87-510-16200

MPH

REPORT ON PHASE II
GEOLOGY, GEOCHEMISTRY AND GEOPHYSICS
ON THE 8/88

MNS PROPERTY (MYRA AND NEVER SWEAT CLAIMS)

VICTORIA MINING DIVISION, B.C.
48° NTS M92B/13W
48°51'N LATITUDE 123°~~57'~~ 56'36" W LONGITUDE
FOR
Operator: INTERNATIONAL CHEROKEE DEVELOPMENTS LTD.
JULY 30, 1987
G. J. ALLEN, P.Geol.

Owner(s): M. Swetz, A. Argus, International Cherokee Developments Ltd.

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources
MINERAL RESOURCES DIVISION — TITLES BRANCH

MINERAL ACT

STATEMENT OF EXPLORATION AND DEVELOPMENT

I, Gordon Allen (Name)
c/o 331 St. Julian Street, (Address)
Duncan, B.C.
V9L 1M3 (Postal Code) 748-3183 (Telephone Number)

Valid subsisting FM C. No. 279524 (ALLEGJ)

Agent for International Cherokee Developments Ltd.
M. Swetz and A. Angus (Name)
c/o 402-1208 Wharf Street, (Address)
Victoria, B.C.
V8W 3B9 (Postal Code) 388-6258 (Telephone Number)

Valid subsisting FM.C No 299953 (SWETM) 296160 (ANGUAE)

STATE THAT

1 I have done, or caused to be done, work on the Myra and Never Sweat Claims (MNS Group) Claim(s)

Record No(s) Myra - 1620(1), Never Sweat - 1568(9)

Situate at Chemainus River Valley in the Victoria Mining Division,

to the value of at least 30,000 dollars. Work was done from the 3rd day

of May 19 87, to the 30th day of July 19 87

2 The following work was done in the 12 months in which such work is required to be done

[COMPLETE APPROPRIATE SECTION(S) A, B, C, D, FOLLOWING]

A. PHYSICAL (Trenches, open cuts, adits, pits, shafts, reclamation, and construction of roads and trails)

(Give details as required by section 13 of regulations)

	COST
TOTAL PHYSICAL	

I wish to apply $ of physical work to the claims listed below

(State number of years to be applied to each claim, its month of record, and identify each claim by name and record number)

B. PROSPECTING (Details in report submitted as per section 9 of regulations)
(The itemized cost statement must be part of the report)

COST

I wish to apply $ of this prospecting work to the claims listed below.

(State number of years to be applied to each claim, its month of record, and identify each claim by name and record number)

(For C and D sections please turn over)

C. DRILLING (Details in report submitted as per section 8 of regulations.) (The itemized cost statement must be part of the report.)

COST

D. GEOLOGICAL, GEOPHYSICAL, GEOCHEMICAL

(Details in report submitted as per section 5, 6, or 7 of regulations.)
(The itemized cost statement must be part of the report.)
(State type of work in space below.)

Geological Mapping, Soil Geochemical Survey, VLF-EM Survey

	TOTAL OF C AND D	30,000

Where the above statement requires a technical report as per section C of the Mineral Act Regulations, the author of the report shall complete both copies of the ASSESSMENT REPORT TITLE PAGE AND SUMMARY form and include the completed forms in the assessment reports.

Who was the operator (provided the financing)?

Name International Cherokee Developments Ltd.

Address 402-1208 Wharf Street
Victoria, B.C., V8W 3B9

Portable Assessment Credits (PAC) Withdrawal Request

Amount to be withdrawn from owner(s) or operator(s) account(s):

Name of Owner/Operator	AMOUNT
1.	
2.	
3.	
TOTAL WITHDRAWAL	
TOTAL OF C AND (OR) D PLUS PAC WITHDRAWAL	

[May be no more than 30 per cent of value of the approved work submitted as assessment work in C and (or) D.]

I wish to apply $ 27,200 of this work to the claims listed below.

(State number of years to be applied to each claim, its month of record, and identify each claim by name and record number.)

Myra	1620(1)	Units - 16	4 years @ 200	12,800
Never Sweat	1568(9)	Units - 18	4 years @ 200	14,400
			Total	27,200

Value of work to be credited to portable assessment credit (PAC) account(s).
[May only be credited from the approved value of C and (or D) not applied to claims.]

Name of owner/operator	Name	AMOUNT
	1. International Cherokee Developments Ltd.	$ 2,800
	2.	
	3.	

I, the undersigned Free Miner, hereby acknowledge and understand that it is an offence to knowingly make a false statement or provide false information under the *Mineral Act*. I further acknowledge and understand that if the statements made, or information given, in this Statement of Exploration and Development are found to be false and the exploration and development has not been performed, as alleged in this Statement of Exploration and Development, then the work reported on this statement will be cancelled and the subject mineral claim(s) may, as a result, forfeit to and vest back to the Province.

Gordon J. Allen
Signature of Applicant

cc

SUMMARY

An integrated exploration program (Phase II) was conducted on the MNS property in 1987 by MPH Consulting Limited on behalf of International Cherokee Developments Limited. The program consisted of prospecting; rock, silt and soil sampling; geological mapping; and a VLF-EM survey.

The MNS property is underlain in the north and south-central parts by rocks of the Paleozoic Sicker Group; specifically fine-grained pyroclastics, possibly of the McLaughlin Ridge Formation, and fine-grained sediments of the Cameron River Formation (formerly mapped as Myra Formation and Sediment-Sill Unit). Sicker Group rocks have been intruded by Triassic gabbro or diorite, possibly correlative with the Karmutsen Formation, and Jurassic quartz diorite of the Island Intrusions. A large area in the central part of the property is underlain by mudstone and conglomerate of the Cretaceous Nanaimo Group.

A small part of the Myra claim was geologically mapped at a scale of 1:10,000. Rhodonite was discovered on the claim near its western boundary. Several lenses of rhodonite up to 1.5 m wide are exposed for 40 m within a sequence of poorly bedded chert and cherty sediment (tuff?) of the Cameron River Formation. This occurrence appears to be within the same general horizon hosting most of the rhodonite deposits in the Cowichan Lake area.

Geological mapping at a scale of 1:10,000 was conducted on most of the Never Sweat claim to determine the extent of the exposure of Sicker Group rocks in this area.

Most of the detailed work conducted during Phase II activities was done on the north part of the Never Sweat claim. A grid was established in this area in the Phase I exploration program to

trace a possible strike extension of a ferruginous chert horizon with elevated gold values exposed on the adjacent Chem property. The grid was expanded during Phase II to cover the entire package of Sicker Group rocks exposed in this part of the property. A total of 11.2 km of line was established during Phase II activities. Geological mapping, soil geochemistry and VLF-EM surveys were conducted on the grid.

Geological mapping at a scale of 1:2500 indicates that the grid area is underlain by a sequence of chert, argillite and siltstone beds folded into a broad synform with northwest trending limbs. The ferruginous chert horizon, although poorly exposed, was traced across the entire width of the property. It consists of thinly laminated, moderately magnetic chert and cherty siltstone with sporadic occurrences of jasper and at least one occurrence of rhodonite. No samples collected from this horizon contained anomalous amounts of gold.

Few anomalous gold values have been obtained on the property to date. Small pyritic lenses developed in sheared siltstone along a felsic dyke contact occur near the eastern boundary of the Never Sweat claim. A sample of this material collected during Phase I contained 170 ppb Au. Samples of similar material collected during Phase II contained up to 30 ppb Au and weakly anomalous amounts of Ag and Cu. A sample of pyritic (1-2%), dull purple chert float collected near the rhodonite occurrence on the Myra claim contained 70 ppb Au.

The VLF-EM survey clearly outlined the argillite horizons and was a useful mapping tool.

Four hundred fifty-one soil samples were collected on the grid during the Phase II program. A few interesting anomalous metal-in-soil zones were outlined. Several sporadic manganese anomalies

occur, some of which overlie the known rhodonite-bearing horizon. A coincident, moderate to strong gold and weak silver anomaly occurs along the eastern property boundary in an area underlain by argillite. No associated mineralization was observed. No gold anomalies were coincident with the ferruginous chert horizon.

The MNS property has potential to contain a gem-quality rhodonite deposit. Both rhodonite occurrences on the Never Sweat and Myra claims should be trenched to assess their size and the quality of the material. Detailed mapping and soil sampling on the Myra claim is recommended to delineate the rhodonite bearing horizon and generally to assess the mineral-bearing potential of Sicker Group rocks in this area.

This program is estimated to cost $30,000.

TABLE OF CONTENTS

APPENDICES

LIST OF ILLUSTRATIONS

PLATES - IN VOLUME II

1.0 INTRODUCTION

This report on the Phase II exploration program on the MNS property (Myra and Never Sweat claims) has been prepared by MPH Consulting Limited at the request of International Cherokee Developments Limited.

Fieldwork for the program was conducted between May 3 and May 19, 1987. It consisted of geological mapping at scales of 1:10,000 and 1:2500; rock, soil and silt sampling; and a VLF-EM survey.

All work was performed by or under the supervision of MPH Consulting Limited staff.

2.0 PROPERTY LOCATION, ACCESS, TITLE

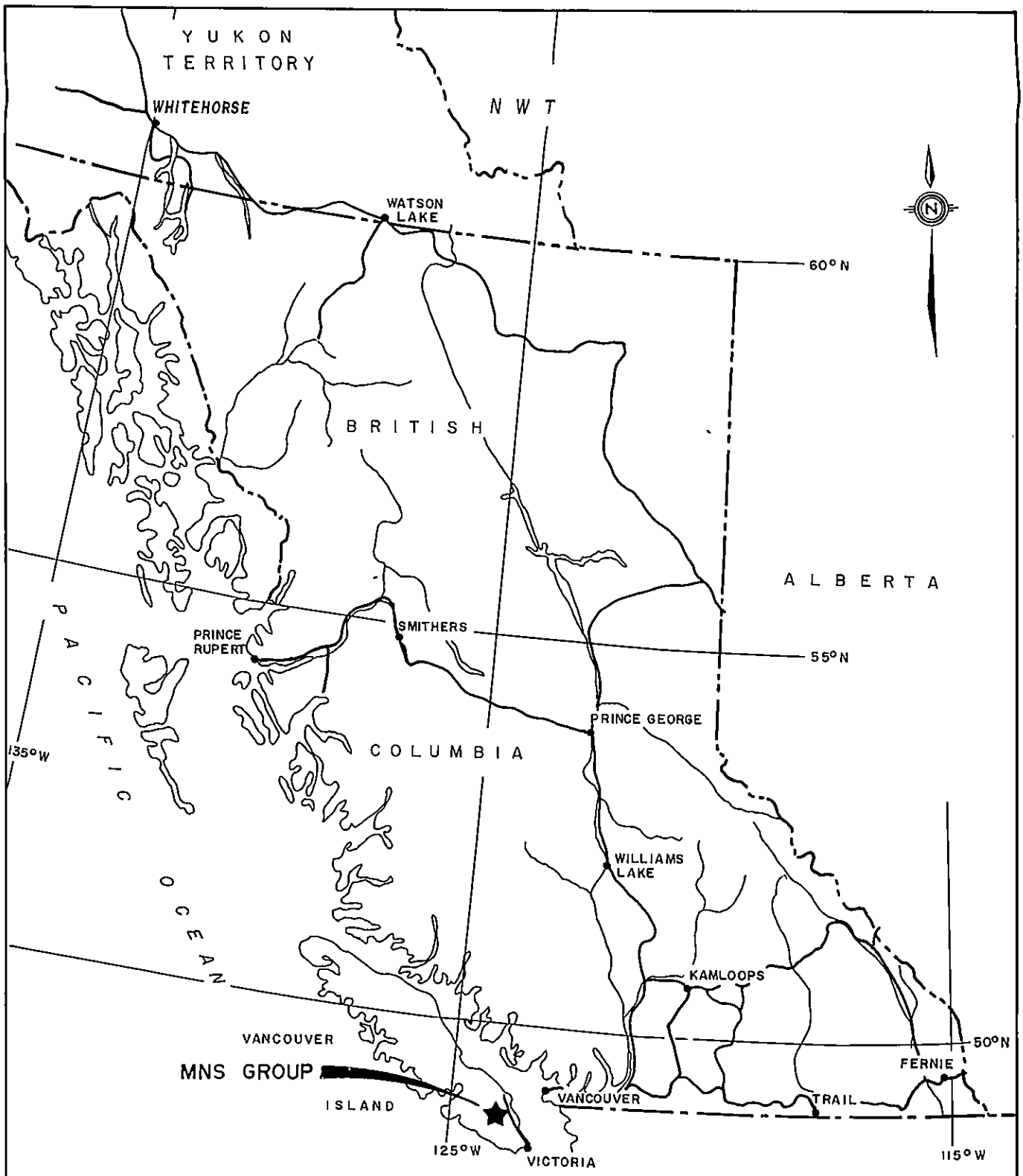
The MNS property is located in the Chemainus River valley approximately 20 km northwest of the city of Duncan, on Vancouver Island, British Columbia (Figure 1). The property is in the Victoria Mining Division, on NTS sheet 92B/13W and centred at approximately 48°51'N latitude and 123°57'W longitude (Figure 2).

Access to the Never Sweat claim is via MacMillan Bloedel's all weather Copper Canyon Main road from Chemainus, C-7 road (4.7 km northwest of the main camp), and B6 and Boulder Creek roads. The Myra claim, the majority of which lies south of the Chemainus River, is accessed via the Cowichan Valley Highway (Highway 18) and the Hill 60 Forest Service road.

The MNS property consists of two mineral claims totalling 34 units, as summarized below:

CLAIM	RECORD NUMBER	UNITS	ANNIVERSARY DATE	YEAR REGISTERED
Never Sweat	1568 (9)	18	Sept. 16, 1995	1985
Myra	1620 (1)	16	Jan. 10, 1996	1986

Both claims are owned by International Cherokee Developments Limited. They were grouped as the MNS Group by a Notice to Group filed on September 15, 1986.

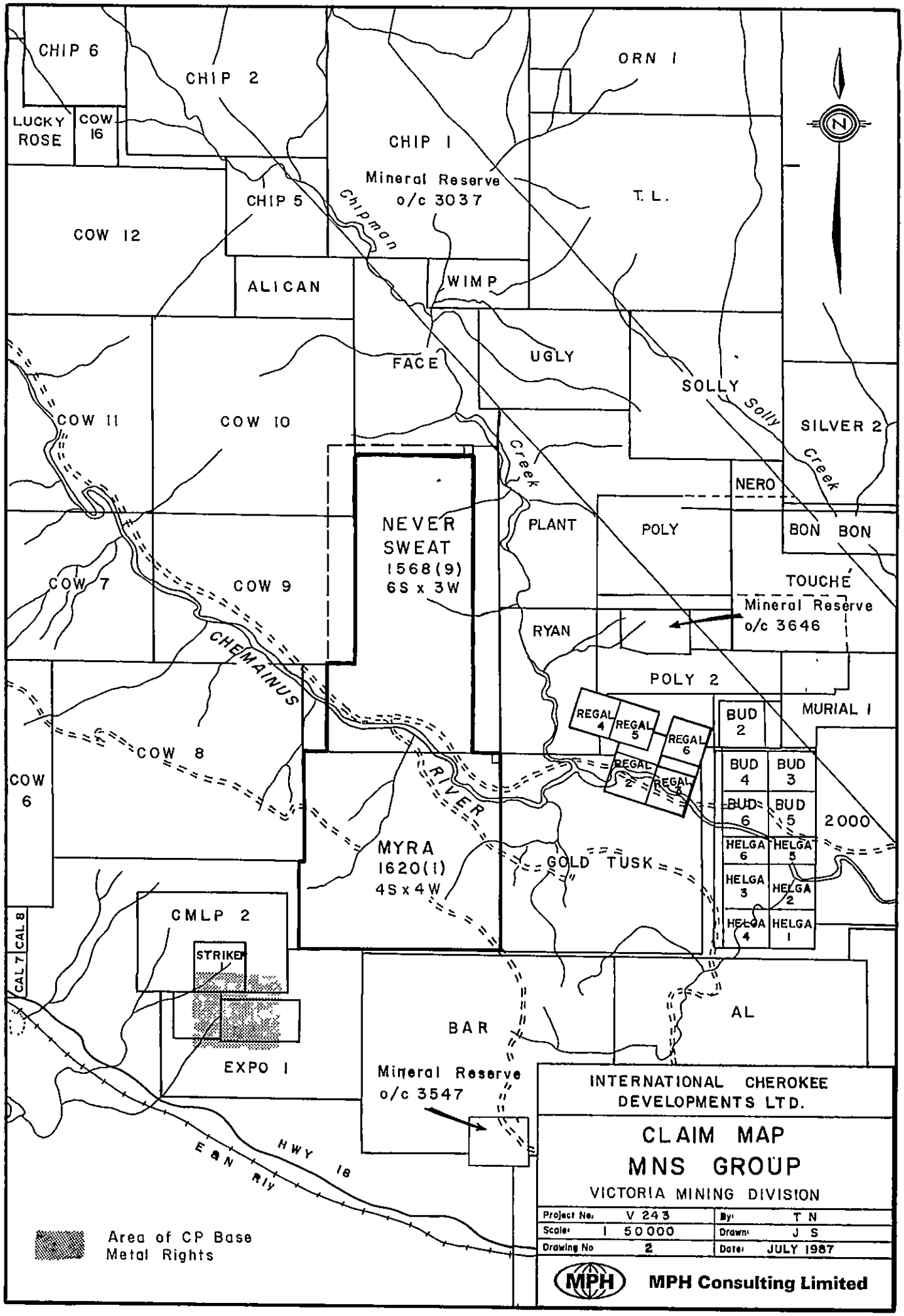


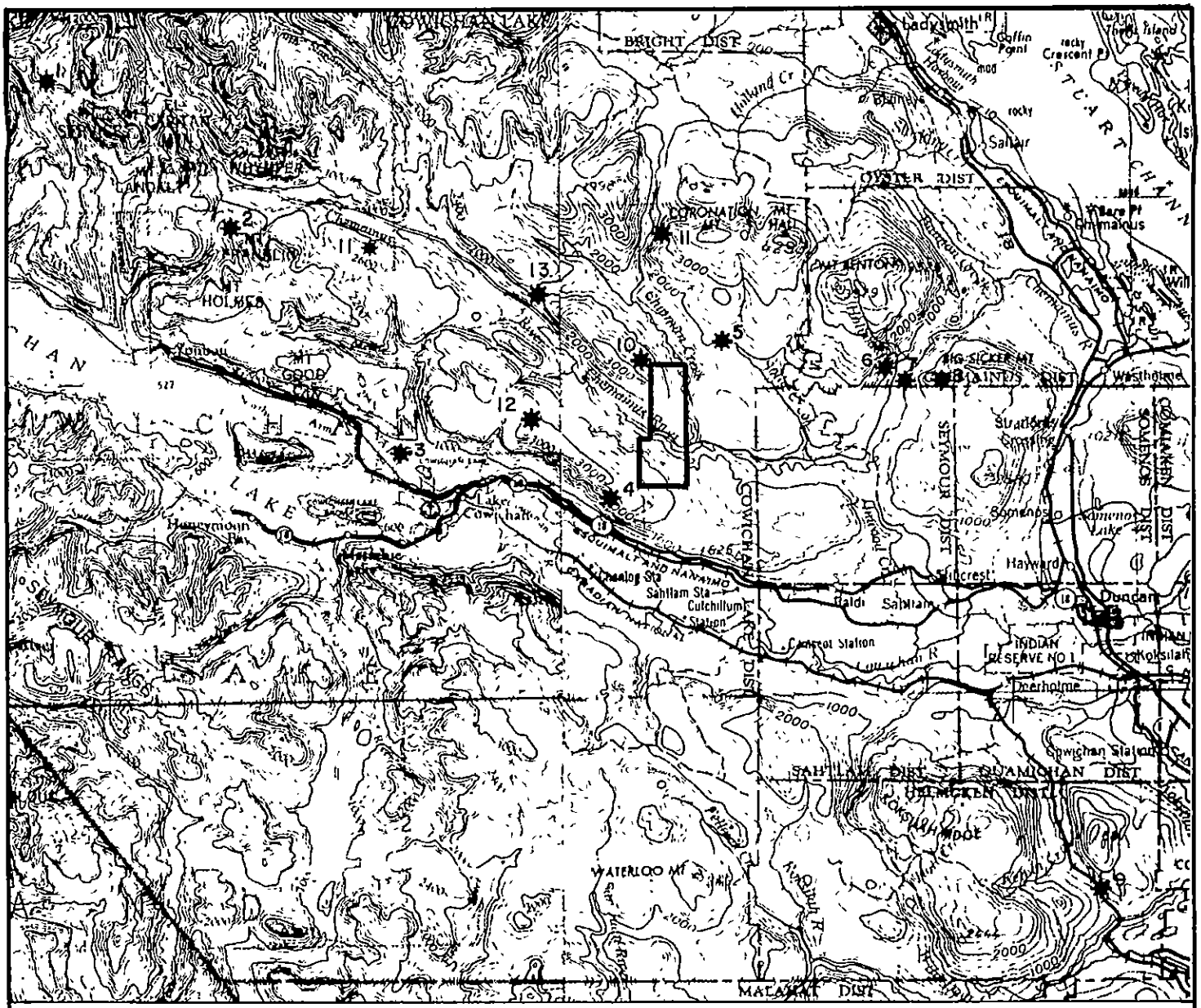
INTERNATIONAL CHEROKEE DEVELOPMENTS LTD.

