

84-#100 - 12034
3/85

EURO-PETROLEUM CORPORATION

A Prospecting Report on the Tranquil Claim,
Alberni Mining Division, British Columbia

<u>Claim Name</u>	<u>Record No.</u>
Tranquil	1688(3)

NTS Reference: 92F/4
Longitude: 125° 40'W
Latitude: 49° 13'W

Consultant: Nevin Sadlier-Brown Goodbrand Ltd.

Prepared by: Dwayne L. Melrose, Geologist
Brian D. Fairbank, P.Eng.

Date: March 20, 1984



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**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,034

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1. INTRODUCTION

1.1 Terms of Reference

Nevin Sadlier-Brown Goodbrand Ltd. was retained by Euro-Petroleum Corporation to carry out a prospecting and sampling evaluation of the Tranquil claim and to locate the old Yankee Boy workings.

The field work was performed on October 11, 1983.

1.2 Claims and Ownership

The Tranquil property is comprised of a 20 unit claim in the Alberni Mining Division (Figure 2). The claim appears on claim sheet 92F/4E. Data on the property, registered in the name of Euro-Petroleum Corporation, are summarized below:

<u>Name</u>	<u>Units</u>	<u>Record No.</u>	<u>Date Recorded</u>
Tranquil	20	1688(3)	March 31, 1983

1.3 Location and Access

The Tranquil claim is situated at the head of Tranquil Inlet on the west coast of Vancouver Island in the Alberni Mining Division (Figure 1). It is 20 kilometres northeast of the town of Tofino and 180 kilometres due west of Vancouver, B.C., at approximately 49° 13'N latitude and 125° 40'W longitude on NTS map sheet 92F/4.

The property can be conveniently reached via watertaxi from Tofino or by private boat from Berryman Cove on the southwest side of Tofino Inlet (Figure 3). Berryman Cove is an industrial docking facility operated by MacMillan Bloedel to service a camp at Rankin Cove and logging operations in the Tranquil Inlet area. The boat trip from Berryman Cove to the head of Tranquil Inlet is 6 kilometres.

Although not directly accessible by truck from population and service centers, logging roads provide excellent local access to all parts of the property.

1.4 Physiography and Vegetation

Tranquil Creek valley forms the central axis of the claim and is flanked on the east and west by moderate to steep and bluffy, glaciated slopes. Elevations range from

sea level to 150m (500 ft) above sea level. Ridges trend northwest and northeast, controlled by the structural fabric of bedrock and the direction of ice movement at the time of glaciation. The flat valley floor near the reported Yankee Bay showings is 600 metres (2000 ft) wide and underlain by a thick sequence of glaciofluvial gravel and outwash deposits.

Climate in the area is moderate and wet with mean annual precipitation greater than 250cm. Sidehills are heavily forested with commercial stands of cedar, hemlock, and fir.

1.5 Previous Work

The Tranquil Inlet-Warn Bay region in which the property is situated has been under exploration for its mineral potential intermittently since the 1890s. Early development centered on copper-magnetite showings at the head of Elsul Creek (Figure 2) immediately northeast of the Tranquil claim (MMAR; 1899, 1946). Gold was first discovered in about 1899 at the head of Warn Bay (Figure 5), however, only minor development work was done at that time (MMAR, 1899).

Gold exploration began in earnest along the whole of the west coast of Vancouver Island in 1931 following the discovery of the Privateer Mine in the Zeballos area, about 100km north from Tranquil Inlet. As a result of this activity, the gold showings shown on Figure 5 were discovered in the late 30s and explored up until war measures regulations were introduced curtailing development of new properties in 1942 (MMAR; 1940, 1941, 1946).

The leading development in the Tranquil-Warn Bay region was the Pandora prospect (MMAR; 1940, 1942, 1946, 1949, 1958, 1964), located 2 miles northwest of the Yankee Boy prospect. By 1942, considerable underground drifting on two parallel veins, four feet apart, had been conducted by Tofino Gold Mining Co. Following the war, the Pandora property was further developed under option by New Privateer Mines Ltd. and to July 29, 1946 approximately 290m (950 ft) of underground drifts and cross cuts had been completed, mainly on three levels. Only minor work was done from 1947 to 1957 at which time the property was acquired by Moneta Mines. Moneta developed the property under lease in the early 1960s during which period production data is as follows (BCMEMP, Mindep):

Production History - Fandora Prospect

<u>Year</u>	<u>Production</u>	<u>Gold</u>	<u>Silver</u>
1960	48 tonnes 53 tons	467 gr 15 oz (0.28 oz/ton)	62 gr 2 oz (0.038 oz/ton)
1962	36 tonnes 40 tons	12068 gr 388 oz (9.7 oz/ton)	2644 gr 85 oz (2.1 oz/ton)
1963	44 tonnes 48 tons	10291 gr 331 oz (6.9 oz/ton)	2457 gr 79 oz (1.6 oz/ton)
1964	844 tonnes 930 tons	22830 gr 734 oz (0.79 oz/ton)	3204 gr 103 oz (0.11 oz/ton)
TOTAL	972 tonnes 1071 tons	45660 gr 1468 oz (1.4 oz/ton)	8367 gr 269 oz (0.25 oz/ton)

Presumably, high-grade ore was direct shipped in 1962-63; in 1964 a 35 ton/day mill was utilized.

