84-#371 - 12292

4/85

GEOCHEMICAL AND GEOLOGICAL REPORT

on the

MT. SISTER MARY PROPERTY

LIARD MINING DIVISION

NTS 104.H. 14E, 15W

NTS 104.I. 2W, 3E

BRITISH COLUMBIA

at

58° 00' N. latitude

129° 00' W. longitude

for

ORSINA RESOURCES LTD.

by

D.A. YEAGER - Geologist

C.K. IKONA - P. Eng.

May 1984

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LIST OF APPENDICES

1.0 INTRODUCTION

The BI - B18 claims were staked on March 4, 1981 by Pamicon Developments Ltd. of Vancouver to cover known copper-silver showings for their gold and silver potential. The showings occur in "Toodoggone" volcanic rocks. Pamicon subsequently vended the claims to the Choa Joint Venture. During the 1981 field season, a program of stream sediment sampling and rock chip sampling was carried out on the property. After reviewing the results of the 1981 program it was decided to reduce the size of the property to include only the ground indicated to be geochemically anomalous or of geologic importance. The reduced claims now consist of fifty-five units as detailed in section 2.0 below

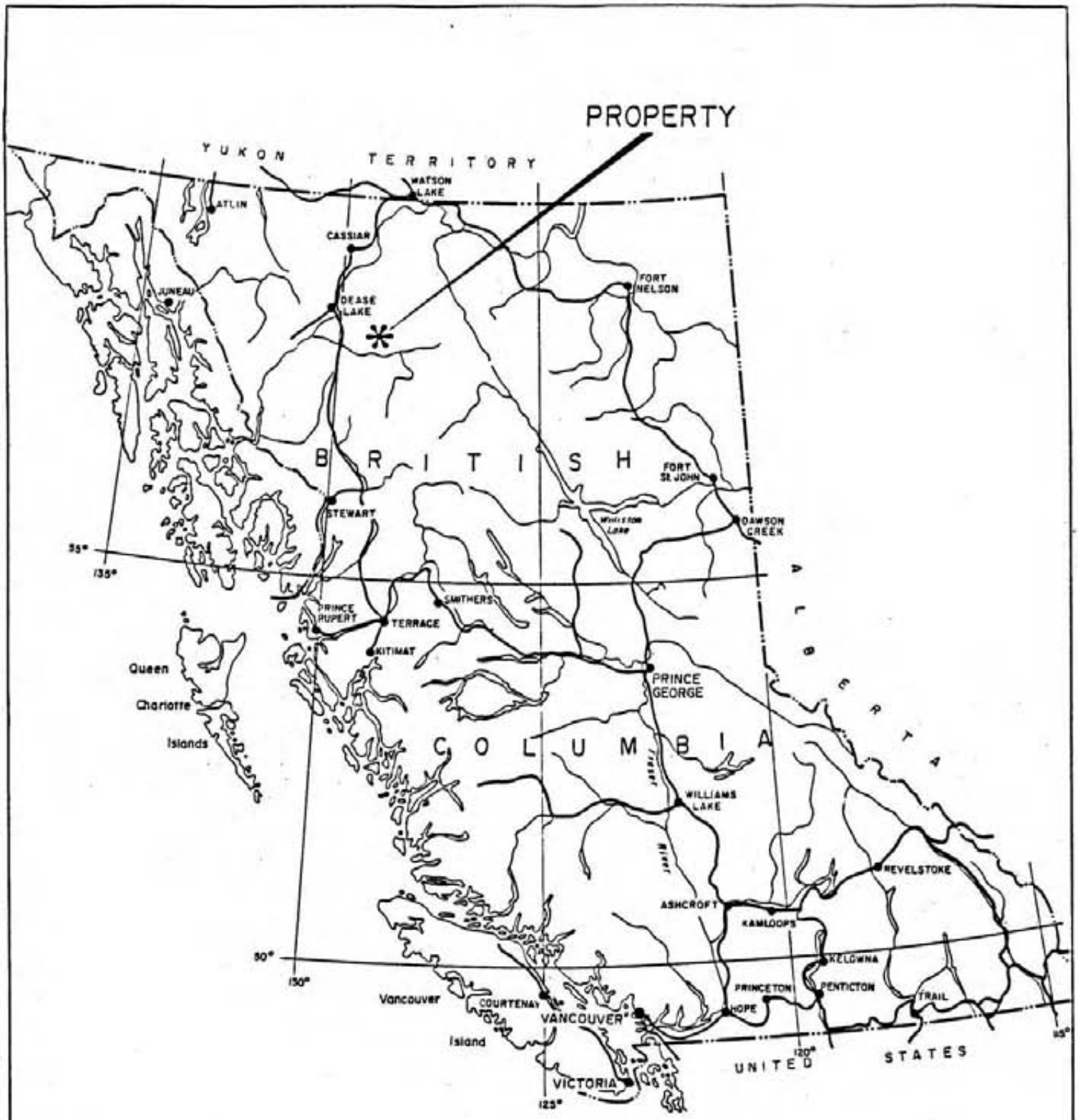
The Choa Joint Venture vended the claims to Orsina Resources Ltd. in 1983. The 1983 program was designed to thoroughly prospect the northern part of the property and submit rock chip samples for goldanalysis. Soil sampling, VLF-EM surveys and assay sampling of the B5 copper-silver occurrence were also carried out.

2.0 LIST OF CLAIMS

Examination of mineral titles registered with the British Columbia Department of Mines and Petroleum Resources indicates the claims are held by Orsina Resources Ltd.

The following table summarizes the pertinent claim data.

Claim Name	Record No.	Record Date	No.of Units	Tag No.
BI	1830	April 2/81	9	61300
B2	1831	"	6	61301
B3	1832	"	8	61302



ORSINA RESOURCES LTD.

MT. SISTER MARY PROPERTY

PROPERTY LOCATION MAP

0 100 200 MILES
0 100 200 300 KILOMETRES

PAMICON DEVELOPMENTS LTD.

DRAWN	PROJECT	DATE	FIG.
		MARCH 84	1

2.0 LIST OF CLAIMS CONTINUED

Claim Name	Record No.	Record Date	No.of Units	Tag No.
B4	1833	April 2/81	16	15763
B5	1834	"	16	60953

Work filed with this report will hold the claims in good standing until April 2, 1986.

Claim posts examined in the field indicate that the claims were staked in accordance with the requirements of the B.C. Mineral Act.

