prospect in Tranquille Inlet and at several mines in the Zeballos Camp, 100 kilometres north along the west coast. The Fandora Mine produced 1,468 ounces of gold and 269 ounces of silver from 1,071 tons of ore and by 1949 the Zeballos Camp produced 287,811 ounces of gold and 124,700 ounces silver from 651,000 tons mined, of which only 370,750 tons were milled.

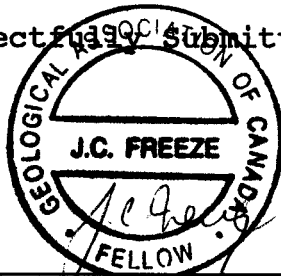
Limited underground development on two of these veins has established some continuity to both the controlling structures and to the mineralization within the veins.

On the Maple Leaf Property the host rocks are the Paleozoic Sicker volcanics and batholiths intruding the volcanics. The Sicker volcanics are well known for hosting several prospects and mines which produce both base and precious metals on Vancouver Island.

The similarity between the mineralization found on the Maple Leaf Property and mineralization occurring in known local gold and silver mines and prospects indicates that the Maple Leaf Property shows potential for developing into a mineable deposit.

Anomalous copper, nickel, zinc and to a lesser extent cobalt and lead values were discovered in soils covering an area 300 metres in length along a road cut. This may only be a function of differing lithologies but should be investigated.

Respectfully Submitted,



J.C. Freeze, B.Sc., F.G.A.C.

COST STATEMENT

April 30 to May 3, 1990

Personnel:

Prospector - Bill Dynes	2.00 days at	175.00	350.00
Assistant - Michael Pym	2.00 days at	150.00	300.00

Transportation:

Truck Rental	4.00 days at	65.00	260.00
Truck Fuel			55.00
Mileage	429.00 km at	0.18	77.22
Zodiak Boat and Motor Rental	4.00 days at	90.00	360.00
Marine Fuel and Mix			16.25

Analytical:

Soil Samples	41.00 samples at	11.00	451.00
Rock Samples	1.00 sample at	15.00	15.00

Support:

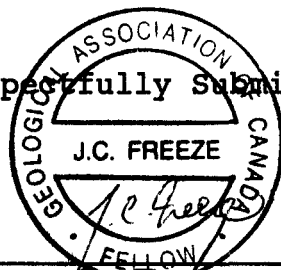
Meals and Groceries			75.63
Ferries			55.00
Accommodation - Motel			124.20

Report Writing

Geologist - J.C. Freeze	2.00 days at	250.00	500.00
Reproduction, Photocopies, Maps			50.00

TOTAL COSTS \$ 2,689.30

Respectfully Submitted,



Joanne C. Freeze, F.G.A.C.



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report for Impact Resources Inc.

**STATEMENT OF QUALIFICATIONS**

**NAME:** Freeze, J.C., (nee Ridley), F.G.A.C.

**PROFESSION:** Consulting Geologist

**EDUCATION:** 1981 B. Sc. Geology -  
University of British Columbia

1978 B.A. Geography -  
University of Western Ontario

**PROFESSIONAL ASSOCIATIONS:** Fellow of the Geological Association  
of Canada

**EXPERIENCE:** 1987 - Present: Consulting Geologist  
with Stillwater Enterprises Ltd.  
Directing exploration programs and  
reviewing properties in Canada and  
U.S.A.

1985 - 1986: Project Coordinator -  
Geologist with White Geophysical  
Inc. Coordinating mineral  
exploration projects involving  
geology, geochemistry, geophysics  
and diamond drilling in B.C. and  
Yukon.

1981 - 1985: Project Geologist with  
Mark Management Ltd. Hughes-Lang  
Group. Responsible for precious  
metals exploration programs  
involving geology, geochemistry,  
geophysics and diamond drilling in  
Western Canada.

1979 - 1981: Summer and part-time  
Geologist involved with coal  
exploration in N.E. B.C. with Utah  
Mines Ltd.