The discovery and early development of the Moscena (or Maple Leaf) prospect paralleled that at the Fandora (MMAR; 1899, 1940, 1942, 1946). Two main gold veins up to 6-inches wide, known as the "Shaft" vein and the "E" vein, are traced for 120 and 240 metres (400 and 800 feet) respectively. The majority of the physical work including construction of shafts and open cuts was done by the Maple Leaf Syndicate in 1941-42 and Moscena Mines Ltd. in 1946. Three tonnes (3.3 tons) of sample shipped in 1940 contained 124 gr (4 oz) of gold.

Little history is known regarding the area covered by the Tranquil claim. References to the Yankee Boy prospect in the Minister of Mines Report of 1946 state: "in 1940 production of approximately 35 oz of gold and some silver was recorded from three properties, the Gold Flake, Maple Leaf, and the Yankee Boy". Results of tonnage lot sample shipments from the Yankee Boy to the Department of Mines sampling plant in Prince Rupert are summarized below (MMAR; 1940, 1941).

Production History - Yankee Boy Prospect

Year	Shipper	Dry tons	Gold	Silver	Copper	SiO ₂
1940	T.A. Smith	0.38 tons (0.35 tonnes)	12.4 oz (387 gr)	5.6 oz (1786 gr)	0.5%	78.9%
1941	W. Morris	0.47 tons (0.43 tonnes)	3.5 oz (110 gr)	1.5 oz (48 gr)	0.2%	88.7%
TOTAL		0.85 tons (0.77 tonnes)	16.0 oz (497 gr)	7.3 oz (226 gr)		

The average grade of the tonnage lot samples is 640.4 gr/tonne (15.96 oz/ton) gold and 292.0 gr/tonnes (8.52 oz/ton) silver. According to the Minister of Mines (1946), the samples are from gold bearing veins from workings on the Tranquil claim. Loggers report the discovery of an old shaft during the course of their activity in the valley, however, the shaft was not found during recent site inspections. Little work has apparently been done on the Yankee Boy prospect since 1941.

2. GEOLOGY

2.1 Regional Geology

The oldest rocks in the claim area are the basal volcanic formation (Unit 1) of the lower Permian and older Sicker Group exposed in fault bounded uplifts. The volcanic rocks include flows, breccias, tuffs, greenstone and related andesite dykes. Small exposures of Buttle Lake Formation limestone (Unit 3) occur northwest of the Tranquil property and elsewhere along the margins of the uplifted area where Sicker Group rocks are overlain by upper Triassic and older Karmutsen Formation basaltic volcanics (Unit 5).

Sicker Group and Karmutsen Formation units are intruded by the "Tofino Inlet Pluton" (Unit C), "West Coast Diorites" (Unit B) and the Island Intrusions (Unit 9). In later mapping, Muller (1977) lumps all these intrusive units together as Island Intrusions and assigns a Jurassic age based on K-Argon dating.

Muller considers that the West Coast Gneiss Complex (Unit A) is also genetically related to the Island Intrusions. Gneiss, amphibolite and hornfels of Unit A are derivatives of Sicker Group and probably Karmutsen Formation rocks in Early Jurassic time. The West Coast Crystalline Complex (Units B and C) of the Island Intrusions are the mobilized granitoid equivalents of the Gneiss Complex.

Regional structure is dominated by steep, northwesterly-trending faults, and northeasterly-trending cross faults. The northwesterly trending structures are interpreted by Muller and Carson (1969) to be Tertiary in age.

2.2 Geology of the Tranquil Claim Area

Figure 5 shows the geology of the Tranquil claim and the surrounding area. The claim is underlain by variably gneissic, medium to coarse grained, biotite quartz of the Tofino Inlet Pluton which intrudes massive, altered greenstone of the Sicker Group. Intrusive lithologies are well fractured and are propylitically altered in most outcrops.

Plutonic and volcanic rocks are transected by northeast trending faults which are strongly reflected by topographic lineaments. Likewise, several northwest trending lineaments are interpreted as an indication of cross faults or joints.

3. TECHNICAL DATA

The main objectives of the prospecting was to located the old Yankee Boy workings and check out the remaining part of the property for mineralization.

From the existing available literature (see References), the old Yankee Boy workings could not be located. This is probably a result of the combination of thick undergrowth and the work being done over forty years ago.

Logging roads were traversed and any signs of mineralization and alteration were sampled and analyzed for Au, Ag, Pb, and Cu (see Figure 6). Two soil samples were taken in an area of mineralization and alteration.

3.1 Field Observations

There were 12 rock samples and 2 soil samples taken during the reconnaissance prospecting (Figure 6). The results were insignificant (see Appendix B).

Samples TR-1 and TR-2 were taken from a pyritized gossan stained, fine grained siliceous metasedimentary rock.

Samples TR-3 and TR-4 were taken in pyritized unaltered granitic rock.

Samples TR-5 to TR-7 and 32906 to 32100 were taken along the road and creek bank on the west side of the Tranquil Creek in the approximate area of the old Yankee Boy workings. The samples represent 1-2 inches wide quartz veins on the pyritized chloritically altered granitic country rock. Soil samples T-1 and T-47 were taken in B-horizon soil just above the pyritized granite.

Respectfully submitted,

NEVIN SADLIER-BROWN GOODBRAND LTD.


Dwayne L. Melrose, Geologist


Brian D. Fairbank, P.Eng.

