REPORT ON RECONNAISSANCE GEOLOGICAL MAPPING

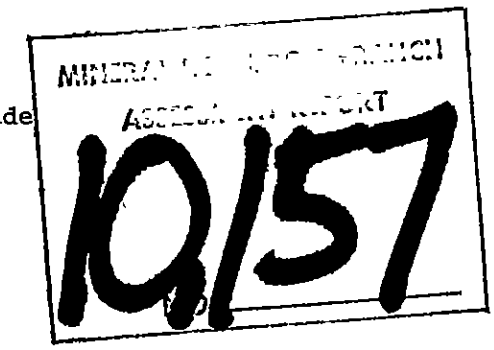
CONDUCTED ON THE

TAH 2 - 21 MINERAL CLAIMS

ALBERNI MINING DIVISION

N.T.S. 92 E 15

BETWEEN 49°47' and 49°56' North Latitude
126°33' and 126°37' West Longitude



OWNED AND OPERATED BY
PAN OCEAN OIL LTD.

WORK DONE BY PAN OCEAN OIL LTD

Report No. 8-82

Report By:

G.E. Chabot

February, 1982

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INTRODUCTION:

I) GEOGRAPHY AND PHYSIOGRAPHY

The property is located in the Vancouver Island Ranges south of Tahsis, British Columbia (Fig.I). Access to the area is via the Head Bay Forest Road, a gravel road from Gold River, British Columbia. Access to the claims is by numerous logging roads, in various states of repair. The Tsowwin River road provides access to the southern end of the property while all access to the western part of the property, along Tahsis Inlet, is gained by abandoned logging roads from the inlet. The central portions of the property, especially along Tahsis Mountian, are most readily accessible by helicopter.

The property is heavily forested with Western Hemlock, Balsam Fir, Western Red Cedar, Douglas Fir and Sitka Spruce. The southern portion of the property is presently being logged; the inlet side of the property has already been harvested. Exceptionally dense forest, with considerable rainfall (up to 500cm/year), makes traversing difficult. The logging operations result in rock exposure and access to the property, which would otherwise be most difficult to evaluate.

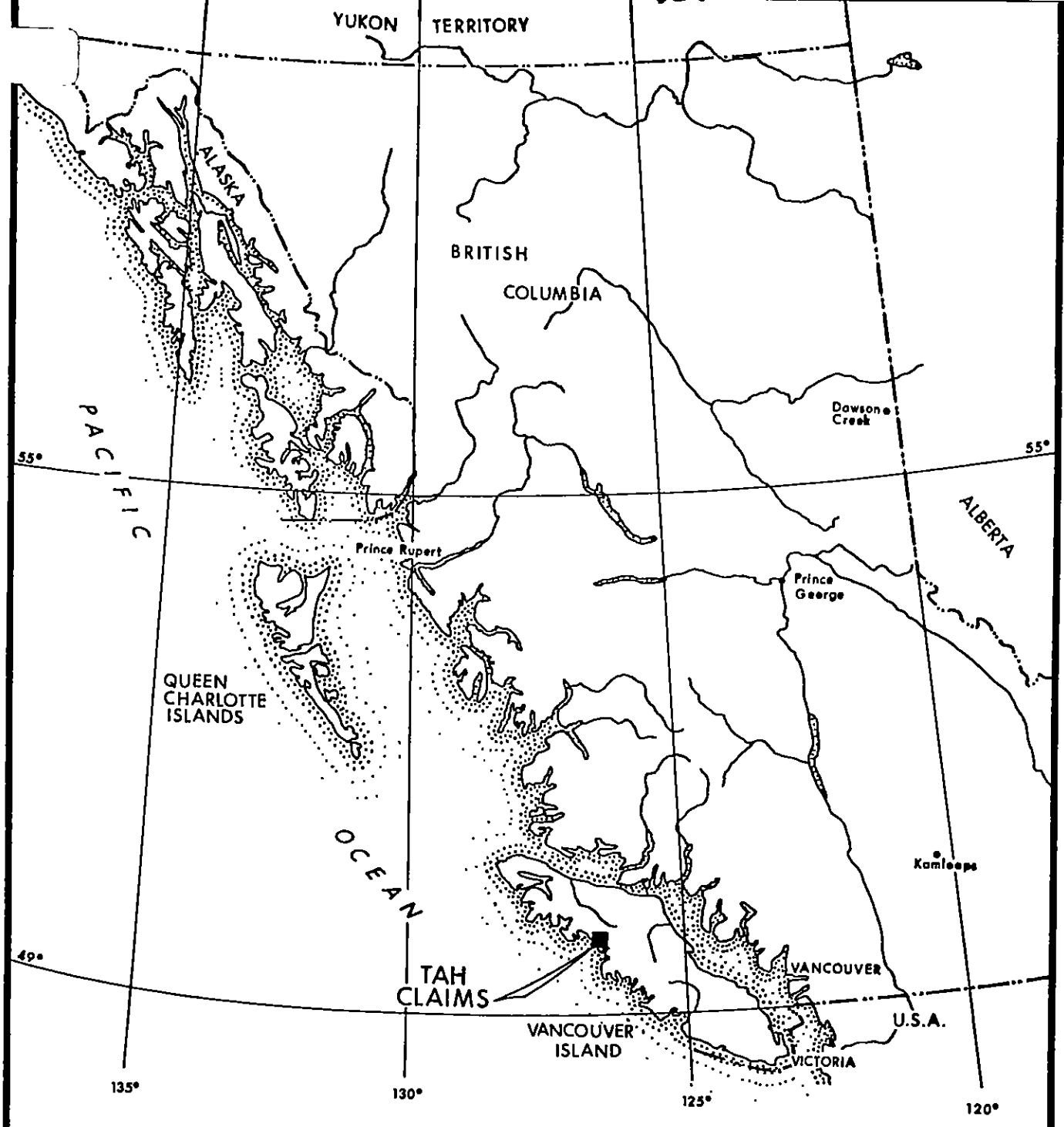
Slopes are steep, with elevation on the claims varying from sea level along Tahsis Inlet to 1291 metres at Santiago Mountain. Numerous creeks drain the property, many are intermittent. During periods of low precipitation, many of the creeks are non-existent, but during periods of heavy rainfall, the creeks become raging torrents capable of washing out roads. Consequently, many roads, that are not being actively used and maintained, are not passable by motor vehicle.

II) PROPERTY DEFINITION, HISTORY AND ECONOMIC POTENTIAL

The property comprises 20 claims, Tah 2 to 21 (see Table 1). The Tah 2 to 19 claims were staked for Pan Ocean Oil Ltd. in February 1980 with Tah 20 and 21 being added in March 1981 (Plate I).

The reasons for acquiring the original claims have been given by White and Chabot, 1981. The Tah 20 and 21 claims were staked to protect anomalous heavy mineral and rock chip values.

Fig. 1



Miles 100 0 100 200 Miles

TO ACCOMPANY REPORT NO 8-82 BY G.C.

PAN OCEAN OIL LTD.
CALGARY ALBERTA

GENERAL LOCATION TAH CLAIMS 2 - 21

DISSEMINATED GOLD PROJECT

DATE	SCALE	NTS	DRAWING NO.
APR., 1981	1:7 500 000	—	A-1200

D.A.

TABLE I

LIST OF MINERAL CLAIMS

NAME	UNITS	RECORDING DATE	MINING DIVISION	RECORD NO	TAG NO
Tah 2	20	March 10, 1980	Alberni	743	39686
Tah 3	20	March 10, 1980	Alberni	744	39687
Tah 4	20	March 10, 1980	Alberni	745	39688
Tah 5	20	March 10, 1980	Alberni	746	39689
Tah 6	20	March 10, 1980	Alberni	747	39690
Tah 7	20	March 10, 1980	Alberni	748	39691
Tah 8	20	March 10, 1980	Alberni	749	39692
Tah 9	20	March 10, 1980	Alberni	750	39693
Tah 10	20	March 10, 1980	Alberni	751	39694
Tah 11	20	March 10, 1980	Alberni	752	39695
Tah 12	20	March 10, 1980	Alberni	753	39696
Tah 13	20	March 10, 1980	Alberni	754	39697
Tah 14	20	March 10, 1980	Alberni	755	39698
Tah 15	20	March 10, 1980	Alberni	756	39699
Tah 16	15	March 10, 1980	Alberni	757	39701
Tah 17	15	March 10, 1980	Alberni	758	39702
Tah 18	15	March 10, 1980	Alberni	769	39703
Tah 19	20	March 10, 1980	Alberni	760	39704
Tah 20	20	April 12, 1980	Alberni	1204	13231
Tah 21	20	April 12, 1980	Alberni	1205	13238

The Zeballos mining camp, aproximately 20 kilometres northwest of the present property, recovered 287,811 ounces of gold and 124,700 ounces of silver. The mineralization is associated with the Zeballos Stock and generally is found as narrow, high grade quartz veins along shear zones. Two claim groups near the Tsowwin River were explored in the late 1930's. The Vivian group, located within the Tah 18 claim, consists of one 5 to 10 cm. vein of quartz and calcite occupying a fissure in altered volcanics (Hoadley, 1953). Assays of up to 2 ounces of gold per ton were obtained. The Mohawk group, located in the southeast corner of Tah 20, consists of a 20 cm. wide quartz filled fissure in fragmental volcanic rock. Banded and comb quartz are common, with crystalline quartz up to 2 cm. in length. The only sulphide mineral is minor, finely divided pyrite. The vein matter is sheared and slickensided, (Hoadley, 1953).

III) PROGRAM SUMMARY

During August and September, 1981, company geologists followed up previous geochemical exploration with a program of geological mapping at a scale of 1:10,000 and rock chip sampling. This work involved six geological students and two prospectors under the supervision of the writer. During the program, 220 rock chip samples were collected. The samples were analysed for Cu,Pb, Zn, Mo, Ag, Au, As, Sb, W and Hg.

B. GEOLOGY:

The geology of the Tahsis area has been mapped on two occassions by the Geological Survey of Canada. G.S.C. Memoir 272, "Geology and Mineral Deposits of the Zeballos - Nimpkish Area, Vancouver Island, British Columbia" by J.W. Hoadley (1953) provides a detailed description of the local geology and early exploration. Further study and better access has lead to an updating of the lithological nomenclature as given in G.S.C. paper 80-16, "Geology and Mineral Deposits of Nootka Sound Map Area, Vancouver Island, British Columbia", by J.E. Muller, B.E.D. Cameron and K.E. Northcote. Two major changes have been made. The Vancouver Group has been restructured to exclude the Bonanza Subgroup. The Bonanza Subgroup is now separated as its own group. This nomenclature change sets apart the essentially different Triassic tholeiite-carbonate-clastic sequence of the Vancouver Group and the Jurassic basalt-andesite-dacite-rhyolite-sediment assemblage of the Bonanza Group. The other change is the classing of the Perry Lake and Santiago Stocks as Tertiary Catface Intrusions. Early workers had grouped these intrusions into the Island Intusions. This change is the result of recent age dating.

The property is chiefly underlain by rocks of the Vancouver and Bonanza Groups, (Table 2). The former consists of a thick pile of upper Triassic basaltic volcanics (Karmutsen Formation), overlain by Upper Triassic carbonate, pelitic and volcaniclastic sediments (Quatsino and Parson's Bay Formation). The latter consists of a Lower Jurassic sequence of basaltic to dacitic effusive and pyroclastic volcanics with minor intercalated sediments. Locally, the Vancouver and Bonanza groups have been intruded by small stocks and dykes of early Tertiary age which are proposed to be called Catface Intrusions (Muller, 1981), (Plate 2).

I) VANCOUVER GROUP:

a) Karmutsen Formation:

This formation is observed along the eastern and northern part of the property and underlies the Tah 3,6,9 and 12 claims. The contact is generally northwest trending and lies along the west side of the Perry River Valley. The contact appears to be fault controlled, however, it is generally not observable. To the south of Weymer Creek, a block of Karmutsen Formation appears to have been uplifted with respect to the Quatsino Formation which lies to the north of the creek in direct contact with the Karmutsen Formation.

TABLE OF FORMATIONS

CENOZOIC			
	Recent		till, gravel, sand, clay, silt
	Eocene	Catface Intrusions	tonalite, granodiorite hornblende-plogioclase porphyry, samll diorite stocks, mafic and felsic dykes and sills
	----------Intrusive contact----------		
MESOZOIC	Lower Jurassic	Bonanza Group	basaltic torhyodacitic
	----------conformable contact----------		
	(Middle? and) Upper	Vancouver Group:	
	Triassic	Parson's Bay Formation	calcareous siltstone, shale and limestone
	----------gradational contact----------		
		Quatsino Formation	limestone
	----------conformable and disconformable contact----------		
		Karmutsen Formation	pillowed and layered basalt, aquagene tuff and breccia

The Karmutsen rocks observed on the property consist of basaltic to andesitic volcanic flows which are often vesicular to amygdaloidal. They are generally chloritic which gives them a dark green to black color. Epidote alteration is ubiquitous. Calcite veinlets and coatings are common. The amygdules contain plagioclase, epidote and calcite. Locally, plagioclase amygdules with epidote centres are found. Sulphides are common but sporadic with pyrite and pyrrhotite being the most prevalent. Locally, magnetite and chalcopyrite are present.

b) Quatsino Formation:

This formation is observed in a northwest (290° to 310°) trending and southwest dipping (30° to 40°) belt. It underlies all or part of the Tah 4, 5, 7, 15, 18, 19 and 21 claims. Where observed, it conformably overlies the Karmutsen volcanics and grades into the overlying Parson's Bay and Bonanza Formations. Measured thicknesses range from approximately 275 metres to 460 metres with the thickest section in the vicinity of Tahsis Montain.

The Quatsino Formation consists of bedded (.1 to 1m) brown grey to light grey, grey to white weathering, fine microcrystalline limestone. Locally on the Tah 19 Claim, very pure, white crystalline limestone is observed. There are no fossils evident. With the exception of minor disseminated pyrite, the limestone is apparently unmineralized.

Alteration of the limestone is generally restricted to the proximity of intrusive stocks and dikes. Along the edge of the Perry Lake stock, the limestone has been contact metamorphosed to marble. In addition, localized skarn has been observed in outcrop and float. The skarn is weakly mineralized.