GENERAL LOCATION MAP
MNS GROUP
VICTORIA MINING DIVISION

Project No:	V 243	By:	T. N
Scale:	1 : 8 000 000	Drawn:	J. S.
Drawing No:	1	Date:	JULY 1987

MPH Consulting Limited


CHIP 6
CHIP 2
ORN 1
LUCKY ROSE
COW 16
CHIP 1
Mineral Reserve o/c 3037
CHIP 5
Chipman
T. L.
COW 12
ALICAN
WIMP
FACE
UGLY
SOLLY
Solly Creek
SILVER 2
COW 11
COW 10
NERO
NEVER SWEAT 1568(9) 6S x 3W
PLANT
POLY
BON BON
TOUCHE
COW 7
COW 9
Mineral Reserve o/c 3646
RYAN
CHEMAINUS
POLY 2
MURIAL 1
REGAL 4
REGAL 5
REGAL 6
REGAL 2
REGAL 3
BUD 2
BUD 4
BUD 3
BUD 6
BUD 5
2000
COW 8
COW 6
RIVER
HELGA 6
HELGA 5
HELGA 3
HELGA 2
HELGA 4
HELGA 1
MYRA 1620(1) 4S x 4W
GOLD TUSK
CMLP 2
STRIKER
CAL 8
CAL 7
BAR
AL
EXPO 1
Mineral Reserve o/c 3547
HWY 18
E&N Rly
Area of CP Base Metal Rights
INTERNATIONAL CHEROKEE DEVELOPMENTS LTD.
CLAIM MAP
MNS GROUP
VICTORIA MINING DIVISION
Project No. V 243
By: T N
Scale: 1 50000
Drawn: J S
Drawing No 2
Date: JULY 1987
MPH
MPH Consulting Limited



GOLD OCCURRENCES

1. Amore
2. Comego
3 Meade Ck.
5. Lara
10. Chem
11. Mike

BASE METAL OCCURRENCES, DEPOSITS

6 Pauper
7. Copper Canyon
8. Twin J
9. King Solomon
13. Pogo

OTHER OCCURRENCES

4. Hill 60, Mn
11. Lady A, C
12. Stanley Creek, Mn

INTERNATIONAL CHEROKEE DEVELOPMENTS LTD.

MINERAL OCCURRENCES LOCATION MAP

MNS GROUP

Project No:	V243	By:	T. N.
Scale:	1:250 000	Drawn:	J. S.
Drawing No	3	Date:	JULY 1987

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Approximately 2 km to the east of the MNS property is the recently discovered Lara deposit (occurrence 5, Figure 3). It is a stratiform deposit between 1.5 and 8.2 m wide and over 1500 m long. Ore grade material from the zone averages 4.54% Zn, 4.11 g/t Au, 92.6 g/t Ag, 0.79% Cu and 0.83% Pb.

More details of the economic setting and mineral occurrences in the area are included in MPH Consulting Limited's 1986 assessment report on the MNS property (Getsinger, 1986).

4.0 REGIONAL GEOLOGY

The area between Duncan and Port Alberni (including the MNS property) is underlain by a west-northwest trending belt of Paleozoic rocks of the Sicker Group.

The Sicker Group has been divided into four formations. Historically these formations were named Nitinat, Myra, Sediment-Sill and Buttle Lake, by Fyles (1955) and Muller (1980) (Figure 4). Type sections for these formations are in the Cowichan Lake and Buttle Lake areas. There are some problems, however, applying these divisions to the entire Sicker Group belt since geological environments appear to have varied dramatically within the complex volcanic terrane.

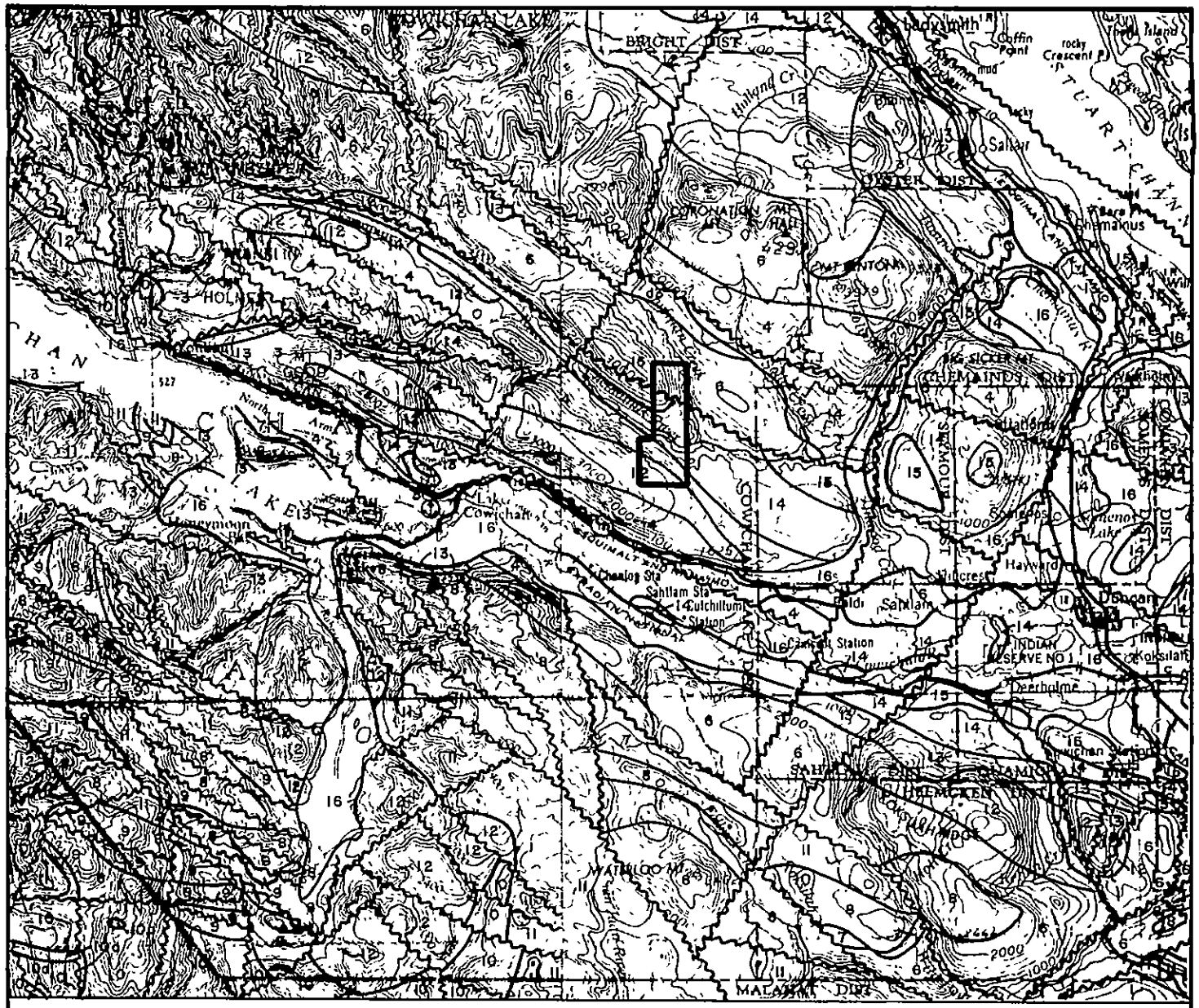
Massey (1987) has recently been mapping in the Cowichan Lake area, and has divided the Sicker Group in this area as follows:

UPPER SILURIAN TO LOWER PERMIAN SICKER GROUP

BUTTLE LAKE SUB-GROUP	
MOUNT MARK FORMATION	(formerly Buttle Lake Formation)
CAMERON RIVER FORMATION	(formerly Sediment-Sill Unit and/or Myra Formation)
YOUBOU SUB-GROUP	
McLAUGHLIN RIDGE FORMATION	(formerly Myra Formation and/or Nitinat Formation)
NITINAT FORMATION	

Nitinat Formation rocks are typically pyroxene rich pyroclastics and flows.

The McLaughlin Ridge Formation is composed predominantly of



QUATERNARY

16 Glacial and alluvial deposits

UPPER CRETACEOUS

Nanaimo Group

15 Extension - Protection Fm · sandstone, conglomerate; minor siltstone, shale, coal

14 Haslam Fm. shale, siltstone, minor sandstone.

13 Comox Fm. · sandstone, conglomerate, minor siltstone, shale, coal.

JURASSIC

Lower to Middle Jurassic

12 Island Intrusions - granodiorite, quartz diorite

Lower Jurassic

11 Bonanza Group basaltic to rhyolitic tuff, breccia, flows, sills, and dykes; minor argillite, greywacke.

UPPER PALEOZOIC AND ? OR TRIASSIC AND JURASSIC

10 Westcoast Complex : quartz diorite, diorite, tonalite, amphibolite, agmatite ; minor metavolcanic and metasedimentary rocks 10a recrystallized limestone, skarn.

TRIASSIC

Middle ? and Upper Triassic

Vancouver Group

9 Quatsino Fm. · limestone

8 Karmutsen Fm pillow basalt, breccia, tuff; minor flows.

PALEOZOIC

Sicker Group

PENNSYLVANIAN AND PERMIAN

7 Buttle Lake Fm. : limestone, chert, greywacke, argillite

PENNSYLVANIAN AND MISSISSIPPIAN

6 Sediment - Sill Unit · argillite, greywacke, chert, diabase sills

REF. · GSC OPEN FILES 701 and 821.

LOWER DEVONIAN AND OLDER

5 Saltspring Intrusions meta-granodiorite, meta-quartz porphyry, quartz-sericite schist

4 Myra Fm well bedded felsic tuff and breccia, argillite, rhyodacite in flows and sills, minor basic tuff, quartz-sericite schist, phyllite, massive sulphides

3 Nitinat Fm. pillow lava and breccia of augite (uralite) porphyry, basic tuff; minor chlorite - actinolite schist

LOWER PALEOZOIC (OR YOUNGER ?)

2 Colquitz gneiss quartz-feldspar gneiss

1 Wark gneiss massive and gneissic metadiorite, metagabbro, amphibolite.

0 5 10km

N

INTERNATIONAL CHEROKEE DEVELOPMENTS LTD.

REGIONAL GEOLOGY MAP

MNS GROUP

VICTORIA MINING DIVISION

Project No:	V 243	By:	T. N.
Scale:	1 : 250 000	Drawn:	J. S.
Drawing No	1	Date:	JULY 1987

MPH Consulting Limited

intermediate composition pyroclastics ranging from cherty tuffs to agglomerates.

The Cameron River Formation is predominantly sedimentary in nature, although many units have tuffaceous characteristics. Chert, argillite, siltstone, sandstone and conglomerate are the dominant rock types, with lesser amounts of limestone, pyroclastics and flows.

The Mount Mark Formation is composed of limestone (locally marble) with minor amounts of chert, argillite, siltstone and sandstone.

The Sicker Group is weakly regionally metamorphosed to lower greenschist facies and folded about a northwest trending fold axis.

Sicker Group rocks have been intruded by gabbroic sills and dykes which are thought by Muller (1980) to be coeval with Upper Triassic Karmutsen Formation basaltic rocks.

Lower to middle Jurassic granodiorite and quartz diorite Island Intrusions cut both the Sicker Group and gabbroic rocks. Sicker Group sediments and pyroclastics are commonly hornfelsed and silicified near these intrusives.

South and north of the main Sicker Group 'greenstone' belt (and presumably overlying it) are extensive exposures of Karmutsen Formation basalt and Quatsino Formation limestone of the Triassic Vancouver Group, and basaltic volcanics of the Jurassic Bonanza Group.

Shale, sandstone and conglomerate of the Cretaceous Nanaimo Group unconformably overlie all formations mentioned above.

A more detailed description of the regional geology is provided in MPH Consulting Limited's assessment report on the MNS property (Getsinger, 1986).

5.0 1987 PHASE II EXPLORATION PROGRAM

5.1 WORK COMPLETED

Fieldwork for Phase II of the exploration program on the MNS property was performed between May 3 and May 9, 1987. One geologist, one geophysical technician and two field assistants spent a total of 38.5 mandays on the property during this phase of the program.

Geological mapping at a scale of 1:10,000 was conducted on most of the Never Sweat claim (approximately 275 hectares). Only a small area on the Myra claim was mapped during this phase of the exploration program.

The approximately 9 line km grid established on the north part of the Never Sweat claim during Phase I activities was extended with an additional 11.2 km of line. A total of 17.9 km of line was included in a VLF-EM survey on the grid. A total of 451 soil samples, 7 silt samples and 25 rock samples was collected on or in the vicinity of the grid. Geological mapping at a scale of 1:2500 covers approximately 150 hectares in the grid area.

5.2 GEOLOGICAL MAPPING AND SAMPLING

5.2.1 Introduction

Parts of the property were geologically mapped at a scale of 1:10,000 to identify areas warranting a more detailed investigation (specifically, those areas underlain by Sicker Group rocks). Geological mapping at a scale of 1:2500 was subsequently

conducted in one such area in the north part of the Never Sweat claim.

During the course of these geological surveys 7 silt samples and 25 rock samples were collected. An additional 9 rock samples were collected on the extreme west part of the Myra claim during an investigation of the adjacent Hill 60 group. Descriptions of these samples are included with this report.

5.2.2 General Geology of the MNS Property

Two areas of the property are underlain by rocks of the Paleozoic Sicker Group (Plate 1).

SICKER GROUP ON THE MYRA CLAIM

Sicker Group rocks exposed on the Myra claim form a northwest trending belt approximately 600 m wide, bounded by Jurassic quartz diorite to the southwest and Cretaceous Nanaimo Group sediments to the northeast.

The eastern part of the belt was mapped by Getsinger (1986) as argillite, cherty tuff and lithic volcaniclastic rocks. These rocks may be part of the McLaughlin Ridge Formation.

In the west, the belt is underlain by bedded chert, cherty siltstone (tuff?) and cherty argillite; probably of the Cameron River Formation. A discontinuous rhodonite horizon up to 1.5 m thick is contained within this package of sediments. This occurrence will be discussed in greater detail in section 5.2.8.

Little structural data were collected but rocks in the northwest

part of the belt dip steeply to the southwest and strike somewhat obliquely to the general trend of the exposure.

SICKER GROUP ON THE NEVER SWEAT CLAIM

The northern part of the Never Sweat claim is underlain by a sequence of chert, argillite and siltstone of the Cameron River Formation which has been folded into a synform with northwest trending limbs.

INTRUSIVES

Sicker Group sediments in this area have been intruded by Triassic gabbroic sill-like bodies. One such medium-grained intrusive on the Never Sweat Claim is 60 to 70 m wide and has been folded along with the host sediments.

Jurassic quartz diorite of the Island Intrusions also intrude Sicker Group rocks. These quartz diorites occur as tabular bodies commonly over a kilometre wide and several kilometres long. They are conformable on a regional scale but locally are clearly crosscutting stratigraphy.

Quartz diorite underlies most of the southern part of the Myra claim. A small part of the Never Sweat claim is also possibly underlain by quartz diorite.

NANAIMO GROUP

Most of the central part of the MNS property is underlain by Cretaceous Nanaimo Group mudstone and conglomerate. The conglomerate unit forms prominent cliffs north of the Chemainus river.

In the south, Nanaimo Group sediments unconformably overlie rocks of the Sicker Group. In the north it appears that the Nanaimo Group is in fault contact with the Sicker Group.

5.2.3 Lithology of Formations and Units of the Sicker Group

2) McLaughlin Ridge Formation (Formerly Myra Formation)

Mapping on the Myra claim has not been completed in enough detail to ascertain that rocks of the McLaughlin Ridge Formation occur on the property. The following units are, therefore, only tentatively assigned to this formation.

2a - Argillite

Black, thinly laminated argillite is interbedded with and grades into siltstone or fine-grained tuffs. The argillite generally contains 1-2% fine-grained pyrite and weathers to a dull rusty brown.

2b - Cherty Tuff

Rocks in this unit generally have a dark grey to dark brown cryptocrystalline groundmass and a few percent of dark grey very fine-grained sand sized particles. They are massive to well bedded and commonly grade into fine-grained tuff or tuffaceous siltstone.

2c - Tuffaceous Siltstone, Siltstone

This material may be sedimentary or pyroclastic. It is very fine-grained, dark grey to dark brown, massive to well-bedded and

commonly very hard.

2d - Lithic Tuff

This unit has a fine-grained, siliceous, dark grey to brown groundmass with medium-grained feldspar crystal fragments and quartz-feldspar lithic fragments up to 10 mm in diameter.

Lithology of Units of the Cameron River Formation

4) Cameron River Formation

The Cameron River Formation was formerly mapped as the Myra Formation and/or Sediment-Sill Unit. It has been subdivided in the MNS property area into the following units:

4a - Argillite, Slate

Dark grey to black, thinly laminated to massive, soft to extremely hard argillite grades into both siltstone and cherty siltstone. It is commonly foliated, with slaty cleavage crosscutting bedding. Dark grey, subhedral, elongated chiastolite porphyroblasts commonly occur in the slate. They average 1 mm in length and can make up to 15% of the rock. The argillite generally contains 2-3% pyrite along fractures or as thin films on foliation surfaces.

Chiastolite porphyroblasts suggest that the rock has undergone contact metamorphism, probably from the intrusion of the nearby quartz diorite.

4b - Chert, Cherty Siltstone, (rarely ferruginous chert, jasper and rhodonite)

Rocks in this unit are generally cryptocrystalline to very fine-grained granular, massive to thinly laminated, and extremely siliceous. Colour ranges from dark brown to light grey to blue-green to light purple. The purplish chert commonly contains up to 5% fine-grained disseminated crystalline magnetite.

In one location pale pink massive rhodonite is interlayered with thinly laminated jasper and tan-coloured chert.

4c - Siltstone

This unit is dark grey to dark brown, massive to thinly laminated and generally very hard (silicified?, hornfelsed?). The siltstone is commonly interbedded with and grades into both sandstone and argillite.

4d - Sandstone

The sandstone is dark grey to dark brown and generally very fine to fine-grained.

4e - Crystal Tuff, Tuffaceous Sediment

These tuffs are generally limited in extent, quite thin (beds to 5 cm) and interbedded with argillite and fine-grained sandstone. They have a dark brown very fine-grained sandy groundmass with up to 10% $\leq$ 1 mm stubby to lath shaped, subhedral, white feldspar crystal fragments.

4f - Heterolithic Conglomerate and Sedimentary Breccia

A discontinuous, few metre wide conglomerate bed(s?) is exposed to the west of the MNS property and likely trends onto the Never Sweat claim. It has a dark brown cherty fine-grained clastic groundmass with up to 20% subangular to subrounded feldspar porphyry and cherty siltstone (?) clasts up to 1 cm in diameter. The groundmass also contains traces of chalcopyrite and 2-3% each of pyrite and pyrrhotite. The rock may be partly tuffaceous in nature.

5.2.4 Lithology of Intrusive Rocks

6) Triassic Karmutsen Formation

6d - Gabbro

Gabbro intruding the Cameron River Formation on the Never Sweat claim is fine to medium-grained, equigranular and massive. Hornblende, largely altered to chlorite, makes up 50% or more of the rock. Plagioclase occurs in small individual crystals or in clusters up to 2 mm in diameter, giving the rock a glomerophyric texture.

9) Jurassic Island Intrusions

9f - Feldspar Porphyry

Feldspar porphyry dykes in this area are generally less than 3 m

in width and strike from northeast to southeast. They contain 25% white stubby feldspar phenocrysts up to 1 cm (average 3-4 mm) in diameter, < 5% hornblende phenocrysts and rare rounded quartz phenocrysts in a fine-grained dark grey to brown groundmass.

These dykes may be offshoots from the nearby large stocks or sills of quartz diorite. On nearby properties they crosscut both Cameron River Formation sediments and Triassic gabbroic dykes.

9q - Quartz Diorite

Quartz diorite stocks in this area are up to 1 km wide and several kilometres long. They are typically medium-grained equigranular plutonics with 75%(+) feldspar (mainly plagioclase), 15% hornblende, up to 10% quartz, and minor amounts of biotite.

5.2.5 Lithology of Formations of the Nanaimo Group

10) Cretaceous Nanaimo Group

Mudstone and Shale

This material is poorly indurated, very fine-grained, clay-rich and massive to thinly bedded.

Conglomerate

This unit has a fine to medium-grained grey to brown sandstone matrix with up to 70% subrounded to rounded pebbles up to 2 cm in diameter. The pebbles are composed predominantly of light to dark grey chert or felsic volcanic material (probably Cameron River

Formation) and rarely of basic lapilli tuff (probably Nitinat Formation).

5.2.6 Detailed Geology of the North Part of the Never Sweat Claim

Approximately 150 hectares of the north part of the Never Sweat claim was geologically mapped at a scale of 1:2500 (Plate 2).

This area of the property is predominantly underlain by sediments of the Cameron River Formation. Bedding in the sediments generally strikes between 90° andd 140° and dips moderately to steeply to the southwest. Stratigraphic features observed on the adjacent Chem property suggests that these beds are tops up or younging to the southwest.

The rocks can be roughly divided into two lithologic assemblages. In the northeast part of the map area the property is underlain by a sequence of interbedded chert, cherty siltstone and argillite. These units are generally between 50 and 200 m thick and are continuous for over a kilometre across the property.

Within this assemblage is a 'ferruginous' chert horizon which carries anomalous amounts of gold (up to 300 ppb) on the adjacent Chem property. On the MNS property it is generally weakly magnetic, contains minor amounts of jasper and at least one occurrence of rhodonite. A more complete description of this horizon is given in section 5.2.8.

Southwest of and probably stratigraphically above the 'chert-argillite' assemblage is a thick unit of massive to poorly bedded siltstone with minor cherty and sandy components.

A 60-70 m wide fine to medium-grained glomerophyric, probably Triassic, gabbroic sill intrudes the Sicker Group siltstone. This intrusive body can be traced for approximately 1 km parallel to stratigraphy.

A large body of Jurassic quartz diorite exposed to the west of the Never Sweat claim may extend onto the property intruding the siltstone and sandstone of the upper assemblage.

Immediately south of the Sicker Group rocks, Nanaimo Group mudstone dips steeply to the north suggesting that the two rock groups are separated by an east-southeast trending fault.

5.2.7 Structural Geology of the North Part of the Never Sweat Claim

The Sicker Group sediments and the Triassic gabbroic sill have been folded into a synform (probably a syncline since graded bedding on the adjacent Chem property indicates that tops are up) with a fold axis trending at approximately 127°. The hinge area of the fold is exposed in the southeast part of the map area (Plate 2).

A 70 to 90° trending fault is located along Online Creek. Sicker Group rocks and the Triassic gabbroic sill have an apparent left lateral offset of approximately 230 m.

It is unclear if the Jurassic quartz diorite has been involved with either the folding or the faulting. A lack of foliation in the quartz diorite on the adjacent property suggests that it was emplaced after the folding episode.

5.2.8 Mineralization

The primary reason for conducting detailed work on the north part of the Never Sweat Claim was to trace a ferruginous chert horizon. On the adjacent Chem property this horizon is up to 10 m thick. It is composed of translucent grey chert and sporadically of dull red jasper. It contains a few percent magnetite, up to 8% fine-grained disseminated and fracture-filling pyrite and up to 300 ppb Au.

On the MNS property the horizon is not well exposed, but can be traced because of its position in the stratigraphy relative to an argillite horizon which is clearly delineated in the VLF-EM survey. The ferruginous unit does not have the same characteristics as seen on the Chem property. The horizon is represented by a zone of weakly magnetic dark blue-green to dull reddish-grey chert several tens of metres wide. One occurrence of pyritic (2-3%, fracture related) jasper was located at 12+67S, 9+35E (Plates 2, 3) but it contained no anomalous amounts of gold (samples 2916 and 2917).