**APPENDIX I**

**Rock and Soil Geochemical Results**



INTERNATIONAL PLASMA LABORATORY LTD

2036 Columbia Street  
Vancouver, B.C.  
Canada V5Y 3E1  
Phone (604) 879-7878  
Fax (604) 879-7898

R E P O R T S U M M A R Y

Report:[ 9000318 R ]

A N A L Y T I C A L R E P O R T

=====

Origin

Inception Date:[ May 28, 1990 ]

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Client:[ 274 | Canamera Geological Ltd. ]
Contact:[ | Bill Dynes ]
Project:[ 0 | Warn Bay ]
Amount/Type:[ 42 | Soil+Rock -Rock Reject Stored 3 Mon ]
[ | -Soil Reject Discarded ]

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Analytical Requisition

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Geochemical:[ None ]
Assay:[ Au (FA/AAS 20g) ] ICP:[ 30 ]
Comments:[ None ]

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Delivery Information

Reporting Date:[ Jun 01, 1990 ]

Principal Destination (Hardcopy,Fascimile,Invoice)

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Company:[ Canamera Geological Ltd. ]
Address:[ 14 - 1155 Melville St. ]
City/Province:[ Vancouver, BC ]
Country/Postal:[ V6E 4C4 ]
Attention:[ Bill Dynes ]
Facsimile:[ (604)685-6440 ]

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Secondary Destination (Hardcopy)

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Company:[ ]
Address:[ ]
City/Province:[ ]
Country/Postal:[ ]
Attention:[ ]
Facsimile:[ ]

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2 data pages in this report.

Approved by:

B.C. Certified Assayers

IPL CODE: 900601-12:57:35



Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
Warn Bay	2.98	1932	3	<0.01	39	0.03	5	<5	14	63	<10	<0.01	145	<5	74	<1
0+00 Byerst	0.42	164	5	0.01	12	0.03	6	<5	6	7	<10	0.08	175	<5	39	1
0+25 Byerst	1.34	1388	2	0.01	36	0.06	10	<5	8	18	<10	0.12	138	<5	90	1
0+50 Byerst	2.14	1107	1	0.02	37	0.09	34	5	6	22	<10	0.14	127	<5	77	<1
0+75 Byerst	1.93	1321	1	0.01	35	0.08	7	5	6	24	<10	0.14	139	<5	92	<1
1+00 Byerst	1.58	1382	1	0.01	31	0.07	8	<5	7	23	<10	0.12	134	<5	75	1
1+25 Byerst	1.92	1296	<1	0.01	40	0.06	9	10	8	20	<10	0.14	146	<5	91	<1
1+50 Byerst	1.69	984	1	0.01	29	0.09	18	<5	5	25	<10	0.15	128	<5	70	<1
1+75 Byerst	1.78	1567	1	0.01	37	0.14	18	9	13	18	<10	0.19	139	<5	91	1
2+00 Byerst	1.47	1145	1	0.01	30	0.11	16	<5	5	14	<10	0.12	125	<5	75	1
2+25 Byerst	0.65	817	1	<0.01	21	0.11	9	<5	10	6	10	0.19	180	<5	58	2
2+50 Byerst	0.96	1311	1	<0.01	27	0.19	7	7	12	10	<10	0.17	149	<5	78	3
2+75 Byerst	1.31	1580	1	<0.01	29	0.15	10	<5	9	11	<10	0.15	138	<5	92	1
3+00 Byerst	1.41	1263	1	0.02	29	0.15	12	11	12	12	<10	0.19	148	<5	87	2
3+25 Byerst	0.17	743	2	0.01	8	0.08	18	<5	3	5	<10	0.09	154	<5	47	1
3+50 Byerst	0.37	596	2	<0.01	9	0.11	17	<5	6	6	<10	0.09	138	<5	58	1
3+75 Byerst	0.50	662	2	<0.01	10	0.07	12	<5	5	8	<10	0.09	170	<5	76	<1
4+00 Byerst	0.33	1059	1	<0.01	9	0.09	10	<5	5	6	<10	0.11	169	<5	60	<1
4+25 Byerst	0.93	1301	1	0.01	15	0.09	52	<5	5	12	<10	0.08	116	<5	72	1
4+50 Byerst	0.44	459	1	0.01	10	0.08	11	<5	8	5	<10	0.07	139	<5	52	1
4+75 Byerst	0.62	1184	1	0.01	13	0.11	15	<5	9	6	<10	0.09	148	<5	68	1
5+00 Byerst	0.51	2210	1	0.01	13	0.23	27	<5	7	7	<10	0.10	135	<5	71	1
5+25 Byerst	0.45	800	<1	0.01	11	0.10	8	6	6	7	<10	0.14	113	<5	43	1
5+50 Byerst	0.62	650	<1	<0.01	11	0.04	7	7	6	13	<10	0.17	87	<5	58	1
5+75 Byerst	0.41	509	1	<0.01	13	0.05	10	<5	8	7	<10	0.21	118	<5	41	1
6+00 Byerst	1.14	480	1	0.03	14	0.10	6	<5	4	15	<10	0.10	114	<5	47	2
6+25 Byerst	1.16	756	2	0.01	18	0.10	6	6	8	11	<10	0.13	118	<5	66	1
6+50 Byerst	1.40	625	1	0.02	17	0.12	4	<5	5	14	<10	0.08	108	<5	59	2
6+75 Byerst	1.46	700	<1	0.02	20	0.15	3	6	7	14	<10	0.10	125	<5	60	3
7+00 Byerst	0.68	4574	5	0.01	15	0.05	7	5	6	7	<10	0.15	148	<5	83	<1
7+25 Byerst	1.63	2019	1	0.01	24	0.13	6	6	7	13	<10	0.11	133	>5	74	>1
7+50 Byerst	1.29	2088	1	0.02	18	0.15	6	<5	6	11	<10	0.10	118	<5	68	1
7+75 Byerst	0.88	655	1	0.01	14	0.09	7	11	7	6	<10	0.21	133	<5	55	2
8+00 Byerst	0.82	779	<1	0.01	14	0.10	5	7	4	7	<10	0.13	142	<5	56	1
8+25 Byerst	0.35	151	1	0.01	7	0.04	8	<5	4	5	<10	0.14	125	>5	33	1
8+50 Byerst	0.37	157	<1	<0.01	12	0.06	4	9	8	4	<10	0.18	171	>5	43	3
8+75 Byerst	0.82	349	1	0.02	15	0.08	5	8	8	8	<10	0.15	145	>5	46	3
9+00 Byerst	1.06	367	1	0.01	16	0.05	5	5	7	5	<10	0.14	111	>5	47	1
9+25 Byerst	1.70	669	<1	0.02	25	0.11	2	5	6	13	<10	0.10	117	<5	57	3
Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed unr = Not Requested ins = Insufficient Sample



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Project: Warn Bay

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Section 1 of 2

Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
9+50 Byerst	Soil	40	0.5	4.24	11	<2	<2	0.21	0.2	16	41	39	>5.00	<3	0.01	2
9+75 Byerst	Soil	<5	0.2	3.24	5	<2	<2	0.12	0.2	10	38	21	>5.00	<3	0.01	<2
10+00 Byerst	Soil	30	0.1	4.70	<5	<2	<2	0.21	0.1	15	39	42	>5.00	<3	0.02	3

INTERNATIONAL PLASMA LABORATORY LTD.



Minimum Detection	5	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection	10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method	FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed   unr = Not Requested   ins = Insufficient Sample

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Project: Warn Bay

Page 2 of 2

Section 2 of 2

Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
9+50 Byerst	0.64	338	1	0.09	13	0.05	9	<5	5	8	<10	0.14	153	<5	65	1
9+75 Byerst	0.30	154	2	0.02	9	0.03	10	<5	5	5	<10	0.17	225	<5	29	1
10+00 Byerst	1.06	373	1	0.01	19	0.07	6	<5	6	6	<10	0.13	108	<5	61	1

Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed unr = Not Requested ins = Insufficient Sample

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