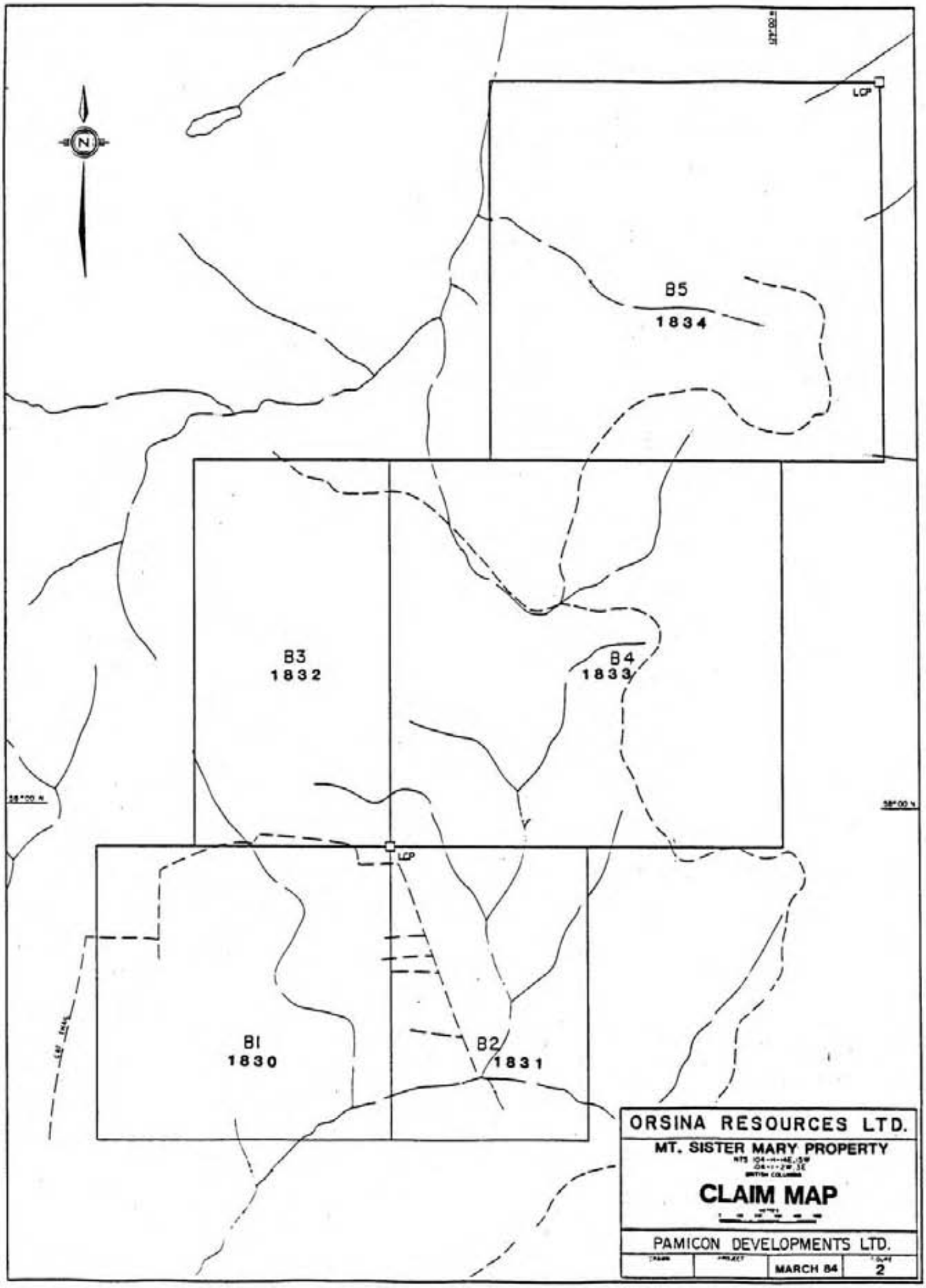
3.0 LOCATION, ACCESS AND GEOGRAPHY

The claims lie on NTS sheets 104.H.14E, 15W; 104.1.2W, 3E at approximately 58° 00' N latitude, 129° 00' W longitude. The property is 75 km southeast of the community of Dease Lake, B.C.; and approximately 50 km east of the Cassiar - Stewart Highway.

Access to the property is by fixed wing from Dease Lake to an unnamed pair of lakes (unofficially Forbidden Lakes) located 6 km north of the property, thence by foot or helicopter to the claims. There is also a winter caterpillar tote road to the property from the Cassiar-Stewart highway via the Stikine River.

The claims are underlain by a small mountain range approximately 6000 ft. A.S.L. at its highest point.

The slopes are rather steep but not rugged as tree line extends to the 5000 ft. level. Forest cover consists of spruce and balsam,giving way to dwarf balsam and grasses in the alpine.



ORSINA RESOURCES LTD.

MT. SISTER MARY PROPERTY

NTS 104-H-4E, 5W
104-H-12W, 13E
BRITISH COLUMBIA

CLAIM MAP

PAMICON DEVELOPMENTS LTD.

DRAWN	PROJECT	MARCH 84	FIGURE 2

3.0 LOCATION, ACCESS AND GEOGRAPHY

Water is plentiful in the streams at the base of the range; the highest dependable supply being at the 5000 ft. level on most parts of the claims. The claims are in the Stikine River drainage basin (Pacific).

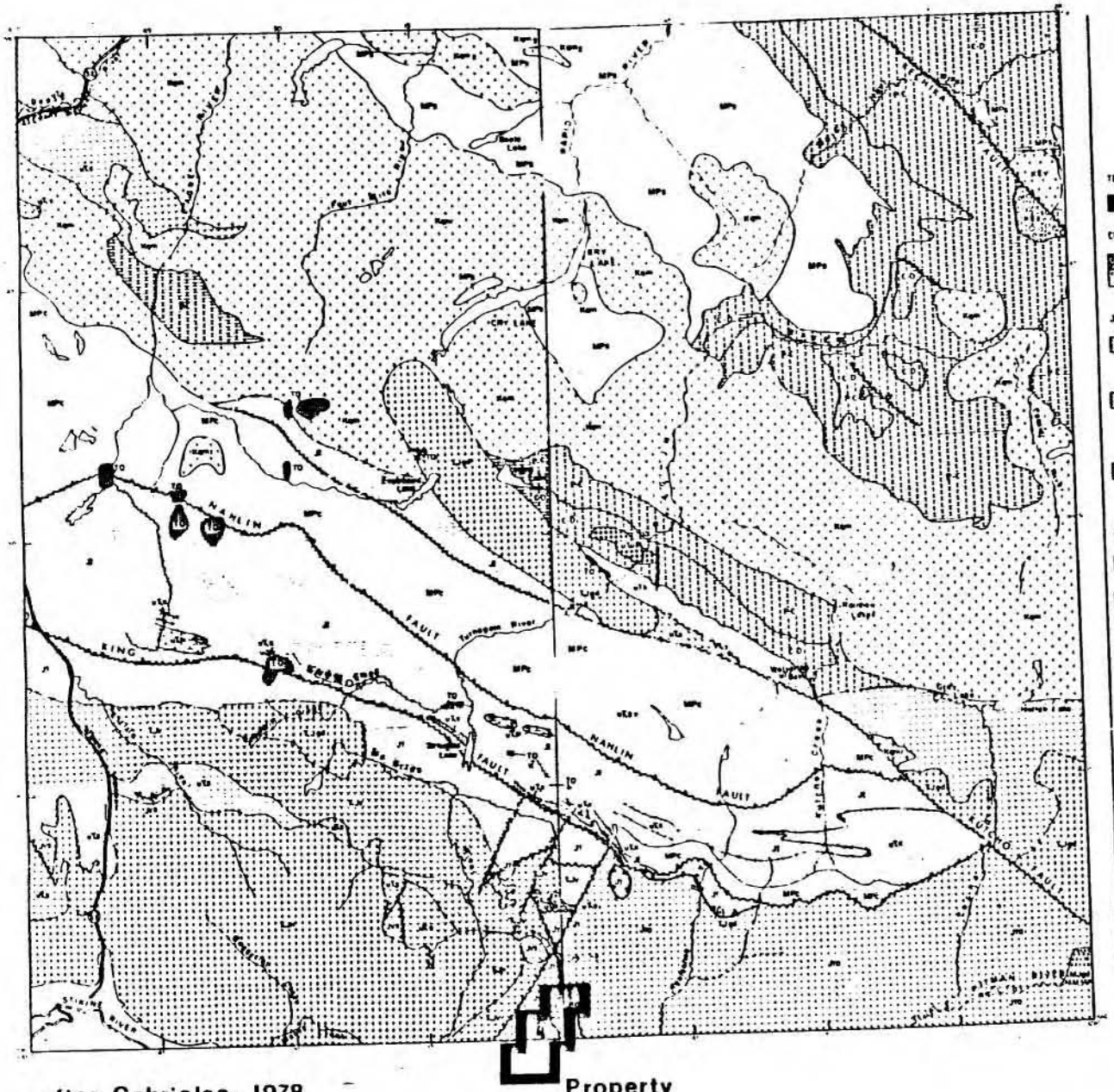
4.0 HISTORY

In the late 1960's, porphyry copper exploration programs located epithermal gold and silver occurrences in a belt of Jurassic volcanics and associated rocks located approximately 125 km to the southeast of the property. That area, now informally known as the "Toodoggone Gold Camp" has produced gold and silver from Dupont of Canada's Baker Mine. Several other projects in the Toodoggone area are at advanced stages of development. The B claims are underlain by the same type rocks. Previous exploration work was also carried out from 1968 to 1970 on copper-silver showings located on the property.

5.0 REGIONAL GEOLOGY

The geology of the Cry Lake sheet (Open File 610) was revised by the G.S.C. and is now available in paper 78-1A. A portion of this map is presented in Figure 3 of this report.

The area of interest lies within a discontinuous succession of strata bounded by the northwesterly trending King Salmon Thrust Fault to the north and northeast; and by the Triassic-Jurassic granodiorites of the Hotailuh batholith to the west and southwest. The King Salmon assemblage forming the upper plate of the King Salmon Thrust, ranges from the Mississippian/Permian Cache Creek Group to the lower Jurassic Inklin Formation.



after Gabrielse, 1978

Legend

Stratified Rocks

TERTIARY AND QUATERNARY

TO: Basalt; lava, tuff, agglomerate

CRETACEOUS(?) AND TERTIARY
UPPER CRETACEOUS(?) TO EOCENE(?)

KEo Conglomerate, sandstone, shale

KEv Rhyolite, pisolitic siliceous tuff, chalcedonic rhyolite breccia

JURASSIC
MIDDLE JURASSIC (mainly?)

