

093 852

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE

BOD PROPERTY
BOD 1-8, 17-20 CLAIMS



WATSON LAKE MINING DISTRICT
YUKON TERRITORY, CANADA
NTS MAP SHEET 105G/12

Centred at Latitude: 61° 39' 40"N; Longitude: 131° 43' 45"W
Work Performed: September 27, 1997

FOR:

PACIFIC BAY MINERALS LTD.
#908-700 West Pender Street
Vancouver, B.C. V6C 1G8

Francis Moyle, B.Sc.
Gary L. Wesa, B.Sc., F.G.A.C.

May, 1998

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 2400.00.

M. B. ...
for Regional Manager, Exploration and
Geological Services for Commissioner,
of Yukon Territory.

TABLE OF CONTENTS

| | <u>PAGE #</u> |
|------------------------------------|---------------|
| SUMMARY | 1 |
| INTRODUCTION | 2 |
| Location and Access..... | 2 |
| Physiography and Climate | 2 |
| Property Status and Ownership..... | 4 |
| HISTORY OF EXPLORATION..... | 4 |
| Regional History | 4 |
| Property History | 7 |
| 1994 Exploration Program | 7 |
| 1997 Exploration Program | 7 |
| GEOLOGY | 7 |
| Regional Geology | 7 |
| Property Geology | 12 |
| Lithologies..... | 12 |
| Alteration | 12 |
| Mineralization..... | 12 |
| GEOCHEMISTRY | 12 |
| Sampling Procedure..... | 12 |
| Geochemical Results..... | 13 |
| CONCLUSIONS | 13 |
| RECOMMENDATIONS | 14 |
| REFERENCES..... | 15 |
| STATEMENT OF QUALIFICATIONS | 17 |

LIST OF FIGURES

PAGE #

| | |
|--|----|
| 1. Property Location Map | 3 |
| 2. Claim Map (1" = ½ mile)..... | 5 |
| 3. Regional Tectonic Map (1:10,000,000)..... | 8 |
| 4. Regional Geology | 10 |

LIST OF TABLES

PAGE #

| | |
|--|----|
| I. Claim Status | 4 |
| II. Geochemical Backgrounds & Anomalous Thresholds | 13 |

LIST OF MAPS

| | |
|--|-----------|
| 1. Property Geology and Geochemistry (Cu, Zn & Pb in ppm) (1:10,000)..... | In Pocket |
|--|-----------|

LIST OF APPENDICES

| | |
|--------------|---------------------------------------|
| APPENDIX I | Itemized Cost Statement |
| APPENDIX II | Summary of Personnel |
| APPENDIX III | Analytical Procedure |
| APPENDIX IV | Rock and Soil Geochemical Lab Reports |

BOD PROPERTY
ASSESSMENT REPORT 1997
PAGE 1

SUMMARY:

The portion of the BOD Property examined comprises 12 claims located approximately 50 km southeast of Ross River, Yukon in the Watson Lake Mining District. The claims were staked in 1994 to protect an area of potentially favourable stratigraphy similar to that hosting Cominco's Kudz Ze Kayah polymetallic volcanogenic massive sulphide deposit located 64 km to the east-southeast. Access to the BOD property is provided via helicopter from the Mink Creek airstrip on the Robert Campbell Highway 21 km to the east-northeast or directly from Ross River.

This report presents the results of a helicopter supported geological and geochemical sampling survey conducted during September, 1997 by personnel from Pacific Bay Minerals Ltd.

The property is located within the Finlayson Lake map area (104/G) in the Yukon Plateau physiographic region of the northern Cordillera. The claims cover an area of moderate relief with small, scattered subcrop exposures and locally abundant float boulders occurring only on north sloping terrain.

The property is underlain by mixed metasedimentary rocks and mafic metavolcanic rocks correlative with the "Middle Unit" of the Paleozoic Layered Metamorphic Sequence of Yukon-Tanana Terrane. This has been interpreted from limited exposure in the east-central portion of the property. Surrounding terrain is covered by glacial till supporting growths of low brush, timber and, locally, swampy vegetation.

A review of all available information indicates that the region has experienced little or no work. Minfile records show that prior staking was conducted in the immediate property area. Work, however, was never recorded. Cominco staked the BOD claims in early 1994 and followed this up with a short geological and geochemical survey over targets delineated by an airborne geophysical survey.

In 1997, Pacific Bay Minerals conducted an exploration program comprised of geological mapping and geochemical sampling on 12 claims with the objective of evaluating the property's economic potential and following up on geophysical and geological work by Cominco's personnel in 1994. A total of 3 rock samples and 10 soil samples were collected.

Geochemical analysis of rock and soil samples returned low values for elements tested. Analysis for base metals documented background values with one soil sample recording weak to moderately anomalous copper.

Reconnaissance mapping and prospecting failed to identify prospective stratigraphy and no potentially economic sulphide mineralization was detected. Consequently, no further work is recommended for the BOD property.

BOD PROPERTY
ASSESSMENT REPORT 1997
PAGE 2

INTRODUCTION:

This report discusses the exploration procedures and results of a helicopter supported geological and geochemical program conducted by Pacific Bay Minerals Ltd. on the BOD 1-8, 17-20 claims. Field work was performed by a two member crew during the period of September 27, 1997. Personnel operated out of a trailer situated at the Mink Creek airstrip.

The objective of the 1997 program was to evaluate the northwestern portion of the property to assess its economic potential. A total of 3 rock samples and 10 soil samples were collected. Geological and geochemical data were compiled on 1:10,000 scale contour maps prepared from 1:50,000 scale NTS topographic maps and all final data were produced on 1:10,000 scale hand drafted maps.

All geochemical samples were shipped to ACME Analytical Labs in Vancouver, B.C. for geochemical analysis utilizing 30-element ICP method and gold analysis by wet extraction followed with analysis by graphite furnace AA finish. Analytical procedures are described in Appendix III and analytical results are presented in Appendix IV.

Location and Access:

The BOD property is located in the southeastern Yukon Territory approximately 50 km southeast of Ross River. The claims are situated within NTS map sheet 105G/12 and are centred at 61° 39' 40" North latitude and 131° 43' 45" West longitude. Access to the property is provided via helicopter from the Mink Creek airstrip located 21 km east-northeast on the Robert Campbell Highway. The claims may also be directly accessed via helicopter from Ross River (Figure 1).

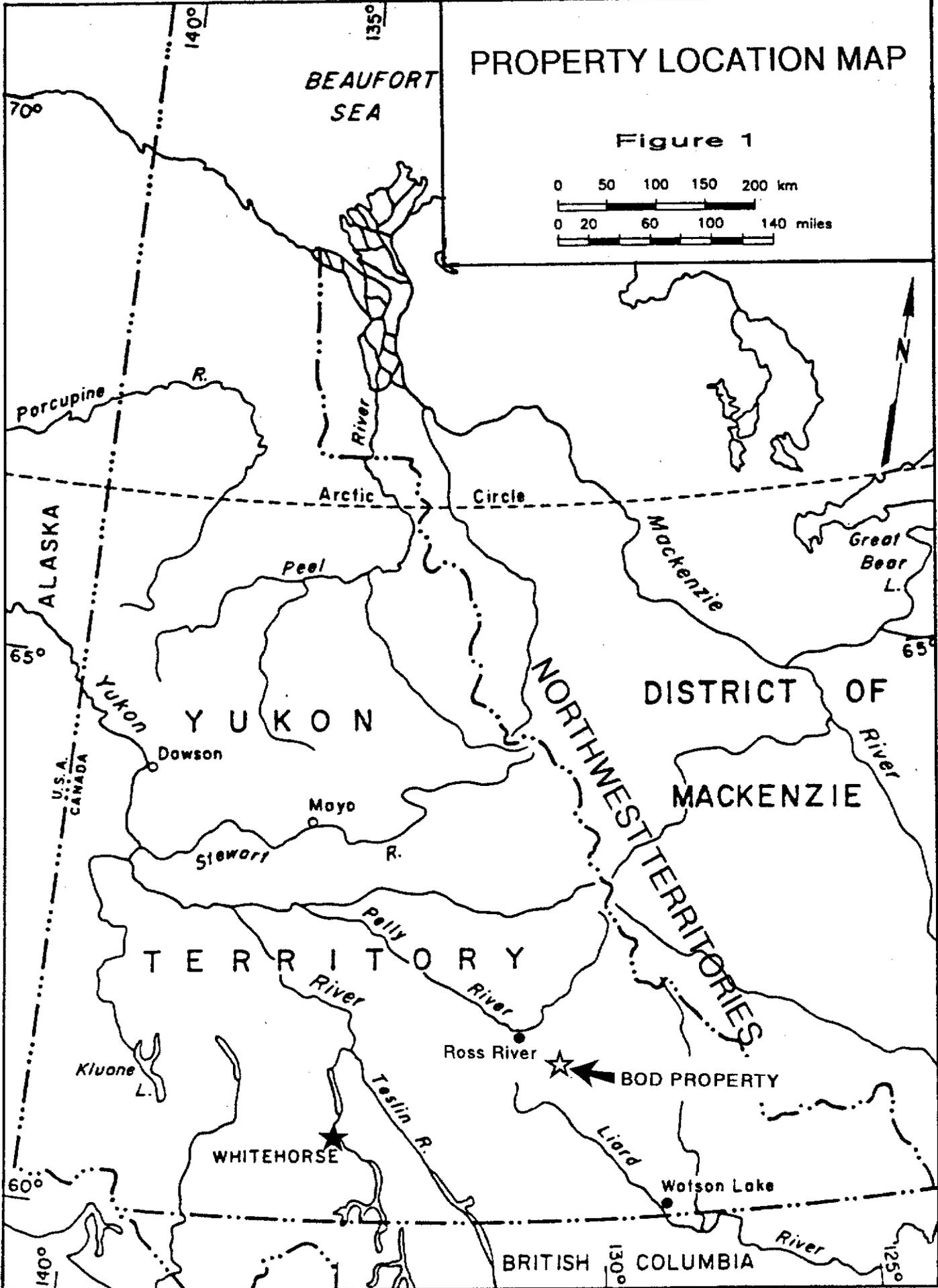
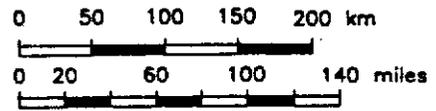
Physiography and Climate:

The property is located within the Yukon Plateau physiographic region of the northern Cordillera. Elevations within the claims area range from 1006 metres (3,300') to 1296 metres (4,250'). The property boundary encloses the broad nose of a domed ridge in the southwestern corner with moderately sloping drainages radiating outward from this high ground.