One small occurrence of rhodonite was discovered at 10+95S, 8+67E. The rock is composed of massive pale pink rhodonite bands up to 2 cm wide interlayered with thinly laminated, dark brown chert or cherty siltstone and jasper. The rhodonite is highly fractured, contains up to 25% black MnO_2 and is not of carving quality. A sample of this material (2918) contained 15.62% Mn and 65 ppm As. The showing is poorly exposed and its width and lateral extent are not known.

Several pieces of rhodonite float occur on Online Creek approximately 300 m east-southeast of and on strike with the above mentioned showing. Rhodonite in these boulders is massive, in

bands up to 3 cm thick and interlayered with thinly laminated tan-colored chert. The tan-colored chert commonly contains 1-2% fine-grained disseminated pyrite. This material is fairly competent and could possibly be used for carving. A thin section description of some of this material (sample 2920) is included in Appendix III.

Samples of the rhodonite (2914, 2919 and 2920) contained up to 25.60% Mn and weakly anomalous amounts of Zn and Ni.

North of Online Creek near the eastern boundary of the Never Sweat claim, siltstones are intruded by two medium-grained porphyritic felsic dykes up to 15 m wide. They have a fine-grained crystalline groundmass with 5% hornblende in laths to 2 mm, 15% subhedral stubby plagioclase phenocrysts up to 3 mm in diameter, and rare rounded quartz phenocrysts. The host siltstone is sheared in zones approximately 30 cm wide along each contact. These shear zones are silicified, bleached and contain up to 5% pyrite across widths of a few centimetres.

Samples of this pyritic material contained up to 170 ppb Au and weakly anomalous amounts of copper (Samples 909-phase I, 2915 and 2921).

A rhodonite occurrence was discovered on the Myra claim near its western boundary (Plate 1). Several lenses of rhodonite and massive black MnO_2 up to 1.5 m wide are exposed for 40 m within a sequence of poorly bedded chert and cherty sediment (Figure 5). There appear to be two distinct manganese-bearing horizons separated by 1-2 m.

The lenses are typically composed of massive, blue-black MnO_2 with irregular patches of pale pink massive fine-grained crystalline rhodonite up to a few centimetres in diameter. MnO_2 also occurs

along abundant fractures in the host grey chert. The rhodonite is relatively unfractured and appears to have formed after the deformation causing fracturing in the adjacent chert. The quartz diorite contact lies approximately 20 m to the southwest of the showing and it is possible that the rhodonite is a contact metamorphic product of an originally manganese-rich sediment.

In some places the rhodonite is massive, pale to medium pink in colour and over 1 m in width.

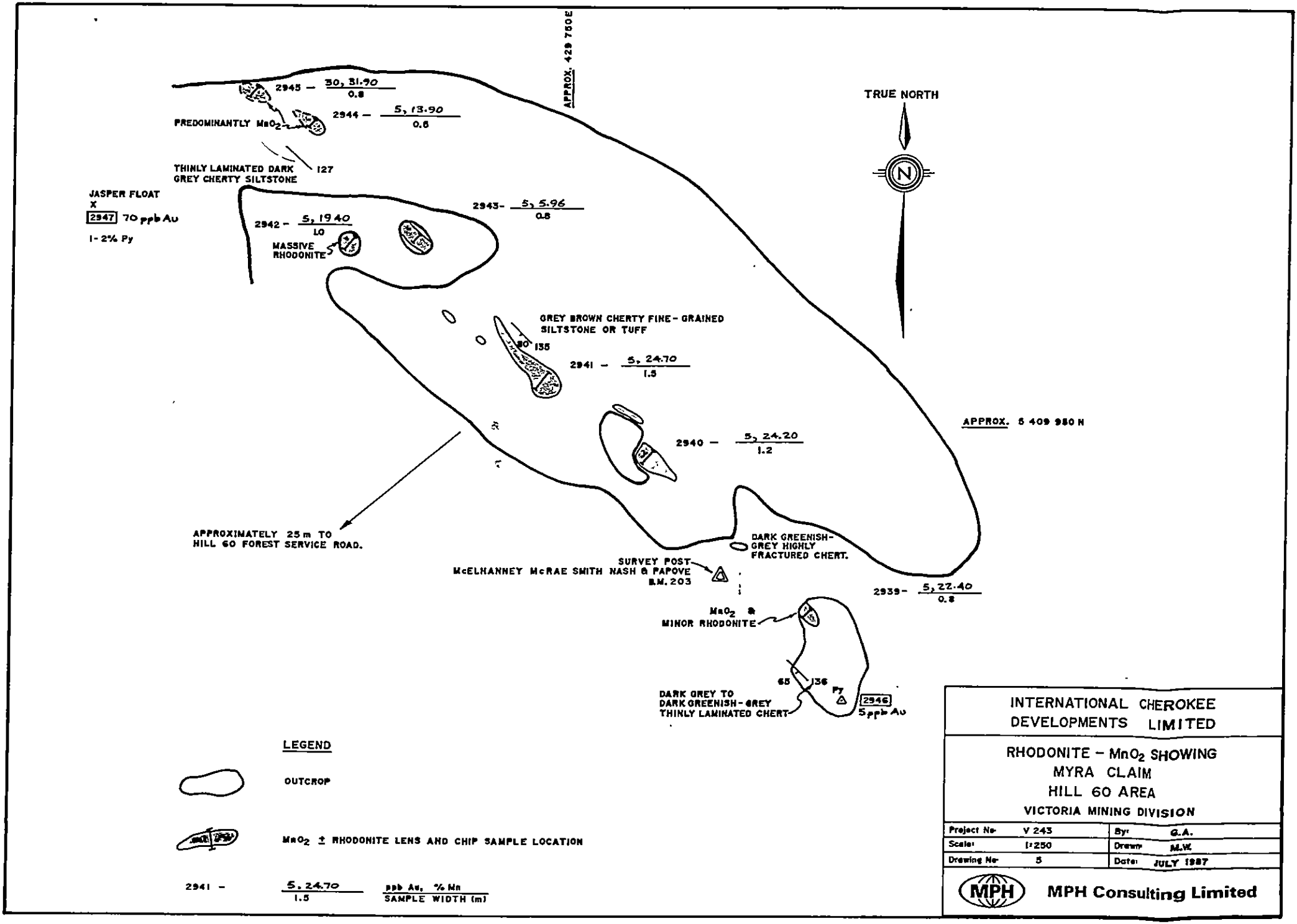
Seven chip samples were collected from the showing. Sample locations, widths, and manganese and gold analyses are shown in Figure 5.

A 5 cm wide piece of reddish-brown to maroon coloured chert float was found in the vicinity of the rhodonite occurence on the Myra claim. A sample (2947) of this material contained 1-2% fine-grained disseminated pyrite and 70 ppb Au. No source for this material was found.

5.3 STREAM SEDIMENT GEOCHEMISTRY SURVEY

Seven stream sediment samples were collected on the Never Sweat claim from dry and flowing drainages. Samples consisted of dark brown to black organic material, silt, and fine to coarse-grained sand. Small amounts of sediment were collected from several locations along a few metres of stream bed in an attempt to get a representative sample.

Some analyses of the silt samples are given on Plate 3.



INTERNATIONAL CHEROKEE DEVELOPMENTS LIMITED

RHODONITE – MnO_2 SHOWING
MYRA CLAIM
HILL 60 AREA
VICTORIA MINING DIVISION

Project No.	V 243	By:	G.A.
Scale:	1:250	Drawn:	M.W.
Drawing No.	5	Date:	JULY 1987

MPH Consulting Limited

Sample M7-Silt No. 1, collected on B3 road at 8+40S, 6+00E, contained 3729 ppm Mn. The area is underlain by blue-green chert and cherty siltstone. A soil sample collected at 8+00S, 6+00E contained 2079 ppm Mn and is underlain by the same cherty unit. A soil sample collected at 6+00S, 4+25E contained >9999 ppm Mn. This sample site is underlain by another cherty horizon and lies 280 m uphill from silt sample site M7-Silt No. 1. It is probable that the cherty units in this aera contain Mn-rich beds and possibly rhodonite.

5.4 SOIL GEOCHEMISTRY SURVEY

Four hundred fifty-one B-horizon (average depth of 25 cm) soil samples were collected on 11.2 km of line during the Phase II program. Samples were collected at 25 m intervals on lines 100 m apart.

Contoured plots of Au, Ag and As (Plate 4a), and Mn (Plate 4b) are presented with this report. A plot of Cu, Pb, and Zn was made but not included because no significant anomalies were outlined.

Threshold values for Au, Ag and As are as those used on the adjacent Chem property (Allen, 1987). The threshold value for Mn was visually estimated at 2000 ppm.

Data from both Phase I and II are presented on the same plates. Doing a statistical analysis of the data is difficult because Phase I and II samples were analysed at different labs. Detection limits and sensitivities for specific elements are somewhat different at each lab.

Gold, silver, arsenic and manganese anomalies on Plates 4a and 4b

have been labelled A through T.

Anomaly A is located on line 1+00S at 4+25E. It consists of a single high Mn value of 4662 ppm. The area is underlain by chert and cherty siltstone and is close to the rhodonite-bearing ferruginous chert horizon.

Anomaly B is an irregularly shaped zone of high Mn values located on lines 7+00S and 8+00S between 6+25E and 7+00E. The highest Mn value is 5850 ppm. The anomaly overlies an argillite-chert contact and the rhodonite-bearing ferruginous chert horizon. Abundant outcrop occurs in the area but no manganese mineralization was observed.

Anomaly C is a zone of strongly anomalous manganese (5556 ppm) centred at 9+00S, 7+25E. The area also has semicoincident weakly anomalous gold, silver and arsenic values on lines 9+00S and 10+00S near 7+00E. Gold values range up to 40 ppb. The anomalous zone overlies the contact between argillite and chert units and may overlie the rhodonite-bearing ferruginous chert horizon. No outcrop occurs in the anomaly area.

Anomalies D and D' define a 75 m wide, strong, one-line zone of anomalous manganese on 11+00S from 8+00E to 8+75E. Anomaly D is approximately centred on the rhodonite showing at 10+95S, 8+67E. The high manganese content (5472 ppm) in soil at 11+00E, 8+50E, approximately 17 m uphill from the showing, suggests that the rhodonite-bearing horizon may have substantial size. Anomaly D' (3129 ppm Mn) overlies the chert-argillite contact as do anomalies B and C, suggesting that a second manganese-rich horizon occurs at this level in the stratigraphy.

Anomaly E (located at 4+00S, 3+50E) has a Mn value of 4625 ppm. The sample site is near a chert-argillite contact.

Anomaly F is located along the same lithologic contact as Anomaly B, and extends from 6+00S, 5+00E (>9999 ppm Mn) to 7+00S, 5+00E (2135 ppm Mn). No reason for the anomaly is known, but it is probable that a Mn rich and possibly rhodonite-bearing horizon is located at this position in the stratigraphy.

Anomalies G and I form a discontinuous linear anomalous manganese zone with values up to 3630 ppm. The anomalies overlie a narrow argillite horizon between 9+00S, 5+00E to 12+00S, 6+25E. Little outcrop was observed in the area. These anomalies are approximately 20 m downhill from the stratigraphic position overlain by anomalies E and F, suggesting that a second or possibly third Mn-rich horizon occurs here, approximately 250 m stratigraphically above (?) the known rhodonite occurrence.

Anomaly H extends from 9+00S, 5+25E (30ppb Au) to 10+00S, 6+25E (90 ppb Au). It subparallels stratigraphy and is underlain by chert and cherty siltstone. A weak arsenic anomaly (G) on lines 9+00S and 10+00S lies immediately grid west of anomaly H. It trends obliquely to stratigraphy and the two anomalies may not be related.

Anomaly J is a zone of low to moderately high Au values (up to 160 ppb) extending from 12+00S, 5+50E to 13+00S, 7+25E. The zone overlies and parallels a fault trending along Online Creek, and is underlain by argillite and cherty sediment. Argillite units in this area contain 1-2% pyrite but no reason for the anomaly is known.

Anomaly K is linear zone of strongly anomalous manganese extending from 9+00S, 2+50E to 10+00S, 3+00E. The zone crosses 'Online Fault' in an area underlain by gabbro and siltstone. No reason for the anomaly is known.

Anomaly L is a zone of moderately anomalous manganese extending from 12+00S, 2+75E to 13+00S, 3+00E. The area is underlain by siltstone. No reason for the anomaly was observed. No mineralization was observed in the area.

Anomaly M is an exceptionally long linear north-south trending zone of weak to moderately strongly anomalous manganese extending from 15+00S, 6+50E to 18+00S, 3+75E. The zone crosscuts stratigraphy and overlies argillite, siltstone and gabbro. It may be associated with a fault zone but no evidence for this was observed in the field.

Anomaly N is approximately 400 m long and extends from 14+00S, 8+00E to 17+00S, 7+00E. The zone across lines 16+00S and 17+00S contains moderately high Au values (up to 300 ppb) and has coincident weakly anomalous Ag values. Most of the anomalous zone is underlain by argillite. Outcrop is abundant in the area and no reason for the anomaly is known. The strongest part of the anomaly lies outside the property boundary.

Anomalies O, P and Q are linear zones with weakly to moderately anomalous Au and weakly anomalous Ag values. The zones extend between lines 18+00S and 20+00S from 1+00W to 4+75W. The zones parallel and crosscut stratigraphy, are underlain by siltstone and gabbroic intrusive, and are near the hinge area of a fold.

Abundant outcrop occurs in the area and no mineralization was observed. The area is of special interest because gold is apparently associated with gabbroic dykes on adjacent properties.

Anomalies R, R' and R" form a semicontinuous linear zone of weakly to moderately anomalous manganese values extending from 20+00S, 1+50E to 8+00S, 0+25E. The zone overlies siltstone and closely follows the hinge of a synform. No reason for the anomaly is

known.

Anomalies S, S' and S" form a discontinuous linear zone of weakly anomalous manganese values which subparallels zone R-R" 120 m to 280 m to the northeast. The S-S" zone parallels a postulated fault zone at a distance of 50 m. Fault zones in the property area are typically manganese rich, which may explain the S-S' zone.

Anomaly T is a 50 ppb Au value at 14+00S, 1+75W. No outcrop occurs in the area but it is apparently underlain by siltstone and sandstone.

5.5 MAGNETIC SURVEY

Parts of lines 3+00S to 13+00S were included in a magnetic survey conducted during the Phase I exploration program (Plate 5).

The magnetic characteristics on the adjacent Chem property were divided into three domains (I-III) (Allen, 1987). Domains II and III continue onto the MNS property.

Domain II is a zone of sporadic magnetic susceptibility up to 400 m wide. It is underlain by interbedded cherts, cherty siltstone and argillite. The strongest anomalies in the domain delineate the rhodonite-bearing ferruginous chert horizon. Parts of this horizon contain up to 5% fine-grained disseminated crystalline magnetite.

Domain III is largely underlain by siltstone. The 60-70 m wide gabbroic sill intruding the siltstone has no anomalous magnetic characteristics.

5.6 VLF-EM SURVEY

A VLF-EM survey was conducted on 17.9 km of line on the north part of the Never Sweat claim. The signal used for the survey was transmitted from Jim Creek (Seattle), Washington, with a frequency of 24.8 kHz. Direction from the grid area to the transmitter is 120°, providing effective coupling with stratigraphic units generally striking at 90° to 140°.

Fraser filtered dip angles are presented on Plate 6. Composite profiles are presented on Plates 7a to 7d. Conductive features are numbered 7, 12, and 24 through 39 to conform with the numbering system started on the adjacent Chem property (Allen, 1987).

Zone 7 is a strong, persistent feature which roughly follows the nose of the ridge except at its southeast end where it apparently deflects to the east. No lithologic cause for the feature is known and it may be caused by topographic effect. The defection on the southeast end overlies the east-west trending 'Online Fault.'

Zone 12 is a strong feature extending from north of 1+00N to 8+00S. It is centred on a narrow (approximately 40 m wide) argillite unit.

Zone 24 is a strong, persistent feature extending from 9+00S, 4+10W to 20+00S, 1+00W. Sicker Group rocks are in apparent fault contact with Nanaimo Group mudstone in this area and it is likely that Zone 24 delineates this fault.

Zones 25 through 30 are weak, northwest-trending features in the nose area of the ridge between 2+00W to 3+00E. They are underlain

by siltstone and no lithology or structures were observed with which the zones could be related. They may be caused by topographic effect.

Zone 31 is an exceptionally strong feature extending from 7+00S, 1+75E to 18+00S, 5+75E. It follows the contact between argillite and cherty siltstone. Between 10+00S and 11+00S the conductive feature is clearly offset by the 'Online Fault', confirming an apparent left lateral offset. The abrupt end of the feature to the northwest may mark a facies change. Outcrop in the area, however, is poor.

Zone 32 is a moderately strong feature extending from 8+00S, 3+50E to 11+00S, 5+50E. It is apparently underlain by cherty siltstone but may be following the northeast contact of the argillite unit delineated in Zone 31.

Zone 33 is a weak feature extending from 13+00S, 6+50E to 17+00S, 7+00E. It is apparently underlain by argillite but may indicate that a narrow cherty horizon is contained within the larger argillite unit.

Zone 34 is a strong feature extending from 3+00S, 4+75E to 14+00S, 9+00E. It is centred on a 40 m wide argillite horizon.

Zones 36 to 38 are weak features in the northeast corner of the Never Sweat claim. They are underlain by chert and cherty siltstone.

Zone 39 is a strong feature extending from 10+00S, 11+75E to 11+00S, 12+00E. It corresponds to a chert-argillite contact.

In summary, the VLF-EM survey was extremely useful in tracing stratigraphy and fault zones.

5.7 CORRELATION OF GEOLOGY, GEOCHEMISTRY AND GEOPHYSICS: A SUMMARY

A compilation of geology, mineralization, geochemical anomalies and geophysical features on the Never Sweat grid is shown on Plate 8.

Gold-in-soil above 50 ppb and manganese-in-soil above 3000 ppm have been included on the composite. Most gold anomalies are underlain by argillite and siltstone within 300 m of a gabbroic intrusive. No mineralization was observed in these areas. Manganese anomalies are somewhat sporadic but roughly define a few linear zones. Two and possibly three manganese rich horizons are postulated on the basis of anomalies A-B-C-D and E-F-G-I. Anomaly D overlies the known rhodonite occurrence. Some of the other manganese anomalies may be related to fault zones (i.e. anomalies K and S-S") which are commonly manganese rich in the property area.

The magnetic survey has outlined a zone of sporadically anomalous magnetic susceptibility. This zone (II) is largely underlain by argillite and chert, some of which contain up to 5% fine-grained disseminated magnetite. The highest magnetic anomalies are underlain by a ferruginous chert-jasper horizon.

Conductive features defined by the VLF-EM survey correspond to argillite-chert contacts, centres of thin argillite horizons, and fault zones. The survey was a great help in mapping the stratigraphy.

6.0 CONCLUSIONS

Sicker Group rocks are exposed on the central part of the Myra claim and on the north part of the Never Sweat claim. The southern panel is composed of fine-grained pyroclastic rocks, possibly of the McLaughlin Ridge Formation. Sicker Group rocks on the north part of the property are sediments of the Cameron River Formation.

Rhodonite occurs in both areas. The property near the southern occurrence has not been investigated in detail and the extent of the rhodonite horizon is not known. Soil geochemistry data in the area of the northern rhodonite showing suggest that two and possibly three manganese-rich horizons occur within a 250 m section of the stratigraphy. Potential exists in both areas of the occurrence of a gem-quality rhodonite deposit.

No significant gold-bearing mineralization has been observed on the property to date. A few gold-in-soil anomalies near a gabbroic intrusive on the Never Sweat claim indicate that some potential for mineralization exists in the area.

No base metal mineralization has been found on the property.

Sicker Group rocks on the Myra claim have not been investigated thoroughly. This part of the property is of special interest because it is possibly partially underlain by McLaughlin Ridge Formation pyroclastics. These rocks host volcanogenic base metal deposits in the Sicker Group belt.

7.0 RECOMMENDATIONS

7.1 RECOMMENDED WORK PLAN

1. The rhodonite showing on the Never Sweat claim should be exposed as much as possible by hand. Small trenches should be blasted into both the Myra and Never Sweat rhodonite showings to obtain unweathered samples of the material.

2. High manganese-in-soil anomalies on the Never Sweat claim should be investigated and possibly trenched. The area of the strongest manganese anomaly (>9999 ppm Mn at 6+00S, 4+25E) is easily accessible by cat.

3. Gold-in-soil anomalies N, O, P and Q on the Never Sweat grid should be investigated. If the ground to the east of the Never Sweat claim is open, staking may be warranted.

4. The area around the rhodonite showing on the Myra claim requires detailed mapping (1:2500).

5. Comprehensive mapping at a scale of 1:10,000 is needed in the area underlain by Sicker Group rocks on the Myra claim to assess the mineral potential of this part of the property.

6. Soil sampling in the Myra claim rhodonite showing area would assist in delineating the manganese rich horizon. Soil sampling may be warranted in other parts of the claim depending on the findings of the mapping program.

