

84-1326-13281

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**13,281**

**GEOLOGICAL REPORT ON THE  
FREE GOLD** 10/85

**LOCATED ON WARN BAY, VANCOUVER ISLAND**

**NTS 92F/4,5  
ALBERNI MINING DIVISION**

at

49°15' N. Latitude  
125°43' W. Longitude

for

**ROYALON PETROLEUM CORP.**

**D.A. CAULFIELD, GEOLOGIST  
C.K. IKONA, P. ENG.**

July 30, 1984

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1.0            INTRODUCTION

The "Free Gold" property is located at the head of Fortune Channel, on Warn Bay, on the western coast of Vancouver Island. Pamicon Developments Ltd. was requested by Royalon Petroleum Corp. to undertake an examination of the property.

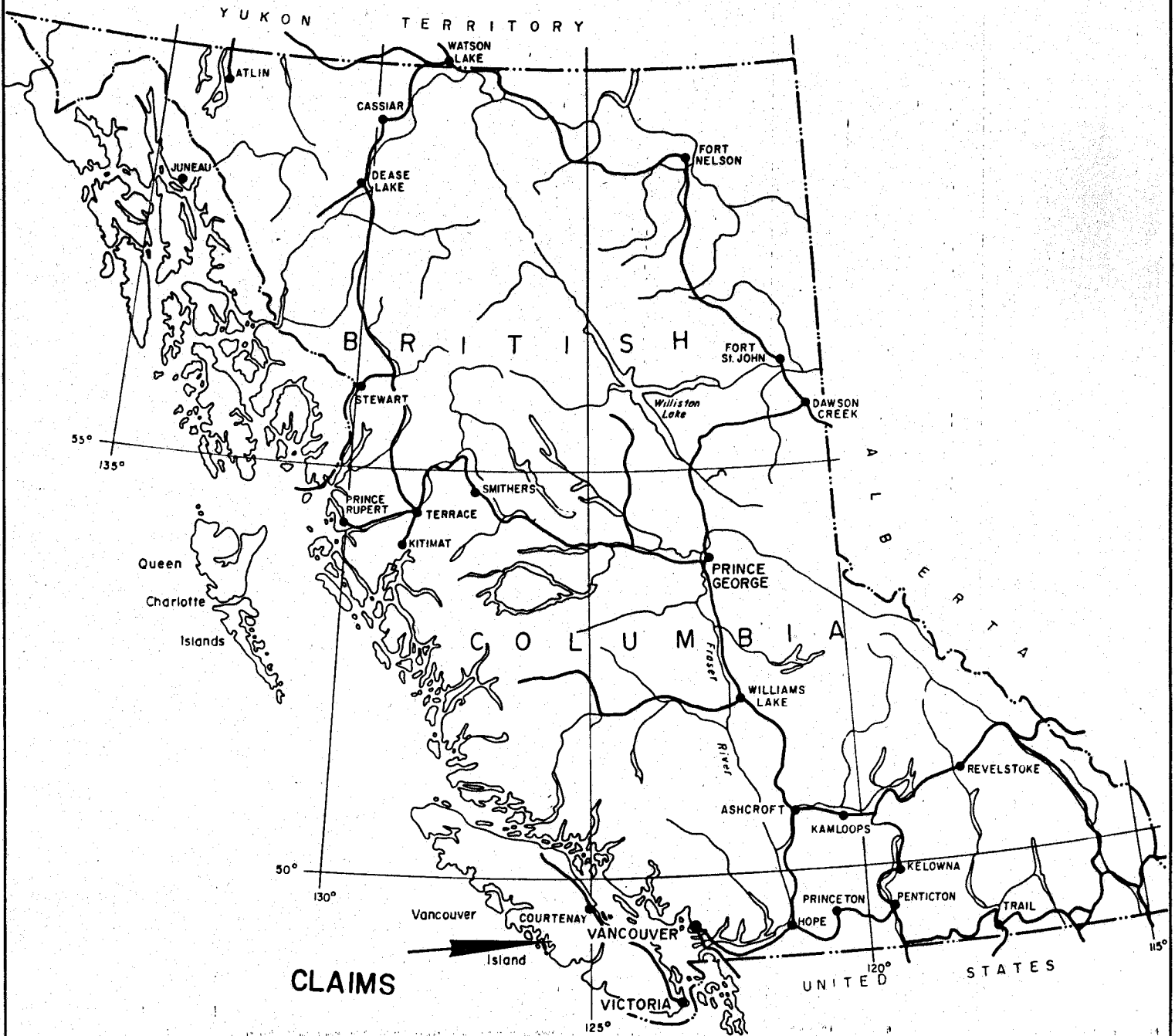
The writer spent one day on the property and collected nine samples for assay. The property was optioned from Sam Craig of Tofino and has a history dating back to the 1930's.