During the Pleistocene Epoch, ice covered the entire area except for the tops of the highest peaks. McConnell glaciation covered the area during the period from 26,500 to 10,000 years ago. Glaciation has produced isolated, rounded mountains; valleys are occupied by abundant small lakes connected by a network of streams. Valley bottoms are typically underlain with glaciofluvial sediments exceeding five metres in thickness.

PROPERTY LOCATION MAP

Figure 1



**BOD PROPERTY
ASSESSMENT REPORT 1997
PAGE 4**

The regional terrain is covered with a thick growth of "buckbrush" and alder. Slopes also support scattered black spruce and balsam fir. Tree line occurs at roughly 1400 (4,592') to 1500 metres (4,875'). Outcrop on the property is generally rare and exists only on moderate north sloping terrain in the centre of the property.

Weather records are unavailable for the area; however, general climatic data indicates that precipitation is light, averaging 50cm per annum, and falls mostly as rain during summer months. Snow cover averages approximately 60cm by late winter. The climate is continental type with warm summers and long, cold winters. Annual mean daily temperature is -5°C with ranges from lows of -30° to -50°C in January to 10° to 20°C in July. Permafrost at this latitude is discontinuous but widespread. It is rarely possible to commence surface geological work before the end of June and difficult to continue past September.

Property Status and Ownership:

The portion of the BOD property examined (Figure 2) consists of 12 contiguous claims located within the Watson Lake Mining District. The claims were staked to protect airborne geophysical targets identified during a Cominco survey conducted in early 1994. The claims are currently 100% owned by Cominco; however, an option agreement granted by Cominco to Pacific Bay Minerals permits the latter the right to acquire 60% interest upon completion of a specified work program. Relevant claim data are tabulated in Table 1 below:

TABLE 1: BOD PROPERTY - CLAIM STATUS

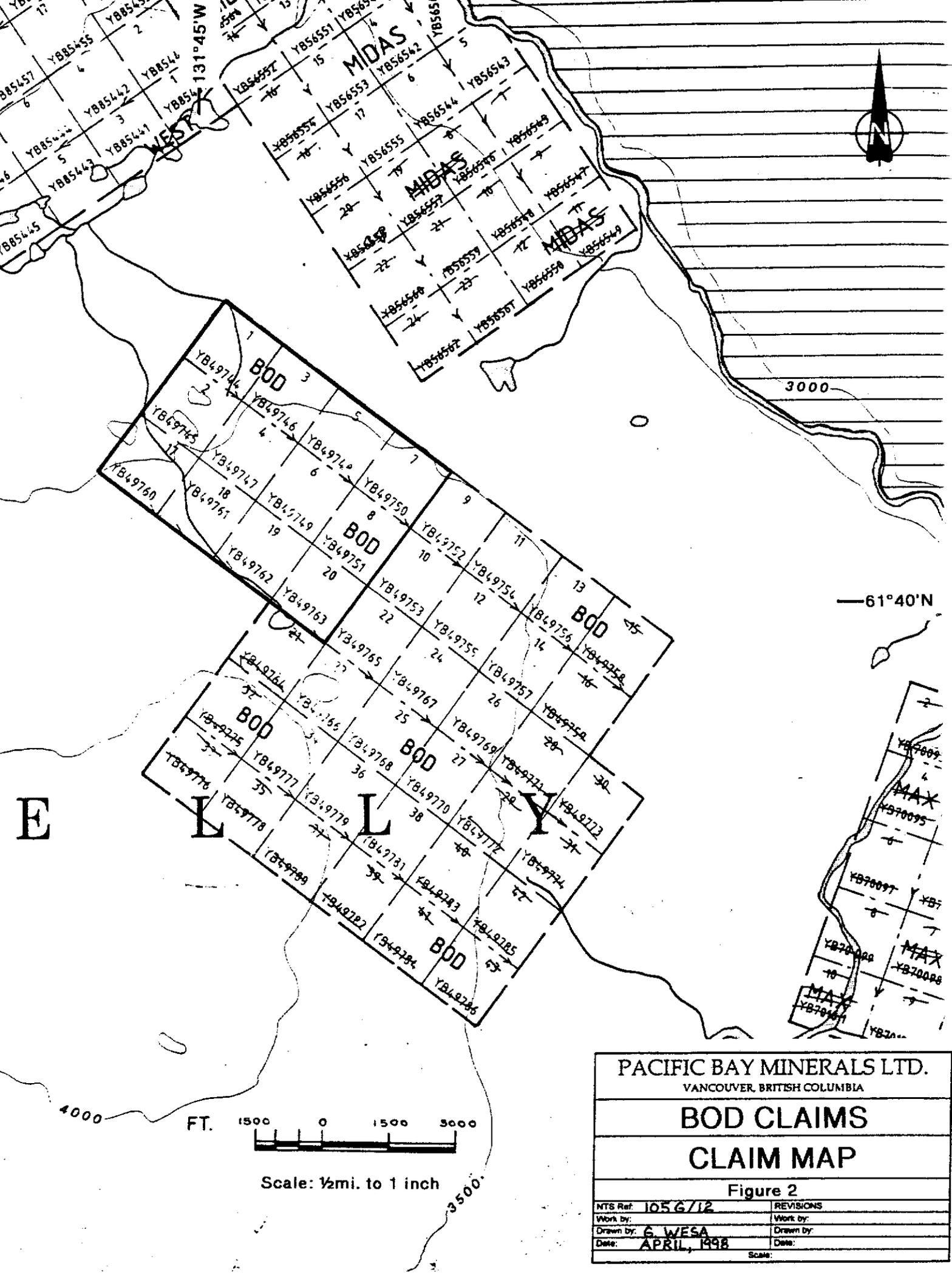
| <u>CLAIM NAME</u> | <u># OF CLAIMS</u> | <u>GRANT #</u> | <u>RECORDING DATE</u> | <u>NEW EXPIRY DATE</u> |
|--------------------------|---------------------------|-----------------------|------------------------------|-------------------------------|
| BOD 1-8 | 8 | YB49744- YB49751 | 1994/05/15 | 2000/05/15 |
| BOD 17-20 | 4 | YB49760- YB49763 | 1994/05/15 | 2000/05/15 |

HISTORY OF EXPLORATION:

Regional History:

The area was first mapped by Wheeler et al. (1960). Detailed mapping and re-interpretation was subsequently carried out by personnel of the Geological Survey of Canada (Tempelman-Kluit et al, 1975, 1976; Gordey and Tempelman-Kluit, 1976; Tempelman-Kluit, 1977; Gordey, 1977).

Finlayson Lake area has experienced reconnaissance exploration by numerous companies at various times since the mid-1960's following discovery and development of the Faro zinc-lead-silver deposits.



E



Scale: 1/2 mi. to 1 inch

PACIFIC BAY MINERALS LTD.
VANCOUVER, BRITISH COLUMBIA

**BOD CLAIMS
CLAIM MAP**

Figure 2

| | |
|-------------------|-----------|
| NTS Ref: 1056/12 | REVISIONS |
| Work by: | Work by: |
| Drawn by: G. WESA | Drawn by: |
| Date: APRIL, 1998 | Date: |
| | Scale: |

BOD PROPERTY
ASSESSMENT REPORT 1997
PAGE 6

Beginning in the early 1970's up to the early 1980's, several companies conducted exploration programs in the area for SEDEX mineralization (HOO) VMS mineralization (PY, FYRE, FETISH, PAK, BEV) and tungsten-bearing skarns (BOOT). In 1973, the FETISH claims were staked by Finlayson Joint Venture over a target 25 km east of the Kudz Ze Kayah deposit. This target exhibited similar geology to Kudz Ze Kayah and was tested by two shallow drill holes. The PY claims were staked in 1975 by Cyprus Anvil Mining Corporation 40 km southeast of Kudz Ze Kayah.

In 1985, J.K. Mortensen and G.A. Jilson published the results of geological mapping conducted in the late 1970's and early 1980's. Their interpretation forms the basis of current knowledge of the regional geology. Mortensen and Jilson recognized the presence of a thick package of Devonian-Mississippian metamorphosed felsic and mafic volcanic rocks in carbonaceous metasediments in the pericratonic Yukon-Tanana Terrane.

In 1988, the G.S.C. released Open File 1648 causing many claims to be staked over gold and arsenic stream sediment anomalies. Many claims were located over allochthonous ophiolitic rocks that appear associated with thrust sheets that border the ultramafic succession.

Current exploration activity in the Finlayson Lake area commenced in late 1993 when Cominco conducted soil geochemical and geophysical surveys in the headwaters of a drainage in which government regional stream sediment survey results delineated strongly anomalous lead, zinc and copper values. Initial Cominco surveys outlined approximately coincident soil geochemical anomalies, electromagnetic conductors and positive magnetic anomalies. The first hole drilled in April, 1994 immediately intersected the deposit. Cominco followed with regional-scale, helicopter-borne magnetic and electromagnetic surveys, diamond drilling and regional staking programs. Exploration and development continued in 1995 with construction of a 23 km access road connecting the Robert Campbell Highway to the discovery site. Published reserves to the end of 1997 are quoted at 13 million tons grading 5.5% Zn, 1.0% Cu, 1.3% Pb, 12 g/t Ag and 1.2 g/t Au.

In 1996-97, D.C. Murphy of the Yukon Exploration and Geological Services Division; Department of Indian Affairs and Northern Development conducted detailed 1:50,000 scale geological mapping of the Grass Lakes map sheet (NTS 105 G/7). Cominco's Kudz Ze Kayah massive sulphide deposit occurs in the northeastern corner of this map sheet. Results of this work were released in November, 1997.

BOD PROPERTY
ASSESSMENT REPORT 1997
PAGE 7

Property History:

A review of government Assessment Report Archives and Archer, Cathro Mineral Inventory files indicates that the region has experienced little or no work. The property area was previously staked (Minfile #45; Starr) by Newmont in 1963 and then again by Imperial Metals Corp. in 1988 apparently on the basis of aeromagnetics(?). No work was recorded on these claims.