The Quatsino limestone is extensively fractured. The fractures are commonly healed by calcite. Also, extensive intrusive activity into the limestone has occurred in the form of small stocks and dikes. These will be discussed later.

c) Parson's Bay Formation:

The Parson's Bay Formation is the least abundant member of the Vancouver Group recognized on the property. It is principally found in a easterly trending, southwest dipping narrow band between Lloyd and Green Creeks and along parts of Tahsis Mountain, (Tah 7 and 11 Claims). Two smaller exposures were observed on Tah 17 and 18. The lower contact with the Quatsino Limestone is very gradational. It can be difficult to differentiate it as a separate unit and is commonly mapped as a dirty limestone of the Quatsino Formation.

While the upper contact with the Bonanza volcanics has not been observed, it appears to be relatively sharp, occurring over approximately 10 metres. Poor exposure, inaccessibility and the gradational lower contact have combined to make accurate mapping of this unit impossible. While it was not possible to establish a thickness for the unit during this examination, Hoadley (1953) has estimated a thickness of 150 to 300 metres.

On the property, the Parson's Bay Formation consists of two, more or less distinctive units which grade into each other. The lower unit is a grey weathering, black, impure limestone with local tuffaceous interbeds. Brachiopods (Halobia), which are common in the Parson's Bay Formation (Muller, et al, 1981), were observed in one location. This is overlain by thinnly bedded, tuffaceous argillites. Average thickness of the beds is approximately 5 cm. The argillites dip southwesterly at varying angles but are generally moderately dipping. They are commonly strongly weathered, gossanous and are quite soft and friable.

During helicopter reconnaissance, a fairly wide zone (12 to 15 metres) of southwest dipping, silty argillites were exposed in a cliff face. A ground traverse north of the exposure, along the ridge to the summit of Tahsis Mountain, discovered a well hornfelsed unit. It is interpreted that this contact metamorphosed zone of Parson's Bay Formation was caused by the Perry Lake Stock. The hornfels contains up to 10% pyrite and pyrrhotite, however, it does not contain any significant base or precious metal values.

II) BONANZA GROUP:

Bonanza Group rocks generally underlie the southwest part of the property. They are found in all or part of the Tah 10, 13, 14, 16, 17, 18, 20 and 21 mineral claims. The Bonanza volcanics conformably overlie the Parson's Bay Formation. The top of the Bonanza Group was not observed and has not been reported by previous writers. It was not possible to define an accurate thickness.

The Bonanza volcanics can be divided into two units: 1) the flow rocks and; 2) the fragmental rocks. The flow unit is by far the most common of the two found on the claim block. The flows are relatively thin, dark green to dark brown to black weathered basalts and andesites. Fresh surfaces are usually varying shades of green. Locally, dacitic flows are observed.

The rocks are commonly vesicular with plagioclase and calcite amygdules. Epidote, chlorite and carbonate alteration and pyrite and pyrrhotite hydrothermal alteration are very common. The rocks are strongly fractured and moderately sheared. Minor interbeds or blocks,of light to medium grey limestone, are found included within the volcanics (eg. Tah 15). The fragmentals are less common on the property than the surrounding area. They consist of lapilli and ash tuffs and volcanic breccias (agglomerates) and are generally intercalated with the flow. The tuffs are generally less than 1 metre thick. They are light grey to cream colored, varying from very fine grained to angular fragments up to 6mm long. Locally, the tuffs are thinnly bedded with alternating dark and light bands. Commonly, the tuffs contain disseminated pyrite. The breccias usually consist of red fragments in a very fine grained, greenish groundmass. The fragments are often tuffaceous. Usual diameter of fragments is .2 to 1 cm, however, fragments up to 15 cm. in diameter have been observed.

III) INTRUSIVE ROCKS:

The numerous intrusive rocks on the property create a complex problem of geological interpretation. When discussing the intrusive rocks, it is best to divide them into two broad classes: 1) small stocks
2) dykes and sills and minor irregular intrusions

The first problem is that recent age dating of the stocks has given them a Tertiary age which separates them from the Jura-Cretaceous Coast Intrusions. Muller (1981) has classed them as Tertiary Catface Intrusions. It is not possible to differentiate the classes of intrusions on the basis of field observations. The second and more complex problem is the mapping and interpretation of the second class of intrusives. The biggest problem occurs with the mafic dykes and the difficulty in recognizing the different, relative ages of the dykes and sills. There appears to be three groups of dykes and sills and irregular intrusives based on their relative age of intrusion. The oldest group is associated with the Bonanza volcanics and are feeder dykes for the volcanics. The second group is the most abundant and varied and comprises small dioritic bodies, mafic dykes, feldspar porphyry and felsite dykes. They are belived to be genetically related to the Catface Intrusives and the felsic dykes are believed to be late-stage differentiates. The last group comprises mafic dykes which appear to cut all the other younger rocks. However, they are not commonly observed on the property.

One problem with the mafic dykes is their similarity in appearance and the subsequent difficulty in recognizing them in the absence of cross-cutting field relationships. Economically, they do not appear to be important. Therefore, out of necessity, the first two types of intrusions have been combined and the third type has been defined only where field relationships allow. Another problem is that they are locally very numerous and impossible to map individually on the scale of mapping.

1) Stocks

Two intrusive bodies on the property, the Perry Lake and the Santiago Stock, are classed as Catface Intrusions.

The Perry Lake Stock underlies part of the Tah 8, 9, 11 and 12 claims west of Malaspina Lake. It is orange-brown weathered granodiorite. Compositionally, it is 70% feldspar and quartz and 30% hornblende and biotite. It is intruded into the Vancouver and Bonanza Group rocks. The contact of the stock with the Karmusten is relatively sharp with a narrow chill zone and numerous granodiorite veinlets and inclusions. The contact with the Quatsino and Parson's Bay formations exhibits contact metamorphism. Locally, the limestone is marblized and skarnified. The skarn contains garnet, diopside, pyrite, pyrrhotite and chalcopyrite. Alteration is poorly exposed, with the skarn and marble observed in only one or two places. The Parson's Bay formation is extensively hornfelsed to a hard, grey, fine grained rock with up to 10% pyrite and pyhrrotite.

The Santiago Stock underlies the Tah 13 and 16 claims north of Santiago creek. It contains 60% large euhedral feldspar laths, 10% quartz and 30% hornblende and biotite. It is intruded into the Bonanza volcanics and contains large inclusions of the volcanics. The contact with the volcanics is hydrothermally altered with local silicification.

2) Irregular Intrusive Bodies, Dykes and Sills

Although this type of intrusive is found throughout the property, it appears to be most common in the southern part of the property. It is not directly related to the Santiago and Perry Lake stocks but is thought to be of the same relative age.

There are at least three small diorite to hornblende diorite intrusives exposed along or near the Tsowwin River underlying the Tah 18, 20, and 21 claims. It is possible that more exist but are not exposed. Of the three known only two are well exposed. They are approximately 800 metres in diameter. They vary from a dark green to black, pyritic medium grained diorite to a black and white hornblende diorite. Inclusions of relatively unaltered country rocks up to room size are common. They are cut by mafic and felsic dykes.

Numerous dykes and sills cut the Quatsino limestone, Bonanza volcanics and small intrusives, although they appear to most commonly intrude the limestones. They range in composition from fine grained diorite to feldspar porphyry to felsite. They occur together or separately and where cross-cutting relationships are observed, the felsites cut all other dykes and sills. The felsites are medium grained and comprise mainly feldspar and quartz with disseminated pyrite and are interpreted as late-stage differentiates. Economically, they are the most interesting as they often contain low-grade gold values. The diorites are fine grained, dark green to black and are very similar to the volcanic flows. They commonly occur as sub-parallel swarms, along bedding planes and fractures. Individual dykes and sills average .5m in width and usually have sharp, baked contacts.

C) STRUCTURE:

The property is underlain by a monoclinal, southwest dipping succession of Vancouver and Bonanza Group rocks. This structure is obscured by faults and intrusions. The regional trend is cut off to the east of the property by the Muchalat Batholith and to the west, the Vancouver and Bonanza Group rocks are intruded along trend by Island Intrusives batholiths. The chaotic network of faults displayed in the property, and Vancouver Island, as a whole, can probably best be explained as the superposition of two or more fracture patterns, each with characteristic directions and of different age and origin, (Muller, 1981). On the property, three major trends of faulting can be identified. Also, there is extensive minor shearing.

The north-trending faults are the most prominent as evidenced by the Tahsis Fault along the inlet. They are thought to be early Mesozic in age. Muller suggests that this fault system was the result of a stress condition that prevailed during and/or directly after deposition of the Vancouver Group in Late Triassic to Early Jurassic time and was disrupted by Early Jurassic plutonism. The sense of these faults has not been established and may be a combination of strike and dip-slip movement.

The northwest trending set of faults are the most prominent on the property. The Perry River Fault lies along the eastern boundary of the property where it cuts the Karmutsen volcanics and forms a major valley. North of Malaspina Lake, it is offset by the northeast trending Malaspina Fault. Other northwest trending faults are found along Weymer and Green Creeks. It is not possible to observe the movement of the Perry River and Green Creek Faults. However, at Weymer Creek, a block of Karmutsen Formation south of the creek, has been uplifted with respect to the overlying Quatsino Formation. An approximate age of late Mesozoic to early Tertialy has been suggested by Muller.

The third fault system consists of generally short, northeasterly trending faults. These are believed to be associated with late Tertiary intrusive activity. On the property, the Perry Lake and Santiago stocks are interpreted to be related to this set of faulting. It is possible that the two faults are, in fact, the same fault.

In addition to the three major fault systems, there are extensive shear sets. The majority of the rocks on the property are sheared and fractured to some extent; these features being most prominent in the south part of the property. Evidence of shearing is especially striking in the Quatsino formation and the Bonanza volcanics. It appears that two trends of the more felsic dykes correspond to shear directions. Whether the shear sets are related to the major fault systems or to localized intrusions is not known.

D) MINERALIZATION

Extensive rock chip sampling has identified three zones of mineralization. Location and geochemical results of the rock chip samples are given in Plate III. One area in Tah 15, gave above background values of Cu, Au, and W. The mineralization appears to be localized and a result of contact with the Perry Lake Stock. Another area, Tah 19, yielded anomalous Au and Cu values. The mineralization appears to be related to the contact between a minor dioritic intrusive and the Bonanza volcanics. Consequent sampling did not repeat the anomalous values. The third area, by far the most interesting, is located on the Tah 18 Claims. At least 2 types of Au mineraliztion have been identified. The first type is found in felsite dykes up to 4 metres wide. They are orange-brown, very strongly weathered, fine grained quartz-feldspar rocks. There appears to be some clay alteration of the feldspars. They contain up to 5% finely disseminated pyrite and minor arsenopyrite. There is no visible gold. Geochemical analysis of several dykes average 500 ppb Au with a general range of 250 to 750 ppb Au. The highest value was 2500 ppb. The mineralization appears to be distributed consistently, with values repeatable within acceptable analytical ranges for gold. The dykes cut all lithologies and in one case there appears to be weak mineralization in the adjacent country rock ($\leq$120 ppb Au). Anomalous arsenic values and, to a lesser degree, antimony values are associated with the gold. Also, there appears to be narrow arsenic halos surrounding the dykes. There appears to be at least two directions of dykes, one set at 230° and the other at approximately 30°. In one instance, two dyke exposures, two kilometres apart, appear to be on strike with each other. The dykes appear to have been structurally emplaced as evidenced by moderate shearing and adjacent fault gouge. The other type of mineralizaion is found in narrow, 5 to 10 cm. thick, rusty weathered,sheared, cockscombed, quartz veins. They were observed in only two places. It was impossible to trace either vein more than 5 metres. They have a general northwest strike and east dip. One vein sample (NAB-15) assayed 3.59 oz/Ton Au and 2.30 oz/Ton Ag. Mineralization is not visible and it is felt that the gold and silver are present as tellurides.

E) SUMMARY AND CONCLUSIONS:

The terrain and vegetation encountered on the property severly inhibit exploration. Evaluation of the property, to date is mainly based on exposures along logging roads and cutovers and areas above tree-line. While this exposure is fairly extensive, there are critical areas that are very difficult to explore on surface. This is especially true of the south part of the property, where determination the of number and extent of mineralized dikes and veins is severely limited. However, work to date has been successful in delineating a zone of interesting low grade mineralization. Now that an understanding of the property's geology and geochemistry has been established, future exploration can proceed on the delineated zones.

Although the mineralization discovered to date is not of the type that the program was designed to find, the width and length of the known lowgrade zones suggests that other zones may exist and further work is warranted. This should be done in two stages with the second stage dependent upon encouraging results from the first stage.

F) RECOMMENDATIONS:

Results to date have been favorable and further exploration is warranted. The following recommendations suggests a possible exploration approach than can be implemented.

1) The whole property has had sufficient assessment work performed to hold it in good standing to March 10, 1983. It is recommended that the entire claim group be held until the first stage program has been completed. At that time, consideration might be given to reducing the size of the claim block.

2) Several heavy mineral anomalies have not yet been explained, especially along the western side of the property. The most notable of these are the anomalies in Weymer Creeek. The headwaters of the creek should be further explored in an attempt to discover the source of the anomalies. The terrain is rugged and the vegetation is thick. Therefore, strong and experienced individuals should be used to carry out this work.

3) The first stage program should concentrate on further definition of mineralized structures and known felsic intrusives using geochemistry, geological mapping and prospecting. A better structural knowledge of the dykes and veins should significantly aid in discovering additional zones. Extensive geochemical sampling of all felsic intrusives, combined with the structural data, should help to better define favorable trends. This first stage should be relatively inexpensive and should comprise approximately three weeks work for a four man crew.

4) The second stage program is dependent upon encouraging results being obtained in the first stage. This stage would be considerably more expensive and would entail a major exploration commitment. It would consist of establishing surveyed grids for detailed soil sampling, magnetometer, EM and elevation surveys. Positive results would be followed by a trenching and drilling program in 1983.