2.0            LIST OF CLAIMS

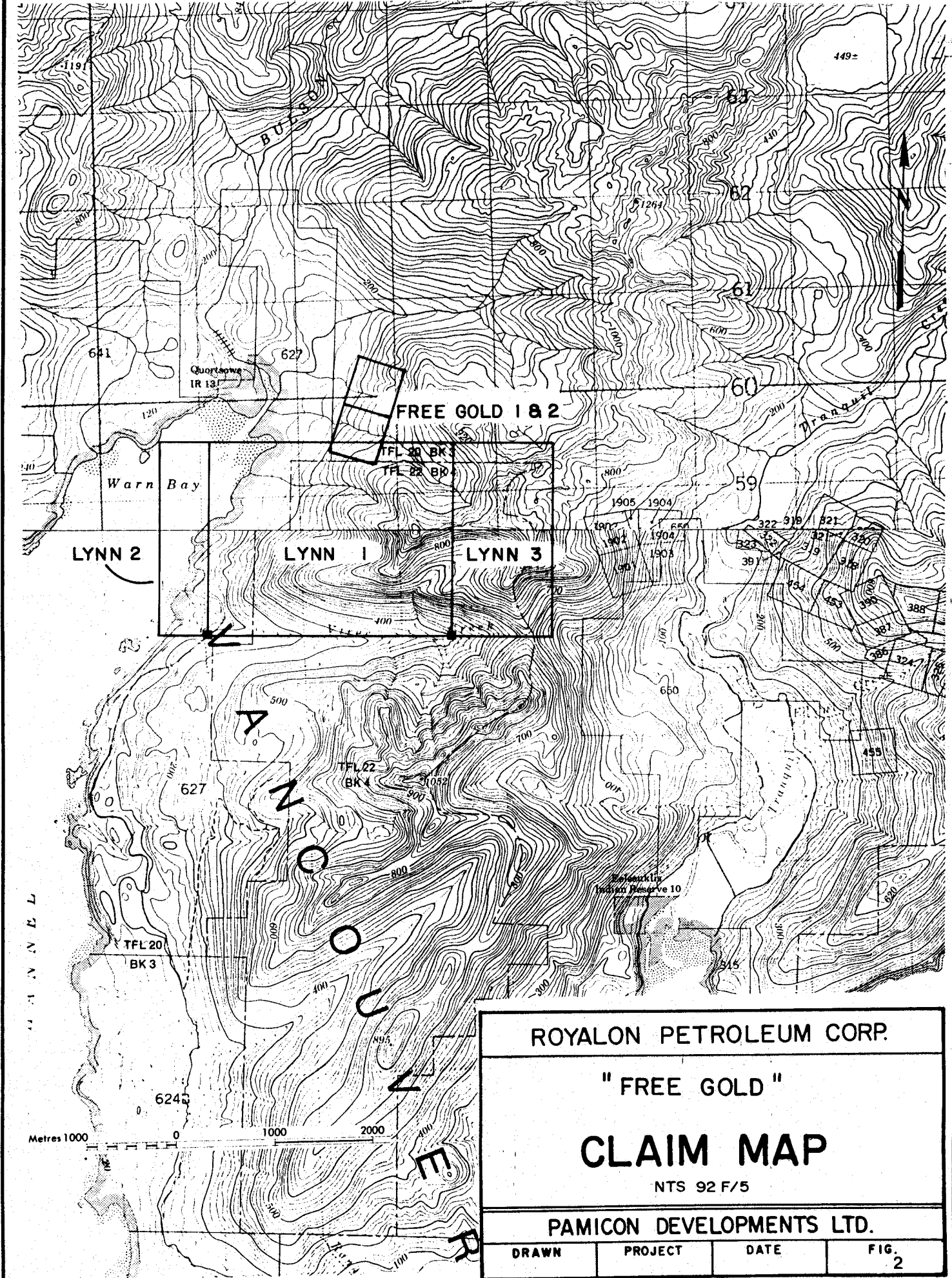
The B.C. Ministry of Mines, Energy and Petroleum Resources records indicate the following claims constitute the Free Gold.

<u>CLAIM NAME</u>	<u>RECORD NO.</u>	<u>UNITS</u>	<u>RECORD DATE</u>
LYNN 1	2217	20	June 7, 1984
LYNN 2	2218	4	"
LYNN 3	2219	8	"
FREE GOLD NO. 1	600	1	Sept. 26, 1979
FREE GOLD NO. 2	601	1	Sept. 26, 1979
		<hr/>	
		34	

The Lynn Legal Corner Posts were located by the writer and were re-staked according to provincial Mineral Act regulations. All claims fall under the jurisdiction of the Alberni Mining Division.



<b>ROYALON PETROLEUM CORP.</b>			
<b>"FREE GOLD"</b>			
<b>PROPERTY LOCATION MAP</b>			
<b>PAMICON DEVELOPMENTS LTD.</b>			
DRAWN	PROJECT	DATE 7-84	FIG. 1



ROYALON PETROLEUM CORP.