1994 Exploration Program:

During the period of July 20, 1994, 1:10,000 scale geological mapping and prospecting was completed by Cominco personnel. A total of 38 soil samples and 1 silt sample were collected concurrent with the present survey.

1997 Exploration Program:

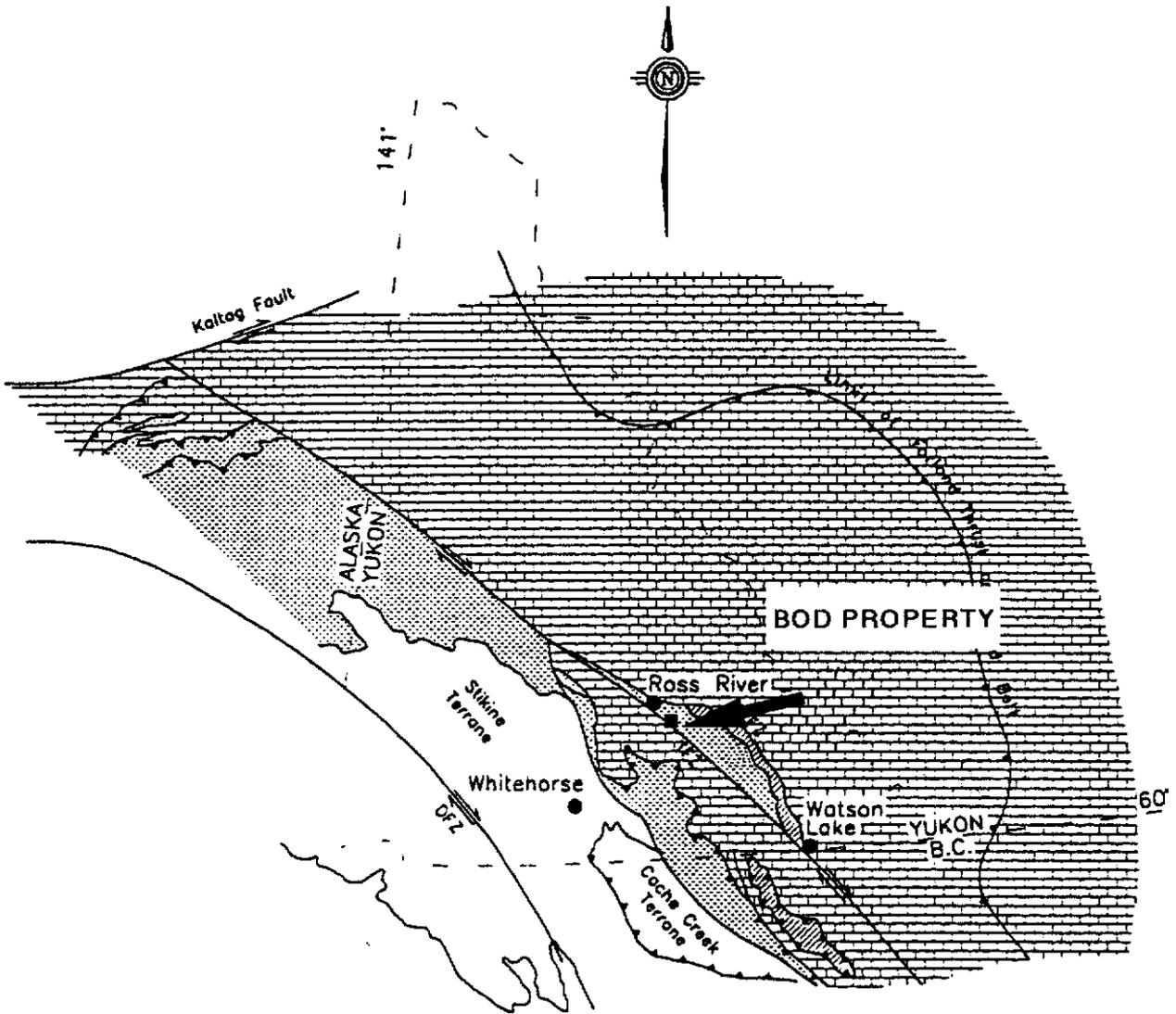
Approximately 70% of the 12 claims were examined through geological mapping and prospecting at a scale of 1:10,000. No outcrop is exposed within this specific area, therefore, exposures in the central portion of the main BOD property were examined and rock and soil samples were obtained from, and proximal to, these outcrops.

Rock samples were collected, concurrent with prospecting, from small exposures, some of which hosted trace sulphide mineralization. Soil samples were collected from selected areas believed to be underlain by alteration or prospective lithologies.

GEOLOGY:

Regional Geology:

A large portion of the western to southeastern Yukon, from the Alaska border to British Columbia, is underlain by a geologically complex terrane composed of polydeformed, dynamothermally metamorphosed sedimentary, volcanic and plutonic rocks. These rocks have been grouped within the Yukon-Tanana and Slide Mountain Terranes and are believed to represent a mid-Paleozoic volcanic-plutonic arc assemblage (Yukon-Tanana Terrane) imbricated with middle and upper Paleozoic ophiolitic sheets (Slide Mountain Terrane); these accreted terranes are believed to be thrust northeastward over the North American Continental Margin (Figure 3). This allochthonous assemblage is preserved in klippen above autochthonous, structurally imbricated Paleozoic and lower Mesozoic North American Shelf strata in the central to southeastern Yukon.



Scale: 1:10,000,000

LEGEND

-  North American Miogeoclinal Strata
-  Yukon - Tanana Terrane
-  Slide Mountain Terrane
-  Thrust Fault
-  Strike-Slip Fault, with sense of movement
 - FLZ - Finlayson Lake Fault Zone
 - TFZ - Tintina Fault Zone
 - DFZ - Denali Fault Zone

PACIFIC BAY MINERALS LTD.

VANCOUVER, BRITISH COLUMBIA

BOD PROJECT

REGIONAL TECTONIC MAP

Figure 3

| | |
|-------------------|-----------|
| NTS Ref: 105G/12 | REVISIONS |
| Work by: G. Wesa | Work by: |
| Drawn by: G. Wesa | Drawn by: |
| Date: March, 1998 | Date: |

Scale

BOD PROPERTY
ASSESSMENT REPORT 1997
PAGE 9

The southwestern side of the allochthon is bounded by the Tintina Fault Zone comprising a series of subparallel transcurrent faults which have produced 450 km of dextral displacement during late Cretaceous and/or early Tertiary times. The northeastern boundary traces a broad arc marking the surface expression of the Finlayson Lake Fault Zone which comprises a complex assemblage of thrust and high angle faults that may, in part, represent a transpressive paleosuture. Both faults juxtapose the allochthonous rocks with autochthonous rocks of the North American miogeocline (Figure 4).

Rocks of the Yukon-Tanana and Slide Mountain Terranes are believed to have evolved offshore of North America in Paleozoic and early Mesozoic time and were subsequently deformed and metamorphosed in pre-early Jurassic time in a southwest dipping, right-oblique subduction system. These rocks were derived from a basin which formed outboard of present day western North America. This basin was constructed, in part, on oceanic crust locally preserved as ophiolitic assemblages within the Slide Mountain Terrane.

Yukon-Tanana rocks are generally more metamorphosed and contain more felsic metaplutonic suites whereas Slide Mountain Terrane is characterized by the presence of obducted ophiolitic rocks. These lithologies comprise massive to pillowed greenstones, basalt, chert and variably serpentinized mafic to ultramafic plutonic rocks. This suite of rocks has been interpreted by Tempelman-Kluit (1979) and Mortensen and Jilson (1985) as fragments of a dismembered ophiolite complex. The rocks range in age from late Devonian to early Permian based upon U-Pb zircon dating methods and fossil ages. Fossil collections made in the Anvil district from ophiolitic rocks of the Anvil Range Group (Tempelman-Kluit, 1972) gave latest Pennsylvanian or earliest Permian ages. These ages were recorded from fusilinids and conodonts recovered from a limestone interfingering depositionally with red and green chert and basalt of the Anvil Range assemblage.

Six principal lithological packages have been identified within the allochthonous rocks in the Finlayson Lake area (Mortensen and Jilson, 1985). These include two metamorphic assemblages that comprise the bulk of Yukon-Tanana Terrane, a relatively unmetamorphosed package belonging to Slide Mountain Terrane and three younger units that are found in both terranes. Descriptions of these lithologies are presented below:

Paleozoic Layered Metamorphic Sequence is the oldest and most abundant lithological package within Yukon-Tanana Terrane. It consists of three distinct stratigraphic units with a total thickness of approximately 3.0 km. The lowest unit contains pre-late Devonian micaceous feldspathic quartzite with minor marble. The middle unit is late Devonian to mid-Mississippian in age and is the focus of volcanogenic massive sulphide exploration in the Finlayson Lake area. It consists of dark siliceous phyllite that becomes increasingly carbonaceous toward the base of the section where it interfingers with widespread mafic metavolcanic schist. Localized felsic metavolcanic centres are found throughout the section. The uppermost unit contains early Pennsylvanian to early Permian white carbonate and quartzite.