7.2 PROPOSED PHASE III BUDGET

FIELDWORK

Personnel	No.	Days	Rate	Cost	
Geologist (Project Manager)	1	12	425	5,100	
Field Assistant	1	12	150	1,800	
Blaster	1	2	250	500	
Total Personnel Cost				7,400	7,400

Equipment Rental	No.	Days	Rate	Cost	
4WD Truck	1	12	110	1,320	
4WD Truck	1	2	110	220	
Rock Saw	1	5	15	75	
Plugger	1	5	30	150	
Total Equipment Rental Cost				1,765	1,765

Accommodation

26 Persondays @ 45		1,170

Disbursements

	Rate	Cost	
Analyses:			
100 Rock	14.00	1,400	
75 Mn Assay	7.00	525	
10 Au Assay	6.75	68	
200 Soil	11.85	2,370	
10 Silt	13.30	133	
5 Whole Rock	25.00	125	
		4,621	4,621

Thin Sections:			
5 @ 60.00	300		
Contractor:			
Cat and Lowbed 1 Day	1,000		
Powder and Caps	150		
Miscellaneous	500		
Disbursement Subtotal	6,571		
Administration (15%)	986		
Total Disbursements Cost	7,557	7,557	
Fieldwork Subtotal		17,892	
Contingency (15%)		2,684	
Total Fieldwork Costs		20,575	$ 20,575

CONSULTING

Personnel	No.	Days	Rate	Cost	
Geological Consultant	1	3	600	1,800	
Total Personnel Cost				1,800	1,800
Equipment Rental					
4WD Truck	1	3	110		330
Accommodation and Food					
3 Persondays @ 45					135

Disbursements			
Miscellaneous	200		
Administration (15%)	30		
Disbursements Subtotal	230	230	
Consulting Subtotal		2,495	
Contingency (15%)		374	
Total Consulting Cost		2,869	$ 2,869

REPORT

Personnel	No.	Days	Rate	Cost	
Geologist	1	6	425	2,550	
Geologist (Proofing)	1	1	500	500	
Total Personnel Cost				3,050	3,050
Disbursements					
Typing				300	
Drafting Supplies				100	
Copying and Reproduction of Maps				500	
Xeroxing and Binding Reports				350	
Drafting				1,000	
Miscellaneous				153	
Disbursements Subtotal				2,403	
Administration (15%)				360	
Total Disbursements Costs				2,763	2,763
Report Subtotal					5,813
Contingency (15%)					872
Total Report Cost					6,685	$ 6,685
Estimated Total Project Cost					$ 30,129

7.3 PROPOSED PHASE IV WORK SCHEDULE

	WEEK					
	1	2	3	4	5	6
GEOLOGIST	———	———				
- Project Management, Mapping	———	———				
- Report						———
FIELD TECHNICIAN						
- Blasting	—					
FIELD ASSISTANT						
- Trenching, Sampling	———	———				
CAT WORK	—					
SAMPLE ANALYSES					—	—

7.4 SUMMARY OF RECOMMENDATIONS

On the basis of encouraging results from the Phase II program it is recommended that exploration work be continued with Phase III.

The proposed program would concentrate on assessing the rhodonite occurrences and manganese-rich horizons discovered on the property. Gold-in-soil anomalies on the Never Sweat claim would be investigated. The exposure of Sicker Group rocks on the Myra claim would be mapped and assessed for mineral potential.

The estimated cost of this program is approximately $30,000.

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Respectfully submitted

MPH CONSULTING LIMITED

Gordon J. Allen

Duncan, B.C.
July 30, 1987

Gordon J. Allen, P.Geol.

MPH

CERTIFICATE

I, Gordon J. Allen, do hereby certify;

1) I am a graduate in geology of the University of British Columbia (B.Sc. 1975).

2) I have practised as a geologist in mineral exploration for twelve years.

3) I am a member in good standing of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.

4) Opinions, conclusions and recommendations contained herein are based on field work performed by myself and other MPH personnel between May 3, 1987 and May 19, 1987.

5) I own no direct, indirect, or contingent interests in the subject property, or shares or securities of International Cherokee Developments Limited or associated companies.

Gordon J. Allen

Duncan, B.C.
July 30, 1987

Gordon J. Allen, P.Geol.

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APPENDIX I

LIST OF PERSONNEL AND STATEMENT OF EXPENDITURES

LIST OF PERSONNEL AND STATEMENT OF EXPENDITURES

The following expenses have been incurred on the MNS property as defined in this report for the purposes of mineral exploration between the dates of May 3 and July 30, 1987.

PERSONNEL

T. G. Hawkins,
Geological Consultant, P.Geol.

2 1/2	Days	@	600	1,500.00

G. Allen, P.Geol.
Project Manager

25	Days	@	425	10,625.00

J. Getsinger, Geologist, Ph.D.

1/2	Day	@	500	250.00

H. MacIsaac, B.Sc.
Geophysical Technician

11	Days	@	250	2,750.00

D. Wardwell
Field Assistant

5	Days	@	150	750.00

B. Maguire
Junior Field Assistant

9 1/2	Days	@	125	1,187.50

Basemap Preparation		146.14	
Flagging, Sample Bags Etc.		228.65	
Courier and Freight		171.85	
Blueprints and Photocopies		48.09	
Gas		129.79	
Typing		3.50	
Report Preparation Cost			
Drafting Supplies	33.39		
Drafting	1,425.00		
Typing	300.00		
Map Reproduction	259.49		
Copying and Binding Reports	283.57		
Report Preparation Total	2,301.45	2,301.45	
Disbursements Subtotal		8,423.91	
Administration (15%)		1,263.59	
Total Disbursements			$ 9,687.50
Total Cost of Project			$30,000.00

APPENDIX II

ROCK SAMPLE DESCRIPTIONS AND LITHOGEOCHEMICAL RESULTS

ROCK SAMPLE DESCRIPTIONS AND LITHOGEOCHEMICAL RESULTS

Sample Number	Description		Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
2901	Location:	Boulder Cr. Road, North side of Sorenson Cr., 400 m North of MNS property	5	0.1	2	71	
	Rock Type:	Phyllitic Siltstone					
	Material Sampled and Sample Type:	Float (near source), Grab					
	Occurrence Size:						
	Dark greenish-grey, very fine-grained, siliceous phyllitic siltstone with less than 1% pyrite along fractures.						
2902	Location:	Boulder Cr. Road, as 2901	5	0.2	6	35	
	Rock Type:	Siltstone, Quartz Vein, Gouge					
	Material Sampled and Sample Type:	Float (near source), Grab					
	Occurrence Size:	5 cm wide zone					
	The zone is composed of clay gouge, bleached and brecciated siltstone, and quartz stringers to 2 cm wide. The host is a fine-grained dark grey siliceous siltstone. Appears barren.						
2903	Location:	Boulder Cr. Road, as 2901	5	1.0	14	367	3826 Mn
	Rock Type:	Gouge and Siltstone					
	Material Sampled and Sample Type:	Float (near source), Grab					
	Occurrence Size:	5 cm wide zone					
	Epidotic green to limonitic brown gouge zone with white quartz veins up to a few mm wide. The zone is hosted in a dark greenish-grey phyllitic siltstone.						

MPH

Sample Number	Description		Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
2904	Location:	B2A1A Road, 80 m North of B6A5 Road. 13+50S, 3+25E	5	0.1	2	12	
	Rock Type:	Quartz Vein					
	Material Sampled and Sample Type:	Float (near source), Grab					
	Occurrence Size:	5 cm wide vein					
	Blue-grey translucent quartz vein material is hosted in a greenish-grey siliceous siltstone. Barren.						
2905	Location:	B2A1A Road; 14+62S, 3+00E	5	0.1	5	99	
	Rock Type:	Jasper					
	Material Sampled and Sample Type:	Float, Grab					
	Occurrence Size:	10 cm diameter cobble					
	Bright red jasper cut by a vuggy white to translucent grey, specular hematite-bearing (20%) quartz.						
2907	Location:	B3 Road; 8+30S, 4+25E	5	0.2	4	63	
	Rock Type:	Quartz Stringer in Cherty Siltstone					
	Material Sampled and Sample Type:	Float, Grab					
	Occurrence Size:	1 cm wide vein					
	Glassy, dark grey quartz stringer with traces of pyrite and chalcopyrite, hosted in a dark grey cherty siltstone.						

MPH

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
2908	Location: B3 Road; 8+65S, 4+55E Rock Type: Gouge and Sheared Siltstone Material Sampled and Sample Type: Outcrop, Grab Occurrence Size: 1 m wide fault zone Chloritic green to limonitic brown intensely sheared siltstone(?).	5	0.1	11	92	2447 Mn
2909	Location: B3 Road; 6+30S, 7+75E Rock Type: Siliceous Siltstone Material Sampled and Sample Type: Outcrop, Grab Occurrence Size: 1 cm wide lens of sulphides Dark brown siliceous siltstone with a 0.5 cm thick lens of earthy grey material in a cream coloured 'envelope'. The material is probably altered pyrite originally developed along a fracture. The cream coloured alteration halo suggests hydrothermal activity.	5	0.1	8	54	
2909a	Location: B3 Road; 8+50S, 5+75E Rock Type: Chert Material Sampled and Sample Type: Outcrop, Grab Occurrence Size: Few metre wide zone Grey, purplish-grey and greenish-grey chert with 1% disseminated and fracture filling pyrite. Poorly bedded: 126/83SW	5	0.1	8	36	

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
2910	Location: 8+00S, 7+50E Rock Type: Chert, Cherty Siltstone Material Sampled and Sample Type: Outcrop, Grab Occurrence Size: Magnetite-bearing beds to 15 cm wide Interbedded white to purplish weathering blue-green cherty siltstone, chert, and greenish-grey weathering dark green siliceous siltstone. Beds up to 15 cm thick at 129/85SW. Cherty layers are weakly magnetic.	5	0.1	2	44	
2911	Location: 18+50S, 0+68W Rock Type: Siltstone Material Sampled and Sample Type: Float (near source), Grab Occurrence Size: Few metre wide zone Strongly fractured grey to dark green cherty siltstone with hematite staining on fracture surfaces.	5	0.1	2	89	
2912	Location: 19+84S, 1+80E Rock Type: Siliceous Siltstone Material Sampled and Sample Type: Outcrop, Grab Occurrence Size: 5 cm wide bed Dark grey to dark purplish-grey siliceous siltstone or chert. Weakly magnetic.	5	0.1	2	30	

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
2913	Location: Online Creek; 13+83S, 9+25E Rock Type: Fault Breccia, Gouge Material Sampled and Sample Type: Outcrop, Grab Occurrence Size: 30 cm wide shear zone Light brown to dark grey angular chert or siliceous siltstone fragments up to 0.5 cm in diameter in a soft, limonitic brown to chloritic green matrix. Chert fragments make up approximately 60% of the rock.	5	0.1	7	95	
2914	Location: Online Creek; 13+83S, 9+27E Rock Type: Rhodonite, Chert Material Sampled and Sample Type: Float, Grab Occurrence Size: 20 cm diameter angular boulder Thinly laminated interlayered light pink rhodonite and tan chert(?) with 10% irregular black siliceous lenses to 0.5 cm wide. Manganese oxide developed on fracture surfaces. Rock is not badly fractured and could be semiprecious gem quality.	5	0.1	5	38	243 Zn 117 Ni 15.30% Mn
2915	Location: 13+56S, 9+10E Rock Type: Sheared Siliceous Siltstone Material Sampled and Sample Type: Outcrop, Grab Occurrence Size: 30 cm wide zone Medium grey to limonitic brown altered siltstone in a shear along a felsic dyke selvage. The rock appears to be bleached, is strongly limonitic on weathered surfaces and contains 2-3% very fine-grained disseminated pyrite and pyrrhotite.	30	0.7	2	242	

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
2916	Location: 12+67S, 9+35E Rock Type: Hematitic Chert, Jasper Material Sampled and Sample Type: Outcrop, Grab Occurrence Size: Several metre wide horizon Dark greenish-grey to purplish grey thinly laminated cherty siltstone and chert with 1-2 mm jasper layers. The darker layers are moderately magnetic. Barren quartz stringers up to 5 mm cut the rock. This is probably the same ferruginous chert horizon exposed and drilled on the Chem property to the northwest.	5	0.1	2	29	
2917	Location: 12+80S, 9+35E Rock Type: Hematitic Chert, Jasper Material Sampled and Sample Type: Outcrop, Grab Occurrence Size: Several metre wide zone Similar to 2916. 2-3% pyrite along hairline fractures parallel to bedding. The rock is dark purplish-grey and moderately magnetic.	5	0.1	2	34	

MPH

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
2918	Location: 10+95S, 8+67E Rock Type: Rhodonite, Jasper, Chert Material Sampled and Sample Type: Outcrop, Grab Occurrence Size: 0.5 m (+) horizon Pale pink rhodonite horizons up to 2 cm wide interlayered with thinly laminated dark brown chert or cherty siltstone and jasper. The rhodonite is of poor quality and contains up to 25% irregular, siliceous black masses of manganese oxide. The exposure is very small and the horizon could contain higher quality material.	5	0.1	65	6	15.62% Mn
2919	Location: Boulder Cr. Road; 13+95S, 9+90E Rock Type: Rhodonite, Chert Material Sampled and Sample Type: Float, Grab Occurrence Size: 30 cm diameter boulder Interlayered rhodonite beds to 2 cm thick and thinly laminated brown chert. The rhodonite beds contain up to 20% irregular masses of siliceous manganese oxide. Fractures are coated with soft black oxide. The rock is similar to 2914.	5	0.1	4	9	179 Zn 102 Ni 25.60% Mn
2920	Location: Online Creek; 13+83S, 9+27E Rock Type: Rhodonite, Chert Material Sampled and Sample Type: Float, Grab Occurrence Size: 30 cm diameter angular boulder Similar to 2914 and 2919. Rhodonite beds up to 2 cm thick are bright pink, relatively unfractured and contain little manganese oxide. This material could be used for carving.	5	0.1	2	5	22.84% Mn

MPH

Sample Number	Description	Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
2921	Location: 13+66S, 9+25E Rock Type: Siliceous Siltstone Material Sampled and Sample Type: Outcrop, Grab Occurrence Size: 20 cm wide lens Dark grey cherty or siliceous siltstone along the margin of a felsic intrusive has been sheared, flooded with 1-2 mm quartz stringers and contains up to 5% pyrite localized along fractures. This is a similar environment to that of sample 2915.	5	0.1	2	235	
2922	Location: 10+78S, 8+60E Rock Type: Chert, Cherty Siltstone Material Sampled and Sample Type: Outcrop, Grab Occurrence Size: 2 cm wide magnetite bearing beds Thinly laminated greenish-grey cherty siltstone interlayered with dark purplish-brown cherty siltstone or chert. The dark layers contain up to 5% fine-grained disseminated magnetite and are strongly magnetic. This material is approximately 20 m to the northwest of, and on strike with the rhodonite showing (sample 2918).	5	0.1	2	5	3660 Mn 106 Ni
2923	Location: 8+80S, 10+45E Rock Type: Chert Material Sampled and Sample Type: Float (near source), Grab Occurrence Size: Few metre wide zone (?) Light grey to greenish-grey chert with 3-5% fine-grained and fracture filling pyrite.	5	0.1	7	31	

Sample Number	Description		Au ppb	Ag ppm	As ppm	Cu ppm	Other ppm
2924	Location:	9+00S, 1+95W	5	0.1	4	64	
	Rock Type:	Felsic Intrusive					
	Material Sampled and Sample Type:	Outcrop, Grab					
	Occurrence Size:	Few metre (+) wide zone					

Medium greenish-grey equigranular felsic intrusive (?). The rock is strongly fractured and 'healed' with hairline calcite stringers.

PETROGRAPHIC REPORT **by J.S. Getsinger, PhD** J. S. Getsinger

For International Cherokee Ltd. **Date** June 1987

Project V243 - MNS **Collector** G. Allen

Sample V243-2920 **Date Collected** May 1987

Location: Never Sweat Claim, Victoria Mining Division, Vancouver Island, B.C. (48°52.1'N Lat., 123°56.3'W Long.)

Rock Type: Rhodonite-bearing chert

Lithogeochemistry: 22.8% Mn; 98 ppm Ni

Hand Specimen: Laminated pink and olive grey to tan rhodonite with black submetallic Mn-stain on surfaces. Greenish-tan layers (<5 mm) host finely disseminated pyrite. Rusty pyritic areas react in HCl, indicating calcite. Pink, hard (>5) rhodonite-bearing layers do not react in HCl. Minor crosscutting fractures are stained black locally.

THIN SECTION (Polished No):

% (Approx.) MINERALS

45-50% Rhodonite $(Mn,Ca,Fe)[SiO_3]$ - similar to clinopyroxene (may include some pyroxmangite): Z' to c = 25°; biref. = 0.020; pink in hand specimen but colourless; med.-high relief; strong extinction dispersion; r>v; (+)2V = 40-50°(?); grains are blocky, subhedral to anhedral; cleavage is not well developed; occurs as finer grains in pink layers and coarser in crosscutting veinlets, associated with quartz

35-45% Quartz - very fine-grained, along layers, probably chert; partly in crosscutting veinlets

<5?% Calcite - indicated by reaction to HCl, not positively identified in thin section due to extremely fine grain size

5-10% Opaques - pyrite, Mn-oxides: very fine-grained, disseminated along some layers

Rock Textures/Structures: Growth of crosscutting rhodonite appears to postdate layering, and may represent recrystallization and remobilization during contact metamorphism. Crosscutting veins of rhodonite emanate from rhodonite-rich layers. Veinlets are quartz-rich across quartzose layers, and relatively rhodonite-rich across rhodonite-bearing layers, indicating local origin of vein material, supporting interpretation of metamorphic remobilization of primary layered Mn-chert deposit.

Protolith: Manganese-rich chert.

Alteration/Mineralization: Rock is metamorphosed/remobilized rather than altered; mineralization includes minor pyrite; and abundant manganiferous silicates and lesser oxide.

Conditions of Formation: Deposition of manganese-rich chert in "exhalative" volcano-sedimentary marine environment; lithification; recrystallization, accompanied by minor remobilization, of quartz and rhodonite, during heating from contact metamorphism of nearby intrusion.

APPENDIX III

CERTIFICATES OF ANALYSIS AND ASSAYS

LAB: R. BACHER / ACME — ANALYTICAL REQU... & RECEIPT — PROJECT V243-II (... 1

SAMPLE SERIES	SOURCE	# SAMPS	TYPE ~~SHIPMENT~~	DATE OUT	~~ANALYTIC~~ REQUEST NO	ALL DATE	ALL CERT # INV #	ICP DATE	ICP CERT #, INV #	ASSAYS DATE	ASSAYS CERT # INV #	RECHECKS DATE	RECHECKS CERT #, INV #
2901 - 2909a	MNS GRID	9	ROCK	MAY 10	55584	MAY 19	87202	MAY 19	87202				
2909 - 2912	"	4	"	"	"	"	"	"	"				
M3-1 SILT	"	1	SILT	"	"	"	"	"	"				
M-7 SILT#1	"	1	"	"	"	"	"	"	"				
M-8 SILT#1	"	1	"	"	"	"	"	"	"				
M-10 SILT#1-3	"	3	"	"	"	"	"	"	"				
14+00S 0+00E - 9+75E	"	40	SOIL	"	"	"	"	"	"				
15+00S 0+00E - 8+75E	"	36	"	"	"	"	"	"	"				
16+00S 0+25E - 8+50E (2 c - N.S.)	"	33	"	"	"	"	"	"	"				
10+00S 0+25W - 6+00W	MNS GRID	24	SOIL	MAY 14	55588	MAY 21	87208	MAY 26	87208				
14+00S 0+25W - 4+25W	"	17	"	"	"	"	"	"	"				
13+00S 0+25W - 5+00W	"	20	"	"	"	"	"	"	"				
18+00S 0+00E - 0+50E	"	3	"	"	"	"	"	"	"				
18+00S 0+75E - 7+00E	"	26	"	"	"	"	"	"	"				
16+00S 0+25W - 4+00W	"	16	"	"	"	"	"	"	"				
18+00S 0+25W - 1+50W	"	6	"	"	"	"	"	"	"				
19+00S 0+25W - 1+50W	"	6	"	"	"	"	"	"	"				
19+00S 0+00E - 6+00E	"	25	"	"	"	"	"	"	"			MAY 27	87208.A
17+00S 0+00W - 3+00W	"	13	"	"	"	"	"	"	"				
17+00S 3+00E - 7+75E	"	20	"	"	"	"	"	"	"			MAY 27	87208.A
17+00S 0+25E - 2+75E	"	11	"	"	"	"	"	"	"				
9+00S 0+00W - 6+00W	"	25	"	"	"	MAY 21	87208	"	"			MAY 27/87	87208.A
11+00S 0+25W - 5+50W	"	22	"	"	"	"	"	"	"				
20+00S 0+25E - 4+50E	"	18	"	"	"	"	"	"	"			MAY 27	87208.A
20+00S 0+00E - 1+50W	"	7	"	"	"	"	"	"	"				
2913 - 2918	"	6	ROCK	"	"	"	"	MAY 26	87208				

No. 2

LAB: ROSSBACHER / ACME — ANALYTICAL REQUESTS & RECEIPT — PROJECT V243-II

SAMPLE SERIES	SOURCE	# SALES	TYPE SHIPMENT	DATE OUT	WAY BILL ~~ANALYTIC~~ REQUEST	AU DATE	AU CERT# INV#	ICP DATE	ICP CERT#, INV#	ASSAYS DATE	ASSAYS CERT# INV#	RECHECKS DATE	RECHECKS CERT#, INV#
9+00S 10+00E - 12+75E	MNSGRID	12	SOIL	MAY 17	55585	MAY 25	87212	MAY 25	87212				
10+00S 10+00E - 13+00E	"	13	"	"	"	"	"	"	"			MAY 27 11+25E-11+75E	87212.A
11+00S 10+25E - 12+50E	"	10	"	"	"	"	"	"	"				
12+00S 10+25E - 11+50E	"	6	"	"	"	"	"	"	"				
12+00S 0+25W -5+00W	"	20	"	"	"	"	"	"	"				
13+00S 10+25E - 11+00E	"	4	"	"	"	"	"	"	"				
15+00S 0+25W - 4+50W	"	18	"	"	"	"	"	"	"				
SILT#M16-1	"	1	SILT	"	"	"	"	"	"				
2919 - 2924	"	6	ROCK	"	"	"	"	"	"	MAY 25 2919,20 -MM	87217		

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.
301-409 GRANVILLE STREET
VANCOUVER B.C.