Jmo "TOODOGGONE VOLCANICS": Mauve and green andesitic and dicitic volcanics; conglomerate, siltstone, shale

LOWER JURASSIC (mainly Toarcian)

JVR "TOODOGGONE VOLCANICS": Andesite, dacite, rhyolite, green and maroon feldspar porphyry, tuff, breccia; calcareous siltstone, silty limestone

LOWER JURASSIC (mainly Pliensbachian)

JLH INKLIN FORMATION: Greywacke, slate conglomerate (age range uncertain), locally includes TAKHAHORI FORMATION Greywacke, siltstone, argillite, conglomerate

TRIASSIC AND JURASSIC
UPPER TRIASSIC AND LOWER JURASSIC

TJv Andesitic green and maroon weathering volcanics

UPPER TRIASSIC

uTs STUHINI FORMATION: Augite porphyry, coarse-blocked feldspar porphyry; minor sedimentary rocks

uTsy SINWA FORMATION: Folid limestone; minor calcareous shale

uTs "KUTCHO FORMATION": Quartz-eye sericite schist, chlorite schist, breccia, conglomerate

MISSISSIPPIAN TO PERMIAN

MPc CACHE CREEK GROUP: Chert, shale, limestone, ultramafics, gabbro, diorite, basic volcanics

MPs SILVESTER GROUP: Chert, slate, limestone, ultramafics, gabbro, diorite, basic volcanics; lower part includes chert arenite and chert-pebble conglomerate

CAMBRIAN TO DEVONIAN

C-D Limestone, dolomite, sandstone, siltstone, shale; C-D, mainly black, carbonaceous phyllite, probably includes lower

PROTEROZOIC AND LOWER CAMBRIAN

P-C Limestone, sandstone, shale, grit and metamorphosed equivalents: P-C, mainly metamorphosed clastic rocks

Legend (cont.).

Intrusive Granitic Rocks

MID-CRETACEOUS (mainly)

Kgm CASSIAR BATHOLITH Quartz monzonite, minor granodiorite and diorite, locally foliated or megacrystic near contact, abundant metasedimentary inclusions near Eagle River, age uncertain.
Kgm, Kgmg in part dioritic

MID-JURASSIC(?)

Jdgd Granodiorite, leucocratic, pink, fine to medium grained

UPPER TRIASSIC AND LOWER JURASSIC (may include younger rocks in part)

TJm HOTAILUH Batholith Granodiorite, syenodiorite, gabbro

TJgd Hornblende diorite, quartz monzonite, in part foliated

Ultrabasic Rocks - Alaskan type

UPPER TRIASSIC(?)

uTu Dunite, peridotite, pyroxenite

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MT. SISTER MARY PROPERTY

REGIONAL GEOLOGY

PAMICON DEVELOPMENTS LTD.

DATE
MARCH 84

Fig.
3

In the area of interest, between the above two geologic boundaries, is contained a succession of volcanic and sedimentary island-arc environment rocks ranging in age from upper Triassic Sinwa Formation to middle Jurassic Hazelton group (in part "Toodoggone Volcanics"). The trend of these beds is generally northwesterly (parallel to King Salmon Thrust) but dips vary from southwesterly to northeasterly depending on local deformation. Deformation is thought to be related to the King Salmon Thrust.

There is a strong system of northeasterly trending block faulting cutting the area.

6.0 PROPERTY GEOLOGY

6.1 Introduction

The geology of the B area appears on Figure 3 of this report as part of the regional geology. More detailed mapping was carried out in thearea of the copper-silver occurrence and this mapping with associated assay values appears on Figure 4 of this report.

6.2 Stratigraphy and Lithology

The claims are underlain primarily by lower division Toodoggone volcanics of Lower Jurassic age. Rocks in this package are primarily green to grey to brown andesites as well as numerous other rock types including dacites, rhyolites, green and maroon feldspar porphyry,tuff, and breccia. These rocks may in part belong to the Lower Jurassic Telkwa formation.

The lower division is overlain at the higher elevations by relatively flat lying upper division Toodoggone volcanics and sediments. These are composed of two sequences of maroon to green to brown andesite and dacitic tuffs (in part waterlain) separated by a sequence of coarse conglomerates.

6.2 Stratigraphy and Lithology continued

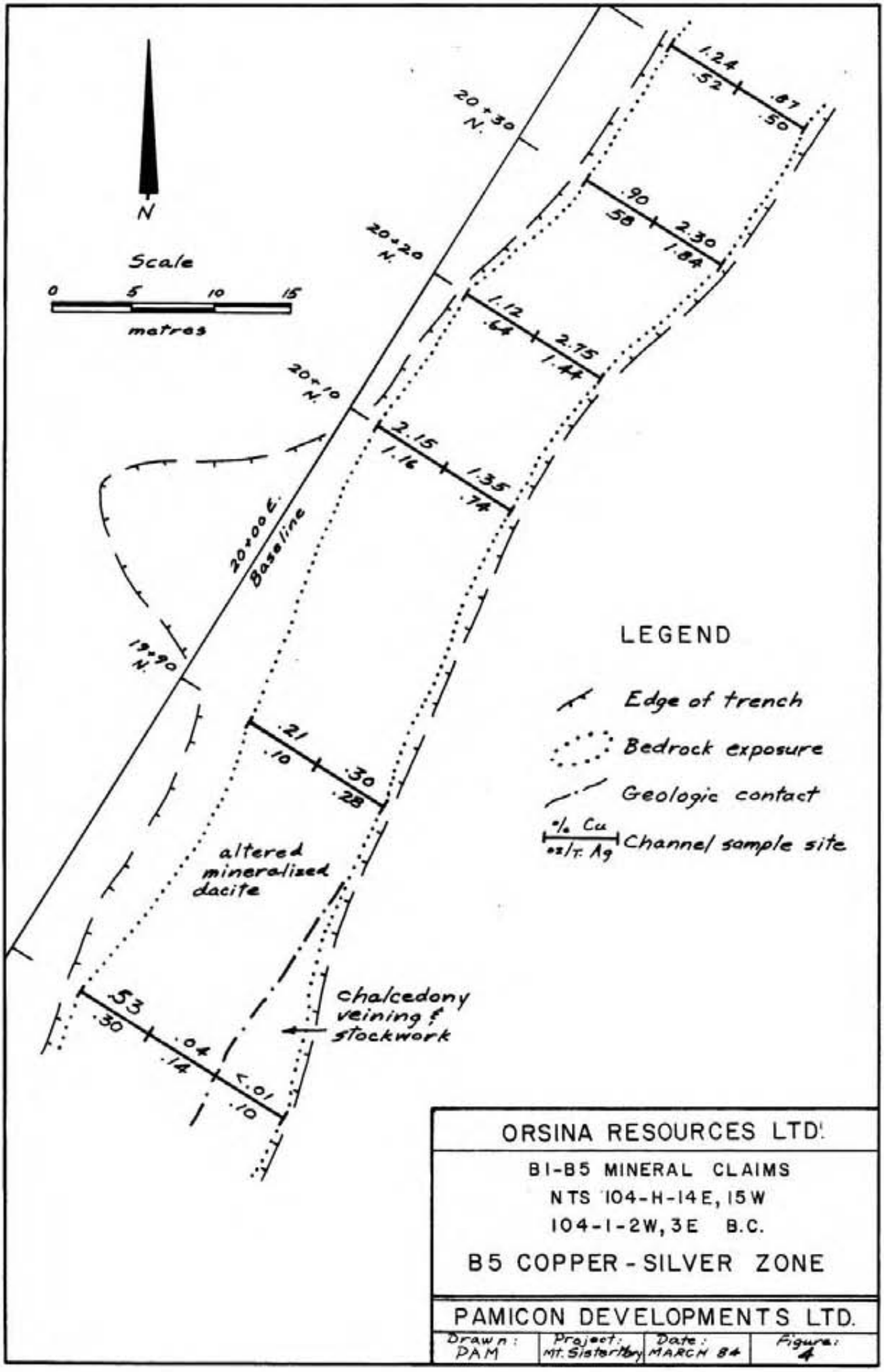
The lower division beds generally form deeply incised steep sided valleys, the upper division conglomerate beds are cliff forming and the upper division tuffs form alpine plateaus.

The copper-silver showing occurs in the lower volcanic beds.