"FREE GOLD"

# CLAIM MAP

NTS 92 F/5

PAMICON DEVELOPMENTS LTD.

DRAWN	PROJECT	DATE	FIG. 2
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3.0 LOCATION, ACCESS AND PHYSIOGRAPHY

The property is located on Warn Bay on the west coast of Vancouver Island ( Fig.2 ). Most convenient access is obtained by boat from Tofino, although a truck may be used if the transportation of the truck by water to M & B logging roads is possible.

The Warn Bay area is rugged, mountaineous and heavily timbered on steep bluffy slopes. Local relief ranges from sea level up to 900 m. Annual precipitation levels are high and the vegetation is typical of the west coast rain forest. The winters are not harsh and the property could be worked year round.

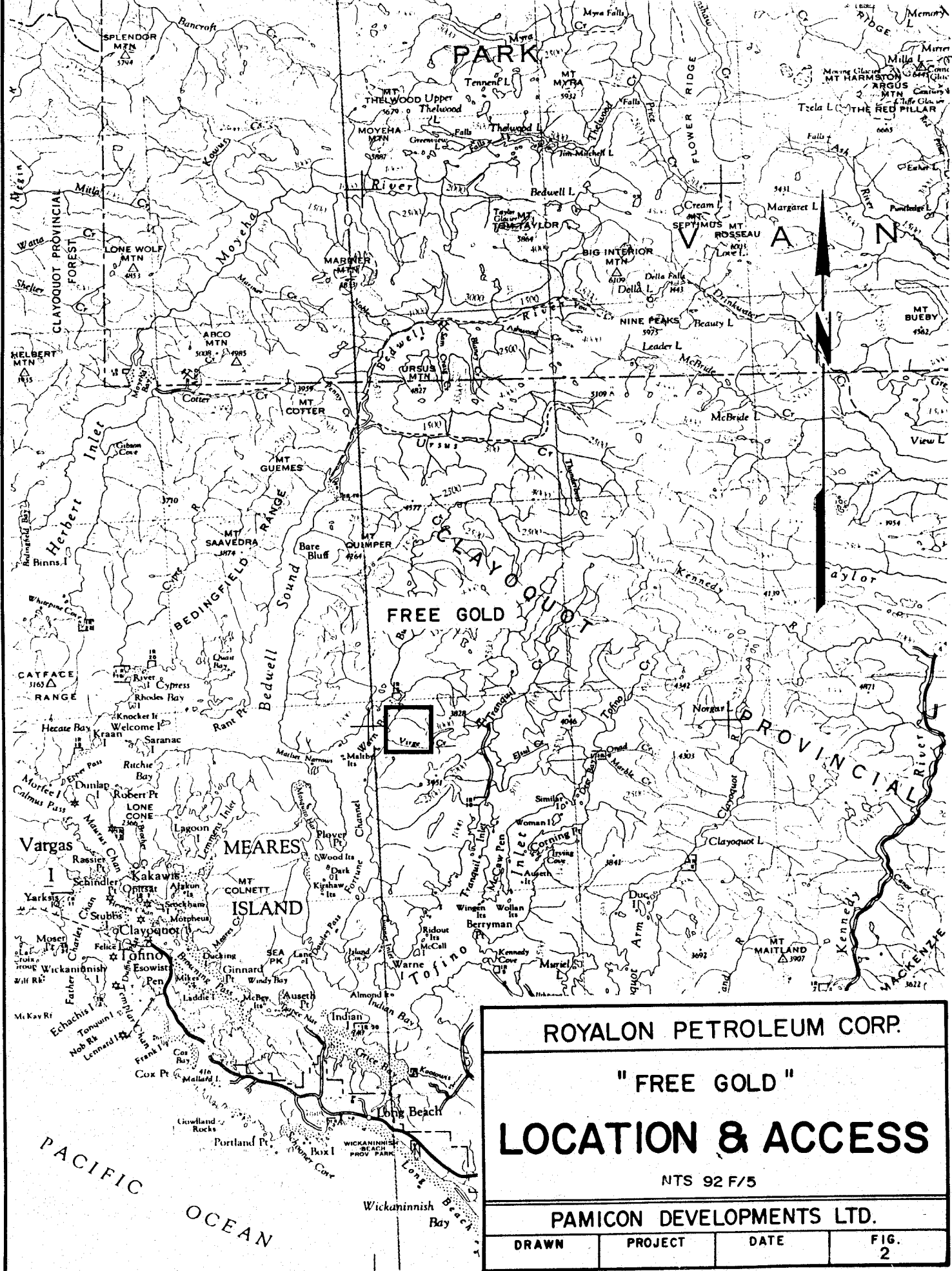
4.0 HISTORY

The property was discovered during the 1930's with the development work being done in 1940 - 42. At this time, two adits were driven, a cabin constructed, and a small ball crusher established. Two shipments were sent in 1941 and 1942:

<u>Shipment</u>	<u>Dry Tons</u>	<u>Au oz/ton</u>	<u>Ag.oz/ton</u>
1941	0.4880	6.84	2.00
1942	0.9880	9.02	2.80

The most recent exploration on the property was conducted by Summit Pass Resource Corp. in May, 1981. A limited geological survey was conducted under the direction of D.J. Brownlee, geologist.