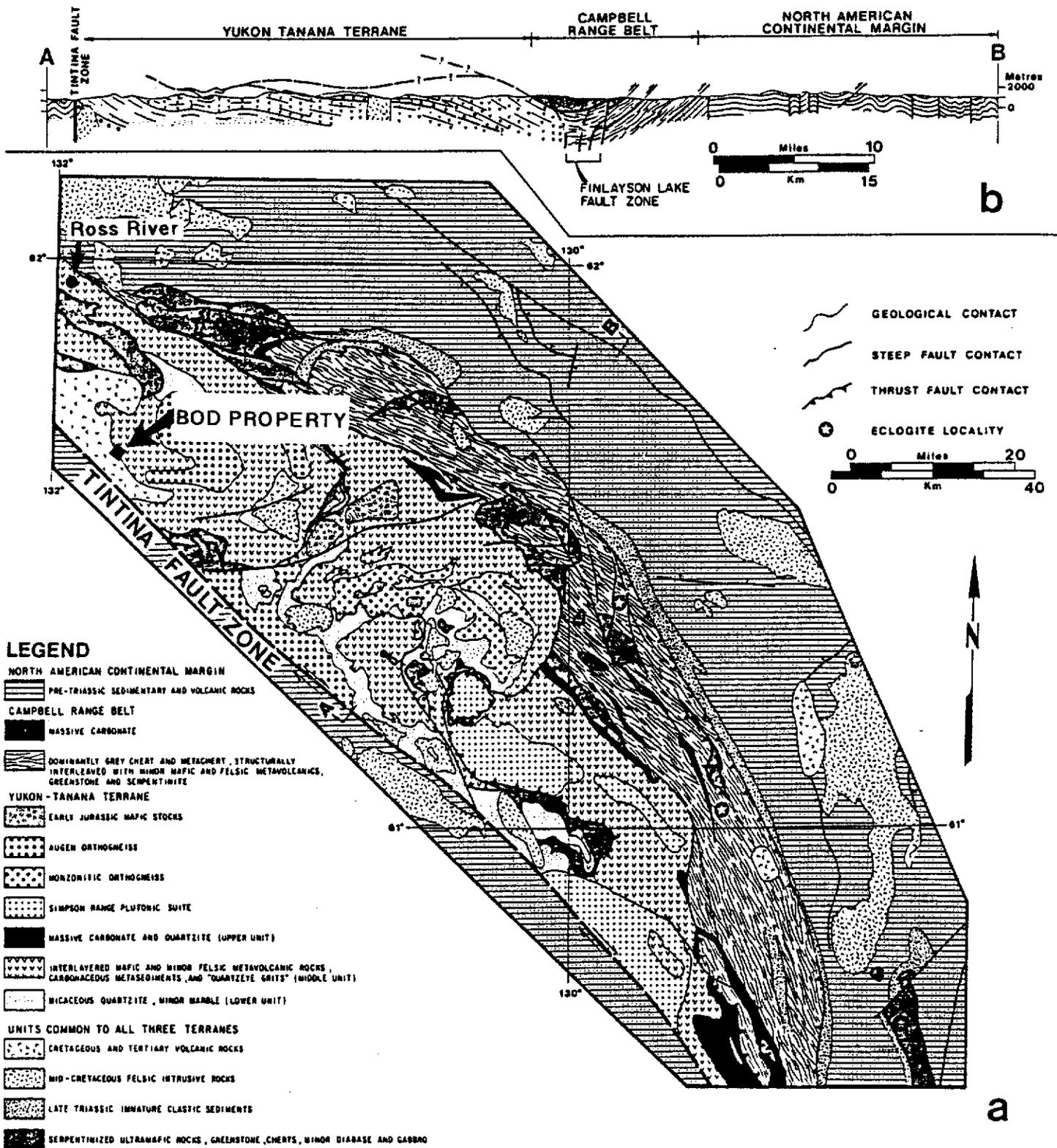


Figure 4: Regional Geology (After Mortensen & Jilson, 1985).

BOD PROPERTY
ASSESSMENT REPORT 1997
PAGE 11

Paleozoic Metaplutonic Rocks are also confined to Yukon-Tanana Terrane. They are subdivided into three suites, all of which are coarse grain and have yielded mid-Mississippian age dates (340 to 359 Ma). The quartz monzonitic to quartz dioritic Simpson Range plutonic suite is slightly older than augen orthogneiss (leucogranite) and monzonitic orthogneiss (quartz monzonite). Most contacts between metaplutonic rocks and the layered metamorphic sequence are foliaform.

Both the layered metamorphic sequence and the metaplutonic rocks underwent intense deformation (F1) during Permian or early Triassic time. This event resulted in pervasive foliation that usually parallels subhorizontal or shallow-dipping compositional layering. The F1 deformation was accompanied by middle greenschist to middle amphibolite facies regional metamorphism. A second phase of deformation (F2) is observed locally but appears to have been a relatively minor event.

Slide Mountain Terrane consists of obducted ophiolitic assemblages that are most abundant within the Campbell Range Belt but also appears as imbricate slices along thrust faults elsewhere in the allochthon. The Campbell Range Belt is up to 25 km wide and forms the northeastern edge of the allochthon. It contains relatively unmetamorphosed but strongly folded and imbricated cherts with mafic and felsic volcanics, massive greenstone and serpentinite. Thrust slices elsewhere in the allochthon are also unmetamorphosed but typically contain a higher proportion of mafic to ultramafic plutonic rocks. Fossils in the cherts have been dated as late Pennsylvanian to early Permian while the mafic and ultramafic rocks are late Devonian. Slide Mountain rocks do not exhibit the F1 foliation characteristic of the Yukon-Tanana layered metamorphic sequence and metaplutonic rocks.

The remaining three units are all younger and unmetamorphosed. They are found in both Yukon-Tanana and Slide Mountain Terranes. Mesozoic Clastic Rocks are late Triassic immature sediments containing cobbles derived from both Yukon-Tanana and Slide Mountain. Mesozoic Plutonic Rocks include a number of early Jurassic mafic to intermediate plutons plus scattered late Cretaceous quartz monzonite stocks. Major thrust faults in the district post-date the early Jurassic plutons but pre-date the late Cretaceous quartz monzonite. This structural event is believed to have occurred during accretion of the allochthon to the North American craton because the thrusts cut the miogeoclinal rocks as well as the allochthonous rocks. Transcurrent movement on the Tintina Fault Zone occurred soon after the thrust faults. Young Volcanic Rocks unconformably overlie the other units and consist of late Cretaceous to Tertiary felsic volcanic flows and volcanoclastic deposits. They are usually found in close proximity to the Tintina Fault Zone.

BOD PROPERTY
ASSESSMENT REPORT 1997
PAGE 12

Property Geology:

Lithologies:

The terrain covered by the BOD 1-8, 17-20 claims is void of outcrop and remains covered with overburden of undetermined thickness. Consequently, small scattered outcrops and subcrop exposed in the central portion of the BOD property, immediately south of the above listed group of claims, were examined to provide bedrock information (Map 1).

Outcrop examined comprises Fe-carbonate altered, locally silicified phyllite and chloritic phyllite and schist. These rocks appear well foliated with foliation dipping moderately to steeply north at roughly 150° azimuth. Small outcrops of dark argillite and carbonaceous, chloritic phyllites occur in the south-central portion of the property. Phyllitic rocks host dark grey quartzitic intervals containing blue quartz crystals.

This stratigraphy appears correlative to the mixed metasedimentary and mafic metavolcanic package belonging to the "Middle Unit" of the Paleozoic Layered Metamorphic Sequence.

Alteration:

A subhorizontal to moderately north to northeast dipping, penetrative, ductile deformation fabric associated with middle greenschist facies (chlorite-biotite grade) metamorphism affects all Yukon-Tanana Terrane lithologies. This fabric reflects the first and most significant deformational and metamorphic event resulting from continent-arc collision during the late Permian to early Triassic period.

Mineralization:

Trace quantities of pyrrhotite, as disseminations and small grains, occur within Fe-carbonate altered phyllites. No potentially economic sulphide mineralization was detected.

GEOCHEMISTRY:

A total of 3 lithochemical samples and 10 soil samples were collected outside the BOD 1-8, 17-20 claims adjacent to the southeastern corner of this group of claims.

Sampling Procedure:

Soil samples were collected from 30-50cm deep pits dug with a long handle mattock. Samples were collected on gently sloping ground and represent good B horizon greenish-brown to rusty brown clays and silty clays. Soil profiles appear well developed at this location. Samples were placed in numbered, large gusseted kraft paper bags and sample sites were marked with similarly coded fluorescent ribbon. Rock samples were placed in numbered plastic sample bags and sample sites similarly marked.

BOD PROPERTY
ASSESSMENT REPORT 1997
PAGE 13

Areas selected for soil sampling are characterized by alteration with trace sulphide mineralization. Rock samples were collected from exposures of outcrop and subcrop exhibiting sulphide mineralization and Fe-carbonate alteration.

Ground control for soil sampling, plus geological mapping, was provided by compass, altimeter and hip chain. Field crews were supplied with 1:10,000 scale contoured base maps for plotting data and navigation. Analytical results are presented in Appendix IV and geochemical values are plotted on Map 1.

Geochemical Results:

Results from the geochemical survey are not encouraging. Analytical values reflect background levels for base metals and negligible values for precious metals. A single, weakly to moderately anomalous Cu-in-soil value is documented.

Geochemical background values and anomalous thresholds for Cu, Pb, Zn and Mo mineralization within soil samples collected on the BOD property are presented in Table II. These values were confirmed in a summary report on the Finlayson Lake Properties by M.A. Powers (1996) for Expatriate Resources Ltd. and are valid for geochemical surveys conducted on the BOD property.

TABLE II - GEOCHEMICAL BACKGROUNDS & ANOMALOUS THRESHOLDS

| | Background (ppm) | Weak (ppm) | Moderate (ppm) | Strong (ppm) | Peak Value (ppm) |
|------------|------------------|------------|----------------|--------------|------------------|
| Copper | 25 | 50 | 100 | 200 | 1720 |
| Lead | 30 | 50 | 100 | 200 | >4000 |
| Zinc | 80 | 200 | 500 | 1000 | >4000 |
| Molybdenum | <1 | 2 | 5 | 10 | 65 |

CONCLUSIONS:

Geological mapping, prospecting and geochemical sampling was the focus of exploration activity on the BOD 1-8, 17-20 claims during examination by Pacific Bay Minerals personnel in 1997.

A total of 3 rock and 10 soil samples were collected; however, analytical results are not encouraging.

BOD PROPERTY
ASSESSMENT REPORT 1997
PAGE 14

The area enclosed within the group of 12 claims is covered with glacial overburden supporting low scrub brush, mosses and stunted timber. Geological interpretation is therefore provided from Mortensen and Jilson (1985).

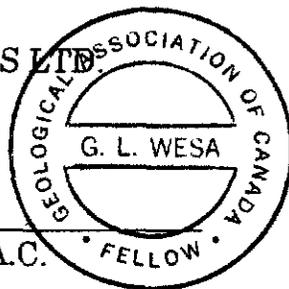
Mapping adjacent to the study area indicates that bedrock in the project area comprises stratigraphy which appears correlative to the assemblage of mixed metasedimentary and mafic metavolcanic rocks comprising the "Middle Unit" of the Paleozoic Layered Metamorphic Sequence of Yukon-Tanana Terrane.

Geological mapping and prospecting by Pacific Bay Minerals personnel failed to identify significant economic mineralization and no felsic metavolcanic rocks or Kudz Ze Kayah VMS style mineralization was detected.