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APPENDIX I

STATEMENT OF EXPENDITURES

Support Costs - Geologic Mapping and Sampling Program - Aug. & Sept. 1981

I Mobilization and Demobilization

July 29, 1981	Kamloops, B.C. - Gas -	$ 40.41
	Kamloops, B.C. -U-Haul Rental.....	224.87
	Vancouver, B.C. Meals & Room	
	(2 people).....	151.21
	Subtotal.....	$414.49
July 30, 1981	Vancouver - Ferry.....	$ 29.00
	Victoria - Meals.....	73.85
	Subtotal.....	$102.85
July 31, 1981	Campbell River, B.C. - Gas.....	$ 59.50
	Campbell River, B.C. - Meals.....	15.45
	Subtotal.....	$ 74.95
August 2, 1981	Golden, B.C. - Gas.....	$ 37.27
	- Meals.....	23.40
	Subtotal.....	$ 60.67
August 3, 1981	Field, B.C. - Gas.....	$ 32.33
	Revelstoke, B.C. - Gas.....	39.38
	Yale, B.C. - Gas.....	32.00
	Meals (3 people).....	99.10
	Subtotal.....	$202.81
August 4, 1981	Vancouver - Ferry.....	$ 19.00
	Nanaimo - Gas.....	26.00
	Revelstoke - Gas.....	22.85
	Revelstoke - Room.....	29.00
	Meals (5 people).....	75.42
	Subtotal.....	$172.27
August 5, 1981	Boston Bar - Gas.....	$ 21.00
	North Vancouver - Gas.....	21.00
	Vancouver - Ferry.....	19.00
	Campbell River - Room.....	43.50
	Meals.....	27.30
	Subtotal.....	$131.80
August 6, 1981	Gold River, B.C. - Room.....	$ 38.00
	Meals.....	12.15
	Subtotal.....	$ 50.15
August 21, 1981	Nanaimo - Ferry.....	$ 14.50
	Vancouver - Rooms.....	61.56
	Vancouver - Gas.....	39.60
	Subtotal.....	$115.66

August 29, 1981	Nanaimo - Ferry	$ 14.50
	Vancouver - Room	61.56
	Meals	45.60
	Vancouver - Gas	43.00
	Subtotal	$164.66
August 30, 1981	Revelstoke - gas	$ 48.00
	Meals	29.00
	Subtotal	$ 77.00
September 1, 1981	Vancouver - Gas	$ 43.60
	Room	61.56
	Meals	47.83
	Subtotal	$152.99
September 19, 1981	Tahsis - Gas	$ 40.00
	Nanaimo - Ferry	14.50
	Pemberton - Gas	45.98
	Subtotal	$100.48
September 23, 1981	Tahsis - Gas (2 vehicles)	$ 73.00
	Nanaimo - Ferry	14.50
	Nanaimo - Room	39.60
	Vancouver - Room	62.40
	Meals	53.00
	Subtotal	$242.50
September 24, 2981	Nanaimo - Ferry	$ 14.50
	Subtotal	$ 14.50

TOTAL MOBILIZATION AND DEMOBILIATION $2,196.23

II Accommodiations & Meals

July 31 to August 12, 1981

Tahsis Motel, Tahsis, B.C.	
29 double rooms @ $37.10/room	$1,075.90
Meals	808.90
SUBTOTAL	$1,884.80

August 12 to August 28, 1981

Tahsis Motel	
33 single rooms @ $31.80/room	$1,049.40
34 double rooms @ $37.10/room	1,262.40
Meals	1,158.17
SUBTOTAL	$3,468.97

September 16 to September 23, 1981

	Tahsis Motel, Tahsis, B.C.	
	13 single rooms @ $31.80/room.....	$413.40
	7 double rooms @ $37.10/room.....	259.70
	Meals	412.30
	Subtotal	$1,085,40
Meals:	August 16, 1981 Meals for 8.....	$ 49.05
	August 17, 1981.....	17.05
	August 23, 1981.....	23.20
	Subtotal.....	$ 89.20
	Total Meals and Accommodations	$6,528.37

III Fuel

August 6, 1981 Tahsis.....	$ 38.00
August 7, 1981 Tahsis.....	43.00
August 8, 1981 Tahsis (mixed gas)..	20.00
August 11, 1981 Gold River.....	58.23
August 12, 1981 Tahsis.....	83.25
August 13, 1981 Tahsis.....	80.71
August 20, 1981 Tahsis.....	73.00
September 18, 1981 Tahsis.....	63.00
TOTAL.....	$459.19

IV Groceries

August 2, 1981 Tahsis.....	$ 15.86
August 10, 1981 Tahsis.....	49.03
August 14, 1981 Tahsis.....	21.91
August 19, 1981 Tahsis.....	42.86
TOTAL.....	$129.66

V Auto Leasing

1 Bronco 1.5 mo x 710/mo.....	$1,065.00
1 4x4 pickup 1.0 mo x 600/mo.....	600.00
1 4x4 crew cab 1.0 mo x 800/mo...	800.00
TOTAL.....	$2,465.00

VI July 31, 1981	Campbell River, B.C. 2 pairs caulk boots.....	$117.90
August 1, 1981	Tahsis, B.C. Boat Moorage (1 mo)...	15.00
August 4, 1981	Campbell River, B.C. 3 pairs caulk boots	193.19
August 6, 1981	Campbell River, B.C. 1 pair caulk boots.....	62.90
August 10, 1981	Tahsis, B.C. Brake Repair.....	55.45
August 11, 1981	Bus samples to Vancouver.....	24.00
August 19, 1981	Tahsis Transport - sample to Vancouver-Courier Geochem results from Vancouver to Tahsis 9 x $15...	135.00
	TOTAL.....	$650.44

VII Report Preparation & Writing
3 weeks @$500/week..... $15,00.00

Total Support Costs
$2,196.23 + $6,528.37 + $459.19 + $129.66 +$2,456.00 +
$650.44 + $1,500.00 = $13,928.89

$$\text{Man-day Support Cost} = \frac{\text{Total Support Cost}}{\text{Total Man-days}}$$

$$= \frac{\$13,928.89}{104.87} = \$132.82/\text{man-day}$$

EXPLANATION OF DIRECT COSTS ON CLAIMS

1) Man-Day Costs

This cost is a daily rate achieved by taking monthly salary and bonus and dividing by days worked per month on the basis of a 6-day work week.

George Chabot	$122.73/day
N. Ball	93.98/day
P. Adams	93.98/day
G. Graf	80.48/day
J. Hayhurst	83.08/day
B. Blair	75.29/day
E. Masarsky	85.67/day
G. White	94.50/day
N. Debock	150.00/day
B. Girling	92.50/day
B. Smee	97.22/day
Total	$1,056.05/man-day

This daily rate is multiplied by man-days per claim to arrive at man costs expended per claim.

ii) Helicopter Costs

The hourly rate of the helicopter is $375.00/hour excluding fuel. Based on 26 gallons of fuel per hour, the cost of fuel is $70.02/hour. Total cost per hour is $445.02.

iii) Analysis Costs

Actual analysis costs from Bondar-Clegg and Company are:

Cu, Pb, Zn, Mo, Ag	$ 4.75
W	3.75
As	2.90
Sb	3.75
Hg	3.50
Au	5.25
Retention and Handling of Rejects	.20
Total	$ 24.15

APPENDIX II

GEOCHEMICAL RESULTS

BREAKDOWN OF COSTS EXPENDED ON TAH 2 - 21 MINERAL CLAIMS

CLAIM	NO. OF MAN-DAYS	MAN-DAY SUPPORT COSTS	MAN-DAY COSTS	HELICOPTER COSTS	ANALYSIS COSTS	TOTAL EXPENDED ON CLAIM
Tah 2	2	265.64	175.76	151.31	24.15	616.86
Tah 3	3	398.46	266.88	74.17	72.45	811.96
Tah 4	11.5	1,527.43	997.99	637.86	338.10	3,501.38
Tah 5	3.5	464.87	320.21	667.53	72.45	1,525.06
Tah 6	6	796.92	839.95	151.31	217.35	2,005.53
Tah 7	3	398.46	262.99	163.17	96.60	921.22
Tah 8	4.17	553.86	410.44	630.44	--	1,594.74
Tah 9	3.67	487.45	347.60	151.31	24.15	1,010.51
Tah 10	3	398.46	295.71	163.17	48.30	905.64
Tah 11	4.67	620.27	408.51	259.59	458.85	1,747.22
Tah 12	2	265.64	174.46	74.17	265.65	779.92
Tah 13	--	--	--	--	--	--
Tah 14	12.5	1,660.25	1,575.93	519.19	241.50	3,996.87
Tah 15	5.17	686.68	548.44	148.34	313.95	1,697.41
Tah 16	5.17	686.68	495.67	298.16	241.50	1,722.01
Tah 17	4.34	576.43	416.84	298.16	531.30	1,822.73
Tah 18	14.34	1,904.64	1,735.98	74.17	1,497.30	5,212.09
Tah 19	10.0	1,328.20	585.18	74.17	458.85	2,446.40
Tah 20	3.67	489.45	315.99	74.17	410.55	1,290.16
Tah 21	3.17	421.04	530.06	74.17	410.55	1,025.27
TOTAL	104.87	13,930.83	10,704.59	4,684.56	5,313.00	34,632.98

PAN OCEAN OIL LTD.

DISSEMINATED GOLD - VANCOUVER ISLAND PROJECT - 1981 FIELD SEASON

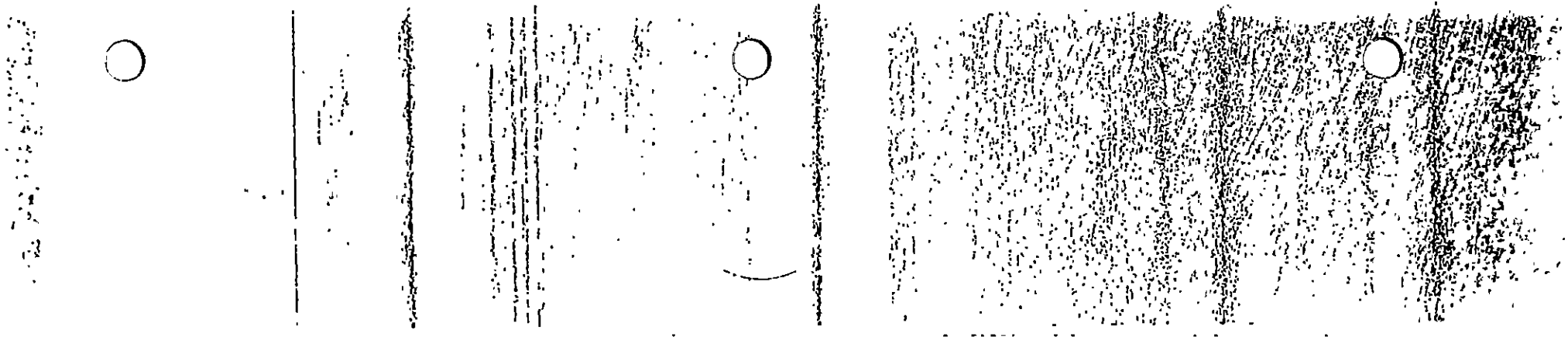
ROCK, CHIP, FLOT & TALS GEOCHEM SAMPLES

SAMPLE NUMBER	CLAIM	SAMP TYPE	ROCK TYPE	FORM-ATION	OUTCROP EXPS	OUTCROP QUAL	OXIDTN TYPE	OXIDTN A	MINERL TYPE	MINERL A	ALTER-ATION	REPT NUM.	CU PPM	PB PPM	ZN PPM	MO PPM	AG PPM	AU PPB	AS PPM	SB PPM	W PPM	BA PPM	HG PPB	REMARKS
EBM0015	TAH6	CHIP			GOOD	FRES	FERR	W	PYRT	S	CAR2	2839	99	3	70	2	0.4	5	7	1	3		70	MFICVOL
EBM0016	TAH6	CHIP			GOOD	MWTH	FERR	M	PYRT	S	CAR1	2839	31	1	5	1	0.4	3	2	1	4		30	ANDTVOL
EBM0017	TAH6	CHIP			GOOD	FRES	FERR	W	PYRT	S	SIL2	2839	133	2	42	4	0.4	5	1	1	2		20	VEIN
EBM0018	TAH6	FLOT			FAIR	FRES	FERR	W	PYRT	S	SIL1	2839	520	1	50	1	0.3	30	1	1	3		35	
EBM0019	TAH6	CHIP			GOOD	FRES	FERR	W	PYRT	S	SIL2	2839	126	3	27	1	0.3	3	1	1	3		15	ANDVOLC
EBM0020	TAH6	CHIP			GOOD	FRES	FERR	W	PHYR	S	CAR1	2839	66	2	28	1	0.2	3	1	1	2		5	MFCVOLC
EBM0021	TAH6	CHIP			GOOD	MWTH	FERR	M	PYRO	S		2839	66	1	26	1	0.2	3	3	1	3		10	MECVOLC
PJA0006	TAH6	CHIP	VOLC	KARM	GOOD	MWTH	NONE		FE	S		2445	82	1	16	1	0.2	3	6	1	2		50	
PJA0007	TAH6	CHIP	VOLC	KARM	FAIR	MWTH	FERR	W	FE	S		2445	172	1	31	2	0.2	3	6	1	2		350	
PJA0009	TAH6	CHIP	GRDR	FERR	FAIR	MWTH	NONE			N		2445	8	1	36	2	0.2	3	2	1	5		70	