Once Summit Pass had finished their exploration, all title was transferred to Sam Craig who in turn optioned the claims to Royalon Petroleum Corp. this year.



**ROYALON PETROLEUM CORP.**

**"FREE GOLD"**

**LOCATION & ACCESS**

NTS 92 F/5

**PAMICON DEVELOPMENTS LTD.**

DRAWN	PROJECT	DATE	FIG. 2

5.0

### GEOLOGY

The property is situated on the western margin of the Insular Belt on Vancouver Island. The geology reported on is based on government and previous workers mapping.

The region is underlain by Sicker Group sediments and volcanics, of Carboniferous age. This group is composed of cherts and argillites covered by meta andesites and dacites. The Sicker Group is unconformably overlain by Karmutsen basic volcanics which in turn are conformably overlain by Quatsino limestone. Intruding the volcanic and sedimentary rock is granodiorite of the Vancouver Island Intrusives. A quartz diorite of the Penask Batholith also intrudes the region and is of Middle Jurassic age.

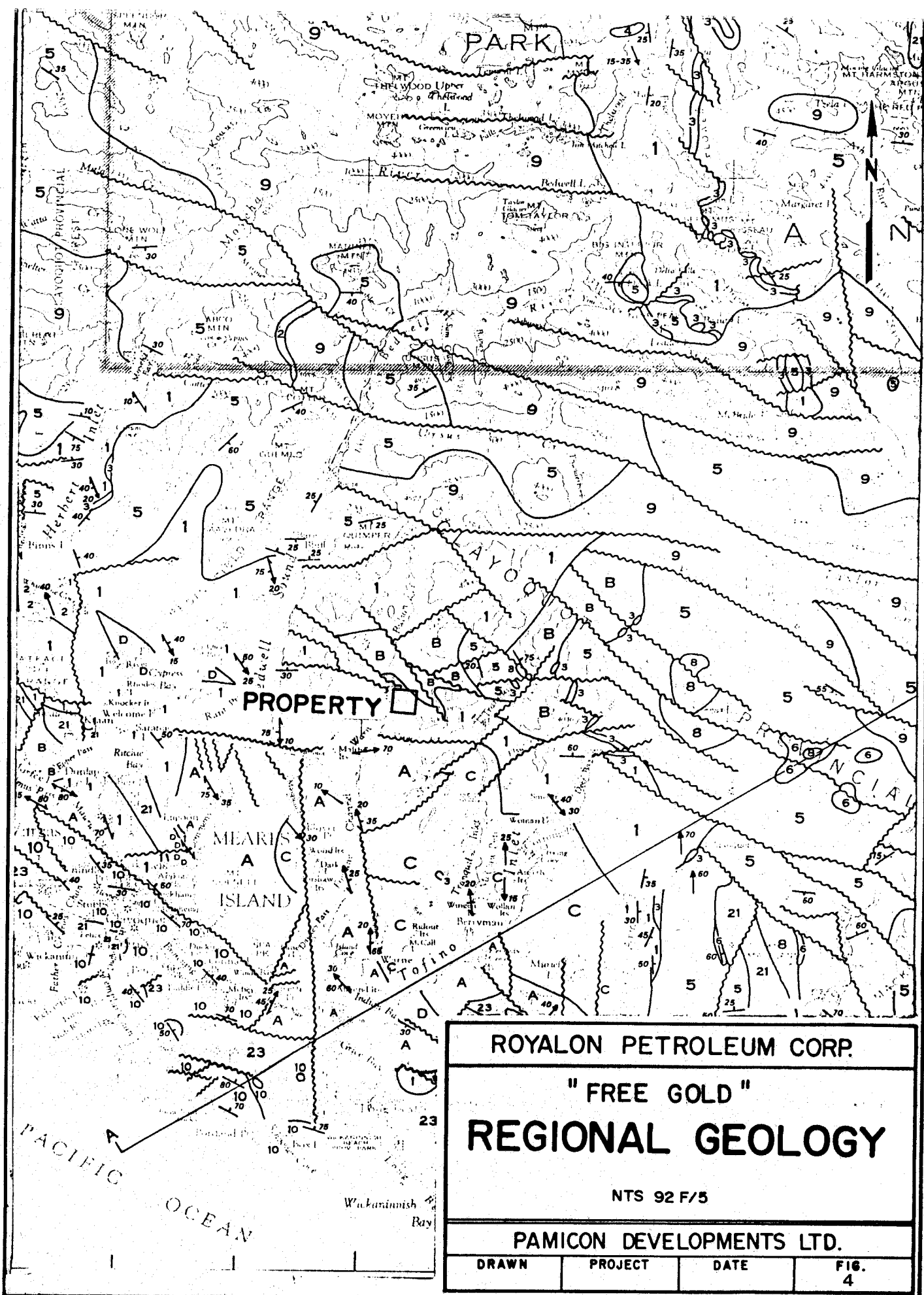
The major structural trend of the region is northwest-southeast, and is reflected in the elongation of the formation and intrusive in this direction. There are two main sets of faults in the region. The main set follows the major structural trend, with the other set cutting it, and trending north-south.