March 20, 1984

4. REFERENCES

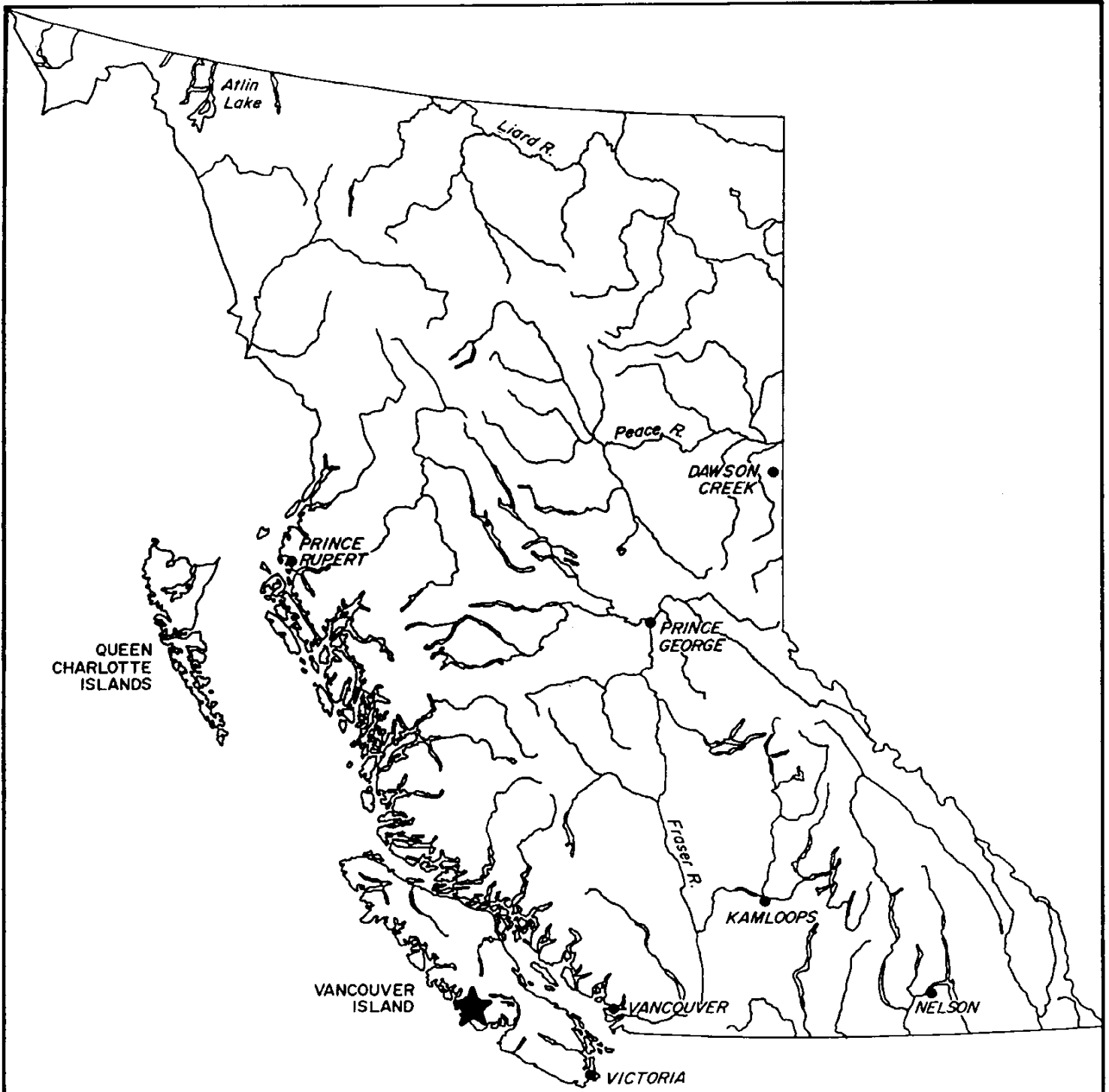
BCDMPR Mineral Inventory, Map 92F and Mindep File.