PROJECT: V243
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87202
INVOICE#: 7615
DATE ENTERED: 87-05-19
FILE NAME: MPH87202
PAGE # : 1

PRE FIX	SAMPLE NAME	PPB Au
S	1400S 000E	5
S	025E	5
S	050E	5
S	075E	5
S	100E	5
S	125E	5
S	150E	5
S	175E	5
S	200E	5
S	1400S 225E	5
S	250E	5
S	275E	5
S	300E	5
S	325E	5
S	350E	5
S	375E	5
S	400E	5
S	425E	5
S	450E	5
S	1400S 475E	5
S	500E	5
S	525E	5
S	550E	5
S	575E	5
S	600E	5
S	625E	5
S	650E	5
S	675E	5
S	700E	5
S	1400S 725E	5
S	750E	5
S	775E	5
S	800E	20
S	825E	5
S	850E	5
S	875E	5
S	900E	5
S	925E	5
S	950E	5
S	1400S 975E	5

CERTIFIED BY : J. Rossbach

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PAGE # : 2

PRE FIX	SAMPLE NAME	PPB Au
S	1500S 000E	10
S	025E	5
S	050E	5
S	075E	5
S	100E	5
S	125E	5
S	150E	5
S	175E	5
S	200E	5
S	1500S 225E	5
S	250E	5
S	275E	5
S	300E	5
S	325E	5
S	350E	5
S	375E	5
S	400E	5
S	425E	5
S	450E	5
S	1500S 475E	5
S	500E	10
S	525E	5
S	550E	5
S	575E	5
S	600E	5
S	625E	5
S	650E	5
S	675E	5
S	700E	5
S	1500S 725E	30
S	750E	5
S	775E	5
S	800E	5
S	825E	5
S	850E	5
S	1500S 875E	5
S	1600S 025E	5
S	050E	5
S	075E	30
S	1600S 100E	5

CERTIFIED BY : F. Rossbach

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PAGE # : 3

PRE FIX	SAMPLE NAME	PPB Au
S	1600S 125E	5
S	150E	5
S	175E	5
S	225E	5
S	250E	5
S	275E	5
S	300E	5
S	325E	5
S	350E	5
S	1600S 375E	5
S	400E	5
S	425E	5
S	450E	5
S	475E	5
S	500E	5
S	525E	5
S	550E	5
S	575E	5
S	600E	5
S	1600S 625E	5
S	650E	5
S	675E	5
S	700E	40
S	725E	280
S	750E	5
S	775E	5
S	800E	5
S	825E	5
S	1600S 850E	20
A	2901	5
A	2902	5
A	2903	5
A	2904	5
A	2905	5
A	2906	5
A	2907	5
A	2908	5
A	2909	5
A	2909A	5
A	2910	5

CERTIFIED BY : G. Rossbach

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CERTIFICATE#: 87202
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DATE ENTERED: 87-05-19
FILE NAME: MPH87202
PAGE # : 4

PRE FIX	SAMPLE NAME	PPB Au
A	2911	5
A	2912	5
L	M3-1	5
L	M-7 SILT#1	5
L	M-8 SILT#1	5
L	M-10 SILT#1	5
L	M-10 SILT#2	5
L	M-10 SILT#3	5

CERTIFIED BY : D. Rossbach

ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

.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 CA P CR MG BA TI B AL NA K W SI ZR CE SN Y NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOLUTION

DATE RECEIVED: MAY 15 1987 DATE REPORT MAILED: May 19/87 ASSAYER: D. Toye ..DEAN TOYE, CERTIFIED B.C. ASSAYER

ROSSBACHER LABORATORY PROJECT - CERT#87202 File # 87-1295 Page 1 V 243

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
2901	1	71	3	116	.1	15	15	388	6.68	2	5	ND	3	7	1	2	2	63	.36	.058	5	39	1.26	77	.20	10	2.55	.04	.23	1
2902	1	35	9	119	.2	17	13	1906	3.30	6	8	ND	2	46	1	2	2	49	1.94	.075	5	125	.94	14	.20	9	2.59	.01	.03	1
2903	6	367	11	115	1.0	4	8	3826	7.77	14	11	ND	2	45	1	2	2	93	2.03	.063	3	33	.85	30	.29	6	3.14	.02	.07	1
2904	1	12	4	22	.1	7	2	304	1.21	2	5	ND	1	10	1	2	4	26	.21	.018	3	245	.35	18	.07	4	.59	.03	.02	1
2905	1	99	2	55	.1	24	11	793	5.48	5	5	ND	1	2	1	3	5	135	.07	.028	2	259	.20	28	.01	2	.24	.01	.02	1
2906	1	20	3	7	.1	14	2	68	2.99	2	5	ND	1	1	1	4	2	16	.01	.014	2	125	.02	7	.01	2	.11	.01	.01	1
2907	1	63	2	57	.2	13	7	483	2.51	4	5	ND	1	23	1	2	2	66	.75	.022	2	126	.65	421	.17	2	1.35	.10	.61	1
2908	1	92	6	133	.1	11	12	2447	5.37	11	6	ND	3	5	1	2	2	79	.10	.080	14	25	1.21	77	.04	3	3.06	.04	.20	1
2909	2	54	8	51	.1	40	17	309	2.34	8	8	ND	3	72	1	2	2	60	6.53	2.066	31	59	.83	163	.03	4	2.08	.06	.39	1
2909a	1	36	2	40	.1	9	5	1073	2.11	8	5	ND	1	4	1	2	4	29	.22	.057	2	143	.83	64	.08	2	.95	.02	.06	1
2910	1	44	2	92	.1	15	4	231	2.44	2	5	ND	1	20	1	2	2	21	.30	.012	3	97	.89	454	.10	9	1.24	.03	.15	1
2911	1	89	8	67	.1	14	9	1006	2.67	2	5	ND	1	20	1	2	6	27	.16	.018	9	71	.66	146	.04	9	1.68	.01	.19	1
2912	1	30	6	35	.1	10	14	409	3.72	2	5	ND	1	33	1	2	2	49	.17	.007	2	149	.86	172	.05	10	1.02	.01	.05	1
M3-1	1	71	20	107	.1	23	15	900	3.91	11	5	ND	1	35	1	2	2	74	.92	.057	12	45	.89	284	.21	8	2.65	.02	.09	1
M-7 SILT81	3	46	14	140	.3	21	15	3729	3.32	12	5	ND	1	44	1	2	3	68	1.13	.067	11	45	.60	204	.16	7	2.81	.02	.08	1
M-8 SILT81	1	31	10	135	.2	56	12	1384	3.18	7	5	ND	1	92	1	2	2	61	.99	.045	10	85	.57	200	.06	7	2.46	.02	.09	1
M-10 SILT81	1	75	12	132	.1	23	14	1071	4.07	17	5	ND	1	33	1	2	2	84	.89	.052	8	55	.84	216	.18	5	2.58	.02	.18	1
M-10 SILT82	1	59	12	101	.1	20	13	796	3.61	6	5	ND	1	25	1	2	2	69	.60	.067	9	50	.67	207	.14	5	3.00	.02	.09	1
M-10 SILT83	1	76	17	126	.1	22	14	1036	3.74	11	5	ND	1	33	1	2	2	74	.71	.068	10	75	.80	266	.18	6	2.91	.02	.12	1
STD C	19	59	39	132	6.9	66	28	995	3.97	42	15	8	34	47	17	16	20	61	.48	.101	38	57	.88	176	.08	37	1.72	.06	.14	13

ROSSBACHER LABORATORY PROJECT - CERT#87202 FILE # 87-1295

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
S 14+00S 000E	1	69	14	89	.1	18	12	1183	3.64	6	5	ND	3	14	1	2	2	81	.24	.096	7	25	.75	143	.13	2	3.30	.01	.10	1
S 14+00S 025E	1	44	9	81	.1	12	10	2413	3.37	5	5	ND	2	14	1	2	2	68	.21	.231	4	19	.60	72	.12	2	2.83	.01	.05	1
S 14+00S 050E	1	41	7	80	.2	11	9	2079	2.88	6	5	ND	2	14	1	2	2	62	.24	.096	5	18	.50	94	.14	2	2.62	.01	.06	1
S 14+00S 075E	1	33	13	87	.2	8	8	1072	2.57	2	5	ND	2	15	1	2	2	56	.28	.059	5	16	.43	72	.15	2	2.02	.01	.04	1
S 14+00S 100E	1	42	7	99	.2	10	9	803	2.74	3	5	ND	3	14	1	2	2	56	.24	.058	8	17	.45	75	.16	2	2.37	.01	.05	1
S 14+00S 125E	1	18	6	61	.2	6	5	304	1.91	2	5	ND	1	13	1	2	2	44	.24	.037	4	11	.29	46	.14	2	1.45	.01	.04	1
S 14+00S 150E	1	26	5	53	.1	5	6	542	2.16	2	5	ND	1	13	1	2	2	48	.22	.028	6	13	.34	65	.13	3	1.70	.01	.04	1
S 14+00S 175E	1	36	11	70	.3	9	8	588	2.30	4	5	ND	1	11	1	2	2	48	.19	.050	4	13	.39	71	.13	2	2.03	.01	.06	1
S 14+00S 200E	1	16	9	52	.1	4	4	362	2.36	4	5	ND	1	11	1	2	2	52	.19	.051	5	12	.25	36	.13	2	1.39	.01	.04	1
S 14+00S 225E	1	40	6	84	.2	8	7	500	2.96	2	5	ND	2	13	1	2	2	57	.19	.061	6	17	.31	86	.14	6	2.91	.01	.06	1
S 14+00S 250E	1	27	9	53	.2	8	5	305	2.64	4	5	ND	1	11	1	2	2	56	.15	.044	5	13	.31	55	.11	2	1.80	.01	.05	1
S 14+00S 275E	1	13	5	48	.4	6	4	277	1.82	2	5	ND	2	11	1	2	2	39	.16	.031	4	10	.23	51	.10	2	1.23	.01	.03	2
S 14+00S 300E	1	82	11	92	.2	17	14	812	4.13	6	5	ND	2	13	1	2	2	85	.18	.068	7	23	.90	194	.18	2	3.46	.01	.11	1
S 14+00S 325E	1	31	15	77	.4	10	7	433	2.91	7	5	ND	3	14	1	2	2	60	.21	.061	5	16	.43	78	.15	2	2.33	.01	.05	1
S 14+00S 350E	1	18	4	80	.2	5	5	713	2.48	3	5	ND	1	12	1	2	4	50	.19	.063	5	15	.35	59	.14	2	1.79	.01	.04	1
S 14+00S 375E	1	92	13	93	.1	28	13	811	4.43	2	5	ND	1	14	1	2	2	79	.18	.038	6	33	1.05	209	.18	3	4.30	.01	.09	1
S 14+00S 400E	1	53	14	103	.2	13	10	613	3.78	2	5	2	2	13	1	2	2	70	.23	.076	5	32	.54	77	.17	2	4.12	.01	.06	1
S 14+00S 425E	1	43	9	83	.1	11	8	601	2.85	5	5	ND	2	13	1	2	2	56	.21	.054	6	17	.42	79	.15	3	2.51	.01	.05	1
S 14+00S 450E	1	18	10	63	.2	5	5	386	2.43	5	5	ND	1	12	1	2	2	51	.22	.028	5	12	.34	61	.13	2	1.44	.01	.04	1
S 14+00S 475E	1	25	15	80	.1	9	6	458	2.74	5	5	ND	1	16	1	2	2	55	.27	.033	5	15	.45	93	.15	3	1.90	.01	.04	1
S 14+00S 500E	1	55	2	84	.1	19	11	612	3.57	2	5	ND	1	13	1	2	2	67	.20	.044	5	20	.68	133	.15	7	3.19	.01	.06	1
S 14+00S 525E	1	25	8	90	.1	9	13	1671	2.42	2	5	ND	1	12	1	2	2	47	.21	.037	5	15	.37	124	.12	2	1.74	.01	.05	1
S 14+00S 550E	1	17	20	104	.3	8	7	1683	1.73	2	5	ND	1	17	1	2	4	37	.29	.089	5	.11	.23	168	.09	2	1.25	.01	.04	1
S 14+00S 575E	1	46	10	115	.2	15	11	1126	3.45	2	5	ND	2	13	1	2	2	66	.25	.094	5	19	.58	116	.16	2	2.59	.01	.05	1
S 14+00S 600E	1	58	11	96	.2	22	10	512	4.10	3	5	ND	1	19	1	2	2	76	.29	.052	5	24	.73	232	.16	4	3.38	.01	.08	1
S 14+00S 625E	1	91	9	103	.1	23	15	708	4.51	7	5	ND	1	14	1	2	2	81	.21	.059	7	27	.89	219	.16	2	3.90	.01	.12	1
S 14+00S 650E	1	50	11	92	.1	17	12	841	3.87	2	5	ND	1	21	1	2	2	72	.33	.034	7	23	.77	177	.15	3	2.93	.01	.09	1
S 14+00S 675E	1	83	10	81	.1	20	13	549	4.35	2	5	ND	1	15	1	2	2	77	.19	.027	6	26	1.08	361	.15	2	3.86	.01	.12	1
S 14+00S 700E	1	59	6	96	.1	17	12	781	3.66	5	5	ND	1	17	1	2	2	67	.27	.042	5	21	.71	255	.13	2	3.18	.01	.09	1
S 14+00S 725E	1	53	9	104	.1	15	10	685	3.63	2	5	ND	1	14	1	2	2	71	.29	.109	5	21	.72	133	.17	2	2.97	.01	.06	1
S 14+00S 750E	1	79	8	91	.1	19	14	752	4.09	6	5	ND	1	16	1	2	2	78	.28	.075	6	24	.92	172	.18	4	3.17	.01	.11	1
S 14+00S 775E	1	63	18	92	.1	18	11	732	3.53	2	5	ND	1	12	1	2	2	69	.21	.073	5	22	.75	141	.15	2	3.01	.01	.06	1
S 14+00S 800E	1	45	14	93	.2	11	9	837	3.16	6	5	ND	1	12	1	2	2	61	.22	.099	5	17	.55	120	.13	2	2.50	.01	.05	1
S 14+00S 825E	1	44	12	79	.1	15	9	454	3.60	2	5	ND	1	13	1	2	2	70	.24	.033	5	18	.65	130	.15	2	2.64	.01	.05	1
S 14+00S 850E	1	36	6	75	.1	11	8	819	2.93	5	5	ND	1	13	1	2	2	57	.24	.049	5	15	.51	116	.12	2	2.02	.01	.05	1
S 14+00S 875E	1	32	12	78	.2	7	7	583	2.41	2	5	ND	1	12	1	2	2	48	.20	.055	5	15	.43	83	.11	2	2.11	.01	.05	1
S 14+00S 900E	1	60	16	88	.1	15	10	717	3.31	2	5	ND	1	12	1	2	2	63	.19	.067	5	19	.67	110	.13	2	3.06	.01	.05	1
S 14+00S 925E	1	33	15	72	.1	10	6	1029	2.37	2	5	ND	1	12	1	2	2	49	.18	.052	4	13	.43	98	.10	2	1.77	.01	.04	1
S 14+00S 950E	1	43	9	153	.1	14	9	1054	3.84	4	5	ND	1	11	1	2	2	70	.22	.080	4	17	.57	124	.13	2	2.83	.01	.06	1
S 14+00S 975E	1	84	11	98	.1	21	12	548	4.06	4	5	ND	1	13	1	2	2	76	.22	.039	5	24	.80	125	.13	2	3.31	.01	.08	1
STD C	19	59	43	130	6.9	46	28	985	3.95	42	7	8	32	46	17	15	20	59	.48	.102	35	56	.88	173	.08	34	1.72	.06	.14	14

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
S 15+00S 000E	1	39	21	84	.1	13	8	2185	2.61	4	5	ND	1	14	1	2	2	57	.21	.108	5	18	.46	98	.10	5	2.32	.01	.04	1
S 15+00S 025E	1	11	16	46	.2	4	4	528	1.78	3	5	ND	1	15	1	2	2	41	.24	.055	5	11	.17	49	.09	2	1.20	.01	.03	1
S 15+00S 050E	1	41	9	66	.1	11	8	542	2.93	2	5	ND	1	15	1	2	2	64	.23	.062	7	18	.46	60	.15	2	2.48	.01	.04	1
S 15+00S 075E	1	52	11	78	.2	13	9	629	2.93	6	5	ND	2	16	1	2	2	63	.26	.059	6	17	.50	76	.16	2	2.77	.01	.05	1
S 15+00S 100E	1	48	11	72	.2	15	10	574	3.09	7	5	ND	1	15	1	2	2	71	.25	.045	6	23	.60	82	.18	2	2.88	.01	.05	1
S 15+00S 125E	1	18	7	67	.1	5	5	404	2.47	5	5	ND	1	15	1	2	6	55	.24	.087	5	14	.31	54	.13	2	1.91	.01	.03	1
S 15+00S 150E	1	42	12	74	.2	11	8	754	2.73	8	5	ND	2	16	1	2	6	61	.20	.040	6	16	.43	85	.15	4	2.54	.01	.05	2
S 15+00S 175E	1	24	6	59	.3	9	5	343	2.20	6	5	ND	1	16	1	2	3	51	.22	.029	7	13	.28	55	.13	4	1.86	.01	.04	1
S 15+00S 200E	1	42	9	67	.1	12	7	445	2.89	4	5	ND	1	12	1	2	4	61	.16	.050	5	15	.48	78	.13	4	2.72	.01	.04	2
S 15+00S 225E	1	37	12	72	.2	10	7	384	2.65	9	5	ND	1	15	1	2	3	55	.20	.032	5	14	.41	63	.12	5	2.80	.01	.05	1
S 15+00S 250E	1	85	9	84	.1	22	13	607	3.89	13	5	ND	2	14	1	2	2	86	.18	.054	7	24	.84	176	.19	4	4.02	.01	.07	1
S 15+00S 275E	1	2	3	42	.2	3	3	287	1.32	3	5	ND	1	13	1	3	2	34	.19	.027	6	9	.17	43	.12	4	1.07	.01	.03	2
S 15+00S 300E	1	32	9	91	.3	10	7	477	2.33	6	5	ND	1	14	1	2	2	51	.20	.042	6	15	.39	65	.14	2	2.39	.01	.04	1
S 15+00S 325E	1	21	12	67	.1	6	5	405	2.20	2	5	ND	1	17	1	2	2	51	.22	.033	6	12	.33	54	.16	2	1.94	.01	.04	1
S 15+00S 350E	1	24	9	73	.1	14	8	590	2.85	7	5	ND	1	16	1	2	4	61	.22	.051	5	23	.42	67	.17	5	2.75	.01	.04	1
S 15+00S 375E	1	15	8	57	.1	10	5	432	2.14	3	5	ND	1	16	1	3	2	49	.24	.045	5	20	.37	41	.14	2	1.61	.01	.03	1
S 15+00S 400E	1	27	9	78	.3	7	6	518	2.87	3	5	ND	1	14	1	2	2	61	.22	.041	6	14	.31	52	.16	4	2.12	.01	.04	1
S 15+00S 425E	1	21	8	58	.1	8	4	312	2.79	9	5	ND	1	12	1	2	2	58	.19	.072	5	16	.36	50	.15	2	2.22	.01	.03	1
S 15+00S 450E	1	29	11	76	.4	8	9	347	2.48	4	5	ND	1	11	1	2	2	47	.18	.059	6	15	.38	68	.11	5	2.02	.01	.04	1
S 15+00S 475E	1	43	7	93	.1	15	9	502	3.88	8	5	ND	1	14	1	2	2	72	.25	.168	5	22	.62	87	.14	7	3.04	.01	.06	1
S 15+00S 500E	1	81	9	84	.5	23	11	640	3.88	10	5	ND	1	16	1	2	2	81	.25	.064	6	24	.84	110	.20	2	3.57	.01	.07	1
S 15+00S 525E	1	42	18	108	.2	16	10	708	3.80	9	5	ND	1	15	1	2	2	79	.20	.091	5	24	.66	116	.19	2	3.82	.01	.06	1
S 15+00S 550E	1	60	9	94	.1	20	12	497	4.28	6	5	ND	1	16	1	2	2	89	.23	.042	7	29	.78	142	.21	3	4.16	.01	.08	1
S 15+00S 575E	1	36	10	105	.2	16	11	624	3.66	7	5	ND	1	17	1	2	2	78	.28	.032	7	23	.59	137	.18	3	3.00	.01	.07	1
S 15+00S 600E	4	68	15	77	.1	20	12	503	4.16	11	5	ND	1	20	1	2	2	90	.35	.023	6	25	.85	155	.22	4	3.59	.01	.06	1
S 15+00S 625E	1	41	16	129	.1	16	14	950	4.10	6	5	ND	1	17	1	2	2	79	.31	.096	6	20	.56	119	.19	2	2.64	.01	.06	1
S 15+00S 650E	1	42	20	147	.1	14	17	2256	3.96	5	5	ND	1	22	1	2	3	72	.45	.082	7	18	.63	152	.20	3	2.63	.01	.08	1
S 15+00S 675E	1	45	17	142	.1	18	15	1786	3.65	6	5	ND	1	18	1	2	2	70	.29	.050	6	19	.64	197	.17	4	2.75	.01	.08	1
S 15+00S 700E	1	13	7	93	.2	9	6	620	1.92	3	5	ND	1	15	1	2	4	40	.25	.032	5	12	.29	91	.11	4	1.51	.01	.04	1
S 15+00S 725E	1	28	5	113	.1	16	9	960	2.88	3	5	ND	1	20	1	2	3	60	.31	.077	6	16	.45	105	.15	10	2.28	.01	.05	1
S 15+00S 750E	1	102	23	99	.2	21	16	738	4.31	9	5	ND	1	22	1	2	2	75	.39	.070	8	27	.92	130	.19	4	3.46	.01	.09	1
S 15+00S 775E	1	44	19	82	.2	16	8	732	3.36	9	5	ND	1	14	1	2	2	67	.24	.062	5	19	.61	95	.15	2	2.49	.01	.05	1
S 15+00S 800E	1	46	20	163	.1	13	12	1357	3.65	4	5	ND	1	21	1	2	2	68	.48	.092	6	17	.54	153	.15	3	2.64	.01	.08	1
S 15+00S 825E	1	83	6	105	.1	23	12	602	4.19	7	5	ND	1	16	1	2	2	85	.28	.084	5	25	.90	123	.18	3	3.15	.01	.07	1
S 15+00S 850E	1	23	8	118	.1	12	10	504	3.50	4	5	ND	2	18	1	2	3	71	.30	.038	6	19	.48	130	.17	2	2.21	.01	.05	1
S 15+00S 875E	1	39	20	102	.1	13	10	1554	3.46	6	5	ND	1	30	1	2	2	73	.44	.042	7	20	.54	195	.14	2	2.51	.01	.07	1
S 16+00S 025E	1	56	12	80	.1	18	9	900	3.44	6	5	ND	1	18	1	2	2	77	.28	.069	5	22	.64	79	.15	6	3.47	.01	.06	1
S 16+00S 050E	1	15	13	64	.1	9	5	1796	1.97	2	5	ND	1	19	1	2	2	47	.33	.056	5	12	.30	64	.13	6	1.45	.01	.03	1
S 16+00S 075E	1	10	2	65	.1	7	4	349	1.66	2	5	ND	1	18	1	2	2	39	.34	.020	5	12	.26	47	.14	3	1.40	.01	.03	1
S 16+00S 100E	1	33	14	57	.1	15	7	1223	2.53	3	5	ND	2	17	1	2	2	57	.30	.048	4	16	.43	64	.12	6	2.15	.01	.05	1
STD C	19	57	43	131	6.7	67	28	998	3.97	41	6	8	32	46	17	15	20	16	.48	.097	35	57	.88	174	.08	36	1.72	.07	.12	13