6.0

### MINERALIZATION

The main showing area ( Fig. 5 ) is hosted by a greenish hornblende quartz diorite. The lower adit was driven for 25 meters on a vein within a shear zone which strikes  $260^{\circ}$  and dips steeply to the north. The vein width varies from 0.2 - 1.0 meters. A sample across 25 cm along the back of the adit assayed 0.240 oz/T Au with a sample of dump material returning 0.268 oz/T Au.





<b>ROYALON PETROLEUM CORP.</b>			
<b>"FREE GOLD"</b>			
<b>REGIONAL GEOLOGY</b>			
NTS 92 F/5			
<b>PAMICON DEVELOPMENTS LTD.</b>			
DRAWN	PROJECT	DATE	FIG. 4

JURASSIC  
MIDDLE TO UPPER JURASSIC

9 ISLAND INTRUSIONS: biotite-hornblende granodiorite, quartz diorite

TRIASSIC AND JURASSIC  
LOWER JURASSIC(?)

VANCOUVER GROUP (5-8)  
BONANZA SUBGROUP (7, 8)

8 VOLCANIC DIVISION: andesitic to latitic breccia, tuff and lava; minor greywacke, argillite and siltstone

UPPER TRIASSIC AND LOWER JURASSIC

7 SEDIMENTARY DIVISION: limestone and argillite, thin bedded, silty carbonaceous

UPPER TRIASSIC

6 QUATSINO FORMATION: limestone, mainly massive to thick bedded, minor thin bedded limestone

UPPER TRIASSIC AND OLDER

5 KARMUTSEN FORMATION: pillow-basalt and pillow-breccia, massive basalt flows; minor tuff volcanic breccia. Jasperoid tuff, breccia and conglomerate at base

TRIASSIC OR PERMIAN

4 Gabbro, peridotite, diabase

PENNSYLVANIAN, PERMIAN AND OLDER

LOWER PERMIAN

SICKER GROUP (1-3)

3 BUTTLE LAKE FORMATION: limestone, chert

MIDDLE PENNSYLVANIAN

2 Argillite, greywacke, conglomerate; minor limestone, tuff

PENNSYLVANIAN AND OLDER

1 Volcanic breccia, tuff, argillite; greenstone, greenschist; dykes and sills of andesite-porphry

PALEOZOIC

'WESTCOAST CRYSTALLINE COMPLEX' (A-D)  
'BASIC ROCKS'

D Gabbro, peridotite

'TOFINO INLET PLUTON'

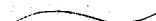




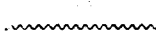
C Hornblende-biotite quartz diorite, granodiorite

'WESTCOAST DIORITES'

B Hybrid hornblende diorite, quartz diorite, agmatite; includes masses of hornfelsic volcanic rocks

'WESTCOAST GNEISS COMPLEX'

A Hornblende-plagioclase gneiss, amphibolite, hornfels

- Geological boundary (approximate) . . . . . 
- Bedding (inclined, vertical, overturned) . . . . . 
- Schistosity, foliation (inclined) . . . . . 
- Schistosity, foliation and minor fold axes (inclined, vertical, arrow indicates plunge) . . . . . 
- Lincation (axes of minor folds) . . . . . 
- Fault (approximate); lineament . . . . . 