RECOMMENDATIONS:

A review of the data from Cominco's 1994 exploration program, plus a current evaluation of the property by Pacific Bay Minerals, indicates that no additional work is required on the BOD 1-8, 17-20 claims.

Respectively Submitted
PACIFIC BAY MINERALS LTD.



Gary L. Wesa, B.Sc. F.G.A.C.

REFERENCES

- Hansen, V.L. (1990): Yukon-Tanana Terrane: A partial acquittal; Geology, Vol. 18, pp. 365-369.
- Hornbrook, E.H.W. and Friske, P.W.B. (1988): Regional Stream Sediment and Water Geochemical Data, Southeast Yukon (105G), Geological Survey of Canada, Open File 1648.
- Jackson Jr., L.E. (1986): Terrain Inventory, Yukon Territory, Geological Survey of Canada, Open File 1379.
- MacRobbie, P.A. (1995): 1994 Assessment Report on the BOD Property, Cominco Ltd.
- Morin, J.A. (1981): Volcanogenic iron and base metal occurrences in Klondike Schist, Yukon Geology and Exploration, 1979-80, Department of Indian and Northern Affairs, pp. 91-97.
- Mortensen, J.K. and Jilson, G.A. (1985): Evolution of the Yukon-Tanana Terrane; Evidence from southeastern Yukon Territory, Geology, Vol. 13, pp 806-810.
- Mortensen, J.K. (1992): Pre-Mid-Mesozoic Tectonic Evolution of the Yukon-Tanana Terrane, Yukon and Alaska, Tectonics, Vol. 11, No. 4, pp. 836-853.
- Murphy, D.C. and Timmerman, J.R.M. (1997): Geological map of part of Grass Lakes map area, Pelly Mountains, southeastern Yukon. Exploration and Geological Services Division, Yukon. Indian and Northern Affairs Canada, Open File 1997-1.
- Nelson, J.L. and Bradford, J.A. (1993): Geology of the Midway-Cassiar area, northern British Columbia, MEMPR, Mineral Resources Division, Bull. 83, pp. 14-38.
- Powers, M.A. (1996): Summary Report on the Finlayson Lake Properties, Watson Lake and Whitehorse Mining Districts, Yukon Territory, Canada, Report for Expatriate Resources Ltd., pp 16-19.

BOD PROPERTY
ASSESSMENT REPORT 1997
PAGE 16

- Tempelman-Kluit, D.J., Gordey, S.P. and Read, B.C. (1976): Stratigraphic and structural studies in the Pelly Mountains, Yukon Territory, Geological Survey of Canada, Paper 76-1A, pp. 97-106.
- Tempelman-Kluit, D.J. (1979): Transported cataclasite, ophiolite, and granodiorite in Yukon: Evidence of arc-continent collision, Geological Survey of Canada, Paper 79-14, pp. 1-27.
- Whiteway, P. (1995): "Fast-Tracking" ABM, Canadian Mining Journal, June, 1995, pp. 17-21.

BOD PROPERTY
ASSESSMENT REPORT 1997
PAGE 17

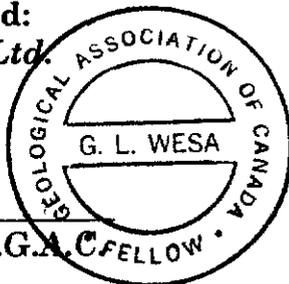
STATEMENT OF QUALIFICATIONS

I, Gary L. Wesa, of #309 - 6669 Telford Avenue, in the City of Burnaby, B.C., do hereby certify that:

1. I am presently employed as Project Geologist to Pacific Bay Minerals Ltd. with offices at #908-700 West Pender Street, Vancouver, British Columbia.
2. I am a graduate of the University of Saskatchewan with a B.Sc. Degree in Geology (1974) and I have practiced my profession continuously since graduation.
3. I have been employed in mineral exploration in Canada and the U.S.A. since 1970.
4. I am a registered Fellow of the Geological Association of Canada.
5. I am familiar with the regional geology of the Yukon-Tanana and Slide Mountain Terranes and have personally performed work on several properties in this region.
6. I am the author of this report entitled: "Geological and Geochemical Report on the BOD Property", which is based upon researched documents, referenced in this report, and supervision of the 1997 field program.

Dated at Vancouver, British Columbia this _____ day of May, 1998

Respectfully submitted:
Pacific Bay Minerals Ltd.



Gary L. Wesa, B.Sc., F.G.A.C.

APPENDIX I

Itemized Cost Statement

**BOD CLAIM
ITEMIZED COST STATEMENT**

FIELD COSTS

Salaries

| | | |
|--------------|------------------|------------------------|
| F. Moyle | 1 days @ 200/day | \$200.00 |
| J. Hunt | 1 days @ 125/day | \$125.00 |
| Total | | <u>\$325.00</u> |

Field Expenses:

| | | |
|--|-----------|-------------------------|
| Helicopter Transport (Trans North Helicopters) | \$1000.00 | |
| Helicopter Fuel | \$ 150.00 | |
| Truck/Trailer Rental | \$ 200.00 | |
| Trailer Insurance | \$ 25.00 | |
| Generator Rental | \$ 50.00 | |
| Sat. Phone Rental | \$ 40.00 | |
| Gas | \$ 75.00 | |
| Meals | \$ 80.00 | |
| Misc. Supplies | \$ 140.00 | |
| Radio Rental | \$ 15.00 | |
| Travel Airfare | \$ 73.00 | |
| Freight/Shipping | \$ 80.00 | |
| 7% GST on Field Expenses | \$ 132.16 | |
| Total | | <u>\$2060.16</u> |

GEOCHEMICAL ANALYSIS

| | | |
|--------------|------------------------|------------------------|
| Rock Samples | 3 @ \$16.00 per sample | \$ 48.00 |
| Soil Samples | 10 @ 13.25 per sample | \$ 132.50 |
| Total | | <u>\$180.50</u> |

OFFICE COSTS

Salaries

| | | |
|--------------|----------------------|------------------------|
| F. Moyle | 3 days @ 145 per day | \$435.00 |
| Total | | <u>\$435.00</u> |

TOTAL EXPENDITURES:



\$3000.66

APPENDIX II

Summary of Personnel

Summary of Personnel

| <u>NAME</u> | <u>TITLE</u> | <u>ADDRESS</u> |
|---------------|-------------------|---------------------|
| Gary L. Wesa | Project Geologist | Vancouver, BC |
| Francis Moyle | Geologist | North Vancouver, BC |
| John Hunt | Sampler | Watson Lake, BC |

APPENDIX III

Analytical Procedure

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C., Canada V6A 1R6

Telephone: (604) 253-3158 Fax: (604) 253-1716

METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE GROUP 1D - 30 ELEMENT ICP BY AQUA REGIA

Sample Preparation:

Soils and sediments are dried (60°C) and sieved to -80 mesh (-177 microns), rocks and drill core are crushed and pulverized to -100 mesh (-150 microns). Plant samples are dried (60°C) and pulverized or dry ashed (550°C). Moss-mat samples are dried (60°C), pounded to loosen trapped sediment then sieved to -80 mesh. At the clients request, moss mats can be ashed at 550°C then sieved to -80 mesh although this can result in the potential loss by volatilization of Hg, As, Sb, Bi and Cr. A 0.5 g split from each sample is placed in a test tube. A duplicate split is taken from 1 sample in each batch of 34 samples for monitoring precision. A sample standard is added to each batch of samples to monitor accuracy.

Sample Digestion:

Aqua Regia is a 3:1:2 mixture of ACS grade conc. HCl, conc. HNO₃ and demineralized H₂O. Aqua Regia is added to each sample and to the empty reagent blank test tube in each batch of samples. Sample solutions are heated for 1 hour in a boiling hot water bath (95°C).

Sample Analysis:

Sample solutions are aspirated into an ICP emission spectrograph (Jarrel Ash Atom Comp model 800 or 975) for the determination of 30 elements comprising: Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, Ti, U, V, W, Zn.

Data Evaluation:

Raw and final data from the ICP-ES undergoes a final verification by a British Columbia Certified Assayer who then signs the Analytical Report before it is released to the client. Chief Assayer is Clarence Leong, other certified assayers are Dean Toye and Jacky Wang.

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C., Canada V6A 1R6

Telephone: (604) 253-3153 Fax: (604) 253-1716

METHOD FOR WET GEOCHEM GOLD ANALYSIS

Sample Preparation:

Soils and sediments are dried (60°C) and sieve to -80 mesh.

Rocks and cores are crushed and pulverized to -100 mesh.

Sample Digestion

1. 10g samples in 250 ml beaker, ignite at 600°C for four hours.
2. Add 40 ml of 3:1:2 mixture HCL:HNO₃:H₂O.
3. Cover beaker with lids.
4. Boil in hot water bath for one hour.
5. Swirl samples 2 to 3 times within the hour.
6. Cool, add 60 ml of distilled water and settle.
7. Pour 50 ml of leached solution using a graduated cylinder into 100 ml volumetric flask.
8. Add 10 ml of MIBK and 25 ml of distilled water.
9. Shake 3 to 4 minutes in shaker.
10. Add additional 25 ml of distilled water to stripe out excess iron.
11. Shake each flask 10 times.
12. Pour MIBK into container for graphite AA finished.