B.C. Minister of Mines Annual Reports

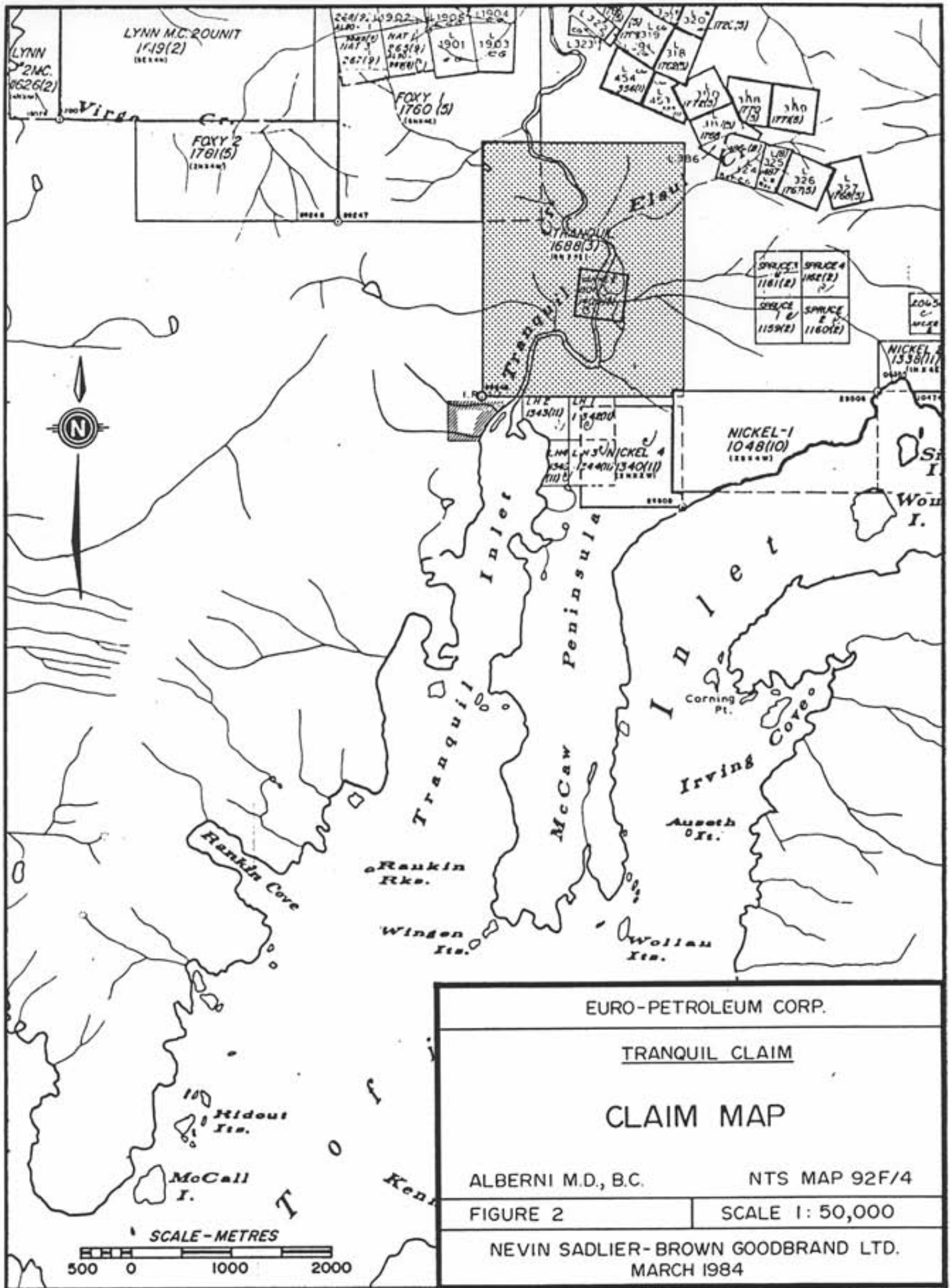
1899	p779	Maple Leaf
	p789	American Wonder
1940	p 42	Yankee Boy and Others
1941	p 44	Yankee Boy and Others
1942	p 66	Maple Leaf, Fandora, Gold Flake
1946	pl83-191	Tranquil Creek-Warn Bay Area; Fandora, Moscena
1949		Fandora
1958		Fandora, Gold Flake
1964		Fandora, Gold Flake

Muller, J.E. and Carson, D.J.T., 1969: Geology and Mineral Deposits of Alberni Map-Area, British Columbia (92F); GSC Paper 68-50, map 17-1968.

Muller, J.E., 1977: Geology of Vancouver Island, GSC Open File 463, 3 map sheets and geological notes.



EURO-PETROLEUM CORP.	
<u>TRANQUIL CLAIM</u>	
LOCATION MAP	
ALBERNI M.D., B.C.	NTS MAP 92F/4
FIGURE I	SCALE : AS SHOWN
NEVIN SADLIER-BROWN GOODBRAND LTD. MARCH 1984	



EURO-PETROLEUM CORP.

TRANQUIL CLAIM

CLAIM MAP

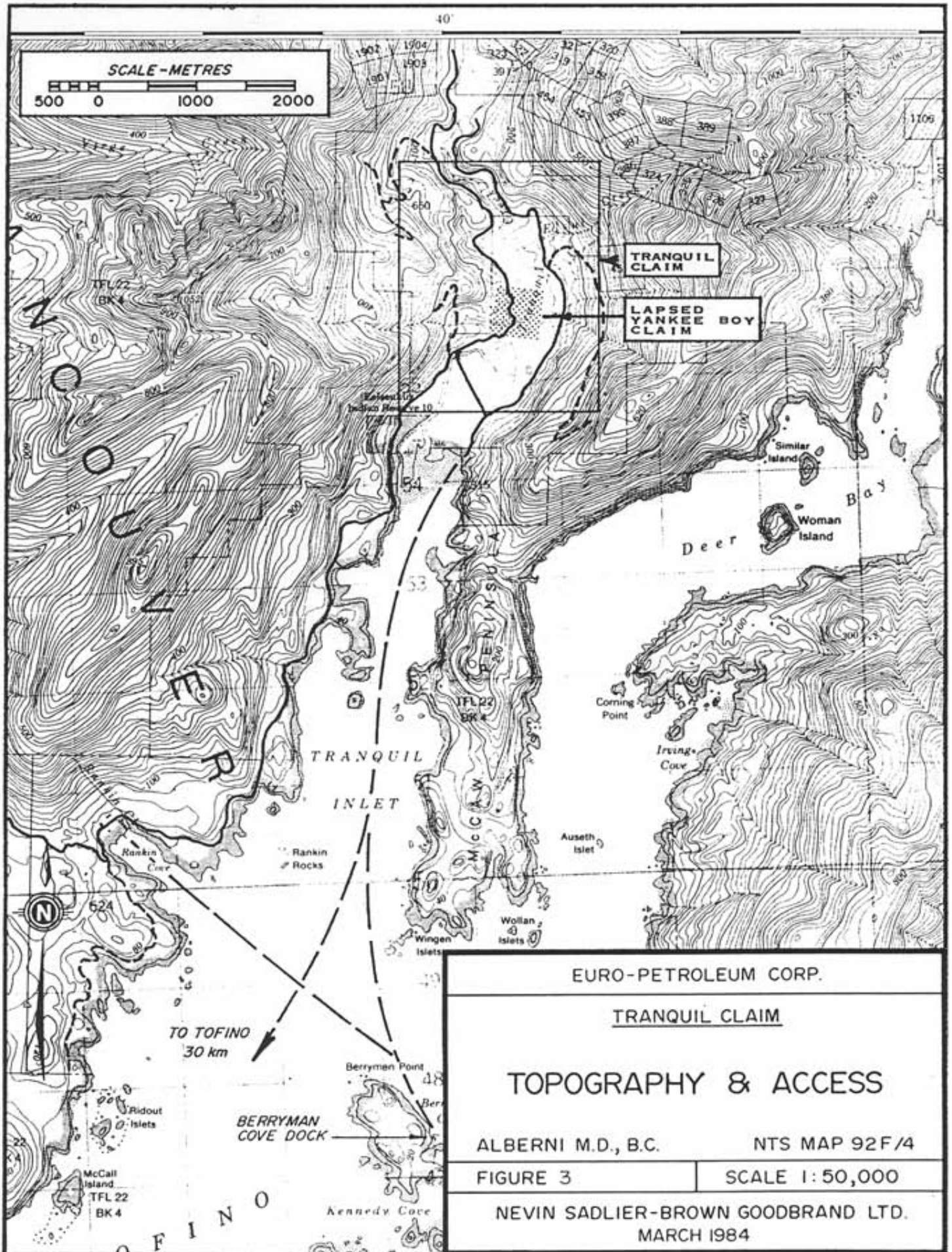
ALBERNI M.D., B.C.