ROSSBACHER LABORATORY PROJECT - CERT#87202 FILE # 87-1295

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
S 16+00S 125E	1	34	15	78	.1	12	8	1338	2.95	8	5	ND	1	13	1	2	2	63	.21	.086	4	20	.42	50	.13	2	2.96	.01	.03	1
S 16+00S 150E	1	16	11	55	.1	6	4	301	2.53	6	5	ND	1	13	1	2	2	57	.20	.053	3	12	.28	39	.11	2	1.52	.01	.02	1
S 16+00S 175E	1	54	17	91	.1	13	9	982	3.01	8	5	ND	1	14	1	2	2	66	.23	.053	4	19	.61	90	.14	3	2.58	.01	.06	1
S 16+00S 225E	1	14	14	67	.1	8	4	307	2.22	4	5	ND	1	17	1	2	2	46	.20	.032	5	13	.27	50	.13	3	2.05	.01	.04	2
S 16+00S 250E	1	46	13	84	.1	14	8	614	3.05	2	5	ND	1	18	1	2	2	66	.25	.052	6	19	.44	72	.17	2	2.89	.01	.04	1
S 16+00S 275E	1	31	20	85	.3	12	8	1033	3.08	10	5	ND	1	18	1	2	2	68	.26	.060	5	16	.34	99	.15	2	2.32	.01	.05	1
S 16+00S 300E	1	40	16	108	.1	8	9	515	2.90	5	5	ND	1	21	1	2	2	63	.29	.054	5	16	.33	84	.16	4	2.22	.01	.04	1
S 16+00S 325E	1	6	9	59	.1	2	4	424	1.32	2	5	ND	1	23	1	2	2	34	.29	.017	6	9	.18	36	.16	2	.95	.01	.02	1
S 16+00S 350E	1	24	6	81	.1	9	5	518	2.25	4	5	ND	1	21	1	2	2	50	.27	.032	5	17	.33	51	.16	4	1.85	.01	.03	1
S 16+00S 375E	1	16	16	65	.1	9	4	400	2.15	5	5	ND	1	17	1	2	2	49	.27	.032	5	16	.30	56	.16	2	1.41	.01	.04	2
S 16+00S 400E	1	15	13	76	.1	6	4	306	2.37	4	5	ND	1	14	1	2	2	50	.20	.030	5	15	.30	47	.12	2	1.94	.01	.03	1
S 16+00S 425E	1	16	8	60	.1	5	4	307	2.65	3	5	ND	1	13	1	2	2	55	.18	.036	4	17	.31	46	.12	2	2.04	.01	.02	1
S 16+00S 450E	1	34	18	85	.1	9	7	477	2.80	4	5	ND	1	15	1	2	2	59	.23	.051	4	19	.47	71	.14	3	2.25	.01	.04	1
S 16+00S 475E	1	47	16	89	.1	15	9	498	3.36	7	5	ND	1	15	1	2	2	66	.22	.045	5	26	.46	97	.17	3	3.45	.01	.05	1
S 16+00S 500E	1	7	7	68	.1	7	4	1257	1.88	3	5	ND	1	18	1	2	2	43	.30	.030	5	13	.31	117	.13	2	1.38	.01	.03	1
S 16+00S 525E	1	13	9	98	.1	7	7	2239	2.21	5	5	ND	1	18	1	2	2	46	.29	.051	5	16	.30	125	.14	2	1.79	.01	.03	1
S 16+00S 550E	1	12	17	67	.3	11	5	604	2.04	5	5	ND	1	14	1	2	2	44	.24	.032	5	14	.31	65	.12	2	1.40	.01	.03	1
S 16+00S 575E	1	26	12	107	.1	15	9	876	3.06	4	5	ND	1	15	1	2	2	60	.22	.059	5	23	.50	107	.16	2	2.97	.01	.04	1
S 16+00S 600E	1	23	15	95	.1	11	8	600	2.64	5	5	ND	1	14	1	2	2	51	.24	.046	4	16	.48	93	.13	2	1.96	.01	.05	1
S 16+00S 625E	1	57	18	107	.2	16	10	1029	3.66	5	5	ND	1	12	1	2	2	65	.20	.038	4	26	.74	82	.14	2	3.10	.01	.05	1
S 16+00S 650E	1	56	15	158	.1	19	14	1148	3.56	5	5	ND	1	17	1	2	2	64	.28	.066	6	25	.60	147	.11	2	3.07	.01	.07	1
S 16+00S 675E	1	49	17	167	.1	18	14	1393	3.45	8	5	ND	1	14	1	2	2	59	.26	.099	6	24	.54	119	.10	2	2.86	.01	.07	1
S 16+00S 700E	1	122	17	138	.7	28	21	893	4.38	10	5	ND	2	15	1	2	2	69	.28	.076	7	27	.95	130	.15	3	4.00	.01	.09	1
S 16+00S 725E	2	141	25	133	.5	27	26	1105	4.97	21	5	ND	1	27	1	2	4	78	.43	.066	8	29	1.00	127	.17	4	3.38	.01	.09	1
S 16+00S 750E	1	55	17	100	.1	13	11	557	3.38	7	5	ND	1	19	1	2	3	61	.36	.051	4	20	.63	121	.13	3	2.19	.01	.06	1
S 16+00S 775E	1	59	10	140	.1	13	12	683	4.21	4	5	ND	1	15	1	2	2	76	.27	.093	4	23	.77	107	.15	2	3.08	.01	.05	1
S 16+00S 800E	1	19	23	76	.1	7	5	556	2.33	2	5	ND	1	19	1	2	2	53	.28	.021	6	17	.28	97	.13	2	1.49	.01	.03	1
S 16+00S 825E	1	39	14	78	.2	12	8	421	3.71	4	5	ND	1	24	1	2	2	81	.29	.036	5	23	.60	69	.21	2	2.06	.01	.04	1
S 16+00S 850E	1	131	32	102	.1	21	15	948	4.97	5	5	ND	1	29	1	2	2	108	.35	.081	6	30	1.16	129	.25	5	3.04	.01	.06	1
STD C	19	60	41	131	7.0	66	28	982	3.95	44	14	7	32	46	17	16	19	59	.48	.094	34	56	.88	173	.08	35	1.72	.06	.12	12

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.
#2406-555 W.HASTINGS ST. (BOX 12092)
VANCOUVER B.C.
PROJECT: V 243
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87202.A
INVOICE#: 7630
DATE ENTERED: 87-05-22
FILE NAME: MPH87202.A
PAGE # : 1

PRE FIX	SAMPLE NAME	PPB Au I	PPB Au II*	Au II Wt.gm
S	L 16+00S 675E	5	5	6.00
S	700E	40	5	2.00
S	725E	280	300	4.00
S	L 16+00S 750E	5	5	4.00

* Au II VALUES CONVERTED TO 10.00 gm SAMPLE WEIGHT.

CERTIFIED BY : A. Rossbach

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
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CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.
#2406-555 W.HASTINGS ST. (BOX 12092)
VANCOUVER B.C.

PROJECT: V 243
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87208
INVOICE#: 7624
DATE ENTERED: 87-05-21
FILE NAME: MPH87208
PAGE # : 1

PRE FIX	SAMPLE NAME	PPB Au
S	900S 000W	5
S	025W	5
S	050W	5
S	075W	5
S	100W	5
S	125W	5
S	150W	5
S	175W	200
S	200W	5
S	225W	5
S	250W	5
S	275W	5
S	300W	5
S	325W	5
S	350W	5
S	375W	5
S	400W	5
S	425W	5
S	450W	5
S	900S 475W	5
S	500W	20
S	525W	5
S	550W	5
S	575W	5
S	900S 600W	5
S	1000S 025W	5
S	050W	5
S	075W	5
S	100W	5
S	125W	5
S	150W	5
S	175W	5
S	200W	5
S	225W	5
S	250W	5
S	275W	5
S	300W	5
S	325W	5
S	350W	5
S	1000S 375W	5

CERTIFIED BY : J. Rossbach

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VANCOUVER B.C.

PROJECT: V 243
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87208
INVOICE#: 7624
DATE ENTERED: 87-05-21
FILE NAME: MPH87208
PAGE # : 2

PRE FIX	SAMPLE NAME	PPB Au
S	1000S 400W	5
S	425W	5
S	450W	5
S	475W	5
S	500W	5
S	525W	5
S	550W	5
S	575W	5
S	1000S 600W	5
S	1100S 025W	5
S	050W	5
S	075W	20
S	100W	5
S	125W	5
S	150W	5
S	175W	5
S	200W	5
S	225W	5
S	250W	5
S	275W	5
S	300W	5
S	325W	5
S	350W	5
S	375W	5
S	400W	5
S	425W	5
S	450W	5
S	475W	5
S	500W	5
S	525W	5
S	1100 550W	5
S	1300 025W	5
S	050W	5
S	075W	5
S	100W	5
S	125W	5
S	150W	5
S	175W	5
S	200W	5
S	1300 225W	5

CERTIFIED BY : J. Rossbach

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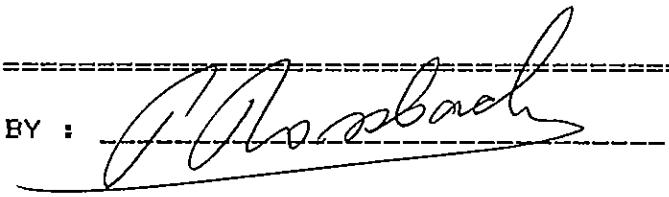
VANCOUVER B.C.

PROJECT: V 243
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87208
INVOICE#: 7624
DATE ENTERED: 87-05-21
FILE NAME: MPH87208
PAGE # : 3

PRE FIX	SAMPLE NAME	PPB Au
S	1300S 250W	5
S	275W	5
S	300W	5
S	325W	5
S	350W	5
S	375W	5
S	400W	5
S	425W	5
S	450W	5
S	475W	5
S	1300S 500W	5
S	1400S 025W	5
S	050W	5
S	075W	3
S	100W	5
S	125W	5
S	150W	5
S	175W	60
S	200W	5
S	225W	5
S	250W	5
S	275W	5
S	300W	5
S	325W	5
S	350W	5
S	375W	5
S	400W	5
S	1400S 425W	5
S	1600S 025W	5
S	050W	5
S	075W	5
S	100W	5
S	125W	5
S	150W	5
S	175W	5
S	200W	5
S	225W	5
S	250W	5
S	275W	5
S	1600S 300W	5

CERTIFIED BY : 

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PROJECT: V 243
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87208
INVOICE#: 7624
DATE ENTERED: 87-05-21
FILE NAME: MPH87208
PAGE # : 4

PRE FIX	SAMPLE NAME	PPB Au
S	1600S 325W	5
S	350W	5
S	375W	5
S	1600S 400W	5
S	1700S 775E	5
S	750E	5
S	725E	40
S	700E	30
S	675E	30
S	650E	5
S	625E	5
S	600E	5
S	575E	5
S	550E	5
S	525E	5
S	500E	5
S	475E	5
S	450E	5
S	425E	5
S	400E	5
S	375E	5
S	350E	5
S	325E	5
S	300E	5
S	275E	5
S	250E	5
S	225E	5
S	200E	5
S	175E	5
S	150E	5
S	125E	5
S	100E	5
S	075E	5
S	050E	5
S	025E	5
S	1700S 000BL	5
S	025W	5
S	050W	5
S	075W	5
S	1700S 100W	5

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CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.
#2406-555 W.HASTINGS ST. (BOX 12092)
VANCOUVER B.C.

PROJECT: V 243
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87208
INVOICE#: 7624
DATE ENTERED: 87-05-21
FILE NAME: MPH87208
PAGE # : 5

PRE FIX	SAMPLE NAME	PPB Au
S	1700S 125W	5
S	150W	5
S	175W	5
S	200W	5
S	225W	5
S	250W	5
S	275W	5
S	1700S 300W	5
S	1800S 700E	5
S	675E	5
S	650E	5
S	625E	5
S	600E	5
S	575E	5
S	550E	5
S	525E	5
S	500E	5
S	475E	5
S	450E	5
S	425E	20
S	400E	10
S	375E	5
S	350E	5
S	325E	30
S	300E	5
S	275E	5
S	250E	5
S	225E	5
S	200E	5
S	175E	5
S	150E	5
S	125E	5
S	100E	5
S	075E	5
S	050E	5
S	025E	5
S	000BL	5
S	025W	5
S	050W	5
S	1800S 075W	5

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BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.
#2406-555 W.HASTINGS ST. (BOX 12092)
VANCOUVER B.C.
PROJECT: V 243
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87208
INVOICE#: 7624
DATE ENTERED: 87-05-21
FILE NAME: MPH87208
PAGE # : 6

PRE FIX	SAMPLE NAME	PPB Au
S	1800S 100W	5
S	125W	5
S	1800S 150W	30
S	1900S 600E	5
S	575E	5
S	550E	5
S	525E	110
S	550E	40
S	475E	5
S	450E	5
S	425E	5
S	400E	5
S	375E	40
S	350E	5
S	325E	5
S	300E	10
S	275E	5
S	250E	50
S	225E	5
S	200E	5
S	175E	5
S	150E	5
S	125E	5
S	100E	5
S	075E	5
S	050E	5
S	025E	5
S	1900S 000BL	5
S	025W	5
S	050W	5
S	075W	5
S	100W	5
S	125W	5
S	1900S 150W	5
S	2000S 450E	5
S	425E	30
S	400E	5
S	375E	5
S	350E	5
S	2000S 325E	30

CERTIFIED BY : J. Rossbach

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.
#2406-555 W.HASTINGS ST. (BOX 12092)
VANCOUVER B.C.
PROJECT: V 243
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87208
INVOICE#: 7624
DATE ENTERED: 87-05-21
FILE NAME: MPH87208
PAGE # : 7

PRE FIX	SAMPLE NAME	PPB Au
S	2000S 300E	230
S	275E	5
S	250E	5
S	225E	5
S	200E	20
S	175E	10
S	150E	5
S	125E	20
S	100E	70
S	075E	5
S	050E	5
S	025E	5
S	200S 000BL	5
S	025W	5
S	050W	5
S	075W	5
S	100W	5
S	125W	5
S	2000S 150W	5
A	2913W	5
A	2914	5
A	2915	30
A	2916	5
A	2917	5
A	2918	5

CERTIFIED BY : J. Rossbach

ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

.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 CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOLUTION

DATE RECEIVED: MAY 21 1987 DATE REPORT MAILED: May 26/87 ASSAYER. D. Toye ..DEAN TOYE, CERTIFIED B.C. ASSAYER

ROSSBACHER LABORATORY PROJECT - CERT#87208 File # 87-1360 Page 1 V243

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
AP 2913	2	95	12	132	.1	14	12	1544	5.37	7	5	ND	2	9	1	2	2	125	.30	.073	13	41	1.43	107	.07	5	2.34	.07	.14	2
AP 2914	5	38	2	243	.1	117	6	69378	1.15	5	5	ND	2	19	2	2	2	91	.43	.017	4	175	.15	34	.05	3	.82	.01	.02	3
AP 2915	87	242	18	46	.7	6	7	813	5.73	2	7	ND	2	34	1	2	2	122	.56	.053	6	51	.76	205	.23	2	1.62	.04	.35	1
AP 2916	1	29	2	22	.1	10	4	351	2.84	2	6	ND	1	7	1	2	2	48	.09	.004	2	202	.25	50	.02	2	.27	.01	.03	1
AP 2917	15	34	2	29	.1	11	6	311	4.27	2	5	ND	1	4	1	2	2	43	.05	.006	2	199	.27	63	.02	2	.32	.01	.03	1
AP 2918	7	6	3	48	.1	47	2	96537	.90	65	5	ND	2	48	1	3	2	84	.32	.015	4	148	.11	1340	.04	2	.46	.01	.06	6
STD C	20	59	37	132	6.8	67	28	987	3.97	39	16	7	34	48	18	16	18	63	.50	.099	36	60	.86	181	.08	38	1.69	.07	.13	14

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
S 9+00S 000W	1	40	21	93	.2	15	9	2443	3.07	2	5	ND	2	14	1	2	2	66	.22	.076	5	23	.57	102	.14	2	2.61	.02	.05	2
S 9+00S 025W	1	59	14	90	.1	18	10	1340	3.38	2	5	ND	2	13	1	3	2	75	.19	.073	6	24	.68	123	.16	2	2.77	.02	.06	2
S 9+00S 050W	1	61	6	83	.1	17	10	1884	3.60	2	5	ND	3	12	1	2	2	80	.19	.095	5	26	.62	98	.14	2	3.08	.02	.06	1
S 9+00S 075W	1	51	7	100	.2	21	11	460	4.29	3	5	ND	2	12	1	2	2	90	.18	.058	5	30	.69	107	.17	2	3.97	.02	.06	1
S 9+00S 100W	1	17	11	74	.1	8	8	1509	2.77	3	5	ND	1	13	1	2	2	56	.21	.089	5	17	.33	72	.12	2	1.77	.01	.05	1
S 9+00S 125W	1	26	10	79	.2	13	8	450	3.59	2	5	ND	2	13	1	2	2	76	.19	.050	5	23	.44	75	.16	2	3.15	.02	.05	1
S 9+00S 150W	1	87	9	86	.1	25	13	745	4.47	4	5	ND	2	13	1	2	2	102	.15	.029	7	37	1.02	234	.21	2	4.05	.02	.09	1
S 9+00S 175W	1	50	9	102	.1	23	13	1331	3.79	2	5	ND	2	13	1	2	2	80	.17	.058	6	27	.56	165	.14	2	3.57	.02	.06	3
S 9+00S 200W	1	60	23	148	.1	21	17	5329	3.83	7	5	ND	2	18	1	2	2	80	.28	.204	5	18	.40	236	.11	2	3.16	.02	.07	1
S 9+00S 225W	1	103	13	124	.1	38	18	854	5.54	7	5	ND	3	15	1	2	2	125	.19	.087	7	36	.77	144	.17	2	5.27	.02	.09	1
S 9+00S 250W	1	97	16	127	.1	25	15	1505	5.04	5	5	ND	2	14	1	2	2	117	.18	.083	6	30	.83	132	.18	2	4.71	.02	.09	1
S 9+00S 275W	1	56	11	97	.1	20	14	2297	4.23	4	5	ND	2	15	1	2	2	90	.17	.075	8	26	.68	206	.12	2	3.42	.02	.07	1
S 9+00S 300W	1	82	5	85	.1	23	15	560	4.57	2	5	ND	3	15	1	2	2	97	.16	.038	17	29	.85	150	.17	2	3.74	.02	.09	1
S 9+00S 325W	1	68	10	94	.1	22	13	1566	4.12	3	5	ND	2	17	1	2	2	89	.20	.065	7	29	.85	196	.14	2	3.32	.02	.09	1
S 9+00S 350W	1	83	8	83	.1	21	15	1229	4.48	2	5	ND	3	22	1	3	2	103	.24	.076	10	25	.89	228	.17	2	3.82	.02	.13	1
S 9+00S 375W	1	72	4	79	.1	18	12	649	3.97	8	5	ND	3	21	1	2	2	90	.25	.047	7	23	.78	139	.16	2	3.15	.02	.07	1
S 9+00S 400W	1	21	5	67	.1	8	7	469	2.87	2	5	ND	1	18	1	2	2	62	.24	.106	5	15	.30	98	.08	2	1.78	.01	.03	1
S 9+00S 425W	1	46	5	78	.1	14	11	1262	3.54	2	5	ND	2	15	1	2	2	74	.25	.143	5	17	.64	101	.11	2	2.22	.02	.05	1
S 9+00S 450W	1	32	12	82	.1	12	8	949	3.59	3	5	ND	2	14	1	2	2	71	.24	.164	4	17	.55	92	.09	2	2.00	.02	.04	1
S 9+00S 475W	1	30	7	89	.1	12	10	1384	3.48	4	5	ND	1	19	1	2	2	76	.33	.086	5	14	.49	106	.11	2	1.88	.02	.05	1
S 9+00S 500W	1	27	8	57	.1	10	8	855	3.11	2	5	ND	1	21	1	2	2	77	.39	.031	4	16	.40	87	.11	2	1.63	.02	.04	1
S 9+00S 525W	1	33	9	81	.1	12	8	915	3.36	5	5	ND	1	16	1	2	2	69	.24	.151	4	19	.50	82	.09	2	1.95	.02	.04	1
S 9+00S 550W	1	38	8	85	.1	17	10	623	3.50	4	5	ND	2	15	1	2	2	75	.20	.087	4	22	.64	91	.11	2	2.44	.02	.04	1
S 9+00S 575W	1	38	6	96	.1	13	8	614	3.74	2	5	ND	2	17	1	2	3	79	.24	.192	4	18	.48	109	.09	2	2.19	.02	.05	1
S 9+00S 600W	1	36	7	108	.1	16	10	1482	3.23	5	5	ND	2	20	1	2	2	70	.29	.094	5	20	.65	123	.10	2	2.23	.02	.05	1
S 10+00S 025W	1	22	9	70	.2	9	7	924	2.41	2	5	ND	2	10	1	2	2	52	.18	.032	5	13	.35	66	.11	2	1.83	.01	.03	1
S 10+00S 050W	1	37	12	67	.1	12	7	923	3.06	2	5	ND	2	11	1	2	3	67	.19	.038	4	18	.43	74	.13	2	2.26	.02	.04	1
S 10+00S 075W	1	38	10	69	.1	12	9	671	3.28	2	5	ND	1	10	1	2	2	79	.17	.053	4	20	.38	88	.12	2	2.35	.02	.04	1
S 10+00S 100W	1	47	10	62	.1	14	8	1330	3.25	2	5	ND	2	12	1	2	2	72	.20	.053	5	19	.54	91	.13	2	2.59	.02	.06	1
S 10+00S 125W	1	48	17	96	.1	19	10	1259	3.95	4	5	ND	2	16	1	3	2	93	.23	.060	6	29	.62	112	.17	2	3.28	.02	.07	1
S 10+00S 150W	1	46	10	77	.1	15	10	717	3.47	3	5	ND	2	16	1	2	2	76	.24	.044	6	22	.56	98	.15	2	2.83	.02	.06	1
S 10+00S 175W	1	35	4	89	.1	15	11	1905	3.21	2	5	ND	1	14	1	2	2	69	.20	.115	5	20	.52	113	.13	2	2.57	.02	.05	1
S 10+00S 200W	1	61	8	108	.1	22	12	1206	4.11	4	5	ND	2	13	1	4	2	86	.17	.092	4	29	.65	111	.18	2	4.70	.02	.06	1
S 10+00S 225W	1	69	9	90	.1	20	11	1138	4.11	2	5	ND	2	18	1	2	2	93	.23	.051	6	29	.79	132	.18	2	3.91	.02	.09	1
S 10+00S 250W	1	60	8	98	.1	22	14	1058	4.00	2	5	ND	2	17	1	2	2	93	.22	.072	7	25	.55	127	.17	2	3.86	.02	.06	1
S 10+00S 275W	1	45	10	112	.1	12	14	3134	3.70	6	5	ND	2	17	1	2	2	83	.28	.184	6	16	.41	154	.12	2	2.78	.02	.06	1
S 10+00S 300W	1	52	11	91	.1	18	12	2701	3.88	4	5	ND	2	25	1	2	2	83	.30	.082	6	25	.85	180	.16	2	3.04	.02	.09	1
S 10+00S 325W	1	89	5	80	.2	22	17	752	4.58	5	5	ND	3	27	1	2	2	100	.23	.036	14	27	1.09	233	.20	2	3.88	.02	.13	1
S 10+00S 350W	1	61	6	100	.1	20	14	1893	3.79	3	5	ND	2	16	1	2	2	81	.19	.079	7	23	.64	196	.12	2	2.96	.02	.08	1
S 10+00S 375W	1	42	11	99	.3	20	12	889	3.80	5	5	ND	3	19	1	2	2	82	.25	.108	7	26	.59	114	.12	2	3.13	.02	.06	1
STD C	20	58	37	132	6.8	67	28	981	3.97	39	17	7	34	48	17	15	21	63	.51	.098	36	59	.86	180	.08	37	1.75	.07	.13	13