6.3 Mineralization

The copper-silver showing is located at an elevation of approximately 5500 feet A.S.L. in the centre of the B5 mineral claim. The showing consists of copper-silver mineralization contained in the shear zone associated with a fault structure trending 032^{o} and dipping nearly vertically. The shear zone is 12 to 13 metres wide and is mineralized across its entire width by malachite, azurite, chrysocolla,other copper carbonates and chalcocite. Two 5 metre chip samples across the zone averaged 1.94 percent copper and 1.04 ounces per ton silver across 10.0 metres.

The host rock is a massive purple dacite porphyry. In the vicinity of the shear zone it is considerably altered and broken into coarse breccia fragments (up to 10 cm) surrounded and replaced by the copper mineralization. The dacite is extremely altered to a light pink to tan coloured rock showing "ghosts" of the original fragments. The alteration assemblage is primarily composed of clays, carbonates and silica. The silica is primarily found in fractures and microveinlets forming a quartz stockwork in portions of the rock and in one location consists of a pod of chalcedony measuring approximately 0.3 metres by 4.0 metres lying in one wall of the structure. This alteration assemblage is typical of the upper levels of alteration of epithermal vein systems that commonly host precious metal concentrations at slightly greater depths.


N
Scale
0 5 10 15
metres
20+30 N.
20+20 N.
20+10 N.
20+00 E. Baseline
19+90 N.
1.24
.52
.87
.50
.90
.58
2.30
1.84
1.12
.64
2.75
1.44
2.15
1.16
1.35
.74
.21
.10
.30
.28
altered mineralized dacite
chalcedony veining & stockwork
53
.30
.04
.14
<.01
.10
LEGEND
Edge of trench
Bedrock exposure
Geologic contact
% Cu
oz/T. Ag
Channel sample site
ORSINA RESOURCES LTD.
B1-B5 MINERAL CLAIMS
NTS 104-H-14E, 15W
104-I-2W, 3E B.C.
B5 COPPER-SILVER ZONE
PAMICON DEVELOPMENTS LTD.
Drawn: PAM
Project: Mt. Sisterbay
Date: MARCH 84
Figure: 4

6.3 Mineralization continued

The copper mineralization is exposed for a length of 185 metres along strike, however, the fault structure can be traced on air-photos for a distance of at least 2 kilometres. This strength and continuity indicates the potential for persistence to the moderate depth required to reach the precious metals level of a typical epithermal system. Channel sampling was carried out across the shear zone at 10 metre and 20 metre intervals for a distance of 70 metres along the strike. Samples were 5 metres in length and the zone was consistently 10 metres wide. The samples were fire assayed and the results plotted on Figure 4 of this report. Copper values ranged up to a high of 2.75% across five metres and silver values up to a high of 1.84 ounces per ton across the same width.

Several other showings were encountered on the property that consisted primarily of minor traces of chalcocite or chalcopyrite on thin fracture faces. One other showing of note occurred in the northwest part of the B4 mineral claim and consisted of bornite, chalcocite, malachite, and chrysocolla hosted by vescicles and fractures in andesite flow tops.

7.0 GEOCHEMISTRY

7.1 Soil Geochemistry

A total of 105 soil samples and two heavy sediment samples were taken on the property. Soil samples were taken from B - horizon material and placed in numbered kraft envelopes. Locations were marked using correspondingly numbered strips of plastic flagging and plotted using aerial photographs. Samples were air dried in camp prior to shipment at Acme Analytical Laboratories Ltd. in Vancouver, B.C.

7.1 Soil Geochemistry continued

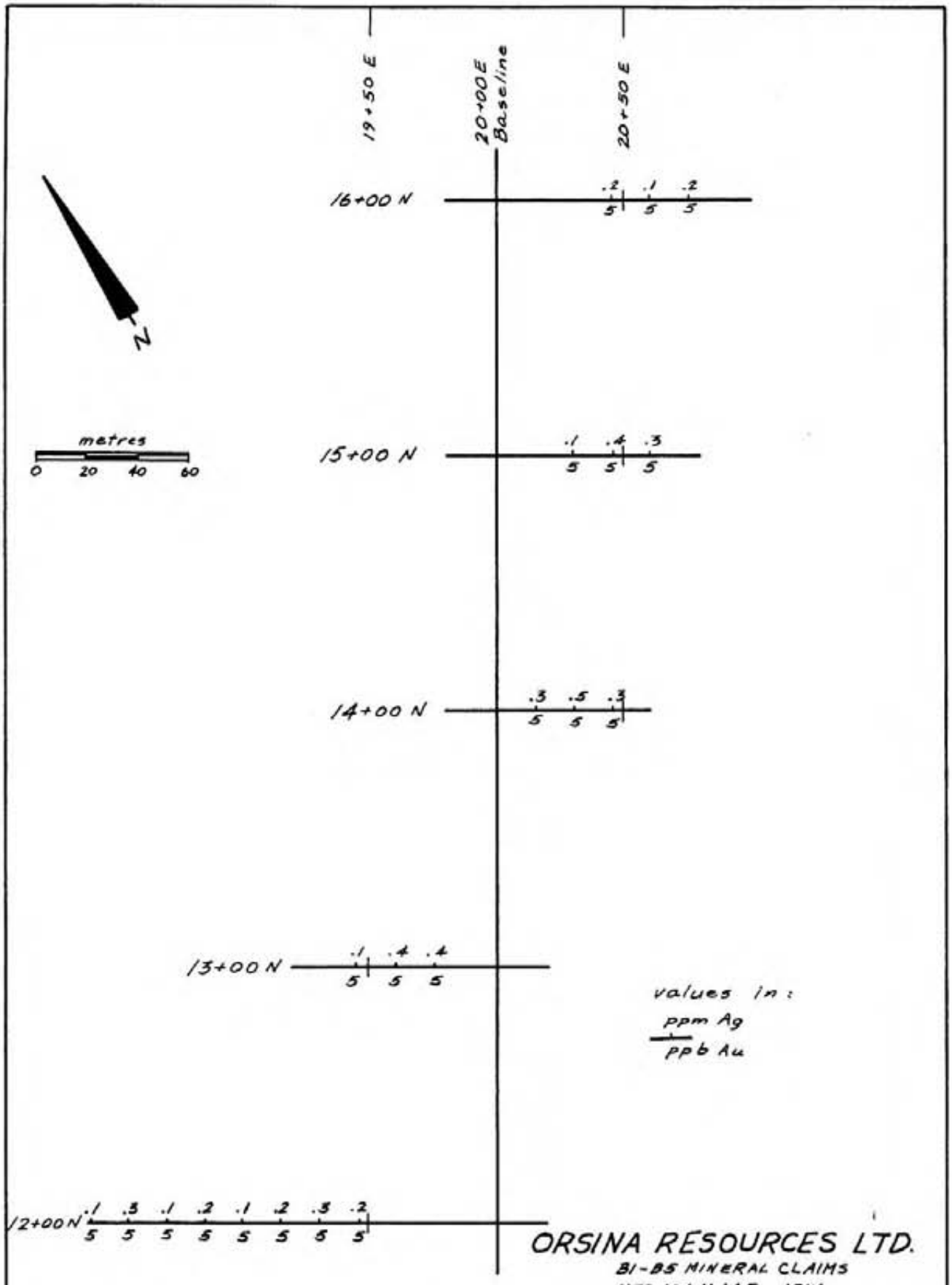
Upon receipt at Acme, the soil samples were further dried then seived through an ASTM 80 mesh screen. The -80 fraction was dissolved using a perchloric-nitric acid extraction (agua regia for gold) and levels of silver and gold were determined using standard atomic absorption techniques.

Heavy sediment samples were taken from sediments in the active part of streams, screened to -20 mesh and simultaneously panned beneath the water surface, after which the heavy fraction was placed in numbered kraft envelopes. Locations were marked using correspondingly numbered strips of plastic flagging and plotted using aerial photographs. Samples were air dried in camp prior to shipment to Acme Analytical Laboratories of Vancouver, B.C. Upon receipt at Acme the samples were further washed by flotation at 3.10 specific gravity and the magnetic fraction removed. The heavy concentrates were then analysed by standard geochemical atomic absorption techniques.

Soil samples were taken on two contour lines as shown on Figure 5. The lines were placed so as to traverse downhill from the surface trace of the dacite porphyry unit and detect any sources of gold within it. No anomalous concentrations were detected. Samples were also taken on a grid basis along the strike length of the shear zone running through the B5 copper-silver showing as shown in figures 5 and 7. No anomalous values were detected. The heavy sediment sample locations are shown on figure 5. No anomalous values were detected.

7.2 Rock Chip Geochemistry

Seventy-nine rock chip geochemical samples were collected on the property.



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BI-BS MINERAL CLAIMS
NTS 104-H-14E, 15W
104-I-2W, 3E B.C.