NTS MAP 92F/4

FIGURE 2

SCALE 1: 50,000

NEVIN SADLIER-BROWN GOODBRAND LTD.
MARCH 1984



40

SCALE - METRES

500 0 1000 2000

TRANQUIL CLAIM

LAPSED YANKEE BOY CLAIM

TRANQUIL INLET

EURO-PETROLEUM CORP.

TRANQUIL CLAIM

TOPOGRAPHY & ACCESS

ALBERNI M.D., B.C.

NTS MAP 92F/4

FIGURE 3

SCALE 1:50,000

NEVIN SADLIER-BROWN GOODBRAND LTD.
MARCH 1984

TFL 22 BK 4

TFL 22 BK 4

Rankin Cove

Rankin Rocks

Corning Point

Irving Cove

Auseth Islet

Wollan Islets

Wingen Islets

Berryman Point

BERRYMAN COVE DOCK

McCall Island

TFL 22 BK 4

TFL 22 BK 4

Similar Island

Woman Island

Deer Bay

N O C O

N O C O

M R

N O C O

N O C O

F I N O

Kennedy Cove

N

48

48

48

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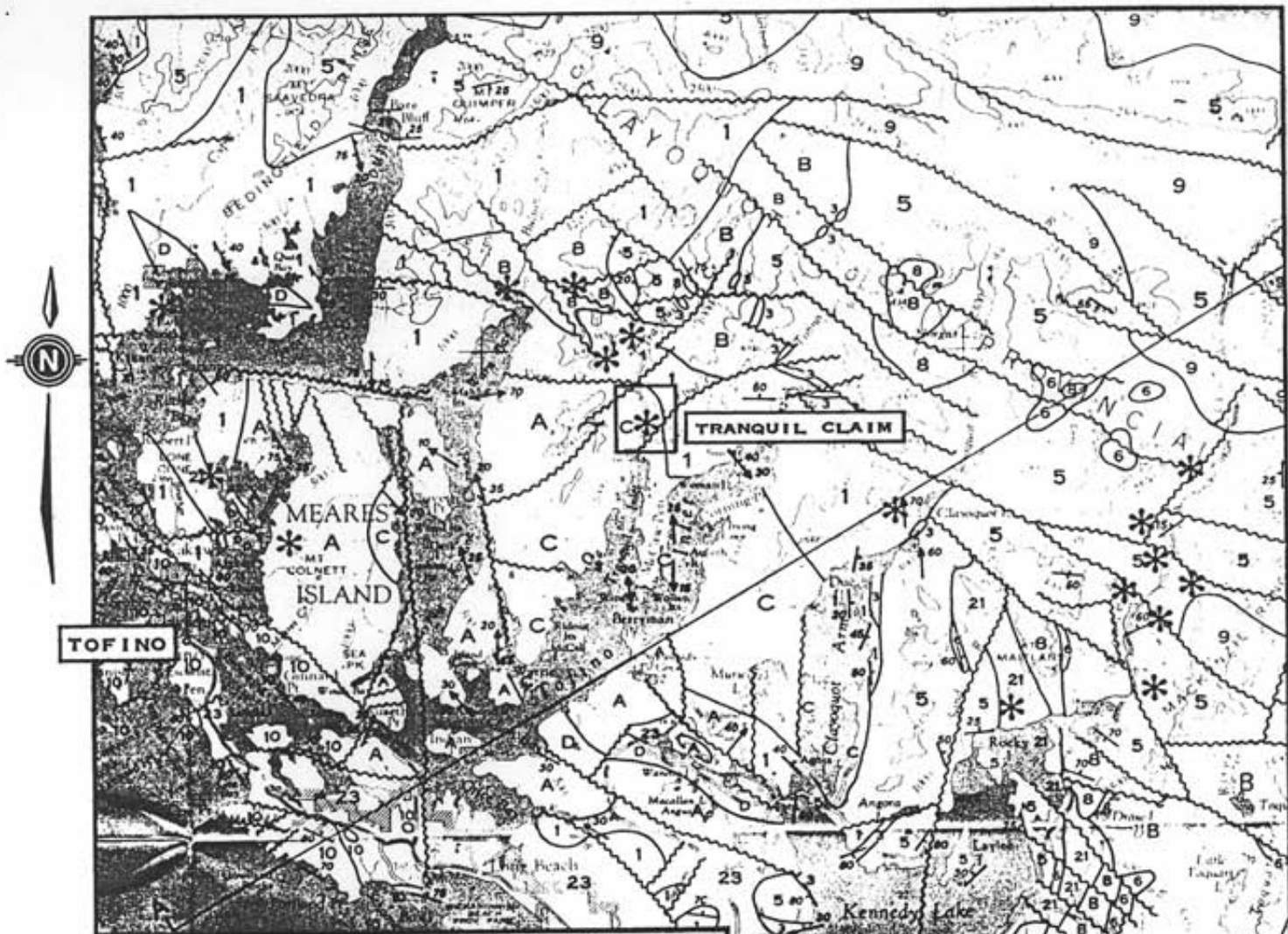
48