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
S 10+00S 400W	1	46	5	84	.1	17	12	1777	3.32	2	5	ND	1	16	1	2	2	71	.24	.046	7	22	.63	142	.12	2	2.73	.02	.07	1
S 10+00S 425W	1	50	17	77	.1	18	12	1204	3.48	5	5	ND	2	17	1	2	2	77	.22	.062	10	19	.59	124	.13	2	2.68	.02	.08	1
S 10+00S 450W	1	42	3	78	.1	16	12	1246	3.28	2	5	ND	2	17	1	2	2	70	.23	.045	9	21	.54	109	.12	2	2.68	.02	.04	1
S 10+00S 475W	1	42	6	82	.1	17	10	718	3.43	2	5	ND	2	17	1	2	2	75	.28	.051	5	20	.63	86	.13	2	2.86	.02	.05	1
S 10+00S 500W	1	19	7	86	.1	10	8	619	2.80	3	5	ND	1	16	1	3	2	59	.24	.122	4	10	.36	89	.08	2	1.68	.02	.03	1
S 10+00S 525W	1	47	7	72	.1	15	9	691	3.30	2	5	ND	2	19	1	2	2	74	.27	.047	5	18	.62	84	.13	2	2.48	.02	.03	1
S 10+00S 550W	1	42	4	87	.1	15	9	453	3.37	2	5	ND	2	16	1	2	2	69	.20	.078	4	21	.44	98	.10	2	2.33	.02	.03	1
S 10+00S 575W	1	28	9	85	.1	14	8	1423	2.97	2	5	ND	1	16	1	2	2	65	.27	.063	4	15	.47	118	.11	2	2.42	.02	.04	1
S 10+00S 600W	1	29	3	116	.2	17	10	464	3.66	2	5	ND	1	15	1	2	2	79	.23	.110	4	20	.55	83	.10	2	2.55	.02	.05	1
S 11+00S 025W	1	61	6	70	.1	16	7	394	3.80	3	5	ND	2	10	1	2	2	85	.15	.066	4	21	.64	64	.18	2	3.55	.02	.04	2
S 11+00S 050W	1	69	6	89	.1	17	9	678	3.90	3	5	ND	2	13	1	2	2	80	.22	.120	6	22	.64	64	.13	2	3.18	.02	.05	1
S 11+00S 075W	1	41	6	79	.1	13	8	949	3.47	3	5	ND	2	11	1	2	2	74	.18	.084	4	19	.47	69	.13	2	2.81	.02	.05	1
S 11+00S 100W	1	46	2	79	.1	14	9	711	3.81	3	5	ND	2	13	1	2	2	78	.18	.100	4	22	.52	72	.15	2	3.87	.02	.04	1
S 11+00S 125W	1	9	6	51	.1	6	5	398	1.74	4	5	ND	1	14	1	2	2	41	.23	.021	4	10	.21	57	.10	3	1.17	.01	.02	1
S 11+00S 150W	1	92	6	87	.1	27	13	653	4.62	3	5	ND	2	11	1	2	2	97	.14	.042	5	32	1.01	219	.21	2	4.56	.02	.09	1
S 11+00S 175W	1	46	7	74	.1	16	9	644	3.19	2	5	ND	2	11	1	2	2	69	.15	.032	5	22	.57	89	.15	2	3.20	.02	.05	1
S 11+00S 200W	1	66	13	86	.1	16	10	1834	3.56	2	5	ND	2	15	1	2	2	85	.19	.058	6	18	.64	126	.15	2	3.27	.02	.08	1
S 11+00S 225W	1	57	8	97	.1	18	13	917	3.66	2	5	ND	2	13	1	2	2	85	.18	.084	5	19	.44	101	.13	2	3.54	.02	.04	1
S 11+00S 250W	1	62	7	65	.2	13	10	690	3.30	2	5	ND	2	14	1	2	2	78	.19	.055	5	15	.60	139	.15	2	3.08	.02	.06	1
S 11+00S 275W	1	39	2	71	.1	13	11	1286	3.62	3	5	ND	2	21	1	2	2	77	.27	.046	5	13	.66	133	.11	2	2.86	.02	.06	1
S 11+00S 300W	1	33	12	104	.2	15	13	2823	3.54	2	5	ND	1	28	1	2	2	75	.33	.068	8	18	.51	158	.12	2	2.81	.02	.08	1
S 11+00S 325W	1	53	17	100	.1	16	12	3221	3.28	3	5	ND	2	23	1	2	2	72	.33	.057	6	19	.66	216	.12	2	2.62	.02	.08	1
S 11+00S 350W	1	86	4	110	.1	23	16	1289	4.13	3	5	ND	2	17	1	2	2	89	.22	.123	5	25	.79	150	.14	3	3.63	.02	.08	1
S 11+00S 375W	1	39	6	72	.1	15	11	941	3.03	2	5	ND	2	22	1	2	2	69	.29	.044	6	17	.57	140	.13	3	2.65	.02	.06	2
S 11+00S 400W	1	30	9	74	.1	13	11	1350	2.83	5	5	ND	1	16	1	2	2	61	.24	.066	5	17	.42	93	.12	3	2.48	.02	.06	1
S 11+00S 425W	1	19	4	81	.1	10	8	641	2.68	2	5	ND	2	15	1	2	2	57	.24	.075	4	13	.41	67	.10	2	1.69	.02	.04	1
S 11+00S 450W	1	28	9	63	.1	9	8	1576	2.67	2	5	ND	2	14	1	2	2	60	.25	.093	4	10	.40	82	.09	2	1.60	.02	.04	1
S 11+00S 475W	1	39	5	75	.1	14	11	585	2.95	3	5	ND	2	14	1	2	2	63	.19	.029	8	16	.55	110	.13	2	2.73	.02	.05	1
S 11+00S 500W	1	29	4	75	.1	11	8	1560	2.77	2	5	ND	1	12	1	2	2	58	.17	.062	4	13	.41	111	.08	2	2.12	.02	.03	1
S 11+00S 525W	1	62	5	74	.1	21	11	598	3.80	7	5	ND	2	15	1	2	2	83	.19	.051	6	23	.86	138	.15	2	2.98	.02	.06	1
S 11+00S 550W	1	89	9	103	.2	30	15	580	5.04	2	5	ND	4	22	1	2	2	109	.25	.053	11	33	.98	140	.20	3	5.15	.02	.10	1
S 13+00S 025W	1	34	11	94	.1	12	9	1928	2.93	4	5	ND	2	14	1	2	2	67	.24	.099	6	17	.43	101	.14	3	2.39	.02	.05	1
S 13+00S 050W	1	71	6	138	.1	22	12	689	4.05	3	5	ND	3	17	1	2	2	88	.23	.045	6	25	.80	128	.20	2	3.90	.02	.07	1
S 13+00S 075W	1	64	6	130	.2	20	11	740	4.03	5	5	ND	3	18	1	2	2	88	.23	.058	8	23	.76	110	.19	3	3.53	.02	.07	1
S 13+00S 100W	1	34	2	147	.2	16	14	1014	2.84	3	5	ND	2	16	1	2	2	60	.27	.038	8	22	.50	127	.18	3	2.62	.02	.08	1
S 13+00S 125W	1	53	5	124	.1	19	14	1115	3.76	2	5	ND	2	13	1	2	2	76	.18	.069	12	22	.43	172	.16	3	3.32	.02	.07	1
S 13+00S 150W	1	47	8	113	.1	19	13	3352	3.35	2	5	ND	2	14	1	2	2	71	.20	.085	6	21	.55	186	.13	2	3.09	.02	.08	1
S 13+00S 175W	1	68	5	88	.1	23	11	1059	3.09	2	5	ND	2	10	1	2	2	83	.14	.060	7	24	.62	127	.13	2	3.97	.02	.07	1
S 13+00S 200W	1	61	2	106	.2	23	14	1009	3.91	2	5	ND	2	10	1	2	2	79	.13	.085	4	26	.61	121	.12	2	3.81	.02	.05	1
S 13+00S 225W	1	67	8	129	.2	41	14	1588	4.29	2	5	ND	2	11	1	2	2	91	.15	.157	5	47	.74	151	.14	2	3.94	.02	.05	1
STD C	19	58	37	131	6.8	68	28	991	3.97	40	18	7	34	47	18	16	20	63	.46	.099	35	58	.86	178	.08	34	1.75	.07	.13	14

ROSSBACHER LABORATORY PROJECT - CERT#87208 FILE # 87-1360

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
S 13+00S 250W	1	55	8	87	.1	18	11	1123	3.51	9	5	ND	1	15	1	2	2	75	.19	.053	5	24	.71	140	.15	2	3.45	.02	.06	3
S 13+00S 275W	1	103	5	101	.1	25	15	830	4.73	6	5	ND	3	9	1	2	2	106	.11	.111	6	34	.82	188	.18	2	4.56	.02	.10	1
S 13+00S 300W	1	74	9	90	.1	19	13	1267	3.84	6	5	ND	2	18	1	2	2	88	.19	.058	11	25	.82	270	.17	2	3.44	.02	.08	1
S 13+00S 325W	1	67	7	79	.1	20	10	787	3.99	3	5	ND	2	13	1	2	2	94	.16	.058	4	24	.72	90	.18	2	3.23	.02	.07	1
S 13+00S 350W	1	25	4	61	.2	9	8	454	2.94	4	5	ND	1	11	1	2	2	65	.17	.037	3	12	.35	63	.10	2	1.78	.01	.03	1
S 13+00S 375W	1	68	10	64	.1	24	9	419	3.52	6	5	ND	3	13	1	2	2	93	.16	.034	7	32	.74	111	.16	2	3.52	.02	.04	3
S 13+00S 400W	1	37	4	60	.1	16	7	453	3.06	3	5	ND	1	10	1	2	2	69	.14	.033	5	22	.50	84	.09	2	2.70	.02	.03	1
S 13+00S 425W	1	15	5	76	.1	9	6	789	1.95	2	5	ND	1	10	1	2	2	41	.15	.049	3	13	.31	66	.05	2	1.35	.01	.02	1
S 13+00S 450W	1	21	5	64	.1	11	9	624	2.51	3	5	ND	1	11	1	2	2	52	.17	.037	3	13	.38	74	.08	2	2.13	.02	.03	2
S 13+00S 475W	1	20	16	69	.1	12	8	917	3.04	5	5	ND	2	14	1	2	3	65	.19	.046	4	16	.41	105	.11	2	2.34	.02	.05	2
S 13+00S 500W	1	50	7	93	.1	19	12	567	4.08	5	5	ND	2	18	1	3	2	92	.23	.060	6	25	.68	101	.17	2	3.40	.02	.07	2
S 14+00S 025W	1	42	3	73	.2	14	8	1021	3.22	9	5	ND	1	11	1	2	2	70	.16	.118	5	19	.53	86	.12	3	2.33	.02	.05	2
S 14+00S 050W	1	19	5	107	.1	8	9	2213	2.41	2	5	ND	1	13	1	2	2	48	.21	.082	6	12	.29	114	.09	2	1.45	.02	.04	1
S 14+00S 075W	1	13	5	121	.4	10	9	1346	2.11	2	5	ND	1	13	1	2	2	46	.22	.075	4	13	.37	81	.09	3	1.46	.01	.04	1
S 14+00S 100W	1	30	16	80	.1	12	9	1937	2.80	5	5	ND	1	16	1	2	2	59	.21	.057	5	17	.48	127	.11	2	1.93	.01	.05	1
S 14+00S 125W	1	34	10	95	.1	15	10	1635	3.08	7	5	ND	1	16	1	2	2	62	.19	.054	6	20	.45	165	.11	2	2.23	.01	.06	1
S 14+00S 150W	1	60	5	99	.1	20	11	1023	3.90	6	5	ND	1	12	1	2	2	78	.15	.075	4	24	.61	139	.14	2	3.48	.02	.09	2
S 14+00S 175W	1	83	6	97	.1	23	14	909	4.37	5	5	ND	2	10	1	2	2	90	.13	.047	23	26	.75	182	.16	2	3.82	.02	.08	3
S 14+00S 200W	1	50	13	100	.1	18	11	3266	3.73	6	5	ND	1	13	1	2	2	77	.17	.092	6	21	.52	188	.11	2	3.08	.02	.06	2
S 14+00S 225W	1	56	5	93	.2	18	9	825	3.70	7	5	ND	2	11	1	2	2	76	.15	.061	6	21	.61	107	.14	2	3.17	.02	.05	2
S 14+00S 250W	1	50	14	82	.1	16	10	1318	3.64	8	5	ND	2	22	1	2	2	82	.28	.053	5	24	.69	123	.16	2	2.68	.02	.08	2
S 14+00S 275W	1	29	12	97	.1	13	10	1873	2.94	5	5	ND	1	18	1	2	2	60	.24	.092	4	15	.49	115	.10	3	2.09	.02	.05	1
S 14+00S 300W	1	82	17	88	.1	21	15	1280	4.26	11	5	ND	2	20	1	2	2	98	.23	.074	9	26	.95	195	.18	2	3.18	.02	.12	3
S 14+00S 325W	1	51	7	87	.1	21	11	979	3.38	7	5	ND	2	12	1	2	2	78	.17	.052	6	29	.55	136	.14	3	3.37	.02	.05	2
S 14+00S 350W	1	20	22	64	.1	9	7	1838	2.09	4	5	ND	1	14	1	2	2	48	.22	.055	4	13	.30	97	.09	2	1.44	.01	.04	1
S 14+00S 375W	1	28	7	62	.1	14	8	596	2.45	2	5	ND	2	11	1	2	2	53	.15	.032	4	19	.41	74	.10	2	2.49	.01	.04	1
S 14+00S 400W	1	40	6	88	.1	17	10	940	2.58	4	5	ND	1	10	1	2	2	55	.14	.048	4	20	.54	87	.12	2	2.55	.02	.04	1
S 14+00S 425W	1	42	6	74	.1	16	9	763	2.89	2	5	ND	2	11	1	2	2	63	.14	.036	5	21	.50	88	.12	2	2.87	.02	.05	1
S 16+00S 025W	1	22	5	61	.1	8	6	354	2.54	3	5	ND	1	9	1	2	3	53	.15	.042	3	11	.32	57	.10	2	1.73	.01	.03	1
S 16+00S 050W	1	28	11	60	.1	11	6	649	2.28	3	5	ND	1	12	1	2	2	51	.19	.029	4	11	.44	66	.12	3	1.62	.02	.04	1
S 16+00S 075W	1	56	8	86	.1	18	11	1119	3.53	7	5	ND	2	18	1	2	2	79	.27	.038	7	24	.80	202	.16	3	2.87	.02	.07	1
S 16+00S 100W	1	51	7	90	.1	16	10	1155	3.28	4	5	ND	2	15	1	2	2	75	.21	.064	6	22	.65	123	.17	2	2.55	.02	.06	1
S 16+00S 125W	1	20	7	114	.1	11	8	1704	2.51	2	5	ND	1	17	1	2	2	52	.25	.153	5	14	.39	106	.10	2	1.85	.02	.06	1
S 16+00S 150W	1	27	6	104	.1	13	10	1685	2.89	4	5	ND	1	16	1	2	2	62	.26	.074	6	19	.49	126	.13	2	2.20	.02	.05	1
S 16+00S 175W	1	25	4	74	.2	14	9	1361	2.70	3	5	ND	1	19	1	2	2	63	.28	.045	6	16	.51	94	.14	2	2.06	.02	.05	2
S 16+00S 200W	1	55	6	111	.1	16	10	2142	3.09	5	5	ND	1	19	1	2	2	72	.26	.135	4	18	.48	128	.14	3	3.03	.02	.06	3
S 16+00S 225W	1	67	6	64	.2	19	9	589	3.56	5	5	ND	2	18	1	2	2	86	.24	.032	5	23	.72	88	.19	2	3.03	.02	.05	3
S 16+00S 250W	1	75	7	64	.1	21	12	563	3.97	5	5	ND	3	16	1	2	2	94	.23	.064	7	23	.80	120	.18	2	2.91	.02	.08	2
S 16+00S 275W	1	69	6	73	.1	20	13	930	4.25	3	5	ND	2	17	1	2	2	99	.23	.055	7	23	.81	137	.17	2	2.78	.02	.08	1
S 16+00S 300W	1	36	6	141	.4	21	10	979	3.51	7	5	ND	2	16	1	2	2	75	.25	.096	5	21	.63	89	.14	2	3.11	.02	.05	1
STD C	21	59	37	131	6.8	67	28	996	3.98	39	18	7	34	48	17	16	21	63	.49	.099	36	58	.92	182	.08	34	1.68	.07	.13	12

ROSSBACHER LABORATORY PROJECT - CERT#87208 FILE # 87-1360

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
S 16+00S 325W	1	24	10	142	.3	17	10	1122	2.65	6	5	ND	2	20	1	2	2	60	.29	.090	5	19	.49	115	.14	3	2.38	.02	.07	2
S 16+00S 350W	1	28	5	112	.1	18	9	1213	2.69	5	5	ND	2	17	1	2	2	61	.22	.076	5	23	.46	132	.05	2	2.45	.02	.06	1
S 16+00S 375W	1	26	8	96	.1	12	8	1434	2.71	2	5	ND	1	21	1	2	2	59	.33	.063	5	17	.45	116	.09	2	1.73	.02	.04	1
S 16+00S 400W	1	55	8	84	.1	27	10	716	3.87	8	5	ND	3	20	1	3	2	88	.25	.030	6	28	.70	144	.15	2	3.29	.02	.08	1
S 17+00S 775E	1	32	10	120	.1	11	9	903	3.04	6	5	ND	2	16	1	3	2	63	.32	.032	6	20	.52	112	.14	2	2.07	.02	.06	1
S 17+00S 750E	1	36	14	209	.1	14	12	652	3.82	11	5	ND	2	14	1	2	2	67	.27	.108	6	21	.60	120	.13	2	2.75	.02	.07	1
S 17+00S 725E	4	180	21	157	.3	32	30	1752	5.58	26	5	ND	3	20	1	2	2	85	.27	.085	11	26	.94	152	.16	2	3.59	.03	.09	1
S 17+00S 700E	2	62	12	149	.2	23	16	656	4.38	12	5	ND	2	12	1	2	2	77	.15	.072	5	27	.64	125	.14	2	3.79	.02	.05	2
S 17+00S 675E	2	86	18	130	.4	21	14	1360	3.75	17	5	ND	2	10	1	2	2	59	.14	.074	5	21	.66	112	.08	2	2.76	.02	.03	1
S 17+00S 650E	1	40	8	89	.3	17	7	380	3.04	6	5	ND	2	12	1	2	2	56	.15	.043	5	23	.55	67	.12	2	2.78	.02	.03	1
S 17+00S 625E	1	31	10	141	.2	17	11	554	3.10	10	5	ND	2	15	1	3	2	61	.22	.047	6	26	.57	149	.14	2	3.08	.02	.05	1
S 17+00S 600E	2	66	9	120	.2	26	14	605	4.26	9	5	ND	2	13	1	2	2	79	.18	.052	5	29	.95	137	.18	2	3.67	.02	.05	1
S 17+00S 575E	1	47	5	106	.1	16	12	1109	3.30	8	5	ND	2	13	1	2	2	64	.18	.055	6	22	.56	102	.14	2	2.62	.02	.04	1
S 17+00S 550E	1	12	6	84	.1	8	7	713	1.79	2	5	ND	2	14	1	2	2	43	.28	.019	5	14	.39	82	.18	3	1.45	.02	.03	1
S 17+00S 525E	1	28	3	110	.1	13	9	711	2.62	3	5	ND	2	17	1	2	2	58	.29	.042	6	22	.55	104	.17	2	2.14	.02	.04	1
S 17+00S 500E	1	83	10	121	.3	21	15	1915	4.08	12	5	ND	1	18	1	2	2	97	.32	.104	4	27	.64	118	.17	2	2.94	.02	.04	1
S 17+00S 475E	1	50	17	128	.3	21	18	3008	3.09	6	5	ND	1	33	1	2	2	83	.43	.057	5	23	.55	132	.23	2	2.34	.02	.03	1
S 17+00S 450E	1	90	13	101	.1	25	13	1251	4.17	10	5	ND	1	27	1	2	2	108	.43	.073	4	33	.58	109	.20	2	3.32	.02	.04	1
S 17+00S 425E	1	48	11	77	.1	13	8	852	3.31	6	5	ND	2	19	1	2	2	79	.29	.058	5	22	.33	71	.15	2	2.22	.02	.03	1
S 17+00S 400E	1	56	6	75	.2	14	7	402	3.45	13	5	ND	2	13	1	2	2	74	.18	.048	4	21	.53	66	.17	2	2.97	.02	.03	1
S 17+00S 375E	1	81	17	123	.3	19	9	526	3.45	9	5	ND	2	17	1	3	2	72	.23	.051	4	34	.57	80	.06	2	3.39	.02	.04	1
S 17+00S 350E	1	28	9	99	.3	10	6	660	2.80	6	5	ND	2	17	1	2	2	58	.21	.048	5	21	.34	63	.13	2	2.17	.02	.04	1
S 17+00S 325E	1	40	7	80	.2	12	6	450	3.37	6	5	ND	2	15	1	2	2	71	.17	.060	5	22	.44	63	.14	2	2.73	.02	.04	1
S 17+00S 300E	1	50	9	107	.3	13	11	840	2.56	4	5	ND	2	16	1	2	2	60	.21	.051	5	20	.45	89	.15	3	2.38	.02	.03	1
S 17+00S 275E	1	67	9	112	.3	12	10	627	2.83	6	5	ND	2	15	1	2	2	67	.18	.050	5	16	.44	90	.17	2	2.66	.02	.04	2
S 17+00S 250E	1	26	12	85	.1	9	7	1657	2.14	8	5	ND	2	14	1	2	2	48	.17	.045	6	10	.32	90	.11	3	1.91	.02	.03	1
S 17+00S 225E	1	33	7	86	.1	12	8	503	2.74	6	5	ND	1	14	1	2	2	60	.17	.054	5	17	.41	83	.14	3	2.70	.02	.03	1
S 17+00S 200E	1	46	11	80	.1	19	8	334	3.31	5	5	ND	2	13	1	2	2	73	.15	.045	5	25	.55	80	.15	2	3.86	.02	.03	1
S 17+00S 175E	1	22	7	83	.1	11	6	391	2.73	5	5	ND	2	10	1	2	2	59	.15	.041	5	17	.44	70	.14	2	2.35	.01	.03	1
S 17+00S 150E	1	10	7	59	.1	4	3	577	1.66	2	5	ND	2	10	1	2	2	38	.19	.037	4	7	.19	58	.11	2	1.11	.01	.03	1
S 17+00S 125E	1	18	8	69	.1	7	5	576	1.72	2	5	ND	2	14	1	2	2	42	.25	.020	5	10	.25	62	.13	2	1.56	.01	.02	1
S 17+00S 100E	1	77	3	76	.1	18	9	451	3.69	5	5	ND	3	14	1	2	2	85	.20	.051	6	25	.73	100	.21	2	3.59	.02	.06	1
S 17+00S 075E	1	27	7	86	.1	9	7	1739	2.50	4	5	ND	1	14	1	2	2	54	.22	.064	5	14	.36	85	.12	3	1.96	.02	.03	1
S 17+00S 050E	1	17	10	76	.1	9	6	910	2.11	2	5	ND	1	14	1	2	2	47	.24	.045	4	10	.29	88	.11	2	1.46	.01	.03	1
S 17+00S 025E	1	47	9	115	.1	18	11	917	3.37	6	5	ND	2	13	1	2	2	70	.20	.110	6	23	.58	127	.14	3	3.42	.02	.06	1
S 17+00S 000E	1	46	8	100	.1	17	10	807	3.13	8	5	ND	2	17	1	2	2	71	.25	.047	7	21	.52	135	.19	2	3.22	.02	.06	2
S 17+00S 025N	1	24	14	96	.1	12	9	2274	2.59	6	5	ND	2	17	1	2	2	59	.28	.050	6	12	.41	124	.14	3	2.16	.02	.06	1
S 17+00S 050N	1	30	9	106	.1	14	9	2354	2.58	5	5	ND	1	14	1	2	2	57	.20	.052	5	15	.41	129	.12	3	2.33	.02	.04	1
S 17+00S 075N	1	22	6	102	.2	12	8	1266	2.43	4	5	ND	1	16	1	2	2	55	.23	.040	4	10	.34	116	.10	2	2.13	.02	.06	1
S 17+00S 100N	1	50	8	91	.1	15	9	1599	3.18	7	5	ND	1	20	1	2	2	67	.22	.034	6	13	.60	216	.13	3	2.77	.02	.11	1
STD C	20	58	37	129	6.8	67	27	981	3.96	42	14	6	34	48	17	15	19	62	.45	.098	36	57	.90	179	.08	36	1.70	.07	.13	12