DISSEMINATED GOLD - VANCOUVER ISLAND PROJECT - 1981 FIELD SEASON

ROCK, CHIP, FLOT & TALS GEOCHEM SAMPLES

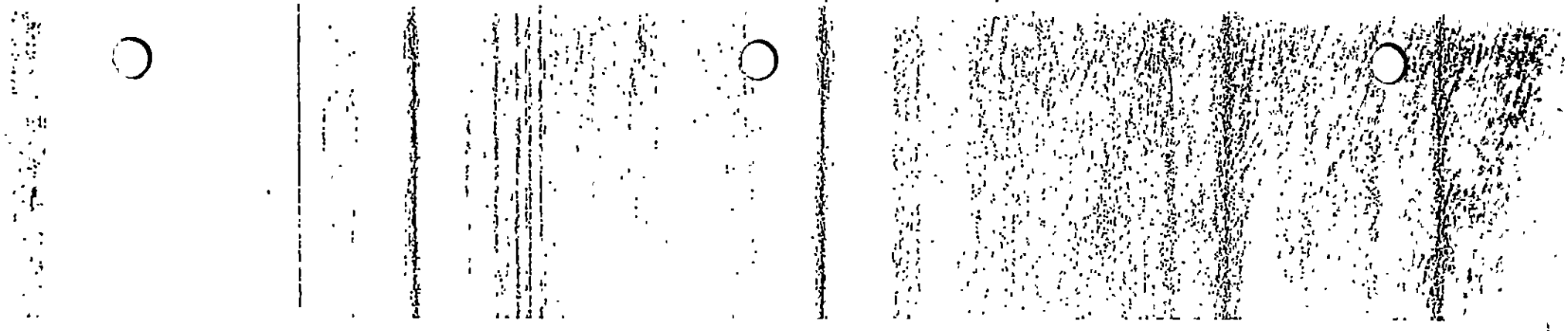
SAMPLE NUMBER	CLAIM	SAMP TYPE	ROCK TYPE	FORM-ATION	OUTCROP EXPS	OUTCROP QUAL	OXIDTN TYPE	OXIDTN A	MINERL TYPE	MINERL A	ALTER-ATION	REPT NUM.	CU PPM	PB PPM	ZN PPM	MO PPM	AG PPM	AU PPB	AS PPM	SB PPM	W PPM	BA PPM	HG PPB	REMARKS
E8M0011	TAH5	CHIP			GOOD	FRES	FERR	W		S		2445	151	63	30	1	0.2	15	2	8	2		70	MAFCVOL
E8M0012	TAH5	CHIP			GOOD	FRES	FERR	M		N		2445	52	1	16	1	0.2	3	2	1	2		80	CAHBVN
PJA0008	TAH5	CHIP	VOLC	KARM	FAIR	MWTH	NONE			N		2445	40	1	20	1	0.2	3	2	1	2		30	
PJA0010	TAH5	CHIP			FAIR	MWTH	FERR	W		N		2445	15	1	26	2	0.2	3	2	1	4		1600	



DISSEMINATED GOLD - VANCOUVER ISLAND PROJECT - 1981 FIELD SEASON

ROCK, CHIP, FLOT & TALS GEOCHEM SAMPLES

SAMPLE NUMBER	CLAIM	SAMP TYPE	ROCK TYPE	FORM-ATION	OUTCROP EXPS	OUTCROP QUAL	OXIDTN TYPE	OXIDTN A	MINERL TYPE	MINERL A	ALTER-ATION	REPT NUM.	CU PPM	PB PPM	ZN PPM	MO PPM	AG PPM	AU PPB	AS PPM	SB PPM	W PPM	BA PPM	HG PPB	REMARKS
GCG0001	TAH4	CHIP			GOOD	MWTH	NONE			N		2839	7	5	5	4	0.2	3	9	1	2		60	
GCG0002	TAH4	CHIP			GOOD	MWTH	NONE			N		2839	40	3	80	1	0.2	3	1	1	2		15	
GCG0003	TAH4	CHIP			GOOD	HWTH	NONE			N		2839	8	4	10	4	0.2	3	1	1	2		15	
NAB0059	TAH4	CHIP	LMST		FAIR	HWTH				N		2839	7	9	5	4	0.2	3	1	1	2		15	IMPURE
NAB0060	TAH4	CHIP	FELS		NONE	HWTH	FERR	S	PYRR	M		2839	23	4	25	2	0.4	5	1	1	2		20	DIKE?
NAB0061	TAH4	CHIP	FELS		GOOD	HWTH	FERR	M	PYR	S	CHL1	2839	21	4	52	2	0.3	3	1	1	2		35	SHEARED
NAB0062	TAH4	CHIP	ANDS		EXCL	HWTH	FERR	S	PYR	S		2839	54	4	85	1	0.3	3	5	1	2		20	SHEARED
NAB0063	TAH4	CHIP	TUFF		GOOD	MWTH	FERR	W	PYR	S		2839	67	5	45	2	0.3	3	14	1	2		10	FELSIC
NAB0064	TAH4	CHIP			FAIR	HWTH	FERR	S	PYR	S	CHL1	2839	65	4	80	1	0.4	3	1	1	2		20	
NAB0065	TAH4	CHIP	LMST		FAIR	HWTH	FERR	M	PYR	S		2839	144	4	20	1	0.4	3	1	1	2		30	IMPURE
NAB0066	TAH4	CHIP	FELS		NONE	MWTH	FERR	S	PYR	M		2839	9	5	42	1	0.4	3	38	1	2		20	ROADFIL
NAB0067	TAH4	CHIP	ANDS		GOOD	MWTH	NONE			N	CHL3	2839	101	3	45	2	0.3	3	1	1	2		10	
PJA0028	TAH4	CHIP	VOLC	QUAT	GOOD	HWTH	NONE			N		2839	6	6	5	6	0.2	5	75	1	2		10	
PJA0029	TAH4	CHIP	VOLC	QUAT	GOOD	MWTH	FERR	W		N		2839	22	4	75	2	0.3	3	28	1	2		10	



DISSEMINATED GOLD - VANCOUVER ISLAND PROJECT - 1981 FIELD SEASON

ROCK, CHIP, FLOT & TALS GEOCHEM SAMPLES

SAMPLE NUMBER	CLAIM	SAMP TYPE	ROCK TYPE	FORM-ATION	OUTCROP EXPS	OUTCROP QUAL	OXIDTN TYPE	OXIDTN A	MINERL TYPE	MINERL A	ALTER-ATION	REPT NUM.	CU PPM	PB PPM	ZN PPM	MO PPM	AG PPM	AU PPB	AS PPM	SB PPM	W PPM	BA PPM	HG PPB	REMARKS
E8M0023	TAH3	CHIP			GOOD	MWTH	FERR	M	PYRT	S		2839	470	2	43	1	0.2	3	4	1	3		10	
NAB0052	TAH3	CHIP	ANDS	KRMT	GOOD	FRES			PYR	S		2839	92	2	20	1	0.2	3	1	1	2		10	AMYGD
NAB0053	TAH3	CHIP	ANDS	KRMT	NONE	HWTH	FERR	S	SULP	H		2839	2530	5	100	1	1.6	20	1	1	2		110	AMYGD
NAB0054	TAH3	CHIP	BSLT	KRMT	EXCL	MWTH				N	CHL2	2839	231	2	65	1	0.3	3	1	1	2		10	MASSIVE

DISSEMINATED GOLD - VANCOUVER ISLAND PROJECT - 1981 FIELD SEASON

ROCK, CHIP, FLOT & TALS GEOCHEM SAMPLES

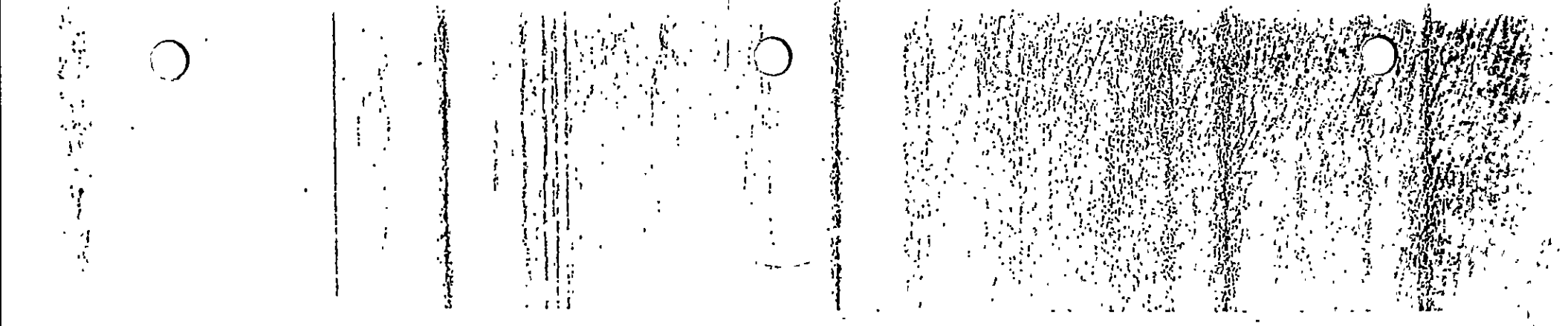
SAMPLE NUMBER	CLAIM	SAMP TYPE	ROCK TYPE	FORM-ATION	OUTCROP EXPS	OUTCROP QUAL	OXIDTN TYPE	OXIDTN A	MINERL TYPE	MINERL A	ALTER-ATION	REPT NUM.	CU PPM	PB PPM	ZN PPM	MO PPM	AG PPM	AU PPB	AS PPM	SB PPM	W PPM	BA PPM	HG PPB	REMARKS
EBM0027	TAH21	CHIP			GOOD	MWTH	FERR	W		N		2839	41	2	75	1	0.3	3	8	1	2		80	
EBM0028	TAH21	CHIP			GOOD	MWTH	FERR	M	PYRT	S	SIL1	2839	24	14	82	1	0.2	3	14	1	2		150	GABBRO
EBM0029	TAH21	CHIP			EXCL	FRES	FERR	W	PYRT	S		2839	4	1	30	2	0.2	3	1	1	2		65	CONTACT
EBM0030	TAH21	CHIP			GOOD	MWTH	FERR	M	MAGN	S		2839	29	4	58	1	0.2	3	3	1	2		30	DIORITE
EBM0031	TAH21	CHIP			GOOD	MWTH	FERR	S	PYRT	S		2839	5	4	100	1	0.2	3	3	1	2		100	
EBM0032	TAH21	CHIP			GOOD	MWTH	FERR	W	PYRT	S		2839	8	2	50	1	0.3	3	3	1	2		40	CWERT
EBM0033	TAH21	CHIP			GOOD	FRES	FERR	S	PYRT	S		2839	9	4	78	2	0.2	3	4	1	2		140	FELSITE
EBM0034	TAH21	CHIP			FAIR	MWTH	FERR	M	MAGN	N		2839	58	3	60	1	0.2	3	4	1	2		20	DIORITE
NAB0024	TAH21	ROCK	TUFF		EXCL	FRES				N		2445	17	1	75	1	0.2	3	7	1	2		30	LAPILLI
PJA0047	TAH21	CHIP	VOLC		FAIR	MWTH	NONE		FE	S		2839	5	4	145	3	0.2	3	6	1	2		15	
PJA0048	TAH21	CHIP	CARB		FAIR	MWTH	NONE			N		2839	12	4	110	7	0.2	3	25	1	2		10	CARB1
PJA0049	TAH21	CHIP	LMST	QUAT	FAIR	MWTH	NONE			N		2839	8	6	10	42	0.2	3	12	1	2		15	
PJA0050	TAH21	CHIP	LMST	QUAT	FAIR	MWTH	NONE			N		2839	18	6	6	11	0.2	3	7	1	2		80	
PJA0051	TAH21	CHIP	LMST	QUAT	GOOD	MWTH	NONE			N		2839	6	6	6	10	0.2	3	3	1	2		10	
PJA0052	TAH21	CHIP	VOLC	BONZ	GOOD	MWTH	FERR	M		N		2839	30	4	95	3	0.2	3	6	1	2		15	
PJA0055	TAH21	CHIP	VOLC	BONZ	POOR	MWTH	NONE			N		2839	6	6	6	8	0.2	3	1	1	2		10	
PJA0056	TAH21	CHIP	VOLC	BONZ	POOR	MWTH	NONE			N		2839	15	6	50	3	0.4	3	1	1	2		20	
PJA0057	TAH21	CHIP	VOLC	BONZ	FAIR	MWTH	FERR	W	FE	S		2839	23	5	130	3	0.2	3	15	1	2		30	

PAN OCEAN OIL LTD.

DISSEMINATED GOLD - VANCOUVER ISLAND PROJECT - 1981 FIELD SEASON

ROCK, CHIP, FLOT & TALS GEOCHEM SAMPLES

SAMPLE NUMBER	CLAIM	SAMP TYPE	ROCK TYPE	FORM-ATIUN	OUTCROP EXPS	OUTCROP QUAL	OXIDTN TYPE	OXIDTN A	MINERL TYPE	MINERL A	ALTER-ATION	REPT NUM.	CU PPM	PB PPM	ZN PPM	MO PPM	AG PPM	AU PPB	AS PPM	SB PPM	W PPM	BA PPM	HG PPB	REMARKS
NAB0068	TAH2	CHIP	BSLT		GOOD	MWTH	NONE			N	CHL3	2839	135	4	118	2	0.5	5	3	1	2		75	CALVEIN