48

48

48

48



To accompany GSC Paper 17-1968

PARTIAL LEGEND (See also Table 4)

MIDDLE TO UPPER JURASSIC

9 ISLAND INTRUSIONS: biotite-hornblende granodiorite, quartz diorite

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

PENNSYLVANIAN, PERMIAN AND OLDER

LOWER PERMIAN
SICKER GROUP (1-3)

3 BUTTLE LAKE FORMATION: limestone, chert

PENNSYLVANIAN AND OLDER

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

'WESTCOAST CRYSTALLINE COMPLEX'
'TOFINO INLET PLUTON'

C Hornblende-biotite quartz diorite, granodiorite

'WESTCOAST DIORITES'

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

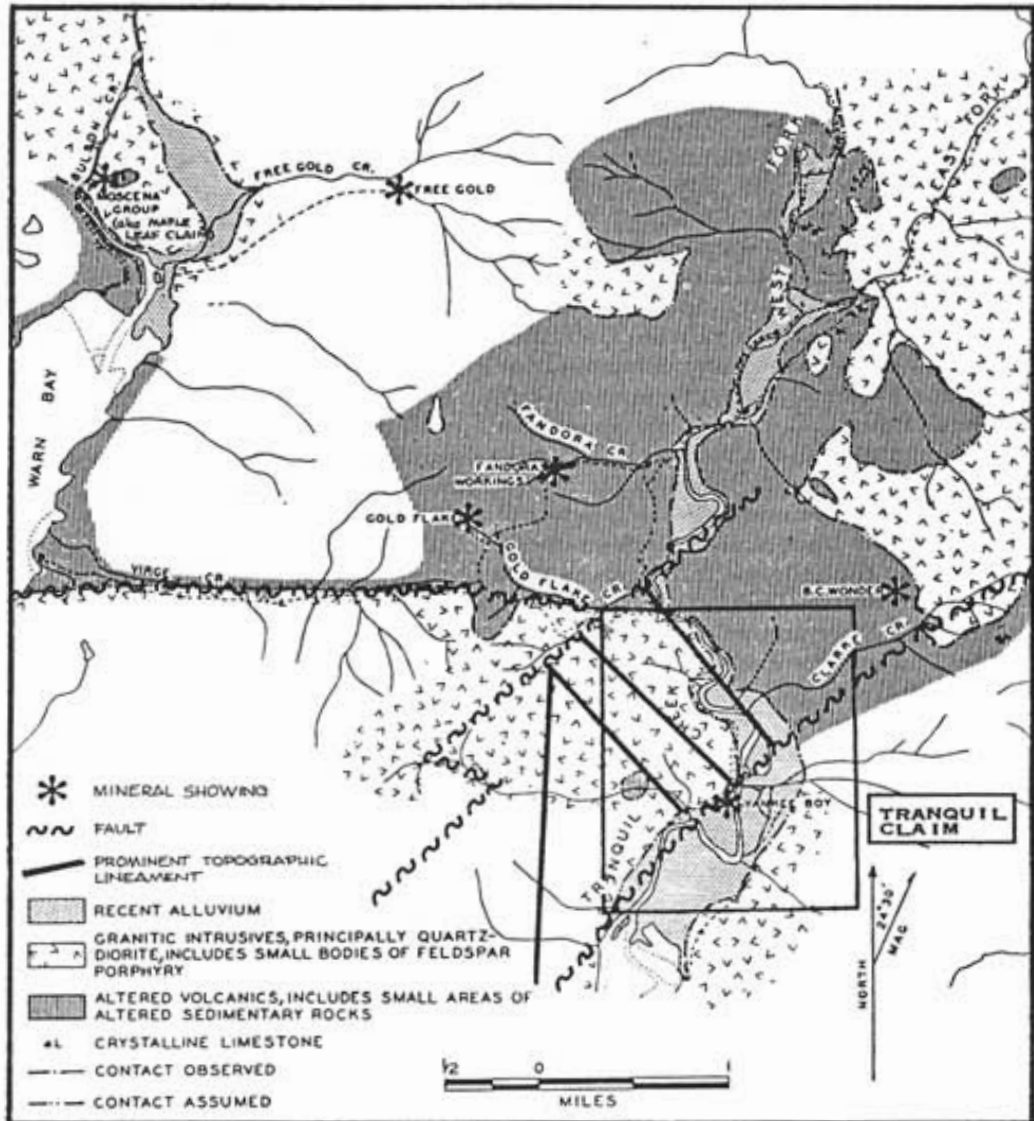
'WESTCOAST GNEISS COMPLEX'