Geology by J. E. Muller

6.0

MINERALIZATION CONTINUED

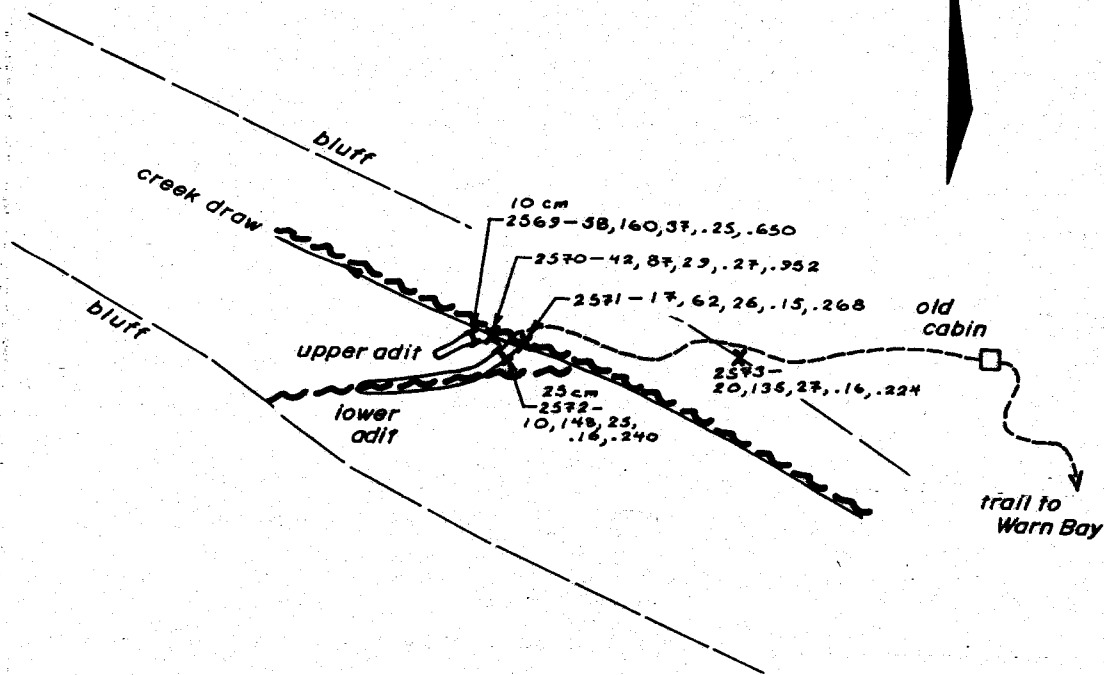
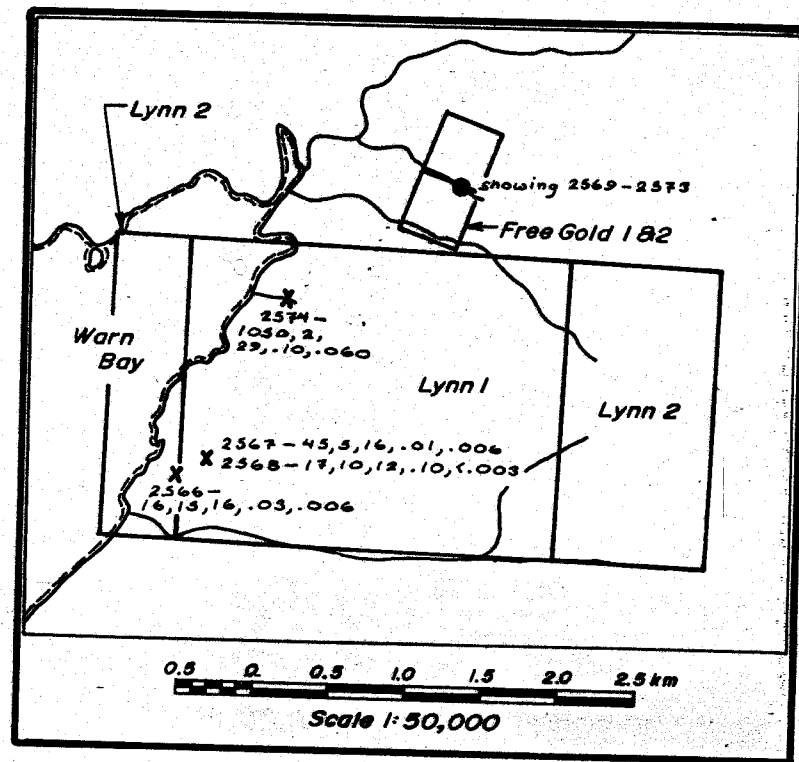
Twenty meters immediately above the lower adit, another drive was drifted for 7.0 meters. A chip sample across 10 cm ran 0.650 oz/T Au whereas a sample from the dump assayed 0.952 oz/T Au. The gold metallization exists as native gold usually found in cavities left by weathered pyrite. Trace amounts of galena were also within the vein. The quartz host is an unusual "bull" white color; not typical of most auriferous quartz veins. D.J. Brownlee traced the vein 50 meters to the northeast where it is most under overburden. To the southeast, the structure is cut off by the fault trending up the main creek.

Two other pyritic quartz veins ( 20,40 cm wide ) were located on a road cut near Virge Creek but the gold values were poor. A sample of float material taken from one of the creeks on the northern part of the claims assayed 0.060 oz/T Au. To date, a source for this float has not been found.

7.0

CONCLUSIONS AND RECOMMENDATIONS

A one day property examination was completed on the Free Gold prospect in June of this year. The claims are located on Warn Bay, on the west coast of Vancouver Island. The history of the Free Gold dates back to the 1930's with underground development work being completed in 1940-1942. Sampling by the writer of the native gold-bearing quartz material at the main showing ranged as high as 0.952 oz/T Au. A check of government records indicates that the only recent exploration was a short limited program done by Summit Pass Resources Corp. in 1979.