DISSEMINATED GOLD - VANCOUVER ISLAND PROJECT - 1981 FIELD SEASON

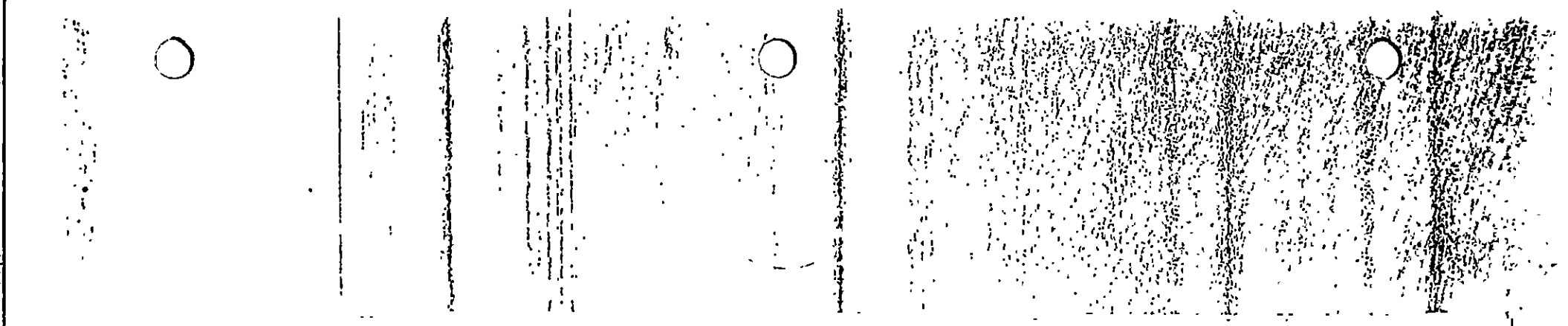
ROCK, CHIP, FLOT & TALS GEOCHEM SAMPLES

SAMPLE NUMBER	CLAIM	SAMP TYPE	ROCK TYPE	FORM-ATION	OUTCROP EXPS	OUTCROP QUAL	OXIDTN TYPE	OXIDTN A	MINERL TYPE	MINERL A	ALTER-ATION	REPT NUM.	CU PPM	PB PPM	ZN PPM	MO PPM	AG PPM	AU PPB	AS PPM	SB PPM	W PPM	BA PPM	HG PPB	REMARKS
EBM0001	TAH19	CHIP	VOLC		EXCL	FRES	FERR	W	PYRT	S		2445	5	6	110	1	0.2	3	12	1	2		110	
EBM0002	TAH19	CHIP			EXCL	MWTH	FERR	M		N		2445	106	3	130	1	0.2	3	3	1	2		30	VOLC
EBM0003	TAH19	CHIP			GOOD	MWTH	FERR	M		N		2445	15	5	59	6	0.3	3	26	1	2		520	CRBVEIN
EBM0004	TAH19	CHIP			SUBC	MWTH	FERR	W		N		2445	46	1	47	1	0.2	3	4	1	3		20	
EBM0005	TAH19	CHIP			FAIR	MWTH	FERR	M	PHYR	S	WTRD	2445	5690	1	154	2	5.9	9900	56	1	2		450	MINZONE
EBM0006	TAH19	CHIP			GOOD	MWTH	FERR	W		N		2445	102	1	39	1	0.2	95	2	1	3		30	CTCZONE
EBM0007	TAH19	CHIP			EXCL	FRES	FERR	W	PYRT	S		2445	147	1	39	1	0.2	85	6	1	2		40	SKARN
EBM0008	TAH19	CHIP			EXCL	FRES	FERR	W		N		2445	30	4	65	1	0.2	10	6	1	2		60	SKARN
EBM0009	TAH19	CHIP			EXCL	FRES	FERR	W	PYRT	S		2445	25	35	107	2	0.2	5	4	1	3		35	HORNFLS
EBM0010	TAH19	CHIP			FAIR	MWTH	FERR	M	PHYR	S	WTRD	2445	97	5	75	1	0.2	3	2	1	2		40	MAFCVOL
GEC0069	TAH19	ROCK			FAIR	MWTH	FERR	M	FE	S	WTRD	3352	94	1	50	1	0.2	3	7	1	3	90	10	

DISSEMINATED GOLD - VANCOUVER ISLAND PROJECT - 1981 FIELD SEASON

ROCK, CHIP, FLOT & TALS GEOCHEM SAMPLES

SAMPLE NUMBER	CLAIM	SAMP TYPE	ROCK TYPE	FORM-ATION	OUTCROP EXPS	OUTCROP QUAL	OXIDTN TYPE	OXIDTN A	MINERL TYPE	MINERL A	ALTER-ATION	REPT NUM.	CU PPM	PB PPM	ZN PPM	MO PPM	AG PPM	AU PPB	AS PPM	SB PPM	W PPM	BA PPM	HG PPB	REMARKS
NAB0048	TAH18	CHIP	DIOR		EXCL	MWTH	FERR	W		N	CHL2	2445	39	1	81	1	0.2	3	7	1	2		30	
NAB0049	TAH18	CHIP	LMST		GOOD	MWTH				N		2445	5	1	5	6	0.2	3	3	1	2		15	
NAB0050	TAH18	CHIP	ANDS		FAIR	MWTH	FERR	M	PYR	S		2445	36	1	75	1	0.2	3	8	1	2		10	TUFFACS
NAB0051	TAH18	CHIP	ANDS		POOR	HWTH	FERR	S	PYR	M		2445	36	30	65	3	0.2	3	17	1	2		30	
NBD0136	TAH18	ROCK			GOOD	FRES	FERR	M	FE	S		3352	38	1	95	2	0.2	3	25	1	2	120	20	
NBD0137	TAH18	ROCK			GOOD	FRES	FERR	W	FE	S		3352	8	1	98	1	0.2	3	5	9	3	40	10	
NBD0141	TAH18	ROCK			POOR	FRES	FERR	M	FE	S		3352	26	9	52	5	0.2	3	11	1	3	390	220	
NBD0142	TAH18	ROCK			FAIR	FRES	FERR	W	FE	S		3352	42	4	215	2	0.2	3	7	1	2	230	20	
NBD0143	TAH18	ROCK			GOOD	FRES	FERR	W	FE	S		3352	28	2	46	1	0.2	3	5	5	3	70	10	
NBG0004	TAH18	ROCK			GOOD	FRES	FERR	W	FE	S		3352	25	2	62	2	0.2	3	15	7	2	40	40	
NBG0005	TAH18	ROCK			GOOD	FRES	FERR	W	FE	S		3352	12	5	125	2	0.2	3	12	1	3	730	20	
NBG0006	TAH18	ROCK			GOOD	FRES	FERR	W	FE	S		3352	16	3	55	2	0.2	3	10	1	3	40	20	
NBG0007	TAH18	ROCK			GOOD	FRES	FERR	W	FE	S		3352	15	11	215	3	0.2	3	14	1	3	20	150	
NBG0008	TAH18	ROCK			GOOD	FRES	FERR	W	FE	S		3352	77	1	110	6	0.2	3	5	7	3	30	120	



DISSEMINATED GOLD - VANCOUVER ISLAND PROJECT - 1981 FIELD SEASON

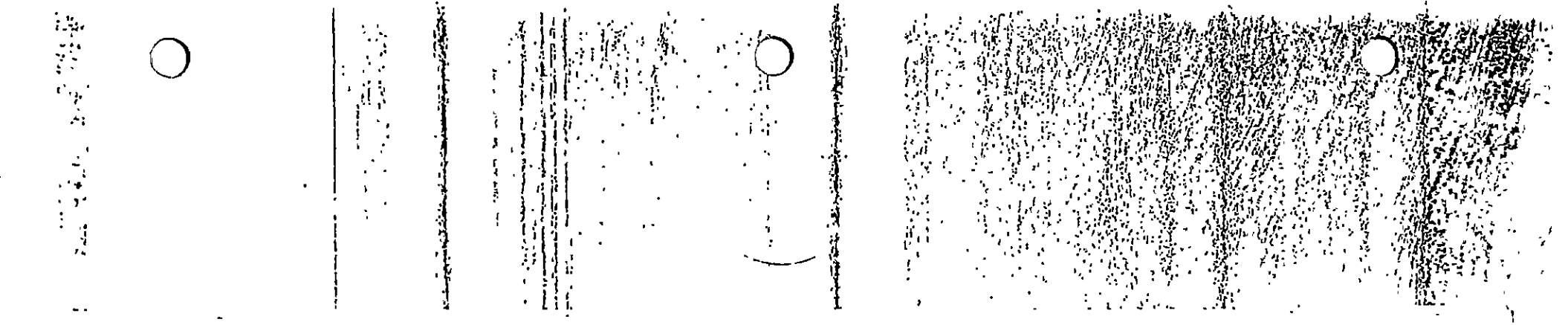
ROCK, CHIP, FLOT & TALS GEOCHEM SAMPLES

SAMPLE NUMBER	CLAIM	SAMP TYPE	ROCK TYPE	FORM-ATION	OUTCROP EXPS	OUTCROP QUAL	OXIDTN TYPE	OXIDTN A	MINERL TYPE	MINERL A	ALTER-ATION	REPT NUM.	CU PPM	PB PPM	ZN PPM	MO PPM	AG PPM	AU PPB	AS PPM	SB PPM	W PPM	BA PPM	HG PPB	REMARKS
EBM0024	TAH18	CHIP			GOOD	FRES	FERR	M	PYRT	H		2839	42	2	82	1	0.2	3	35	1	3		10	MFCVOLC
EBM0025	TAH18	CHIP			GOOD	FRES	FERR	M	PYRT	S		2839	11	10	28	3	0.2	3	15	1	3		20	QTZPORP
EBM0026	TAH18	CHIP			GOOD	HWTH	FERR	M		N	STCL	2839	5	2	70	1	0.2	3	4	1	3		55	MFCVOLC
EBM0039	TAH18	CHIP			GOOD	MWTH	FERR	W		N	CAR3	2839	17	5	440	4	0.2	3	25	40	2		160	
EBM0040	TAH18	CHIP			GOOD	MWTH	FERR	M		N	CAR1	2839	5	5	82	1	0.2	3	3	1	2		20	REXLBST
EEC0062	TAH18	ROCK			GOOD	MWTH				N	STCL	3352	15	5	125	2	0.2	10	110	11	2	480	20	GOUGE
EEC0063	TAH18	ROCK	VEIN		GOOD	MWTH			FE	S	WTRD	3352	7	12	58	2	0.2	115	1000	18	3	490	60	
EEC0064	TAH18	ROCK	VEIN		GOOD	MWTH			FE	S	WTRD	3352	8	8	80	2	0.2	350	1000	16	3	630	60	
EEC0065	TAH18	ROCK	VEIN		GOOD	HWTH	FERR	S	FE	H	HDTL	3352	6	10	28	1	0.2	95	1000	12	3	740	30	
EEC0066	TAH18	ROCK	VEIN		GOOD	MWTH				N	HDTL													CAR2
EEC0067	TAH18	ROCK	VEIN		GOOD	MWTH	FERR	M	FE	S	WTRD													
EAB0006	TAH18	ROCK	ANDS		FAIR	MWTH	FERR	W	PYR	S		2445	38	1	115	1	0.2	3	8	1	3		20	
EAB0007	TAH18	ROCK	ANDS		GOOD	MWTH			PYR	S		2445	32	1	72	1	0.3	3	7	1	2		20	
EAB0008	TAH18	ROCK	LMST		EXCL	MWTH			PYR	S		2445	10	2	13	6	0.7	3	2	1	2		20	
EAB0009	TAH18	CHIP			GOOD	FRES			SULP	M		2445	84	7	111	2	0.8	380	160	1	2		20	CONTACT
EAB0010	TAH18	ROCK	DIOR		EXCL	FRES	FERR	W	PYR	M		2445	39	1	33	2	0.2	5	15	1	2		20	
EAB0015	TAH18	ROCK	VEIN		FAIR	MWTH	FERR	W		N		2445	14	780	49	5	15.0	10000	1000	21	8		25	QTZ
EAB0016	TAH18	ROCK	QTZT		GOOD	HWTH	FERR	M	SULP	M		2445	3	26	30	1	0.4	305	1000	1	7		20	
EAB0017	TAH18	ROCK	ANDS		GOOD	MWTH			PYR	S	CHL2	2445	107	5	40	2	0.2	70	35	1	2		25	
EAB0018	TAH18	ROCK	ANDS		EXCL	MWTH	FERR	W	PYR	S	CHL1	2445	15	1	30	1	0.2	30	15	1	2		20	
EAB0019	TAH18	ROCK	BSLT		GOOD	FRES					CHL1	2445	10	2	105	2	0.2	40	7	1	2		30	MAGN
EAB0020	TAH18	ROCK	DACT		GOOD	MWTH	FERR	S	PYR	M		2445	4	3	36	3	0.2	15	25	1	2		50	VSILIC
EAB0021	TAH18	ROCK	ANDS		EXCL	MWTH	FERR	M	PYR	M	CHL1	2445	16	1	81	1	0.2	5	17	1	2		20	
EAB0022	TAH18	ROCK	QTZT		FAIR	HWTH	FERR	M	PYR	M		2445	7	7	25	2	0.2	50	900	1	135		30	
EAB0023	TAH18	ROCK	ANDS		GOOD	MWTH	FERR	W	PYR	S		2445	19	1	22	3	0.2	5	22	1	2		30	
EAB0025	TAH18	ROCK	VOLC		GOOD	MWTH	FERR	M		N	CHL2	2445	17	1	86	1	0.4	3	26	1	2		40	
EAB0026	TAH18	ROCK	VOLC		GOOD	MWTH	FERR	M	PYR	S	CHL1	2445	15	11	24	1	0.2	3	15	1	2		60	
EAB0027	TAH18	ROCK	TUFF		GOOD	MWTH	FERR	M	PYR	S		2445	4	1	81	1	0.2	3	3	1	2		70	LAPILLI
EAB0028	TAH18	CHIP	LMST		EXCL	FRES				N		2445	14	1	20	7	0.4	3	7	1	2		30	
EAB0029	TAH18	CHIP	BSLT		EXCL	MWTH	FERR	W		N	CHL3	2445	9	17	95	1	0.2	3	7	1	2		20	
EAB0030	TAH18	CHIP	ANDS		EXCL	MWTH	FERR	W		N	CHL2	2445	35	1	74	1	0.2	3	6	1	2		20	
EAB0031	TAH18	CHIP	BSLT		EXCL	HWTH	FERR	S	PYR	M	CHL3	2445	29	1	113	2	0.2	10	165	1	2		40	
EAB0032	TAH18	CHIP	FLST		EXCL	MWTH	FERR	M	SULP	M	CHL1	2445	3	1	46	1	0.2	3	23	1	2		30	
EAB0033	TAH18	CHIP	SHR		EXCL	HWTH	FERR	S				2445	33	3	78	2	0.6	3	240	1	2		20	SHRZN
EAB0034	TAH18	CHIP	MONZ		EXCL	FRES				N	CHL1	2445	43	9	82	1	0.6	120	65	1	2		25	HNBL
EAB0035	TAH18	CHIP	ANDS		GOOD	MWTH	FERR	W		N		2445	72	1	60	1	0.3	3	12	1	2		15	
EAB0036	TAH18	CHIP	ANDS		FAIR	MWTH				N		2445	51	1	91	1	0.2	3	21	1	2		15	
EAB0037	TAH18	CHIP	LMST		FAIR	FRES				N		2445	6	5	55	6	0.8	3	13	1	2		25	SOLUBLE
EAB0038	TAH18	CHIP	QTZT		EXCL	HWTH	FERR	S	PYR	M	HDTL	2445	4	14	18	1	0.2	355	1000	1	4		15	
EAB0039	TAH18	CHIP	QTZT		EXCL	HWTH	FERR	S	PYR	M	HDTL	2445	4	17	30	1	0.3	730	1000	1	4		15	
EAB0040	TAH18	CHIP	DIOR		GOOD	FRES			PYR	S		2445	54	1	139	1	0.3	15	92	1	2		20	MAGNETC
EAB0041	TAH18	CHIP	DIOR		GOOD	FRES						2445	53	1	120	1	0.2	10	40	1	4		15	MGNTC
EAB0042	TAH18	CHIP	FLST		GOOD	HWTH	FERR	M	PYR	M	HDTL	2445	4	11	34	1	0.6	265	1000	1	4		30	
EAB0043	TAH18	CHIP	DIOR		EXCL	FRES			PYR	S		2445	32	41	86	2	0.2	5	24	1	2		30	MGNTC
EAB0044	TAH18	CHIP	ANDS		FAIR	MWTH	FERR	M			CHL3	2445	39	1	105	1	0.2	3	12	1	2		30	CONTACT
EAB0045	TAH18	CHIP	BSLT		FAIR	HWTH				N		2445	57	1	60	3	0.2	3	11	1	2		30	XENOLTH
EAB0046	TAH18	CHIP	BSLT		FAIR	MWTH	FERR	S	PYR	S		2445	3	1	85	1	0.2	15	11	1	2		30	
EAB0047	TAH18	CHIP	VOLC		GOOD	MWTH	FERR	M		N		2445	3	1	55	1	0.2	3	7	1	2		20	SILIC