Ag & Au in SOILS

PAMICON DEVELOPMENTS LTD. FIG. 7
MARCH 84

7.2 Rock Chip Geochemistry

Samples consisted of approximately twenty-five rock chips about one to two cubic centimetres in size taken from outcrop over areas ranging from one square metre to three square metres. The samples were placed in numbered poly sample bags and shipped to Acme Analytical Laboratories in Vancouver. Sample sites were marked with correspondingly numbered strips of plastic flagging and plotted on aerial photographs.

Upon receipt at Acme Labs the samples were crushed and subsampled if necessary. They were then pulverized in a ring grinder to approximately -100 mesh. Samples were dissolved using a perchloric-nitric acid extraction and analysed for copper, molybdenum, lead, zinc, silver and gold (aqua regia extraction) using stand atomic absorption techniques.

Sample locations and values are plotted on Figure 6.

The purple dacite porphyry unit was traced out for its entire length and prospected in detail. The unit was intersected at many locations by northeasterly trending shear zones and at several locations by northwesterly trending shear zones. Where shearing was strong, alteration identical to the copper-silver show was always evident and brecciation with chalcedony flooding was common. Typically the brecciation involved zones 10 metres wide hosting coarse stockwork style veining that included one metre wide intensely brecciated areas with one centimetre size fragments in a chalcedony matrix making up over 50% of the rock. Occasional pods of chalcocite and malachite were seen in the altered areas but none of the samples collected contained more than trace amounts of gold.

8.0 GEOPHYSICS

A Geonics EM-16 VLF unit was utilized to test the strike extensions of the shear zone hosting the B5 copper-silver showing. The In-phase and quadrature profiles are shown on Figure 8-11. Two channels were used for the survey; Seattle, Washington and Cutler, Maine. In the case of both frequencies, the structure did not always exhibit the classic profile crossover response of a good EM conductor. The profiles generally indicated the location of the structure by convergence of the lines or by inflections of slope or curvature. The Cutler frequency generally gave more positive response than Seattle. In general, it appears that the technique could be useful in tracing strike extensions for short distances under overburden but would not be useful as a reconnaissance tool to discover complete hidden zones. It would be useful however, to equip future programs with an EM-16 unit for tracing extensions of structures.

9.0 DISCUSSION AND CONCLUSIONS

a) The northern portion of the Mt. Sister Mary property is underlain by rocks of the age and type that commonly host precious metal deposits in the Toodoggone River district. On the property, these rocks exhibit alteration and mineralization commonly associated with precious metal deposits; however, no significant gold or silver mineralization has been discovered in outcrop to date.

b) In the area explored to date, the structure hosting the B5 copper-silver showing has shown the strongest mineralization and continuity. This structure has good exploration potential for hosting a precious metal zone at some depth below the present outcrop level. Detailed petrographic studies followed by drilling will be required to prove or disprove this model.

9.0 DISCUSSION AND CONCLUSIONS CONTINUED

c) The rest of the Mt. Sister Mary property is underlain by rocks of the same type and age as the portion explored to date. The precious metals exploration potential of this ground is good and has not been investigated. A program of mapping, prospecting, sampling, and possible hand trenching would adequately explore this potential.

10.0 RECOMMENDATIONS

The following work program is recommended for the BI-B5 mineral claims.

a) Petrographic analysis should be done on a representative suite of rocks from the main showing in order that the exact alteration mineral assemblage can be established. By comparing the alteration pattern with known gold and silver producing epithermal systems, an idea of the depth to the precious metal level can be arrived at.

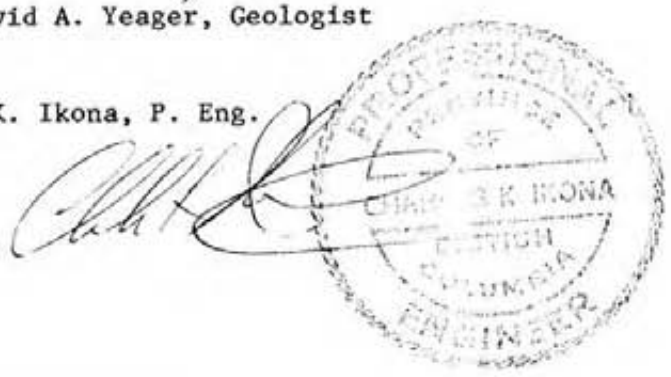
b) Geologic mapping at a scale of 1:10,000 in conjunction with visual prospecting, sampling & trenching should discover any other mineralized systems on the property.

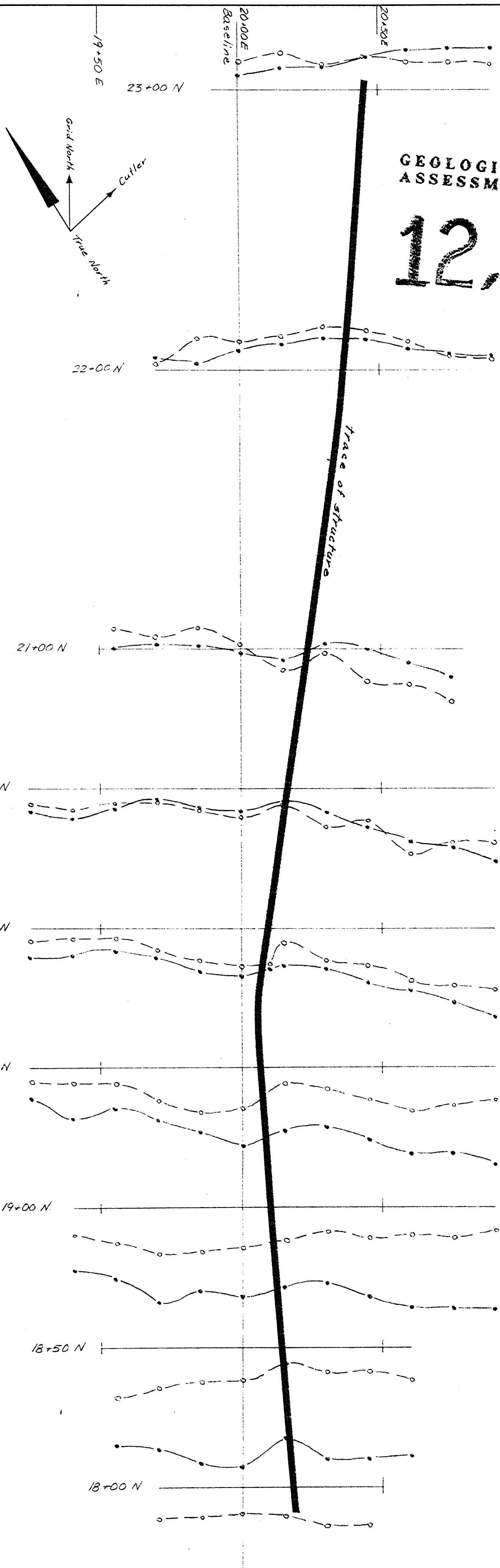
Respectfully submitted,

David A. Yeager

David A. Yeager, Geologist

C.K. Ikona, P. Eng.