A Hornblende-plagioclase gneiss, amphibolite, hornfels

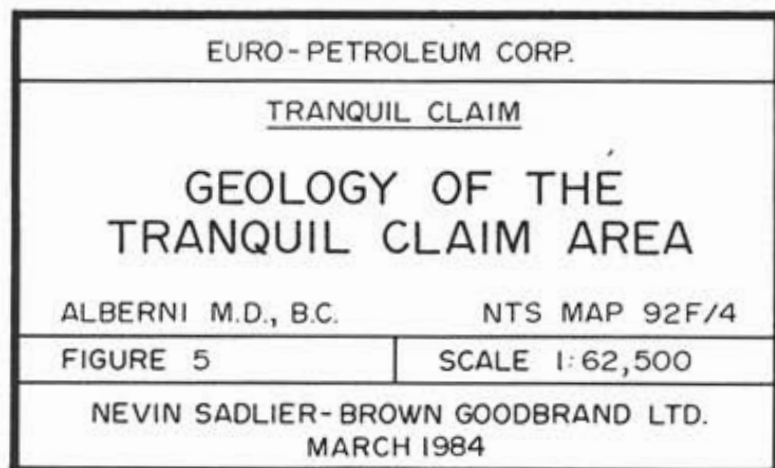
* Gold Prospect

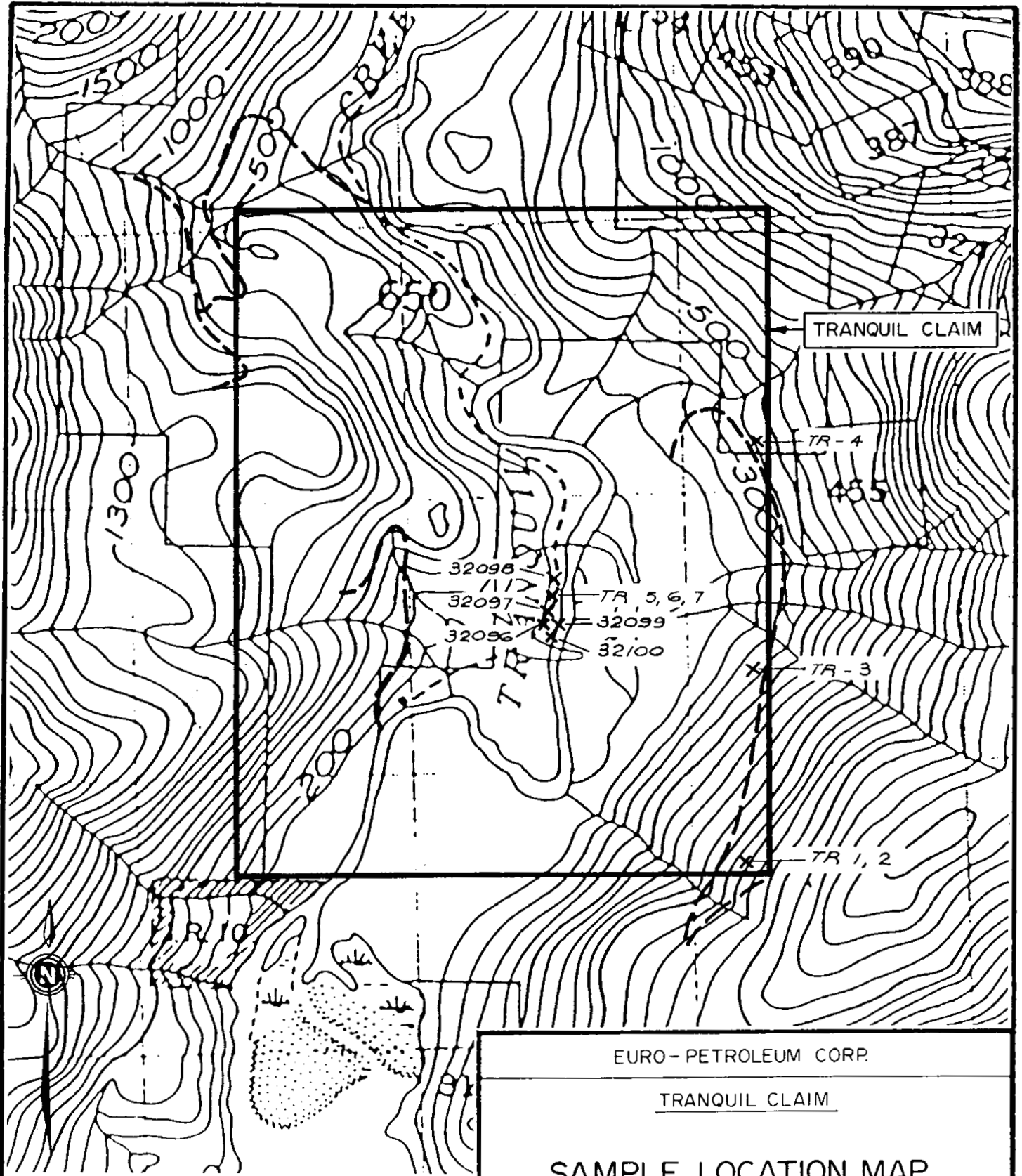


EURO-PETROLEUM CORP.	
TRANQUIL CLAIM	
REGIONAL GEOLOGY	
ALBERNI M.D., B.C.	NTS MAP 92F/4
FIGURE 4	SCALE 1: 250,000
NEVIN SADLIER-BROWN GOODBRAND LTD.	
MARCH 1984	