DISSEMINATED GOLD - VANCOUVER ISLAND PROJECT - 1981 FIELD SEASON

ROCK, CHIP, FLOT & TALS GEOCHEM SAMPLES

SAMPLE NUMBER	CLAIM	SAMP TYPE	ROCK TYPE	FORM-ATION	OUTCROP EXPS	OUTCROP QUAL	OXIDTN TYPE	OXIDTN A	MINERL TYPE	MINERL A	ALTER-ATION	REPT NUM.	CU PPM	PB PPM	ZN PPM	MO PPM	AG PPM	AU PPB	AS PPM	SB PPM	W PPM	BA PPM	HG PPB	REMARKS
NAB0001	TAH17	ROCK	PRPH		GOOD	FRES	FERR	W	PYR	S		2445	35	1	105	2	0.2	3	22	1	2		30	
NAB0002	TAH17	ROCK	TUFF		GOOD	MWTH	FERR	M	PYR	S		2445	42	1	84	2	0.2	3	2	1	2		90	
NAB0003	TAH17	ROCK	FLST		GOOD	MWTH	FERR	S	PYR	S		2445	20	12	34	1	0.4	5	44	1	2		40	
NAB0004	TAH17	ROCK	BSLT		GOOD	MWTH			PYR	S	CHL3	2445	27	1	66	1	0.2	3	7	1	2		30	SHEARED
NAB0005	TAH17	ROCK	ANDS		GOOD	FRES	FERR	M	PYR	S		2445	30	1	85	1	0.2	3	2	1	3		20	
NAB0011	TAH17	ROCK	SLST		GOOD	MWTH			PYR	S		2445	23	1	85	1	0.2	5	20	1	2		20	
NAB0012	TAH17	ROCK	ANDS		GOOD	FRES	FERR	M	PYR	S		2445	77	1	80	1	0.2	5	8	1	2		25	
NAB0013	TAH17	ROCK	VOLC		GOOD	MWTH	FERR	W	PYR	S		2445	7	1	35	1	0.2	3	33	1	3		20	FELSIC



DISSEMINATED GOLD - VANCOUVER ISLAND PROJECT - 1981 FIELD SEASON

ROCK, CHIP, FLOT & TALS GEOCHEM SAMPLES

SAMPLE NUMBER	CLAIM	SAMP TYPE	ROCK TYPE	FORM-ATION	OUTCROP EXPS	OUTCROP QUAL	OXIDTN TYPE	OXIDTN A	MINERL TYPE	MINERL A	ALTER-ATION	REPT NUM.	CU PPM	PB PPM	ZN PPM	MO PPM	AG PPM	AU PPB	AS PPM	SB PPM	W PPM	BA PPM	HG PPB	REMARKS
NAB0069	TAH16	CHIP	MONZ		GOOD	MWTH	NONE			N	HNBL	2839	9	10	65	1	0.4	3	3	1	2		10	
NAB0070	TAH16	CHIP	MONZ		GOOD	MWTH	FERR	M	PYR	S	HNBL	2839	8	7	42	3	0.4	3	18	1	2		20	
PJA0016	TAH16	CHIP	VOLC	BONZ	POOR	MWTH	NONE					2445	37	1	46	2	0.2	3	6	1	4		50	
PJA0017	TAH16	CHIP	VOLC	BONZ	GOOD	MWTH	NONE					2445	19	1	50	1	0.2	5	5	1	3		40	
PJA0023	TAH16	CHIP	VOLC	BONZ	POOR	HWTH	FERR	S		N		2839	10	8	20	8	0.7	15	3	20	2		40	HDTL3
PJA0024	TAH16	CHIP	VOLC	BONZ	POOR	MWTH	NONE			N		2839	6	2	53	2	0.4	3	8	1	2		10	
PJA0025	TAH16	CHIP	VOLC	BONZ	GOOD	MWTH	NONE		FE	S		2839	32	4	60	2	0.4	3	3	1	2		10	
PJA0026	TAH16	CHIP	VOLC	BONZ	FAIR	MWTH	NONE			N		2839	6	3	105	2	0.4	3	72	1	2		20	
PJA0027	TAH16	CHIP	VOLC	BONZ	FAIR	HWTH	FERR	S	FE	M		2839	14	8	90	4	0.9	85	1000	15	3		125	HDTL3
PJA0044	TAH16	CHIP	INTR		FAIR	FRES	NONE			N		2839	15	4	100	3	0.4	3	15	1	2		20	
PJA0045	TAH16	CHIP	VOLC	BONZ	FAIR	MWTH	FERR	W	FE	S		2839	64	6	120	2	0.4	3	8	1	2		20	
PJA0046	TAH16	CHIP	VOLC	BONZ	FAIR	HWTH	FERR	S	FE	S		2839	12	8	75	3	0.4	3	28	5	2		20	

DISSEMINATED GOLD - VANCOUVER ISLAND PROJECT - 1981 FIELD SEASON

ROCK, CHIP, FLOT & TALS GEOCHEM SAMPLES

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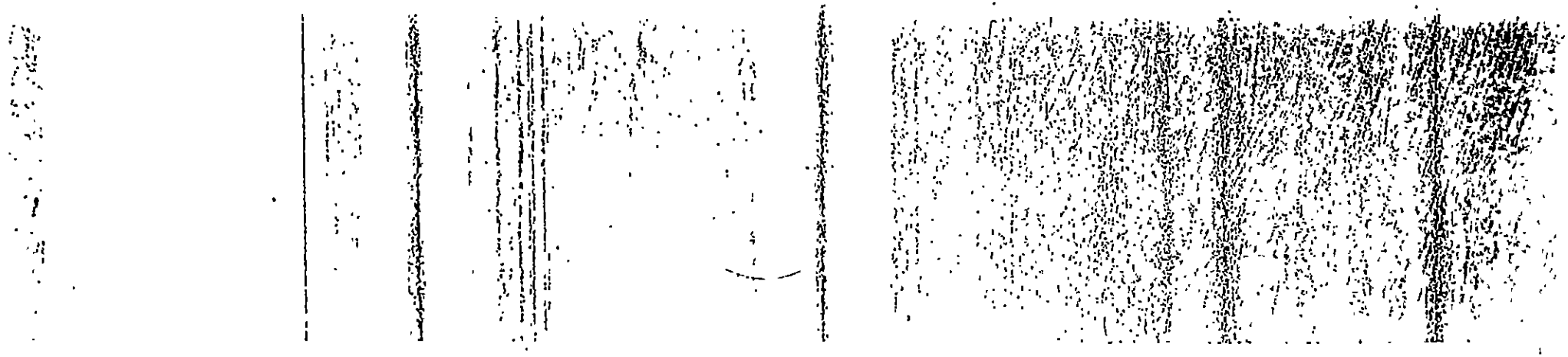
E8M0037	TAH15	CHIP			GOOD	MWTH	FERR	M	PYRT	S		2839	43	4	130	1	0.4	3	50	1	2		65	
E8M0038	TAH15	CHIP			GOOD	HWTH			CU	S		2839	110	10	25	1	0.3	5	120	8	2		1300	
E8M0041	TAH15	CHIP			FAIR	HWTH	FERR	M	PYRT	S		2839	6	3	95	1	0.2	3	1	1	2		20	FELSITE
PJA0001	TAH15	CHIP	LMST	QUAT	FAIR	MWTH	CARB	W	FE	M	CARB	2445	7	1	84	2	0.2	5	220	1	3		10	1
PJA0002	TAH15	CHIP	VOLC	QUAT	FAIR	MWTH	FERR	W	FE	M	CARB	2445	42	1	104	2	0.2	3	25	1	2		25	1
PJA0003	TAH15	CHIP	VOLC	QUAT	FLOT	MWTH	NONE			N		2445	4	1	56	1	0.2	3	8	1	2		15	
PJA0004	TAH15	CHIP	VOLC	QUAT	GOOD	MWTH	NONE		FE	M	CARB	2445	22	3	259	2	0.2	3	200	1	2		40	1
PJA0005	TAH15	CHIP	LMST	QUAT	GOOD	MWTH	NONE		FE	S	CARB	2445	6	1	10	9	0.9	3	13	1	2		1200	1
PJA0062	TAH15	CHIP	LMST	QUAT	FAIR	HWTH	NONE			N		2839	5	6	5	5	0.2	3	3	1	2		30	
PJA0064	TAH15	CHIP	VOLC	QUAT	FAIR	MWTH	FERR	W		N		2839	21	5	22	3	0.2	3	220	5	2		20	
PJA0065	TAH15	CHIP	VOLC	QUAT	FAIR	MWTH	FERR	W		N		2839	6	5	70	3	0.3	3	6	1	2		10	
PJA0066	TAH15	CHIP	LMST	QUAT	FAIR	HWTH	FERR	W		N		2839	7	6	5	9	0.3	3	4	1	2		45	



DISSEMINATED GOLD - VANCOUVER ISLAND PROJECT - 1981 FIELD SEASON

ROCK, CHIP, FLOT & TALS GEOCHEM SAMPLES

SAMPLE NUMBER	CLAIM	SAMP TYPE	ROCK TYPE	FORM-ATION	OUTCROP EXPS	OUTCROP QUAL	OXIDTN TYPE	OXIDTN A	MINERL TYPE	MINERL A	ALTER-ATION	REPT NUM.	CU PPM	PB PPM	ZN PPM	MO PPM	AG PPM	AU PPB	AS PPM	SB PPM	W PPM	BA PPM	HG PPB	REMARKS
NAB0014	TAH14	ROCK	ANDS		GOOD	MWTH	FERR	W	PYR	S		2445	25	1	105	1	0.2	3	2	1	2		30	
NAB0056	TAH14	CHIP	TUFF		POOR	HWTH	FERR	W		N		2839	11	2	55	1	0.3	3	1	1	2		20	BSLTIC
NAB0057	TAH14	CHIP	BRCC		FAIR	FRES				N		2839	11	2	30	3	0.4	3	1	1	2		10	
NAB0058	TAH14	CHIP	ANDS		EXCL	MWTH	FERR	S	PYR	M	CHL1	2839	93	10	35	2	0.6	3	1	1	2		5	
NBD0138	TAH14	ROCK			GOOD	FRES	FERR	M	FE	S		3352	45	4	56	4	0.3	35	125	16	4	410	50	
NBD0139	TAH14	ROCK			GOOD	FRES	FERR	W	FE	S		3352	32	7	31	3	0.3	45	43	24	4	360	50	
NBD0144	TAH14	ROCK			GOOD	FRES	FERR	W	FE	S		3352	11	10	41	3	0.2	3	24	10	1	150	25	
PJA0031	TAH14	CHIP	VOLC	BONZ	GOOD	MWTH	FERR	S		N	WTRD	2839	93	5	40	1	0.2	3	36	1	2		10	1
PJA0032	TAH14	CHIP	VOLC	BONZ	GOOD	MWTH	NONE			N		2839	39	4	90	2	0.2	3	14	1	2		10	
PJA0033	TAH14	CHIP	VOLC		GOOD	MWTH	NONE		FE	S		2839	6	2	15	3	0.2	3	3	1	2		5	
PJA0034	TAH14	CHIP	VOLC		GOOD	MWTH	FERR	W	FE	S		2839	8	2	21	5	0.2	3	3	1	2		5	
PJA0035	TAH14	CHIP			GOOD	MWTH	NONE		FE	S		2839	6	2	15	3	0.2	3	8	1	2		10	
PJA0041	TAH14	CHIP	VOLC	BONZ	POOR	MWTH	FERR	W	FE	S		2839	95	4	90	2	0.2	3	12	1	2		30	
PJA0042	TAH14	CHIP	VOLC	BONZ	FAIR	FRES	NONE		FE	S		2839	10	3	26	4	0.2	3	5	1	2		10	
PJA0043	TAH14	CHIP	VOLC	BONZ	POOR	MWTH	SOME	M	FE	M	CALC	2839	64	6	40	4	0.2	3	7	1	2		20	2
WBG0001	TAH14	ROCK			GOOD	FRES	FERR	W	FE	S		3352	46	16	42	3	0.9	2180	1000	21	3	100	60	
WBG0002	TAH14	ROCK			GOOD	FRES	FERR	W	FE	S		3352	16	10	65	1	0.5	495	1000	19	3	570	30	
WBG0003	TAH14	ROCK			FAIR	FRES	FERR	M	FE	M		3352	46	4	80	2	0.2	10	100	15	3	220	130	

PAN OCEAN OIL LTD.