APPENDIX IV

Rock and Soil Geochemical Lab Reports



GEOCHEMICAL ANALYSIS CERTIFICATE

Pacific Bay Minerals Ltd. PROJECT MINK CREEK File # 97-5806

908 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Frank Moyle

| SAMPLE# | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Au* |
|------------------|-----|------|-----|-----|-----|------|-----|------|-------|-----|-----|-----|-----|------|------|-----|-----|------|-------|------|-----|-----|-------|------|------|-----|------|------|------|-----|-----|
| | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | ppm | % | ppm | % | % | % | % | % | ppm | ppb |
| B 149951 | 1 | 13 | 38 | 49 | <.3 | 18 | 8 | 293 | 2.07 | <2 | <8 | <2 | 6 | 89 | <.2 | <3 | <3 | 48 | 1.08 | .047 | 15 | 40 | .63 | 9 | .05 | <3 | 1.32 | .04 | <.01 | 3 | <1 |
| B 149952 | 2 | 19 | 23 | 69 | <.3 | 28 | 12 | 734 | 3.22 | <2 | <8 | <2 | 11 | 54 | <.2 | <3 | <3 | 63 | 3.91 | .092 | 24 | 64 | 1.06 | 185 | .17 | <3 | 1.95 | .08 | .82 | <2 | 1 |
| B 149953 | 1 | 17 | 28 | 15 | <.3 | 13 | 7 | 89 | 1.41 | <2 | <8 | <2 | 2 | 174 | <.2 | <3 | <3 | 15 | 1.22 | .059 | 5 | 17 | .11 | 4 | .14 | <3 | .77 | .02 | .01 | 4 | <1 |
| B 149954 | 1 | 8 | 19 | 36 | <.3 | 5 | 5 | 320 | 2.34 | <2 | <8 | <2 | 24 | 46 | <.2 | <3 | <3 | 21 | 1.12 | .033 | 46 | 11 | .51 | 41 | .01 | <3 | 1.02 | .05 | .11 | 2 | <1 |
| B 149955 | 3 | 18 | 18 | 58 | <.3 | 11 | 14 | 596 | 4.08 | 3 | <8 | <2 | 22 | 16 | <.2 | <3 | <3 | 102 | .27 | .052 | 34 | 17 | 1.25 | 122 | .05 | <3 | 1.57 | .07 | .31 | <2 | 1 |
| B 149956 | 14 | 52 | 21 | 93 | <.3 | 86 | 6 | 386 | 1.32 | 3 | <8 | <2 | <2 | 55 | .2 | <3 | <3 | 408 | 1.72 | .106 | 16 | 42 | .32 | 44 | <.01 | <3 | .65 | <.01 | .19 | 9 | <1 |
| B 149957 | 2 | 180 | 16 | 49 | <.3 | 30 | 36 | 324 | 3.77 | 5 | <8 | <2 | 13 | 17 | <.2 | <3 | <3 | 92 | .72 | .062 | 31 | 88 | 1.53 | 91 | .18 | <3 | 1.89 | .04 | .36 | 5 | <1 |
| B 149958 | 2 | 59 | 116 | 20 | <.3 | 69 | 14 | 99 | .93 | 12 | <8 | <2 | 86 | <.2 | <3 | <3 | 16 | 1.36 | .079 | 5 | 29 | .13 | 18 | .27 | <3 | .52 | .03 | .01 | 3 | 1 | |
| B 149959 | 1 | 89 | 9 | 79 | .3 | 49 | 32 | 1114 | 5.24 | 7 | <8 | <2 | 2 | 281 | .4 | <3 | 3 | 198 | 12.68 | .203 | 22 | 10 | 1.71 | 54 | .06 | <3 | 1.97 | .02 | .01 | <2 | 2 |
| B 149960 | 1 | 39 | 9 | 37 | <.3 | 81 | 21 | 971 | 2.76 | 4 | <8 | <2 | <2 | 220 | .2 | <3 | <3 | 95 | 8.21 | .094 | 8 | 197 | 1.00 | 191 | .03 | <3 | 1.23 | .02 | .07 | <2 | 2 |
| B 149961 | 1 | 8 | 13 | 74 | <.3 | 9 | 10 | 1258 | 3.28 | 2 | <8 | <2 | 4 | 111 | <.2 | <3 | 3 | 54 | 2.64 | .043 | 18 | 16 | 1.16 | 237 | .02 | 7 | 2.87 | .20 | .13 | <2 | 2 |
| B 149962 | 4 | 29 | 4 | 124 | <.3 | 17 | 37 | 1764 | 9.70 | 19 | <8 | <2 | 9 | 292 | .2 | <3 | <3 | 84 | 4.71 | .397 | 93 | 5 | 2.72 | 29 | .02 | <3 | 3.45 | .02 | <.01 | <2 | 2 |
| B 149963 | 3 | 51 | 19 | 66 | <.3 | 31 | 30 | 2738 | 7.80 | 15 | <8 | <2 | 3 | 287 | .8 | <3 | <3 | 49 | 10.20 | .204 | 41 | 27 | 2.00 | 37 | .01 | <3 | 1.15 | .02 | .01 | <2 | 1 |
| B 149964 | 7 | 62 | 14 | 139 | <.3 | 26 | 8 | 345 | 1.98 | 11 | <8 | <2 | 6 | 50 | 2.2 | <3 | <3 | 44 | .81 | .329 | 33 | 19 | .51 | 137 | <.01 | <3 | .91 | .01 | .16 | 4 | 1 |
| B 149965 | 1 | 8 | 11 | 46 | <.3 | 17 | 7 | 351 | 1.97 | <2 | <8 | <2 | 10 | 35 | <.2 | <3 | <3 | 23 | 1.45 | .490 | 32 | 33 | .55 | 71 | .06 | <3 | 1.10 | .02 | .27 | 4 | 1 |
| B 149966 | 2 | 20 | 65 | 267 | <.3 | 8 | 30 | 1339 | 8.20 | 5 | <8 | <2 | 3 | 75 | .3 | <3 | <3 | 174 | 2.19 | .197 | 8 | 46 | 2.36 | 44 | .32 | <3 | 3.27 | .02 | <.01 | <2 | 1 |
| B 149967 | 3 | 52 | 9 | 154 | .4 | 17 | 19 | 728 | 8.21 | <2 | <8 | <2 | 5 | 36 | <.2 | <3 | <3 | 187 | 1.80 | .243 | 38 | 57 | 2.18 | 50 | .03 | <3 | 3.64 | .02 | <.01 | <2 | 1 |
| B 149968 | 2 | 14 | 35 | 180 | <.3 | 23 | 28 | 1858 | 8.12 | <2 | <8 | <2 | 7 | 10 | <.2 | <3 | 3 | 213 | .58 | .093 | 16 | 69 | 2.16 | 15 | .33 | <3 | 3.81 | .02 | <.01 | <2 | 1 |
| B 149969 | 1 | 10 | <3 | 63 | <.3 | 153 | 32 | 879 | 6.02 | <2 | <8 | <2 | 3 | 221 | .4 | <3 | <3 | 74 | 9.20 | .114 | 19 | 281 | 1.81 | 1787 | .03 | <3 | 2.50 | <.01 | .05 | <2 | 1 |
| B 149970 | 2 | 10 | 7 | 143 | <.3 | 15 | 38 | 1161 | 10.83 | <2 | <8 | <2 | 3 | 70 | <.2 | <3 | <3 | 245 | 2.17 | .206 | 15 | 30 | 2.67 | 538 | .18 | <3 | 3.64 | .02 | .04 | <2 | 1 |
| RE B 149970 | 2 | 10 | 11 | 142 | <.3 | 15 | 38 | 1147 | 10.67 | <2 | <8 | <2 | 3 | 70 | <.2 | <3 | <3 | 242 | 2.14 | .204 | 15 | 31 | 2.64 | 524 | .18 | 4 | 3.61 | .02 | .04 | <2 | 1 |
| B 149971 | <1 | 3 | 6 | 13 | <.3 | 5 | 2 | 1112 | 1.96 | 2 | <8 | <2 | <2 | 297 | .8 | <3 | <3 | 11 | 32.61 | .017 | 1 | 4 | .97 | 23 | <.01 | 3 | .06 | <.01 | <.01 | <2 | <1 |
| B 149972 | <1 | 1624 | 10 | 51 | .9 | 64 | 34 | 3201 | 3.21 | 2 | <8 | <2 | 3 | 265 | .7 | 4 | <3 | 30 | 16.34 | .077 | 27 | 41 | .77 | 609 | .02 | 4 | .34 | .03 | .05 | 2 | 20 |
| B 149973 | <1 | 52 | 13 | 87 | .3 | 37 | 28 | 793 | 5.56 | <2 | <8 | <2 | <2 | 107 | .2 | <3 | <3 | 152 | 1.38 | .098 | 8 | 194 | 2.42 | 76 | .41 | 3 | 2.27 | .04 | .05 | <2 | <1 |
| B 149974 | <1 | 76 | 11 | 73 | <.3 | 54 | 27 | 667 | 4.86 | <2 | <8 | <2 | <2 | 165 | <.2 | <3 | <3 | 124 | 2.40 | .174 | 11 | 179 | 2.12 | 268 | .31 | 6 | 1.98 | .03 | .18 | <2 | 7 |
| B 149975 | <1 | 73 | <3 | 79 | <.3 | 108 | 24 | 793 | 3.81 | <2 | <8 | <2 | 2 | 211 | <.2 | <3 | <3 | 81 | 2.64 | .296 | 27 | 192 | 1.81 | 246 | .32 | 3 | 1.99 | .03 | .36 | <2 | <1 |
| B 149976 | 1 | 126 | 8 | 104 | <.3 | 125 | 31 | 908 | 5.60 | <2 | <8 | <2 | 2 | 105 | <.2 | <3 | <3 | 100 | 2.45 | .287 | 21 | 226 | 3.00 | 261 | .31 | 8 | 2.93 | .02 | .30 | <2 | <1 |
| B 149977 | 1 | 12 | 12 | 65 | <.3 | 59 | 29 | 1508 | 7.06 | 4 | <8 | <2 | 3 | 1708 | 1.3 | <3 | <3 | 55 | 10.73 | .186 | 11 | 28 | 2.57 | 100 | .01 | 12 | .31 | .03 | .01 | <2 | <1 |
| B 149978 | <1 | 17 | <3 | 26 | <.3 | 2265 | 103 | 757 | 5.47 | 3 | <8 | <2 | <2 | 12 | 1.1 | <3 | 3 | 31 | .29 | .002 | <1 | 950 | 19.86 | 7 | .01 | 8 | .65 | <.01 | <.01 | <2 | 1 |
| B 149979 | 1 | 10 | 11 | 46 | <.3 | 36 | 6 | 519 | 3.13 | 2 | <8 | <2 | 4 | 20 | .3 | <3 | <3 | 7 | .13 | .025 | 13 | 20 | .43 | 213 | <.01 | <3 | .67 | .01 | .13 | 5 | <1 |
| C 27901 | 1 | 12 | 16 | 33 | <.3 | 22 | 6 | 413 | 1.98 | <2 | <8 | <2 | 13 | 22 | <.2 | <3 | <3 | 19 | 1.30 | .020 | 22 | 41 | .68 | 61 | .04 | <3 | .96 | .04 | .12 | 4 | <1 |
| STANDARD C3/AU-R | 27 | 67 | 38 | 166 | 5.6 | 34 | 12 | 727 | 3.37 | 55 | 21 | <2 | 18 | 30 | 23.6 | 13 | 26 | 83 | .59 | .084 | 18 | 163 | .60 | 146 | .10 | 15 | 1.90 | .04 | .16 | 23 | 456 |
| STANDARD G-1 | 2 | 4 | 5 | 50 | <.3 | 8 | 4 | 590 | 2.21 | <2 | <8 | <2 | 2 | 69 | <.2 | <3 | <3 | 45 | .65 | .078 | 7 | 91 | .67 | 254 | .16 | <3 | 1.06 | .06 | .51 | <2 | 2 |