LEGEND

- • in phase (dip angle)
- o quadrature
- -readings taken facing west

SCALES

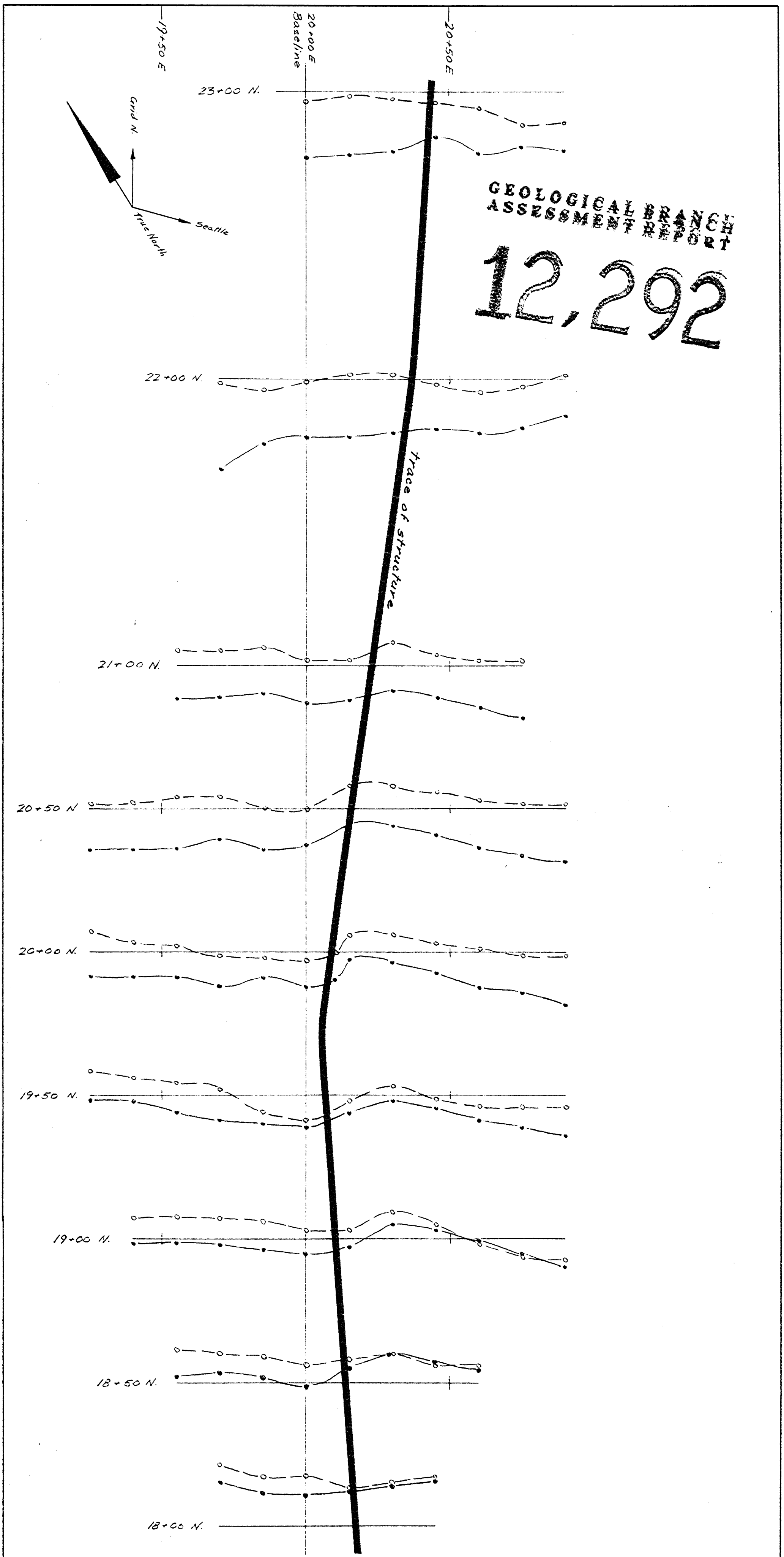
degrees — vertical
0 10 20 30

metres — horizontal
0 10 20 30

ORSINA RESOURCES LTD.
B1-B5 MINERAL CLAIMS
NTS 104·H·14E, 15W
104·I·2W, 3E B.C.