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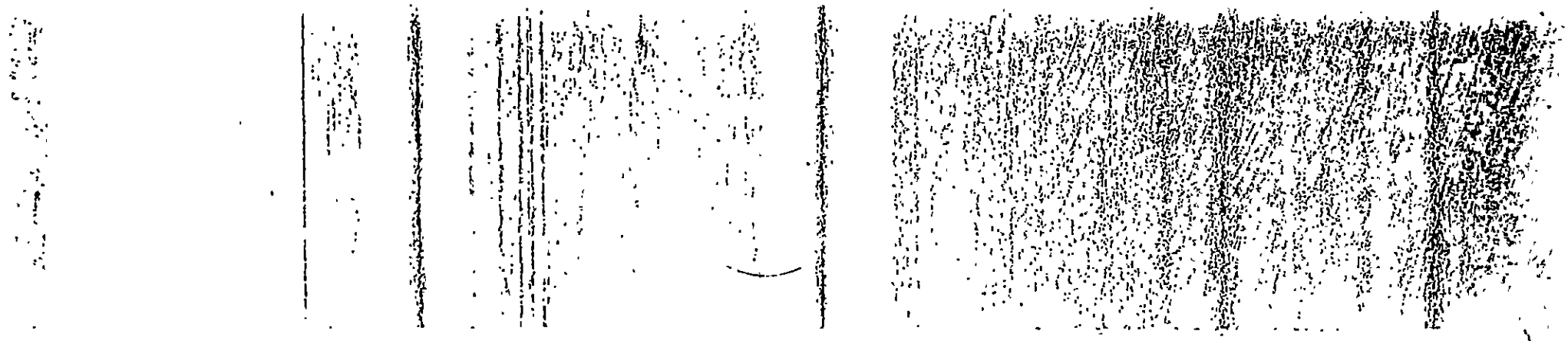
NA80071	TAH13	CHIP	MONZ		GOOD	MWTH	FERR	S	PYR	S	HNBL	2839	5	2	12	2	0.4	3	420	7	2		10	
WBG0009	TAH13	ROCK			FAIR	FRES	FERR	M	FE	M		3352	151	62	170	14	0.9	15	105	1	3	190	60	



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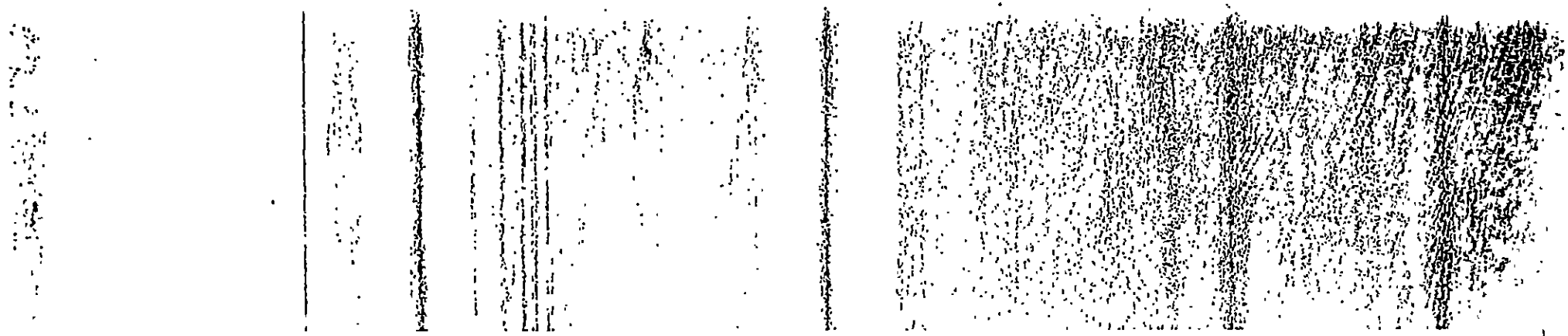
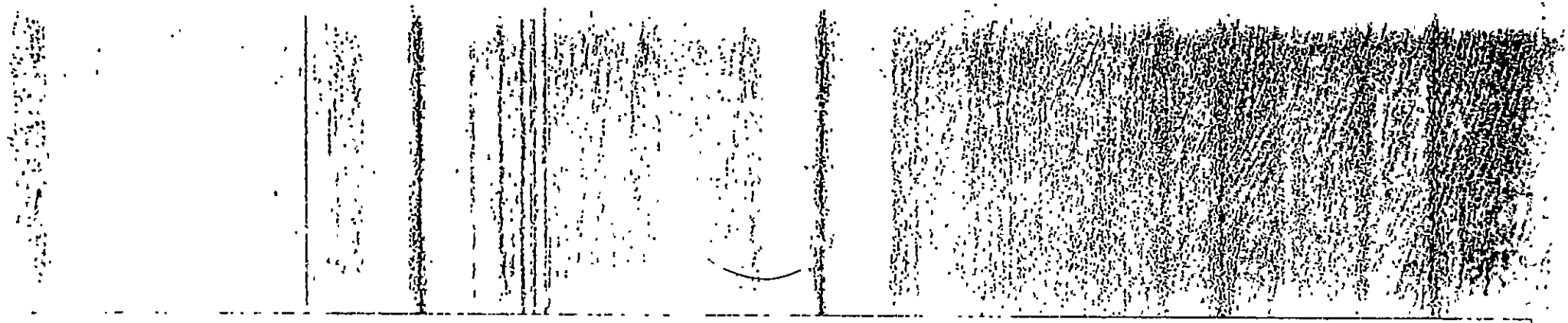
EBM0022	TAH12	CHIP			GOOD	MWTH	FERR	M	PYRO	S		2839	415	10	30	1	0.2	5	1	1	3		20	MFCVOLC
PJA0011	TAH12	CHIP	GRDR	PERL	FAIR	MWTH	NONE			N		2445	27	1	43	2	0.2	3	5	1	10		40	
PJA0012	TAH12	CHIP	VOLC		GOOD	MWTH	FERR	W		N		2445	74	3	84	2	0.2	3	12	1	8		140	
PJA0013	TAH12	CHIP	LMST	QUAT	GOOD	HWTH	NONE			N	CAR2	2445	9	1	7	6	0.8	3	2	1	3		40	
PJA0014	TAH12	CHIP	VOLC	KARM	GOOD	MWTH	FERR	W	FECU	M	SOME	2445	1905	1	80	9	2.6	35	2	1	5		50	HDTL2
PJA0015	TAH12	CHIP	SKRN		GOOD	HWTH	FERR	M	FECU	H	CRB2	2445	685	1	47	5	0.6	60	3	1	5		25	HDTL3
PJA0058	TAH12	CHIP	LMST	QUAT	FAIR	HWTH	NONE			N		2839	6	6	5	7	0.2	5	4	1	2		10	
PJA0059	TAH12	CHIP	VOLC	QUAT	FAIR	MWTH	FERR	W	FE	S		2839	4	4	40	3	0.2	3	1	1	2		10	
PJA0060	TAH12	CHIP	LMST	QUAT	FAIR	MWTH	NONE			N		2839	6	8	3	7	0.2	3	1	1	2		40	
PJA0061	TAH12	CHIP	VOLC	QUAT	FAIR	FRES	NONE		PE	S		2839	39	6	70	3	0.2	3	55	5	2		900	NONE
PJA0063	TAH12	CHIP	LMST	QUAT	FAIR	HWTH	NONE			N		2839	6	6	5	8	0.2	3	3	1	2		20	



DISSEMINATED GOLD - VANCOUVER ISLAND PROJECT - 1981 FIELD SEASON

ROCK, CHIP, FLOT & TALS GEOCHEM SAMPLES

SAMPLE NUMBER	CLAIM	SAMP TYPE	ROCK TYPE	FORM-ATION	OUTCROP EXPS	OUTCROP QUAL	OXIDTN TYPE	OXIDTN A	MINERL TYPE	MINERL A	ALTER-ATION	REPT NUM.	CU PPM	PB PPM	ZN PPM	MO PPM	AG PPM	AU PPB	AS PPM	SB PPM	W PPM	BA PPM	HG PPB	REMARKS
EBM0013	TAH11	FLOT			POOR	HWTH	FERR	S	PHYR	M	LIMZ	2445	54	5	34	4	0.2	10	7	1	3		40	SKARN
EBM0014	TAH11	CHIP			GOOD	HWTH	FERR	S	FE	H	LIM3	2445	1925	1	70	12	2.4	3	10	10	2		60	VEIN
GEC0073	TAH11	ROCK			GOOD	FRES			FE	H	HDTL	3352	62	4	51	4	0.2	3	6	8	3	380	10	
GEC0074	TAH11	ROCK			GOOD	FRES				N	HDTL	3352	16	2	70	3	0.2	3	3	1	3	750	20	
GEC0075	TAH11	ROCK			GOOD	MWTH	FERR	S		N	HDTL	3352	11	3	43	2	0.2	3	7	1	3	110	10	
GEC0076	TAH11	TALS										3352	50	10	38	3	0.2	5	105	6	4	140	10	
NAB0055	TAH11	CHIP	BSLT		EXCL	MWTH	FERR	W		N		2839	20	3	58	1	0.4	3	1	1	2		10	
NBD0145	TAH11	ROCK			FAIR	FRES	FERR	W	FE	S		3352	16	5	59	1	0.2	3	11	7	2	300	20	
NBD0146	TAH11	ROCK			GOOD	FRES	FERR	W	FE	S		3352	32	3	53	7	0.2	10	9	1	3	560	10	
NBD0147	TAH11	ROCK			GOOD	HWTH	FERR	W	FE	S		3352	65	4	54	8	0.2	3	5	1	3	740	10	
NBD0148	TAH11	ROCK			FAIR	HWTH	FERR	W	FE	S		3352	45	4	56	3	0.2	3	5	6	3	420	10	
PJA0018	TAH11	ROCK	VOLC	QUAT	GOOD	MWTH	NONE					2445	29	1	40	3	0.2	3	5	1	3		30	
PJA0019	TAH11	ROCK	VOLC	QUAT	FAIR	HWTH	FERR	S	FEO	H	WTHD	2445	62	1	28	2	0.2	260	7	1	7		40	MAGNET
PJA0020	TAH11	ROCK	VOLC	QUAT	GOOD	MWTH	NONE			N		2445	26	1	52	1	0.2	5	7	1	6		70	
PJA0021	TAH11	ROCK	VOLC	QUAT	FLOT	MWTH	FERR	S	FE	S		2445	224	6	31	7	0.6	5	22	1	2		30	
PJA0022	TAH11	ROCK	GROR	QUAT	FLOT	MWTH	FERR	S	FE	S		2445	31	8	27	2	0.2	3	21	1	11		30	
WBG0010	TAH11	ROCK			GOOD	MWTH	FERR	W	FE	S		3352	13	3	57	4	0.2	3	11	1	3	290	20	
WBG0011	TAH11	ROCK			FAIR	HWTH	FERR	W	FE	S		3352	13	5	55	2	0.2	3	5	1	2	570	20	
WBG0012	TAH11	ROCK			POOR	HWTH	FERR	M	FE	M		3352	63	5	61	5	0.2	3	10	1	3	150	10	



PAN OCEAN OIL LTD.

DISSEMINATED GOLD - VANCOUVER ISLAND PROJECT - 1981 FIELD SEASON

ROCK, CHIP, FLOT & TALS GEOCHEM SAMPLES

SAMPLE NUMBER	CLAIM	SAMP TYPE	ROCK TYPE	FORM-ATION	OUTCROP EXPS	OUTCROP QUAL	OXIDTN TYPE	OXIDTN A	MINERL TYPE	MINERL A	ALTER-ATION	REPT NUM.	CU PPM	PB PPM	ZN PPM	MO PPM	AG PPM	AU PPB	AS PPM	SB PPM	W PPM	BA PPM	HG PPB	REMARKS
PJA0037	TAH10	CHIP	VOLC	BONA	GOOD	MWTH	FERR	S	FE	M		2839	163	18	137	12	0.2	3	96	1	2		10	
PJA0038	TAH10	CHIP	VOLC	BONA	GOOD	MWTH	FERR	S	FE	M		2839	132	8	53	11	0.2	3	13	1	2		20	

STATEMENT OF QUALIFICATIONS

I, George E. Chabot of Calgary, Alberta, hereby certify that:

- I am a geologist residing at G-7519 10th St. N.W., Calgary, Alberta and am currently employed by Pan Ocean Oil Ltd. of 300 5th Avenue S.W., Calgary, Alberta.

- I am a 1977 graduate of Lakehead University, Thunder Bay, Ontario with a B.Sc. Degree in Honours Geology.

- I have been actively engaged in the practice of mineral exploration since graduation.

- I have supervised and performed the work described in this report.

George E. Chabot

George E. Chabot
Pan Ocean Oil Ltd.

STATEMENT OF QUALIFICATIONS

G.F. McArthur

I, Gerald F. McArthur of Calgary, Alberta, hereby certify that:

1) I am a geologist residing at 111 Chelsea St., N.W., Calgary, Alberta and am currently employed by Pan Ocean Oil Ltd. of 300 Fifth Ave., S.W. Calgary, Albarta.

2) I graduated from the University of British Columbia, in 1973 with a BSc. in Geology and have practiced my profession since that time.

3) I am a professional geologist registered in the province of Alberta.

4) I supervised the 1981 field work carried out by George E. Chabot for Pan Ocean Oil Ltd., which forms the basis of this report.

Gerald F McArthur

G.F. McArthur

GEOLOGY
NORTH SHEET
THASIS B.C.
DISSEMINATED GOLD PROJECT
E - 1557

10,157

TAHSIS INLET

ALAVA LAKE

WEYMER CREEK

GREEN CREEK

LLOYD CREEK

PERRY RIVER

PERRY LAKE

CANYON CREEK

MALASPINA LAKE

UNMAPPED
- heavy forestcover, very steep terrain
- assumed to be generally underlain by Karmutsen volcanics

PERRY LAKE STOCK

grey limestone

dk green chloritic amyg.-ands bslt

chloritic amgd. ands-bslt.

grey lst intruded by mafic dykes

lst cm. mafic dykes

limestone with mafic intrusions

grey limestone w/v.m dykes and sills

felsic dykes

quatsino limestone

amyg maficflow highly epidonized

amgd (atz) matic flow

matic flows

amyg to massive andesite and basalt - epidote, plagioclase, calcite amygdules

mafic flows

diorite intrusion

amyg. mafic volcanic flows

amyd mafic flows

local shearing

zoned amgdaules

gradational contact

granodiorite

granodiorite

granodiorite orange weathered

continuous a/c of granodiorites

-amyg.-ands-bslt flows at mafic flow breccias some qtz.-carb. veining

basalt flows chloritized

mafic volcanic flows

flow breccia

mafic to andesitic, amyg flows

mafic tuffs

mafic flows

f.g. pyritic mafic flows

amgd mafic flows

grey lst w/m matic intrusions

logged area

forested area

Forest Covered

f.g. lst

granodiorite till, unsorted

grey lst

limestone w/interbeds of tuffaceous sandstone

brachiopods (Halobian)

lst w/tuffaceous interbeds

black, impure lst

impure lst

f.g. black-bedded lst

thinly bedded tuffaceous black argl.

light grey to green felsic ash tuff

ands.-bslt flow breccias

ands.-bslt flows w/m.mag py

ands. aggl.

ands.-bslt flows

f.g. hornfels 10% py. pyrrh.

talus

B.M. 1291 m

UT_K

UT_Q

$UTPB$

TJB

T_g

O/B

dk green to grey ands. to bslt

thinly bedded

Tg

PERRY LAKE STOCK

granodiorite

clean white lst locally marblized

skarn float

skarn, py, py, h.cpy

mafic flows and tuffs

pyritic ands.

marblized lst

flow breccia

shear fault zone

mag py vein

f.g felsic volc

f.g ands - bslt volc. flow

amyd ands - bslt flow

felsic lapilli tuff locally silicified

mass bslt w/some ands tuffs

ands. tuffs

bedded felsic tuff

ands - bslt flow m. py mg

massive bslt/ands. w/m felsic tuffs and breccias

UNMAPPED
- heavily forested
- rugged terrain

granodiorite

v.m blk. argl.