FROM: MINISTER OF MINES - ANNUAL REPORT 1946





X SAMPLE LOCATION



EURO - PETROLEUM CORP.	
<u>TRANQUIL CLAIM</u>	
SAMPLE LOCATION MAP	
ALBERNI M.D., B.C.	NTS MAP 92F/4
FIGURE 6	SCALE : AS SHOWN
NEVIN SADLIER-BROWN GOODBRAND LTD. MARCH 1984	

APPENDIX A
Statement of Qualifications

Statement of Qualifications

I, Dwayne L. Melrose hereby certify that:

1. My residence address is 323 Seymour River Place, North Vancouver, B.C. V7H 1S6.
2. I am a consulting geologist with the firm of Nevin Sadlier-Brown Goodbrand Ltd., #401-134 Abbott Street, Vancouver, B.C. V6B 2K4.
3. I hold a B.Sc. in Honours Earth Science from the University of Waterloo, Waterloo, Ontario. I have been practicing my profession since 1981.
4. I am an Associate Member of the Geological Association of Canada.
5. I have reviewed the data and literature concerning the Tranquil Claim and have co-authored this report.


Dwayne L. Melrose, Geologist

March 20, 1984

Statement of Qualifications

I, Brian D. Fairbank hereby certify that:

1. My residence address is 320 E. Windsor Road, North Vancouver, B.C. V7N 1K1.
2. I am a consulting geologist and partner with the firm of Nevin Sadlier-Brown Goodbrand Ltd., #401-134 Abbott Street, Vancouver, B.C. V6B 2K4 and have been practicing my profession since 1973.
3. I hold a B.A.Sc. in Geological Engineering from the University of British Columbia and I am a member of the Association of Professional Engineers (Geological) in the Province of British Columbia.
4. I am a Fellow of the Geological Association of Canada and a member of the Canadian Institute of Mining and Metallurgy.
5. I have examined the Tranquil Claim and reviewed the records pertaining to the property personally.
6. I hold no direct or indirect beneficial interest in the above property nor in the securities of Euro-Petroleum Corp.
7. I consent to the use by Euro-Petroleum Corp. of this report in a Prospectus or Statement of Material Facts or such other documents as may be required by the Vancouver Stock Exchange, the Superintendent of Brokers, Insurance and Real Estate of B.C.; or similar regulatory authorities in the Province of British Columbia.


Brian D. Fairbank, P.Eng.

March 20, 1984

APPENDIX B

Certificate of Analysis

CHEMEX LABS LTD.

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

APPENDIX B

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

TO: NEVIN SADLIER-BROWN GOODBRAND LTD.,

CERT. # : A8315636-001-A

INVOICE # : I8315636

DATE : 18-OCT-83

P.C. # : NONE

TRANQUIL INLET

401 - 134 ABBOTT ST.
VANCOUVER, B.C.
V6B 2K4

ATTN: B. FAIRBANK

Sample description	Prep code	Au oz/T RUSH FA					
32096	236	0.006	---	---	---	---	---
32097	236	0.022	---	---	---	---	---
32098	236	0.020	---	---	---	---	---
32099	236	<0.003	---	---	---	---	---
32100	236	<0.003	---	---	---	---	---



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 : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8310862-001-
INVOICE # : I8310862
DATE : 15-APR-83
P.O. # : NONE
194

ATTN: DWAYNE L. MELROSE

Sample description	Prep code	Cu ppm	Pb ppm	Ag ppm	Au	FA+AA ppb		
TR-1	205	108	1	0.1		10	--	--
TR-2	205	77	230	0.1		5	--	--
TR-3	205	10	1	0.1		<5	--	--
TR-4	205	66	1	0.1		5	--	--
TR-5	205	66	41	0.1		5	--	--
TR-6	205	128	35	0.1		20	--	--
TR-7	205	108	8	0.1		5	--	--



MEMBER
CANADIAN TESTING
ASSOCIATION

Certified by *Hart Bichler*



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 : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8310861-001-
INVOICE # : I8310861
DATE : 14-APR-83
P.O. # : NONE
194

ATTN: DWAYNE L. MELROSE

Sample description	Prep code	AS ppm	Hg ppb	Au	FA+AA ppb			
T-1	201	7.0	120		<5	--	--	--
T-47	201	7.0	140		5	--	--	--



MEMBER
CANADIAN TESTING
ASSOCIATION

Certified by *Hart Bichler*

APPENDIX C

Itemized Cost Statement

Labour

Brian D. Fairbank	
2 days @ \$396.00/day	\$ 792.00
Subtotal	\$ 792.00

Disbursements

Airplane charter	\$ 673.00
Meals	3.50
Assaying Costs	198.10
Drafting and Reporting	<u>614.73</u>
Subtotal	<u>1,489.33</u>
Grand Total	<u>\$2,281.33</u>