EM-16 VLF PROFILES

PAMICON DEVELOPMENTS LTD. FIG. 8
MARCH 84



LEGEND

- • in phase (dip angle)
- o quadrature
- -readings taken facing west

SCALES

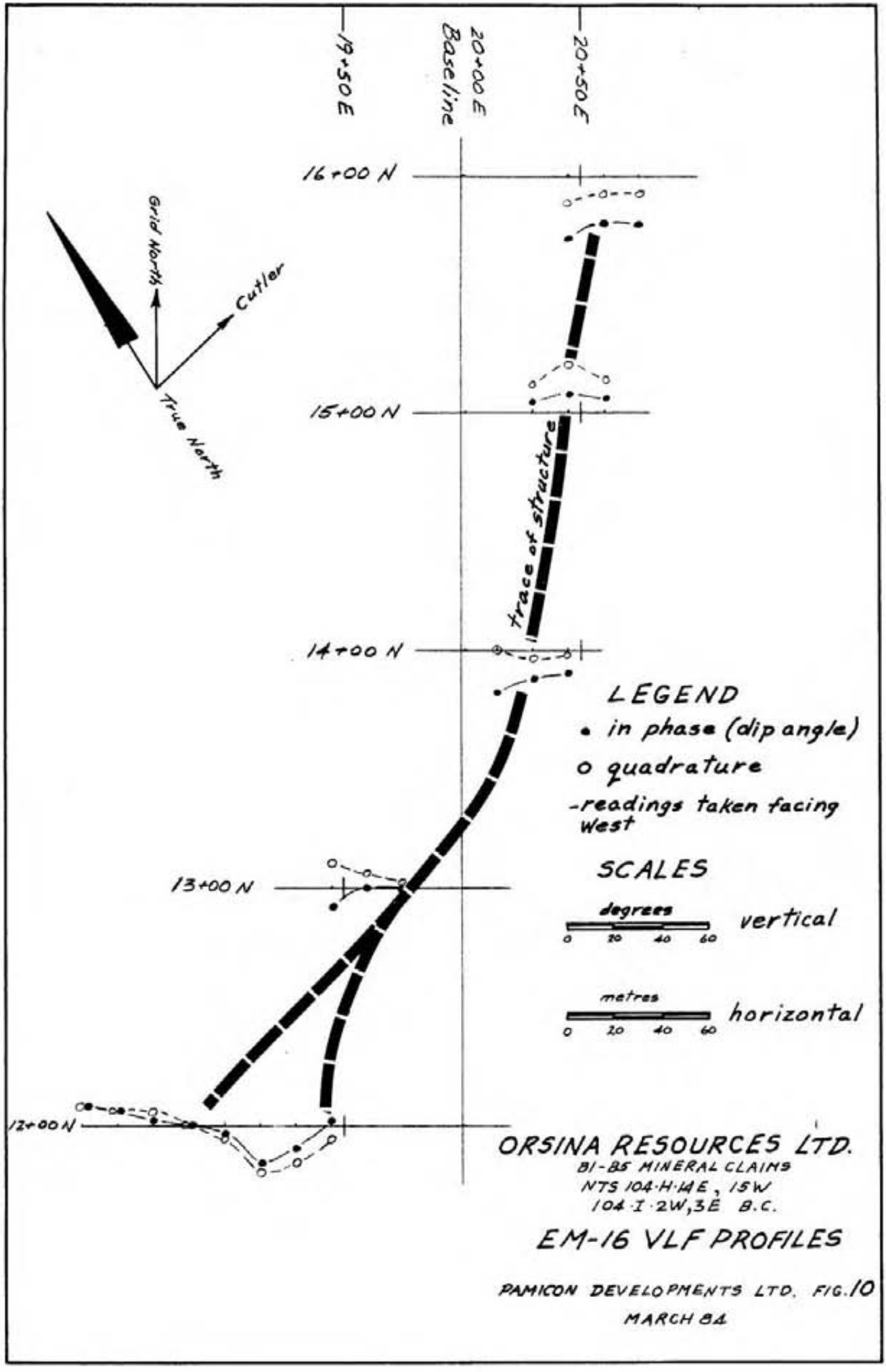
degrees — vertical
0 10 20 30

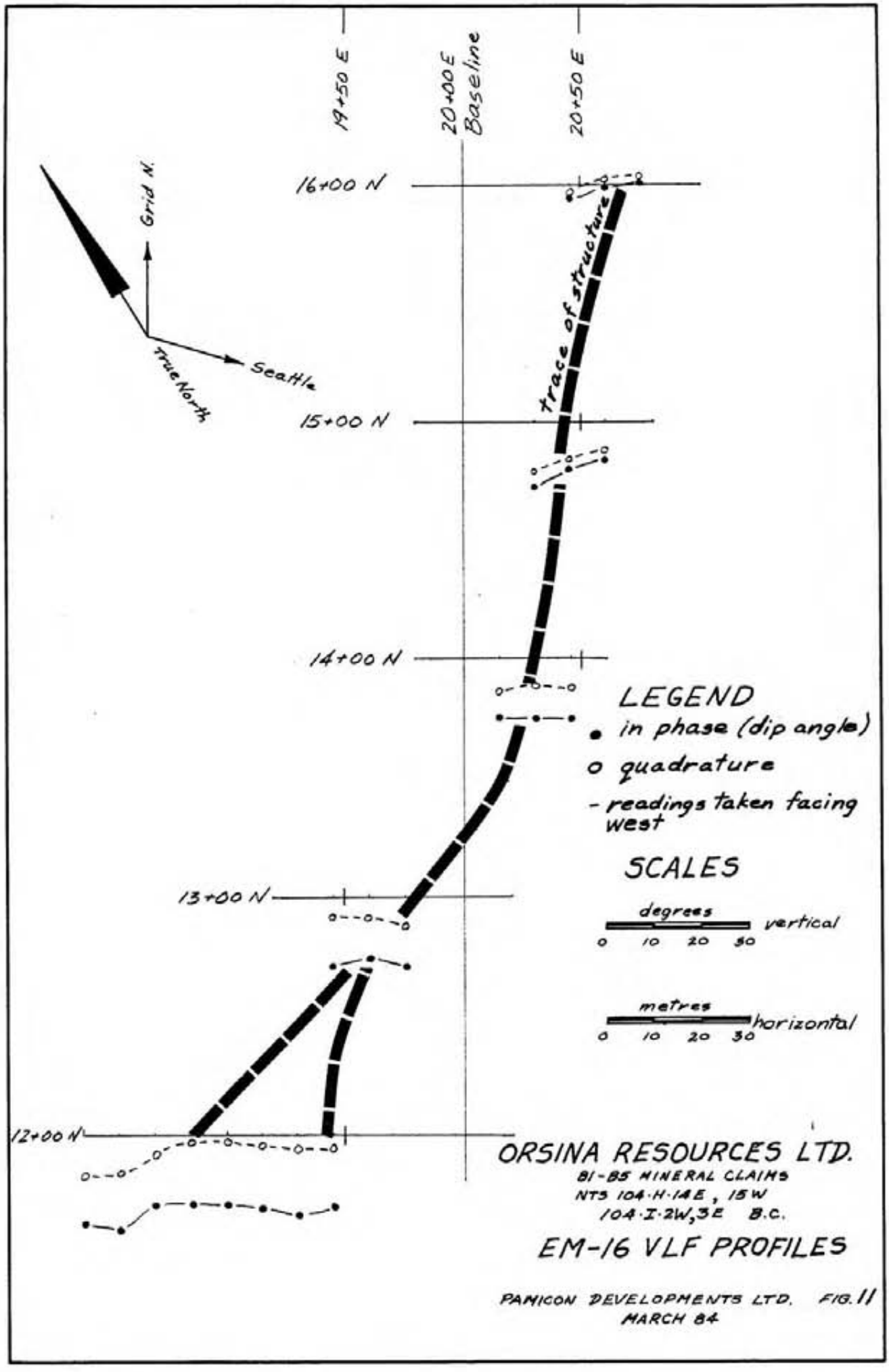
metres — horizontal
0 10 20 30

ORSINA RESOURCES LTD.
B1-B5 MINERAL CLAIMS
NTS 104-H-14E, 15W
104-I-2W, 3E B.C.

EM-16 VLF PROFILES

PAMICON DEVELOPMENTS LTD. FIG. 9
MARCH 84


19+50 E
20+00 E
Baseline
20+50 E
16+00 N
15+00 N
14+00 N
13+00 N
12+00 N
Grid North
Cutler
True North
trace of structure
LEGEND
• in phase (dip angle)
o quadrature
-readings taken facing West
SCALES
degrees
0 20 40 60
vertical
metres
0 20 40 60
horizontal
ORSINA RESOURCES LTD.
81-85 MINERAL CLAIMS
NTS 104·H·14E, 15W
104·I·2W,3E B.C.
EM-16 VLF PROFILES
PAMICON DEVELOPMENTS LTD. FIG.10
MARCH 84


19+50 E
20+00 E
Baseline
20+50 E
16+00 N
15+00 N
14+00 N
13+00 N
12+00 N
Grid N.
True North
Seattle
trace of structure
LEGEND
• in phase (dip angle)
o quadrature
- readings taken facing west
SCALES
degrees
0 10 20 30
vertical
metres
0 10 20 30
horizontal
ORSINA RESOURCES LTD.
81-85 MINERAL CLAIMS
NTS 104-H-14E, 15W
104-I-2W, 3E B.C.
EM-16 VLF PROFILES
PAMICON DEVELOPMENTS LTD. FIG. 11
MARCH 84

APPENDIX I

LIST OF REFERENCES

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1983: A Report on the Mt. Sister Mary Property

APPENDIX II

CERTIFICATE OF QUALIFICATION

I, DAVID A. YEAGER, of Bowen Bay Road, Bowen Island, in the Province of British Columbia, DO HEREBY CERTIFY THAT:

1. I am a Geologist in the employment of Pamicon Developments Ltd. with offices at #215-543 Granville St. Vancouver, B.C.

2. I am a graduate of the University of British Columbia with a Bachelor of Science Degree in Geology.

3. My primary employment since 1969 has been in the field of mineral exploration, mainly as a Field and Project Geologist.

4. My experience has encompassed a wide range of geologic environments and has allowed considerable familiarization with geophysical, geochemical and diamond drilling techniques.

5. This report is based on data generated by work supervised by me and on visits to the BI-B5 Mineral Claims during the month of September 1983.

DATED at Vancouver, British Columbia, this 6 day of June, 1984

David A. Yeager

David A. Yeager
Geologist

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DATED at Vancouver, British Columbia, this 6 day of June, 1984

David A. Yeager

David A. Yeager
Geologist

APPENDIX III

ENGINEERS CERTIFICATE

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

1. I am a Consulting Mining Engineer with offices at 208 - 850 West Hastings Street, Vancouver, B.C.

2. I am a graduate of the University of British Columbia with a degree in Mining Engineering.

3. I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.

4. I have not examined the property reported on herein however, the field examination was conducted by David A. Yeager, a Geologist whom I have known and worked with for nine years and in whom I have every confidence.

DATED at Vancouver, British Columbia, this 12th day of June/81

Charles K. Ikona, P. Eng.

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
CHARLES K. IKONA

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH:253-3158 TELEX:04-53124

DATE RECEIVED OCT 11 1983

DATE REPORTS MAILED Oct 19/83

GEOCHEMICAL ASSAY CERTIFICATE

A .500 GM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.
THE SAMPLE IS DILUTED TO 10 MLS WITH WATER. ELEMENTS ANALYSED BY AA : AG.
SAMPLE TYPE : P1-3 SOIL P4-6 ROCK P7 HEAVY MINERAL
AU* - 10 GM, IGNITED, HOT AQUA REGIA LEACH MIBK EXTRACTION, AA ANALYSIS.

ASSAYER _____ DEAN TOYE, CERTIFIED B.C. ASSAYER

PAMICON DEVELOPMENTS PROJECT # MT.SIS MARY FILE # 83-2503 PAGE# 1

SAMPLE	AG PPM	AU* PPB
83-21	.2	5
83-22	.6	10
83-23	.3	5
83-24	.2	5
83-25	.1	5
83-26	.1	5
83-27	.2	5
83-28	.2	5
83-29	.1	5
83-30	.2	5
83-31	.2	5
83-32	.1	5
83-33	.1	5
83-34	.2	5
83-35	.4	5
83-36	.2	5
83-37	.1	5
83-38	.1	5
83-39	.2	5
83-40	.3	5
83-41	.4	5
83-42	.3	5
83-43	.5	5
83-44	.4	5
83-45	.3	5
83-46	.4	5
83-47	.4	5
83-48	.2	5
83-49	.1	5
83-50	.1	5
83-51	.3	5
83-52	.2	5
83-53	.3	5
83-54	.1	5
83-55	.3	5
83-56	.4	5
83-57	.1	5

SAMPLE	AG PPM	AU* PPB
83-58	.3	5
83-59	.4	5
83-60	.1	5
83-61	.2	5
83-62	.1	5
83-63	.1	5
83-64	.2	5
83-65	.1	5
83-301	.2	5
83-302	.4	5
83-303	.1	5
83-304	.4	5
83-305	.1	5
83-306	.3	5
83-307	.2	5
83-308	.1	5
83-309	.3	10
83-310	.1	5
83-311	.3	5
83-312	.2	5
83-313	.1	5
83-314	.2	5
83-315	.1	5
83-316	.1	5
83-317	.1	5
83-318	.1	5
83-319	.2	5
83-320	.3	5
83-321	.1	5
83-322	.2	5
83-323	.4	5
83-324	.2	5
83-325	.1	5
83-326	.6	5
83-327	.2	5
83-328	.3	5
83-329	.2	5

SAMPLE	AG PPM	AU* PPB
83-330	.3	5
83-331	.4	10
83-332	.1	5
83-333	.4	5
83-334	.3	5
83-335	.2	5
83-336	.3	5
83-337	.5	5
83-338	.5	5
83-339	.4	5
83-340	.2	5
16N 20+60E	.1	5
16N 20+75E	.2	5
16N 20+45E	.2	5
15N 20+45E	.4	5
15N 20+60E	.3	5
15N 20+30E	.1	5
14N 20+15E	.3	5
14N 20+30E	.5	5
14N 20+45E	.3	5
13N 19+45E	.1	5
13N 19+60E	.4	5
13N 19+75E	.4	5
12N 18+40E	.1	5
12N 18+55E	.3	5
12N 18+70E	.1	5
12N 18+85E	.2	5
12N 19E	.1	5
12N 19+15E	.2	5
12N 19+30E	.3	5
12N 19+45E	.2	5
83-013	.5	5
83-143	.3	5