BOD Rock

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB - SAMPLE TYPE: ROCK AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM) Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 3 1997 DATE REPORT MAILED: *Oct 9/97* SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE

Pacific Bay Minerals Ltd. PROJECT MINK CREEK File # 97-5807 Page 1
 908 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Frank Moyle

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Au* ppb |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|--------|-------|------|------|--------|--------|------|--------|------|-------|------|------|------|-------|---------|
| CBFS-9701 | 3 | 30 | 18 | 98 | <.3 | 37 | 38 | 2606 | 11.63 | 7 | <8 | <2 | 4 | 75 | <.2 | <3 | <3 | 164 | 1.49 | .080 | 50 | 69 | 1.29 | 607 | .01 | <3 | 2.65 | .01 | .07 | <2 | <1 |
| CBFS-9702 | 1 | 28 | 6 | 58 | <.3 | 62 | 23 | 504 | 4.94 | 16 | <8 | <2 | 3 | 26 | <.2 | 8 | <3 | 135 | .34 | .031 | 16 | 138 | 1.52 | 252 | .29 | <3 | 2.26 | .01 | .07 | 2 | <1 |
| CBFS-9703 | 1 | 22 | 22 | 59 | .3 | 106 | 47 | 1967 | 9.10 | 6 | <8 | <2 | 3 | 416 | .2 | 4 | <3 | 77 | 2.19 | .145 | 37 | 103 | .94 | 155 | <.01 | <3 | 2.02 | .01 | .05 | <2 | <1 |
| CBFS-9704 | 1 | 56 | 14 | 2751 | <.3 | 137 | 44 | 1308 | 5.71 | 13 | <8 | <2 | 9 | 80 | 10.8 | 10 | <3 | 109 | 1.01 | .229 | 69 | 233 | 2.48 | 301 | .10 | <3 | 2.89 | .01 | .07 | 5 | 1 |
| CBFS-9705 | 1 | 52 | 15 | 84 | <.3 | 65 | 25 | 1276 | 4.53 | 12 | <8 | <2 | 8 | 31 | .3 | 7 | <3 | 87 | .56 | .135 | 45 | 102 | 1.71 | 223 | .05 | <3 | 2.50 | .01 | .07 | 2 | <1 |
| CBFS-9706 | 1 | 35 | 13 | 71 | <.3 | 51 | 17 | 546 | 3.77 | 13 | <8 | <2 | 8 | 15 | <.2 | <3 | <3 | 60 | .20 | .078 | 28 | 80 | 1.12 | 192 | .03 | <3 | 2.10 | <.01 | .07 | <2 | 4 |
| NMFS-9701 | 1 | 80 | 5 | 98 | .5 | 133 | 71 | 1996 | 10.97 | 32 | <8 | <2 | 6 | 57 | .6 | 12 | <3 | 248 | 1.59 | .263 | 52 | 133 | 4.53 | 148 | .06 | <3 | 4.92 | .01 | .05 | 3 | 1 |
| NMFS-9702 | 1 | 68 | 7 | 97 | .3 | 113 | 55 | 1468 | 8.31 | 33 | <8 | <2 | 6 | 40 | .4 | 9 | <3 | 136 | 1.08 | .275 | 45 | 134 | 2.81 | 152 | .04 | <3 | 3.41 | .01 | .06 | <2 | 1 |
| NMFS-9703 | <1 | 89 | 5 | 88 | <.3 | 184 | 62 | 1617 | 8.15 | 62 | <8 | <2 | 6 | 34 | <.2 | <3 | <3 | 162 | .97 | .196 | 35 | 249 | 3.24 | 200 | .07 | <3 | 3.86 | <.01 | .08 | <2 | 1 |
| NMFS-9704 | 1 | 62 | 8 | 74 | .4 | 149 | 45 | 1564 | 6.73 | 126 | <8 | <2 | 3 | 32 | .2 | 9 | <3 | 147 | 1.06 | .146 | 26 | 234 | 2.64 | 314 | .04 | <3 | 3.51 | .01 | .06 | <2 | <1 |
| NMFS-9705 | 1 | 94 | 8 | 94 | .4 | 201 | 48 | 1005 | 7.61 | 45 | <8 | <2 | 5 | 67 | .6 | 5 | <3 | 156 | 2.77 | .166 | 27 | 261 | 3.29 | 245 | .10 | <3 | 3.79 | .01 | .11 | <2 | 4 |
| NMFS-9706 | 1 | 86 | 10 | 73 | .3 | 138 | 33 | 937 | 5.73 | 29 | <8 | <2 | 3 | 39 | .2 | 4 | <3 | 120 | 1.20 | .129 | 29 | 187 | 2.23 | 363 | .05 | <3 | 3.10 | .01 | .07 | <2 | 1 |
| NMFS-9707 | 1 | 75 | 7 | 82 | <.3 | 143 | 36 | 797 | 6.31 | 32 | <8 | <2 | 3 | 37 | .3 | 8 | <3 | 133 | 1.22 | .135 | 24 | 221 | 2.69 | 267 | .06 | <3 | 3.30 | .01 | .07 | 2 | <1 |
| NMFS-9708 | 1 | 79 | 7 | 90 | .3 | 302 | 60 | 795 | 5.92 | 45 | <8 | <2 | 6 | 62 | .3 | 8 | <3 | 150 | 2.23 | .151 | 28 | 665 | 2.34 | 157 | .04 | <3 | 2.44 | .01 | .05 | <2 | <1 |
| BDFS-9701 | 1 | 51 | 9 | 88 | .3 | 63 | 31 | 705 | 5.69 | 30 | <8 | <2 | 8 | 32 | <.2 | 8 | <3 | 119 | .49 | .106 | 43 | 60 | 1.88 | 370 | .01 | <3 | 2.96 | .01 | .08 | <2 | 1 |
| BDFS-9702 | 5 | 36 | 3 | 93 | <.3 | 32 | 39 | 809 | 10.39 | 31 | <8 | <2 | 5 | 72 | <.2 | 3 | <3 | 116 | .80 | .249 | 65 | 15 | 2.20 | 100 | .01 | <3 | 4.46 | .01 | .02 | <2 | <1 |
| BDFS-9703 | 7 | 147 | 24 | 51 | .4 | 57 | 76 | 3199 | 14.74 | 21 | <8 | <2 | 6 | 75 | <.2 | 14 | <3 | 68 | 1.15 | .224 | 139 | 11 | .88 | 30 | .01 | <3 | 1.85 | .01 | .01 | <2 | <1 |
| RE BDFS-9703 | 8 | 154 | 26 | 52 | <.3 | 58 | 76 | 3281 | 14.97 | 20 | <8 | <2 | 5 | 75 | <.2 | 15 | <3 | 70 | 1.17 | .225 | 143 | 11 | .90 | 31 | .01 | <3 | 1.89 | .01 | <.01 | 2 | 1 |
| BDFS-9704 | 6 | 18 | 13 | 63 | <.3 | 19 | 18 | 402 | 5.70 | 9 | <8 | <2 | 5 | 38 | <.2 | 4 | <3 | 115 | .42 | .056 | 41 | 25 | 1.37 | 181 | .02 | <3 | 2.98 | .01 | .02 | <2 | <1 |
| BDFS-9705 | 4 | 33 | 11 | 88 | .4 | 49 | 23 | 620 | 4.96 | 14 | <8 | <2 | 7 | 24 | .3 | 3 | <3 | 97 | .29 | .087 | 38 | 53 | 1.21 | 392 | .02 | <3 | 2.31 | .01 | .05 | <2 | <1 |
| BDFS-9706 | 1 | 25 | 5 | 144 | .3 | 36 | 52 | 1207 | 11.60 | 27 | <8 | <2 | 3 | 252 | .4 | 19 | <3 | 29 | 3.92 | .282 | 17 | 10 | .79 | 222 | <.01 | <3 | .78 | .01 | .09 | <2 | 2 |
| BDFS-9707 | 3 | 60 | 16 | 102 | .3 | 56 | 18 | 459 | 4.21 | 14 | <8 | <2 | 8 | 30 | .3 | 4 | <3 | 77 | .45 | .084 | 46 | 52 | 1.00 | 417 | .02 | <3 | 1.93 | .01 | .06 | <2 | <1 |
| BDFS-9708 | 1 | 23 | 9 | 54 | <.3 | 26 | 8 | 229 | 2.20 | 8 | <8 | <2 | 6 | 28 | <.2 | <3 | <3 | 46 | .41 | .111 | 24 | 24 | .58 | 344 | .02 | 3 | 1.08 | .01 | .05 | <2 | 1 |
| BDFS-9709 | 1 | 13 | 4 | 63 | .4 | 35 | 34 | 879 | 8.63 | 5 | <8 | <2 | 2 | 78 | <.2 | <3 | <3 | 104 | 2.44 | .186 | 31 | 10 | .60 | 307 | <.01 | <3 | 1.02 | .01 | .06 | <2 | <1 |
| BDFS-9710 | 1 | 35 | 8 | 56 | <.3 | 64 | 18 | 347 | 3.84 | 16 | <8 | <2 | 4 | 24 | <.2 | 4 | <3 | 84 | .44 | .033 | 15 | 81 | .98 | 181 | .02 | <3 | 2.43 | .01 | .05 | <2 | <1 |
| NKFS-9701 | 2 | 59 | 14 | 92 | .8 | 130 | 15 | 599 | 2.78 | 10 | <8 | <2 | 3 | 41 | .6 | <3 | <3 | 49 | .72 | .070 | 22 | 47 | .46 | 720 | .01 | <3 | 1.06 | .02 | .07 | <2 | 2 |
| NKFS-9702 | 1 | 16 | 8 | 76 | .4 | 51 | 12 | 437 | 1.89 | 5 | <8 | <2 | 2 | 29 | .6 | <3 | <3 | 34 | .57 | .052 | 9 | 64 | .31 | 309 | .01 | <3 | .71 | .02 | .07 | <2 | <1 |
| NKFS-9703 | 2 | 44 | 18 | 77 | .3 | 153 | 19 | 753 | 3.65 | 15 | <8 | <2 | 4 | 38 | .5 | 3 | <3 | 54 | .63 | .038 | 20 | 101 | .64 | 440 | .02 | 3 | .91 | .01 | .05 | <2 | 1 |
| NKFS-9704 | 2 | 53 | 12 | 125 | .3 | 164 | 12 | 463 | 2.84 | 14 | <8 | <2 | 5 | 65 | 1.3 | 3 | <3 | 42 | 1.75 | .105 | 17 | 68 | 1.28 | 518 | .02 | 3 | .66 | .02 | .08 | <2 | 10 |
| NKFS-9705 | 1 | 21 | 9 | 46 | <.3 | 450 | 27 | 328 | 2.53 | 9 | <8 | <2 | 3 | 26 | .2 | 4 | <3 | 39 | .45 | .035 | 13 | 320 | 3.67 | 268 | .03 | 3 | .82 | .02 | .04 | <2 | 1 |
| NKFS-9706 | 2 | 45 | 15 | 125 | .5 | 153 | 14 | 311 | 2.62 | 13 | <8 | <2 | 7 | 72 | 1.4 | <3 | <3 | 47 | 2.01 | .117 | 24 | 67 | 1.25 | 742 | .03 | 4 | .93 | .01 | .10 | <2 | 1 |
| NKFS-9707 | 1 | 41 | 10 | 80 | .5 | 117 | 14 | 638 | 2.68 | 11 | <8 | <2 | 4 | 28 | .3 | <3 | <3 | 40 | .35 | .048 | 16 | 65 | .66 | 491 | .02 | 3 | .73 | .01 | .05 | <2 | 3 |
| NKFS-9708 | 1 | 46 | 15 | 84 | <.3 | 66 | 9 | 309 | 2.89 | 12 | <8 | <2 | 4 | 19 | .2 | 4 | <3 | 40 | .21 | .038 | 19 | 37 | .40 | 393 | .02 | <3 | .82 | .01 | .05 | <2 | 3 |
| NKFS-9709 | 2 | 40 | 10 | 74 | .6 | 68 | 15 | 582 | 3.53 | 9 | <8 | <2 | 4 | 42 | <.2 | <3 | <3 | 52 | .74 | .110 | 26 | 37 | .81 | 843 | .02 | <3 | 1.30 | .03 | .08 | <2 | 1 |
| NKFS-9710 | 2 | 39 | 11 | 101 | .4 | 53 | 8 | 410 | 2.20 | 9 | <8 | <2 | 4 | 47 | .8 | <3 | <3 | 39 | .86 | .098 | 18 | 33 | .59 | 643 | .02 | <3 | .69 | .01 | .08 | <2 | 3 |
| STANDARD C3/AU-S | 26 | 66 | 38 | 149 | 5.8 | 37 | 12 | 776 | 3.46 | 57 | 21 | 2 | 20 | 30 | 23.8 | 22 | 23 | 86 | .60 | .089 | 21 | 174 | .61 | 152 | .10 | 20 | 1.91 | .04 | .16 | 22 | 44 |
| STANDARD G-1 | 1 | 5 | <3 | 38 | <.3 | 6 | 4 | 539 | 2.08 | <2 | <8 | <2 | 5 | 72 | <.2 | <3 | <3 | 44 | .64 | .092 | 10 | 81 | .56 | 227 | .14 | 3 | .94 | .09 | .48 | 3 | <1 |