**LEGEND**

- |                                   |   |
|-----------------------------------|---|
| X 2570 -<br>42, 87, 29, .27, .952 | ROCK SAMPLE, GRAB<br>- ppm Cu, ppm Pb, ppm Zn, g/t Ag, g/t Au |
| I 2569 -<br>10 cm                 | ROCK SAMPLE, CHIP<br>- WIDTH                                  |
| ~~~~~                             | FAULT   |
| - - - - -                         | TRAIL   |
| ~~~~~                             | CREEK   |

Royalon Petroleum Corp.

**FREE GOLD  
Main Showing**

NTS: 92 F/5  
VANCOUVER ISLAND

JULY, 1984

FIGURE 5

PAMICON DEVELOPMENTS LTD.

7.0

CONCLUSIONS AND RECOMMENDATIONS CONTINUED

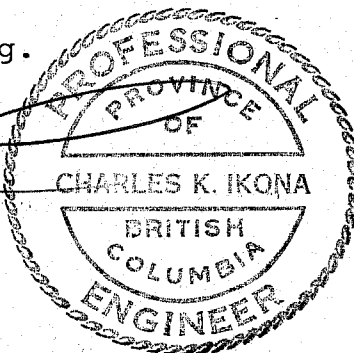
The application of modern exploration techniques would contribute greatly to the future development of the property.

Further exploration on the Free Gold is fully warranted. The first work program should be of reconnaissance nature with a heavy emphasis on prospecting, mapping, and sampling the property as a whole. More detailed work may be considered for mapping and sampling the two adits. Contour soil sampling at 50 meter intervals should be completed on the logging road, 300, and 500 meter contours. Analysis would be made for Cu, Pb, Ag and Au as would be made for all rock samples. Estimated cost to complete such a program would be \$25,300.00 ( Appendix I ).

Respectfully submitted

*David A. Caulfield*  
David A. Caulfield, Geologist

Charles K. Ikona, P. Eng.

*Charles K. Ikona*  
A circular professional seal for Charles K. Ikona, a Professional Engineer in the Province of British Columbia. The seal features a decorative border and contains the text: "PROFESSIONAL ENGINEER OF BRITISH COLUMBIA" around the perimeter and "CHARLES K. IKONA" in the center.

8.0

REFERENCES

Report of the Minister of Mines - 1941 - 42  
1942 - 31  
1946 - 183

Muller, J. E., Geological Survey of Canada, Paper 68-50,  
1968.

Brownlee, D.J. Assessment Report 9418, August 21, 1981.

## BUDGET PROPOSAL

## PHASE I - FREE GOLD

Wages

1 Geologist @ \$250.00/day x 10 days -	\$2,500.00	
1 Assistant @ \$150.00/day x 10 days -	1,500.00	
1 Prospector @ \$100.00/day x 10 days -	<u>1,000.00</u>	

20% Burden	<u>\$1,000.00</u>	\$6,000.00
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<u>General Business, Telephone, Insurance</u>		500.00
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Professional Fees

Engineering & Supervision 2 days @ \$350.00/day		700.00
--	--	--------

Travel & Accommodation

Mob & Demob of Crew, Camp & Equipment		1,000.00
---------------------------------------	--	----------

Camp Rentals

3 men @ \$10.00/day x 10 days		300.00
-------------------------------	--	--------

Food

3 men x \$20.00/day x 10 days		600.00
-------------------------------	--	--------

Expendible Supplies

500.00

Technical Information & Reproduction

200.00

Assays

400 Soil samples for Cu, Au, Ag, Pb @ \$11.00/ea.	4,400.00
200 Rock Chips for Cu, Au, Ag, Pb @ \$19.00/ea.	3,800.00
	<u>8,200.00</u>

Report	2,000.00
--------	----------

Management 15%	3,000.00
----------------	----------

Contingency 10%	<u>2,300.00</u>
-----------------	-----------------

	<u>\$25,300.00</u>
	=====

ASSAY CERTIFICATES





# CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
NORTH VANCOUVER, B.C.  
CANADA V7J 2C1  
TELEPHONE: (604) 984-0221  
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

## CERTIFICATE OF ASSAY

TO : PAMICON DEVELOPMENTS LIMITED

\*\*

CERT. # : A8412369-001-A

215 - 543 GRANVILLE ST.,

INVOICE # : 18412369

VANCOUVER, B.C.

DATE : 18-JUN-84

V6C 1X8

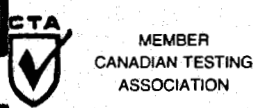
P.O. # : NONE

ROYALON, VANC. IS.