SAMPLE	AG PPM	AU* PPB
83-1	.1	5
83-2	.1	5
83-3	.1	5
83-4	74.0	140
83-5	.1	5
83-6	.9	5
83-7	.1	5
83-8	.1	5
83-9	.1	5
83-10	.3	5
83-11	37.0	5
83-12	.3	5
83-14	.5	5
83-15	68.0	5
83-16	.5	5
83-17	.1	5
83-18	.2	5
83-19	.3	5
83-20	.4	5
83-101	.1	5
83-102	.1	5
83-103	.4	5
83-104	.1	5
83-105	.1	5
83-106	.1	5
83-107	.1	5
83-108	.2	5
83-109	.1	5
83-111	.3	5
83-112	.2	10
83-113	.1	5
83-114	.1	5
83-115	.2	5
83-116	.1	5
83-117	.2	5
83-118	.1	5
83-119	.1	5
83-120	.3	5

Ag with values greater than 30 require regular Assay.

SAMPLE	AG PPM	AU* PPB
83-121	.1	5
83-122	39.0	5
83-123	.4	5
83-124	.1	5
83-125	.3	5
83-126	.1	5
83-127	.5	5
83-128	.1	5
83-129	.1	5
83-130	.1	5
83-131	.1	5
83-132	.1	5
83-133	.1	5
83-134	.1	5
83-135	2.4	5
83-136	.1	5
83-137	.1	5
83-138	.1	5
83-139	.1	5
83-140	.1	5
83-141	.2	5
83-142	.1	5
83-144	.1	5
83-145	.1	5
83-146	.7	5
83-147	.6	5
83-148	.5	5
83-149	.4	5
83-150	.1	5
83-151	.1	5
83-152	.4	5
83-153	.1	5
83-154	.1	5
83-155	3.6	5
83-156	2.4	20
83-157	.1	5

SAMPLE	AG PPM	AU* PPB
83-201	.1	5
83-202	.2	5
83-203	.1	5
83-204	.1	5
83-205	.1	5

SAMPLE	AG PPM	AU* PPB	HM gm	HM %
83-66	7.6	5	4.57	.62
83-67	8.2	5	10.21	1.50

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

TO : PAMICON DEVELOPMENTS LIMITED

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

CERT. # : A8315559-001-A
INVOICE # : I8315559
DATE : 19-OCT-83
P.O. # : NONE
SISTER MARY

Sample description	Prep code	Cu %	Ag FA oz/T	Au FA oz/T			
95704	207	2.15	1.16	<0.003	--	--	--
95705	207	1.35	0.74	<0.003	--	--	--
95706	207	1.12	0.64	<0.003	--	--	--
95707	207	2.75	1.44	<0.003	--	--	--
95708	207	0.90	0.58	<0.003	--	--	--
95709	207	2.30	1.84	<0.003	--	--	--
95710	207	1.24	0.52	<0.003	--	--	--
95711	207	0.87	0.50	<0.003	--	--	--
95712	207	0.21	0.10	<0.003	--	--	--
95713	207	0.30	0.28	<0.003	--	--	--
95714	207	0.53	0.30	<0.003	--	--	--
95715	207	0.04	0.14	<0.003	--	--	--
95716	207	<0.01	0.10	<0.003	--	--	--

B. Swaine

Registered Assayer, Province of British Columbia

"B" Group

MOUNT SISTER MARY

WAGES

David A. Yeager, Geologist
215-543 Granville St.
Vancouver, B.C.

August 1, & 30 - .5 days
Sept. 1,6,8,10-15 - 8.25 days
Oct. 1 - 1 day
Jan. 31 - 1 day
Feb. 9,13,14,15 - 2 days-12.75 days @250/= $3,187.50

Kelly Kaye , Prospector
215-543 Granville St.
Vancouver, B.C.

Sept. 6, 7, 9-15
10 days @ $100.00/day $1,000.00

N. Deboch, Prospector
RR #1
Clearwater, B.C.

Sept. 9-15 - 8 days
Oct. 1,2 - 2 days
10 days @ $125.00/day $1,250.00

E. Deboch , Prospector
R.R.#1, Clearwater

Sept. 9-15,30 (8 days)
Oct. 1,2 - (2 days)
10 days @ $125.00/day $1,250.00

D. Fulcher, Project Manager
215-543 Granville St.
Vancouver, B.C.

Jan. 9,10 - 2 days
Feb. 9 - 1 day
3 days @ $150.00/day $ 450.00

$7,137.50

COMMUNICATION & TELEPHONE		
B.C. Tel - Sept. 1983		82.62
TRAVEL & ACCOMODATION		
MacDonald Travel David Yeager - airfare Sept. 6/83 - Invoice #22871	208.02	
Kelly Kaye expenses	46.31	
Elmer Deboch expenses	206.35	
David Yeager expenses	318.20	778.88
AUTO EXPENSES		
Truck rental 3 days @ $50.00/day	150.00	
Fuel	182.49	
Misc.	22.22	
Budget Rent-A-Car (Terrace) Invoice #4490	24.89	379.60
AVIATION EXPENSE		
Air B.C. Ltd. Invoice #1262	341.95	
Frontier Helicopter Invoice # 5244 & 5208 2.2 hrs. @ $425.00/hr. .3 hrs. @ $1,150.00/hr Fuel	 935.00 345.00 240.14	
B.C. Yukon Air Invoice #3639	198.00	$2,060.09
OUTSIDE REPRODUCTION		
Western Reproducers #78040	1.73	
Misc.	24.08	25.81

COMMERCIAL FREIGHT

CP Air - Equipment to Terrace Invoice #27790770	132.05	
Air Canada Invoice #255902013	38.41	$ 170.46

CAMP EQUIPMENT

Deakin Equipment Invoice #57888	21.08	
Northwest Pipe & Equipment Invoice #4936	57.24	
Elden Exploration	10.50	88.82

CAMP FOOD

South Dease Service Invoice #14905	549.08	549.08

EQUIPMENT RENTAL

Saw Rental 4 days @ 10.00/day	40.00	
Pump Rental 8 days @ 10.00 /day	80.00	
Geonics Limited 1 EM 16 E19004 Invoice #11059 (Sept. 7 - Oct.11/83)	775.00	895.00

ASSAY & GEOCHEM

Acme Analytical Labs Invoice #83-2503		
107 Soil Samples (Au. Ag.) @ 6.10 per sample	652.70	
81 Rock samples (Au. Ag.) @ 8.10 per sample	656.10	
2 heavy mineral samples @ 11.25 per sample	22.50	

Chemex Labs Ltd.
Invoice #18315559

13 samples for Cu, Ag. Au. @ 19.50 per sample	253.50	$1,584.80
Report & Maps		2,000.00
Management Fee		2,362.90
TOTAL		$18,115.56

129°00'W.

N

7.6 5

8.2 5

20+00 N

18+00 N

16+00 N

14+00 N

12+00 N

Baseline
20+00E

58°00'N.

58°00'N.

LEGEND

□ Heavy sediment site

o Soil sample site

VALUES

ppm Ag o ppb Au

ORSINA RESOURCES LTD.

B1 - B5 MINERAL CLAIMS
NTS 104-H-14E, 15W
104-I-2W, 3E B.C.

GEOCHEMICAL SURVEY

SCALE
0 100 200 300 400 500 metres

PAMICON DEVELOPMENTS LTD.

DRAWN	PROJECT	DATE	FIGURE
PAM	MT. SISTER MARY	MARCH 1984	5

N

129°00'W.

58°00'N.

Baseline
20+00 E

12+00 N
14+00 N
16+00 N
18+00 N
20+00 N.

LEGEND

Rock chip sample site

△ ppm Ag, ppb Au

ORSINA RESOURCES LTD.

B1-B5 MINERAL CLAIMS
NTS 104-H-14E, 15W
104-I-2W, 3E B.C.

GEOCHEMICAL SURVEY

SCALE
0 100 200 300 400 500 metres

PAMICON DEVELOPMENTS LTD.

DRAWN	PROJECT	DATE	FIGURE
PAM	MT. SISTER HARY	MARCH 1984	6