O/B till, alluvium

ands overlying felsic slst and argl

f.g ands/bslt

ands and felsic flow breccias, interbedded

ands and calcareous slst

thin bedded, dk br calcareous f.g sed.

felsic intrusive into thin bedded argl. calcarites and pyroclastics (tuffs)

felsite or ash tuff(?)

sheared chloritic mass. bslt w/pyritic veinlets

amgd - ands.

thin bedded argl and orng friable clayey material

amyg - ands

f - m.g. ands. w/ m. bslt and m. felsic dykes

m.g. silicic felsic intrusive

ands - bslt flow m pyrh. mag

ands flow

granodiorite

granodiorite stock - incl dykes and sills within Bonanza volc

ands - bslt flow

granodiorite

granodiorite

chloritic ands - volc. flow

ands - bslt flow

lapilli tuffs, ands - bslt breccias and flows

chloritic ands - bslt flow intruded by silic felsic intrusive m. pyrh, mag

SANTIAGO CREEK

lst

ands

lst w/mafic dykes

lst w/m dykes

lst. w/m. interbedded ands. flows

lst w/m. shaley interbeds

lst blocks w/mafic dykes and sills

pyritic diorite intrusion (Tg) quarry

lst blocks surrounded by mafic dykes and sills
- at least 3 periods of intrusion
- rusty shear zone, - mineralized zone

clean grey lst intruded by mafic dykes

mafic intrusives w/blocks and lenses of grey lst.

mineralized felsite dyke

mineralized felsic dyke

clean, white to grey lst. interbedded w/ chlorite f.g. ds green dykes and sills

hbl diorite w/m. mafic dykes

felsite dike (mineralized)

mafic flows w/lst blocks

hbl monz

hbl diorite basalt

clean grey lst

felsite dyke

local disturbance in dip and strike

clean grey lst

hbl porph dyke

lst intruded by mafic dykes and sills

lst intruded by numerous mafic dykes and sills

mafic lapilli tuff

interbedded volc

ands

sandy bslt

tuffaceous ands. mafic flow

felsite dyke

ands

qtz. fdsp. porph.

aphonic f.g mafic volc

ands/bslt

trachytic flow

lapilli tuffs and breccias

f.g mafic volc flows grades to f.g mafic tuff

cherty slst

cherty slst gabbro

fdsp porph

hbl felsic sed

hbl. fdsp. porph.

felsite, diorite intrusive

mafic volc (chloritic o/c in stream bed)

hbl diorite

alluvial deposits

o/c mafic lapilli tuff

amyg - ands flows breccia to aggl

v.f.g basaltic flow

TSOWWIN RIVER

ands - bslt flow

grey lst

ands interbedded blk shale

mag and py bslt.

bslt - and/dk. f.g fresh surfaces

ands - bslt flow, aggl

grey lst intruded by mafic dykes and sills

f.g grey banded lst.

grey lst intruded by numerous mafic dykes and sills

grey lst w/numerous mafic dykes and sills

clean white lst w/ mafic dykes & sills & m pyr

felsic tuff

white limestone

felsite dyke

felsic ash tuff

f.g mafic intrusive

grey lst.

f.g mafic intrusive

clean white lst

felsic tuff

lst w/mafic dykes and sills

bslt flow breccia

f.g mafic intrusive

2 wide fdsp porph dyke

fdsp porph dyke

bedded lst

mafic flow breccia

grey lst flow breccia

lst w/mafic dykes and sills

fdsp porph dyke

grey lst

lst w/mafic dykes and sills

felsite dyke

clean white lst

lst intruded by numerous dykes and sills

lst intruded by numerous mafic dykes and sills

mafic lapilli tuff

fdsp porph

mafic sill

diorite intrusive

mafic rx w/lst blocks

lst intruded by numerous dykes

lst w/numerous dykes and sills

f.g mafic intrusive

f.g mafic intrusive

diorite

lt br weathered mafic volcanics

continuous o/c of clean lst w/numerous mafic dykes and sills

clean white lst

mafic volcanic

clean white lst w/numerous mafic intrusions

continuous o/c of white lst intruded by numerous mafic dykes and sills

strongly epidote, sed. diortic, gabroic intrusives

clean white lst

YUKON RIVER

LEGEND

TABLE OF FORMATIONS

CENOZOIC

Tg — Eocene - catface intrusions: tonalite, granodiorite, hornblende - plagioclase porphyry, small diorite stocks, mafic and felsic dykes and sills

MESOZOIC

IJa — Lower Jurassic - Bonanza Group: basaltic to rhyodacitic lava, tuff and breccia

(Middle? & Upper) Triassic - Vancouver Group

bSLm — Parsons Bay Formation: calcareous siltstone, shale and limestone

UTq — Quatsino Formation: limestone

mTk — Karmutsen Formation: pillowed and layered basalt, aquagene tuff and breccia.

LIST OF SYMBOLS

Outcrop

Gradational Geological Boundary

Geological Boundary Defined, - - - Approximate, - - - - Assumed

Continuous Outcrop, Fault

LIST OF ABBREVIATIONS

ands. - andesite	sdst - sandstone	carb - carbonate
bslt - basalt	aggl - agglomerate	amyg - amygdaloidal
hbl - hornblende	sed - sediment	w/ - with
fdsp - feldspar	porph - porphyry	m - minor
volc - volcanic	O/B - overburden	dk - dark
lst - limestone	qtz - quartz	bn - brown
monz - monzonite	py - pyrite	blk - black
argl - argillite	cpy - chalcopyrite	mass - massive
slst - siltstone	pyrh - pyrrhotite	lt - light
rx - rock	mg - magnetite	

CONTOUR INTERVAL - 1000 feet

SOUTH SHEET

m 200 0 200 400 600 800 1000 m

TO ACCOMPANY REPORT No. 8-82 by G.C.

19157

PAN OCEAN OIL LTD.
CALGARY ALBERTA

GEOLOGY
TAH CLAIMS 2-21
TAHSIS B.C.
DISSEMINATED GOLD PROJECT

DATE	SCALE	NTS	DRAWING NO.
FEBRUARY, 1982	1:10,000	92 E/15	E-1557

ROCK SAMPLE LOCATIONS
TAH CLAIMS 2-21
TAHSIS B.C.
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DATE	SCALE	NTS	DRAWING NO.
FEBRUARY, 1982	1:10,000	92 E/15	E-1558

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SOUTH SHEET

m 200 0 200 400 600 800 1000 m

10,157

LEGEND

ROCK CHIP SAMPLING

Cu / Pb / Zn / Mo / Ag
Au / As / Sb / W / Hg

Cu, Pb, Zn, Mo, Ag, As, Sb, W in parts per million
Au, Hg in parts per billion

SUCWOA RIVER

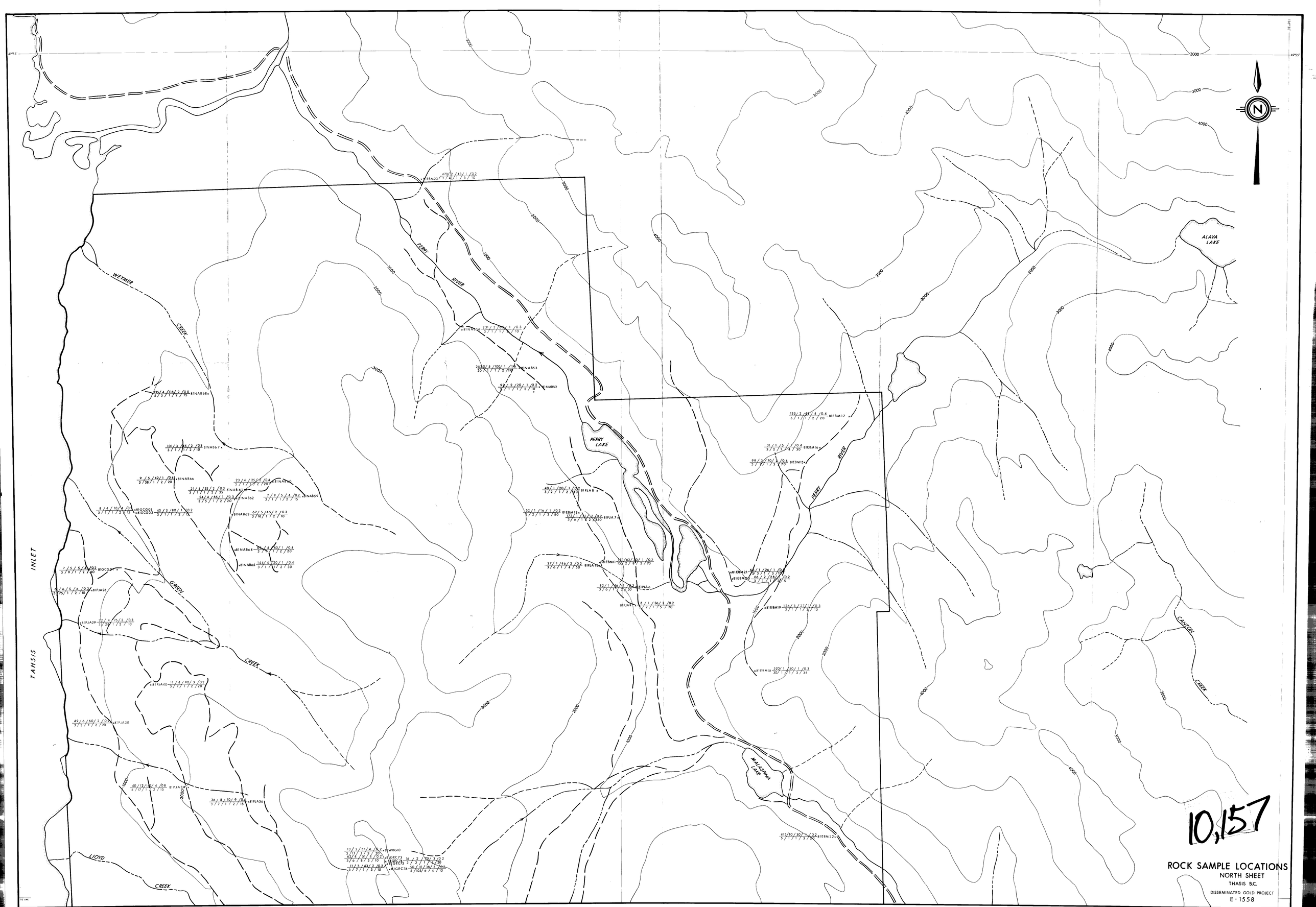
SANTIAGO CREEK

TSONKWIN RIVER

49°50'

49°50'

M.A.P.



10,157

ROCK SAMPLE LOCATIONS

NORTH SHEET

THASIS B.C.

DISSEMINATED GOLD PROJECT

E - 1558

126°30'

TAHSIS

LEINER R.

TAH 1
743

TAH 2
743 (3)

TAH 3
744 (3)

PERRY RIVER

WEYMER CR.

ALAVA L.

PERRY R.

CEEPEECEE

TAH 4
745 (3)

TAH 5
746 (3)

TAH 6
747 (3)

PERRY LAKE

GREEN CR.

TAH 7
748 (3)

TAH 8
749 (3)

TAH 9
750 (3)

△5130
MALESPINA PEAK

MALASPINA L.

SUCWOA R.

TAHSIS NARROWS

INLET

LLOYD CR.

TAHSIS MOUNTAIN
△4225

TAH 10
751 (3)

TAH 11
752 (3)

TAH 12
753 (3)

49°50'

TAHSIS

TAH 13
754 (3)

TAH 14
755 (3)

TAH 15
756 (3)

TAH 16
757 (3)

SANTIAGO CR.

TAH 17
758 (3)

TAH 18
759 (3)

TAH 19
760 (3)

SANTIAGO MOUNTAIN
△4236

TAH 21
1205

TAH 20
1204

TSOWWIN

HEAD BAY

MOUTCHA BAY

TLUPANA INLET

126°30'

49°50'

N

CLAIM	RECORD NO.	UNITS	RECORD DATE	IN GOOD STANDING
TAH 2	743	20	MAR. 10 / 80	MAR. 10 / 82 *
3	744	20	"	"
4	745	20 ×	"	"
5	746	20	"	"
6	747	20 ×	"	"
7	748	20	"	"
8	749	20	"	"
9	750	20	"	"
10	751	20 ×	"	"
11	752	20	"	"
12	753	20	"	"
13	754	20 ×	"	"
14	755	20	"	"
15	756	20	"	"
16	757	15 ×	"	"
17	758	15	"	"
18	759	20	"	"
19	760	20	"	"
20	1204	20	APR. 2 / 81	APR. 2 / 82
21	1205	20	"	"

385 UNITS × 61.78 ACRES = 23,785.30 ACRES

* AWAITING FILED DOCUMENTATION

× EXCLUDING ANY PORTION COVERED BY TIDAL WATERS O/C 309

100% PAN OCEAN OIL LTD.

10,157

1000 500 0 1000 2000 3000 M.

TO ACCOMPANY REPORT NO. 8-82 BY G.C.

REVISED : MAY, 1981

K.B.B.

PAN OCEAN OIL LTD.
CALGARY ALBERTA

TAH 2 -21 CLAIMS

TAHSIS B.C.
DISSEMINATED GOLD PROJECT

DATE	SCALE	NTS	DRAWING NO.
FEB., 1981	1 : 50,000	92 E / 15	C-1201