BOD Soil

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.

THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.

- SAMPLE TYPE: SOIL AU* - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

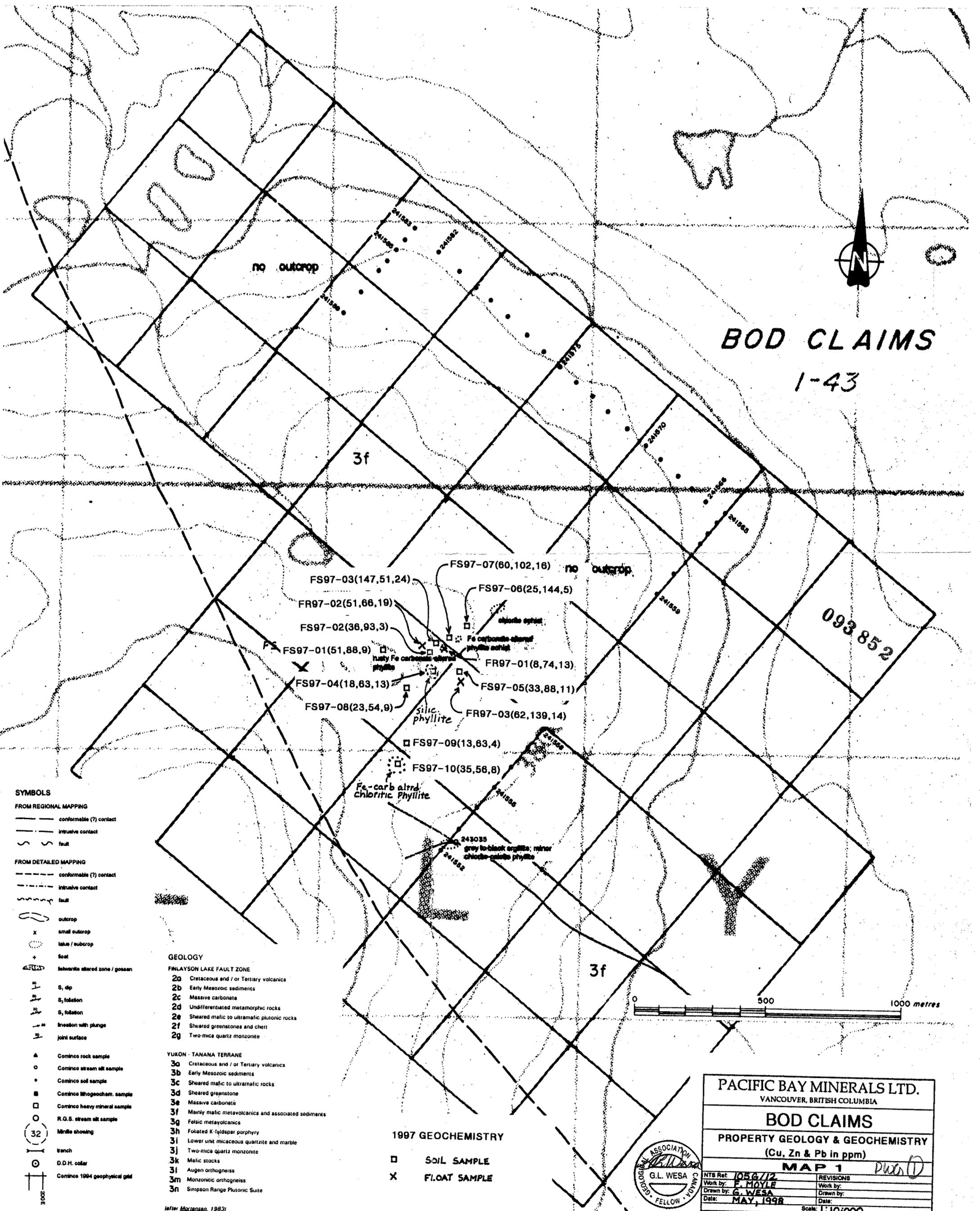
DATE RECEIVED: OCT 3 1997 DATE REPORT MAILED: Oct 8/97 SIGNED BY: C. Leong D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Date: FA



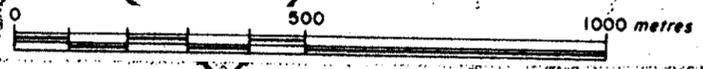
BOD CLAIMS 1-43



- SYMBOLS**
- FROM REGIONAL MAPPING**
- conformable (?) contact
 - intrusive contact
 - - - fault
- FROM DETAILED MAPPING**
- conformable (?) contact
 - intrusive contact
 - - - fault
 - outcrop
 - small outcrop
 - take / subcrop
 - soil
 - silicified altered zone / gossan
 - S, dip
 - S, foliation
 - S, foliation
 - lineation with plunge
 - joint surface
 - ▲ Cominco rock sample
 - Cominco stream silt sample
 - Cominco soil sample
 - Cominco lithogeochem. sample
 - Cominco heavy mineral sample
 - R.G.S. stream silt sample
 - Mine showing
 - trench
 - D.D.H. collar
 - Cominco 1994 geophysical grid

- GEOLOGY**
- FINLAYSON LAKE FAULT ZONE**
- 2a Cretaceous and / or Tertiary volcanics
 - 2b Early Mesozoic sediments
 - 2c Massive carbonate
 - 2d Undifferentiated metamorphic rocks
 - 2e Sheared mafic to ultramafic plutonic rocks
 - 2f Sheared greenstones and chert
 - 2g Two-mica quartz monzonite
- YUKON - TANANA TERRANE**
- 3a Cretaceous and / or Tertiary volcanics
 - 3b Early Mesozoic sediments
 - 3c Sheared mafic to ultramafic rocks
 - 3d Sheared greenstone
 - 3e Massive carbonate
 - 3f Mainly mafic metavolcanics and associated sediments
 - 3g felsic metavolcanics
 - 3h Foliated K-feldspar porphyry
 - 3i Lower unit micaceous quartzite and marble
 - 3j Two-mica quartz monzonite
 - 3k Mafic stocks
 - 3l Augen orthogneiss
 - 3m Monzonitic orthogneiss
 - 3n Simpson Range Plutonic Suite

- 1997 GEOCHEMISTRY**
- SOIL SAMPLE
 - × FLOAT SAMPLE



PACIFIC BAY MINERALS LTD.
VANCOUVER, BRITISH COLUMBIA

BOD CLAIMS

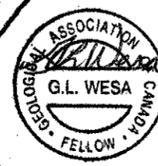
PROPERTY GEOLOGY & GEOCHEMISTRY
(Cu, Zn & Pb in ppm)

MAP 1

NTS Ref: 1056/12
Work by: F. MOYLE
Drawn by: G. WESA
Date: MAY, 1998

REVISIONS
Work by:
Drawn by:
Date:

Scale: 1:10,000



after Molnar, 1983