ATTN: D. CAULFIELD - FREEGOLD

Sample description	Prep code	Ag FA oz/T	Au FA oz/T				
2566	207	0.03	0.006	--	--	--	--
2567	207	0.01	0.006	--	--	--	--
2568	207	0.10	<0.003	--	--	--	--
2569	207	0.25	0.650	--	--	--	--
2570	207	0.27	0.952	--	--	--	--
2571	207	0.15	0.268	--	--	--	--
2572	207	0.16	0.240	--	--	--	--
2573	207	0.16	0.224	--	--	--	--
2574	207	0.10	0.060	--	--	--	--

.....  
Registered Assayer, Province of British Columbia





# CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
NORTH VANCOUVER, B.C.  
CANADA V7J 2C1  
TELEPHONE: (604) 984-0221  
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

TO : PAMICON DEVELOPMENTS LIMITED

\*\*

CERT. # : A8412369-001-A  
INVOICE # : I8412369  
DATE : 18-JUN-84  
P.O. # : NONE  
ROYOLON, VANC. IS.

215 - 543 GRANVILLE ST.,  
VANCOUVER, B.C.  
V6C 1X8

ATTN: D. CAULFIELD - FREEGOLD

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm			
2566	207	16	15	16	--	--	--
2567	207	45	5	16	--	--	--
2568	207	17	10	12	--	--	--
2569	207	58	160	37	--	--	--
2570	207	42	87	29	--	--	--
2571	207	17	62	26	--	--	--
2572	207	10	148	25	--	--	--
2573	207	20	135	27	--	--	--
2574	207	1050	2	29	--	--	--



MEMBER  
CANADIAN TESTING  
ASSOCIATION

Certified by Hart Bichler

STATEMENT OF QUALIFICATIONS

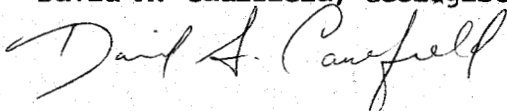
I, DAVID A. CAULFIELD, of 3433 West 12th Avenue, Vancouver, in the Province of British Columbia, DO HEREBY CERTIFY THAT:

1. I am a Geologist in the employment of Pamicon Developments Ltd. with offices at 215, 543 Granville St. Vancouver, British Columbia.
2. I am a graduate of the University of British Columbia with a Bachelor of Science Degree in Geology.
3. My primary employment since 1978 has been in the field of mineral exploration.
4. My experience has encompassed a wide range of geological environments and has allowed considerable familiarization with geophysical, geochemical and diamond drilling techniques.
5. I visited the Free Gold property in June, 1984.
6. I have no interest in the property described herein, nor in securities of Royalon Petroleum Corp.; nor do I expect to acquire any such interests.

I consent to the use of this report in a Prospectus or Statement of Material Facts or any other such document as may be required by the Vancouver Stock Exchange or the Office of the Superintendent of Brokers.

DATED at VANCOUVER, BRITISH COLUMBIA, this 16 day of JAN 198~~4~~<sup>8</sup>. *PAE*

David A. Caulfield, Geologist



APPENDIX IV

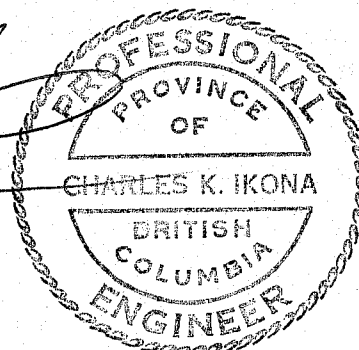
ENGINEER'S CERTIFICATE

I, CHARLES K. IKONA, of 5 Cowley Court, Port Moody, in the Province of British Columbia, DO HEREBY CERTIFY THAT:

1. I am a Consulting Mining Engineer with offices at 215, 543 Granville Street, Vancouver, B.C.
2. I am a graduate of the University of British Columbia with a degree in Mining Engineering.
3. I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.
4. I have not examined the property reported on. The examination was carried out by David A. Caulfield, a geologist whom I have known and worked closely with for a number of years and in whom I have every confidence.
5. I have no interest in the property reported on or in the securities of any company associated with the property nor do I expect to acquire any such interest.
6. I consent to the use by Royalon Petroleum Corporation of this report in a Prospectus or Statement of Material Facts or any other such document as may be required by the Vancouver Stock Exchange or the office of the Superintendent of Brokers.

DATED AT VANCOUVER, BRITISH COLUMBIA, this 16<sup>th</sup> day of Jan, 1985.

Charles K. Ikona, P.Eng.



APPENDIX V

ITEMIZED COST STATEMENT  
"FREE GOLD" PROPERTY  
VANCOUVER ISLAND

WAGES

D.A. Caulfield  
215, 543 Granville Street  
Vancouver, B.C.

1 day @ \$300/day \$ 300.00

RENTALS

Truck - 1 day @ \$50/day 50.00

Boat - 1 day @ \$50/day 50.00

ACCOMMODATION AND MEALS

Expense Report 92.00

ASSAY AND GEOCHEMISTRY

Chemex Invoice #18412369 162.45

REPORT AND REPRODUCTION

500.00

\$1,154.45