ROSSBACHER LABORATORY PROJECT - CERT#87208 FILE # 87-1360

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
S 17+00S 125W	1	53	11	106	.1	11	9	871	3.02	3	5	ND	1	71	1	3	2	65	.30	.055	4	17	.43	154	.08	2	3.16	.02	.05	1
S 17+00S 150W	1	9	7	68	.1	6	5	574	1.76	3	5	ND	1	13	1	2	2	40	.22	.092	4	10	.28	51	.07	3	1.18	.02	.03	1
S 17+00S 175W	1	53	15	95	.2	29	14	864	3.92	3	5	ND	3	14	1	2	2	78	.20	.053	6	27	.79	89	.09	2	2.54	.02	.04	1
S 17+00S 200W	1	40	9	98	.1	16	9	1288	3.21	2	5	ND	1	14	1	2	2	70	.21	.068	5	17	.51	93	.12	2	2.46	.02	.04	1
S 17+00S 225W	2	38	10	130	.1	29	11	533	4.11	2	5	ND	2	15	1	3	2	87	.18	.060	5	26	.54	80	.14	2	3.36	.02	.05	1
S 17+00S 250W	1	21	6	86	.1	16	7	942	3.11	2	5	ND	1	16	1	2	2	67	.21	.051	4	19	.46	84	.11	2	2.15	.02	.05	1
S 17+00S 275W	1	52	7	111	.1	26	11	627	4.54	4	5	ND	2	15	1	2	2	91	.22	.177	6	26	.74	90	.10	2	3.21	.02	.04	1
S 17+00S 300W	1	9	5	92	.1	9	7	953	1.92	2	5	ND	1	13	1	2	2	42	.19	.084	4	13	.31	65	.04	2	1.37	.01	.03	1
S 18+00S 700E	1	84	11	95	.1	24	15	825	4.23	7	5	ND	2	12	1	2	2	70	.21	.071	5	25	.88	140	.14	2	2.78	.02	.06	1
S 18+00S 675E	3	103	12	92	.1	25	19	796	4.25	8	5	ND	2	11	1	3	2	75	.15	.058	6	25	.89	125	.17	2	2.90	.02	.05	1
S 18+00S 650E	2	110	13	104	.2	26	21	709	4.26	8	5	ND	3	15	1	4	2	70	.22	.048	6	27	.95	140	.13	2	2.91	.02	.06	1
S 18+00S 625E	1	23	13	102	.1	11	9	1476	2.16	3	5	ND	1	16	1	2	2	46	.28	.047	5	16	.41	168	.12	2	1.71	.02	.05	1
S 18+00S 600E	2	85	12	103	.1	29	15	566	4.45	9	5	ND	3	16	1	2	3	88	.20	.053	6	30	.99	172	.20	2	3.60	.02	.06	1
S 18+00S 575E	1	59	11	117	.1	23	12	863	3.70	5	5	ND	2	18	1	2	2	72	.26	.076	5	27	.68	110	.13	2	2.51	.02	.06	1
S 18+00S 550E	1	57	12	102	.2	29	14	454	4.87	27	5	ND	2	17	1	3	2	110	.23	.056	6	38	.71	100	.19	2	3.78	.02	.05	1
S 18+00S 525E	1	100	21	104	.2	24	12	1241	3.76	12	5	ND	1	23	1	2	2	87	.41	.080	4	30	.78	172	.15	2	3.00	.03	.07	1
S 18+00S 500E	1	96	17	89	.2	29	12	996	3.34	10	5	ND	1	15	1	2	2	79	.25	.072	4	81	.74	90	.14	2	2.50	.02	.04	2
S 18+00S 475E	1	69	8	89	.1	18	10	719	3.05	4	5	ND	1	14	1	2	2	66	.22	.056	4	24	.60	94	.12	2	2.19	.02	.02	1
S 18+00S 450E	1	55	10	79	.1	22	10	954	3.33	8	5	ND	1	14	1	2	2	74	.18	.058	3	32	.56	69	.13	2	2.60	.02	.04	1
S 18+00S 425E	1	66	12	89	.2	18	10	553	3.40	4	5	ND	1	10	1	2	2	74	.14	.066	3	26	.64	71	.13	2	2.81	.02	.03	1
S 18+00S 400E	1	92	12	100	.1	23	12	735	3.99	5	5	ND	3	17	1	2	2	87	.20	.075	5	29	.79	89	.16	2	4.18	.02	.05	1
S 18+00S 375E	1	45	27	117	.1	15	9	4485	3.03	4	5	ND	1	21	1	3	2	64	.40	.104	4	21	.48	176	.08	2	2.46	.02	.05	1
S 18+00S 350E	1	42	16	92	.1	11	7	891	2.80	3	5	ND	1	15	1	2	4	61	.24	.080	4.	15	.50	79	.07	2	2.21	.02	.05	1
S 18+00S 325E	1	52	17	124	.1	13	8	1728	3.26	4	5	ND	2	14	1	2	2	66	.22	.085	5	16	.59	108	.06	2	2.75	.02	.05	1
S 18+00S 300E	1	19	5	103	.1	8	7	604	2.21	2	5	ND	1	16	1	2	2	52	.23	.043	5	12	.32	75	.12	2	1.83	.02	.03	1
S 18+00S 275E	1	22	8	104	.1	11	8	648	2.39	3	5	ND	1	23	1	2	2	57	.29	.044	5	13	.58	99	.13	3	2.08	.02	.04	1
S 18+00S 250E	1	30	33	103	.1	10	7	2566	3.07	4	5	ND	1	14	1	2	2	63	.21	.099	4	13	.31	164	.07	2	1.98	.01	.05	1
S 18+00S 225E	1	35	10	92	.1	10	5	909	3.12	5	5	ND	1	9	1	2	2	59	.14	.101	3	15	.34	108	.04	2	2.05	.01	.03	1
S 18+00S 200E	1	13	9	68	.1	6	4	874	1.65	4	5	ND	1	8	1	2	2	35	.13	.046	3	11	.24	59	.07	3	1.13	.01	.03	1
S 18+00S 175E	1	40	9	68	.1	12	6	790	3.27	7	5	ND	1	9	1	2	2	69	.13	.080	3	16	.44	68	.10	2	2.94	.01	.03	1
S 18+00S 150E	1	18	12	69	.1	7	6	728	2.06	4	5	ND	2	14	1	2	3	41	.24	.046	5	13	.19	65	.10	3	1.48	.02	.05	1
S 18+00S 125E	1	22	10	76	.1	10	7	823	2.45	2	5	ND	2	15	1	2	4	54	.26	.066	5	14	.38	69	.16	3	2.05	.02	.05	1
S 18+00S 100E	1	13	19	76	.1	8	8	2293	1.92	3	5	ND	1	16	1	2	2	42	.29	.033	4	9	.31	104	.12	3	1.32	.02	.04	1
S 18+00S 075E	1	27	10	88	.1	14	9	1222	2.64	3	5	ND	1	15	1	2	2	54	.24	.060	5	20	.47	124	.12	2	2.21	.02	.04	1
S 18+00S 050E	1	37	10	91	.1	15	10	1504	2.86	5	5	ND	1	17	1	2	2	62	.25	.158	4	13	.55	123	.12	2	2.77	.02	.05	2
S 18+00S 025E	1	48	7	81	.1	19	9	675	2.76	6	5	ND	2	12	1	2	2	61	.17	.051	4	16	.79	211	.14	2	3.04	.02	.06	1
S 18+00S 000E	1	33	8	76	.1	12	9	921	2.68	3	5	ND	2	17	1	3	2	60	.29	.046	5	13	.44	142	.14	2	2.21	.02	.06	1
S 18+00S 025W	1	55	10	87	.1	14	8	776	3.31	2	5	ND	1	13	1	2	2	68	.19	.107	4	14	.52	100	.11	2	2.88	.02	.04	1
S 18+00S 050W	1	14	8	71	.1	6	9	2943	1.63	2	5	ND	1	11	1	2	2	33	.16	.046	3	5	.19	115	.05	2	1.27	.01	.03	1
S 18+00S 075W	1	51	7	81	.1	17	9	788	3.47	3	5	ND	2	14	1	2	2	75	.20	.057	5	18	.63	116	.14	2	2.90	.02	.06	1
STD C	19	57	36	132	6.8	68	27	986	4.04	42	18	7	34	48	17	16	19	63	.49	.097	35	58	.90	179	.08	38	1.75	.07	.13	13

ROSSBACHER LABORATORY PROJECT - CERT#87208 FILE # 87-1360

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
S 18+00S 100W	1	18	12	92	.2	9	8	1503	2.37	2	5	ND	1	18	1	2	2	57	.29	.043	4	11	.31	72	.11	3	1.47	.02	.04	1
S 18+00S 125W	1	33	7	104	.1	13	9	938	2.80	3	5	ND	2	19	1	2	2	65	.28	.083	4	16	.50	58	.11	2	2.22	.02	.04	1
S 18+00S 150W	1	14	9	62	.1	7	4	428	2.05	3	5	ND	1	52	1	3	2	55	.34	.038	5	10	.37	53	.12	2	1.79	.02	.04	1
S 19+00S 600E	1	101	6	85	.1	28	16	773	4.44	14	5	ND	3	26	1	2	2	99	.32	.051	9	37	1.11	214	.22	2	3.22	.02	.08	1
S 19+00S 575E	1	24	6	128	.3	14	8	618	2.21	5	5	ND	2	24	1	2	2	56	.37	.086	6	30	.45	77	.14	3	2.11	.02	.03	1
S 19+00S 550E	1	120	11	97	.1	31	16	952	4.02	14	5	ND	2	25	1	2	2	94	.41	.092	6	41	1.04	161	.18	3	3.10	.02	.08	1
S 19+00S 525E	1	119	8	93	.1	45	14	504	4.41	13	5	ND	2	23	1	2	2	112	.30	.080	5	48	1.00	142	.18	2	4.41	.02	.05	1
S 19+00S 500E	1	41	17	171	.3	28	14	1026	3.95	9	5	ND	2	30	1	2	2	83	.50	.101	5	42	.80	107	.16	2	2.97	.02	.05	1
S 19+00S 475E	1	51	21	170	.4	33	15	786	4.15	12	5	ND	2	28	1	2	2	87	.43	.111	5	45	.86	112	.16	2	3.47	.02	.05	1
S 19+00S 450E	1	94	15	152	.1	37	19	1309	4.52	13	5	ND	1	26	1	2	2	103	.35	.089	4	63	.70	117	.18	2	3.12	.02	.04	1
S 19+00S 425E	1	41	13	104	.2	39	15	1579	3.93	10	5	ND	1	25	1	2	2	85	.40	.104	4	87	.63	139	.12	2	2.74	.02	.05	1
S 19+00S 400E	1	44	15	104	.1	24	10	1418	3.45	7	5	ND	1	25	1	2	3	79	.31	.094	4	37	.52	123	.12	2	2.52	.02	.04	1
S 19+00S 375E	1	82	19	101	.1	27	10	1323	3.84	10	5	ND	1	24	1	2	2	89	.33	.133	4	61	.68	118	.12	2	3.13	.02	.04	1
S 19+00S 350E	1	64	10	93	.2	17	9	745	3.42	6	5	ND	2	20	1	2	2	77	.23	.069	5	20	.65	110	.14	2	3.01	.02	.04	1
S 19+00S 325E	1	44	11	86	.1	13	8	856	2.99	5	5	ND	1	19	1	2	2	68	.22	.058	5	16	.52	102	.12	2	2.66	.02	.04	1
S 19+00S 300E	1	24	9	124	.1	9	10	793	1.88	3	5	ND	1	18	1	2	2	43	.23	.026	5	9	.27	110	.10	3	1.85	.02	.04	1
S 19+00S 275E	1	20	8	90	.1	8	7	425	2.18	3	5	ND	1	20	1	2	2	54	.27	.028	5	12	.38	83	.13	2	1.71	.02	.03	1
S 19+00S 250E	1	51	9	92	.2	14	8	343	4.62	11	5	ND	2	19	1	2	3	92	.21	.101	5	16	.56	102	.14	2	2.99	.02	.05	1
S 19+00S 225E	1	39	18	91	.1	12	8	2785	2.88	2	5	ND	1	21	1	2	2	65	.28	.077	5	15	.44	176	.11	2	1.95	.02	.04	1
S 19+00S 200E	1	39	13	90	.1	12	7	497	3.00	5	5	ND	1	18	1	2	3	64	.21	.091	5	18	.48	118	.12	2	2.50	.02	.04	1
S 19+00S 175E	1	37	11	144	.1	14	10	3755	3.14	7	5	ND	1	18	1	2	2	65	.26	.195	5	17	.43	204	.12	4	2.70	.02	.05	1
S 19+00S 150E	1	22	8	76	.1	9	6	608	2.48	6	5	ND	1	18	1	2	2	58	.27	.048	4	14	.36	68	.12	2	1.88	.02	.03	1
S 19+00S 125E	1	22	4	89	.1	11	7	440	2.34	4	5	ND	1	19	1	2	2	56	.28	.040	5	16	.44	58	.12	2	2.01	.02	.03	2
S 19+00S 100E	1	32	10	98	.2	11	7	381	2.90	7	5	ND	2	19	1	2	2	67	.28	.066	5	16	.51	66	.13	3	2.37	.02	.04	1
S 19+00S 075E	1	60	9	69	.1	15	9	505	3.63	9	5	ND	2	18	1	4	2	90	.23	.068	4	20	.67	67	.17	3	4.06	.02	.04	1
S 19+00S 050E	1	39	4	75	.4	11	7	402	3.27	9	5	ND	2	19	1	2	2	74	.26	.066	5	17	.45	69	.14	2	2.82	.02	.04	1
S 19+00S 025E	1	26	16	87	.1	12	8	3034	2.64	4	5	ND	1	19	1	2	2	60	.23	.126	4	15	.45	140	.12	2	2.65	.02	.04	1
S 19+00S 000E	1	32	3	84	.1	12	7	991	2.23	2	5	ND	2	18	1	2	2	50	.19	.043	4	13	.41	138	.10	2	2.55	.01	.05	1
S 19+00S 025W	1	33	9	112	.2	15	8	911	2.51	4	5	ND	2	19	1	2	2	55	.25	.050	5	15	.47	136	.11	3	2.48	.02	.04	1
S 19+00S 050W	1	36	9	68	.1	13	7	1225	2.68	2	5	ND	1	18	1	2	2	53	.15	.033	4	13	.60	103	.09	3	2.39	.01	.05	1
S 19+00S 075W	1	24	5	145	.2	13	10	1982	2.18	4	5	ND	1	23	1	2	2	52	.29	.047	5	13	.45	163	.07	2	2.49	.01	.07	1
S 19+00S 100W	1	23	4	87	.2	14	8	819	2.21	2	5	ND	2	19	1	2	2	56	.27	.027	6	19	.37	68	.10	2	1.99	.02	.03	1
S 19+00S 125W	1	15	7	123	.1	10	8	1217	2.39	4	5	ND	1	25	1	2	2	59	.33	.060	6	16	.33	59	.10	2	1.92	.02	.04	2
S 19+00S 150W	1	16	9	93	.5	13	7	759	2.14	7	5	ND	2	17	1	2	2	55	.23	.030	6	22	.38	57	.06	2	2.21	.01	.04	1
S 20+00S 450E	1	108	22	100	.2	37	16	764	4.33	17	5	ND	2	34	1	2	2	104	.49	.064	6	59	1.29	115	.19	3	3.11	.03	.07	1
S 20+00S 425E	1	68	8	138	.2	43	15	642	3.97	6	5	ND	1	31	1	2	2	86	.55	.091	6	47	1.27	114	.17	2	2.81	.02	.04	1
S 20+00S 400E	1	47	19	119	.1	28	13	1976	3.50	10	5	ND	1	24	1	2	2	78	.38	.120	5	44	.79	139	.14	2	2.55	.02	.04	1
S 20+00S 375E	1	26	14	102	.1	17	9	1350	2.47	6	5	ND	1	25	1	2	2	56	.39	.042	4	26	.52	110	.11	3	1.84	.02	.04	1
S 20+00S 350E	1	28	12	227	.2	16	12	1159	2.93	6	5	ND	2	26	1	2	2	61	.36	.101	6	23	.43	128	.14	3	2.52	.02	.05	1
S 20+00S 325E	1	34	7	151	.2	15	11	1976	2.99	9	5	ND	1	17	1	2	2	62	.24	.151	5	19	.55	144	.10	2	2.42	.02	.05	1
STD C	20	58	36	132	6.9	68	28	995	3.98	41	17	7	35	48	17	16	20	64	.47	.099	36	59	.85	182	.08	34	1.69	.08	.14	13

ROSSBACHER LABORATORY PROJECT - CERT#87208 FILE # 87-1360

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
S 20+00S 300E	1	33	6	107	.1	13	9	589	2.37	2	5	ND	1	18	1	2	2	52	.25	.048	5	16	.51	136	.10	2	2.12	.02	.03	1
S 20+00S 275E	1	51	7	94	.2	16	10	500	3.43	2	5	ND	2	21	1	2	2	76	.27	.081	5	19	.74	101	.13	2	2.61	.02	.05	1
S 20+00S 250E	1	57	20	129	.1	13	12	3692	3.14	10	5	ND	1	52	1	2	2	74	.30	.120	4	13	.60	312	.10	2	2.77	.02	.07	1
S 20+00S 225E	1	46	11	147	.3	14	10	676	3.41	5	5	ND	2	40	1	2	2	71	.28	.131	5	15	.44	196	.11	2	2.66	.01	.05	1
S 20+00S 200E	1	100	16	102	.5	21	13	1079	5.61	2	5	ND	2	29	1	2	2	129	.17	.115	5	19	.57	180	.12	2	4.51	.01	.05	1
S 20+00S 175E	1	63	20	119	.2	14	11	2607	4.17	5	5	ND	1	44	1	2	2	86	.29	.121	5	18	.35	295	.11	2	2.81	.02	.05	2
S 20+00S 150E	1	73	17	100	.2	18	12	2104	4.15	3	5	ND	1	36	1	2	2	84	.25	.122	5	18	.31	260	.13	2	2.69	.01	.05	1
S 20+00S 125E	1	69	13	94	.1	12	12	1295	3.12	4	5	ND	1	102	1	2	2	88	.30	.054	5	13	.40	233	.11	2	2.52	.01	.05	1
S 20+00S 100E	1	50	20	108	.1	11	7	1070	3.26	3	5	ND	1	109	1	2	2	86	.31	.069	4	12	.45	213	.10	2	3.01	.01	.05	1
S 20+00S 075E	1	56	13	133	.1	12	8	1286	3.14	3	5	ND	2	57	1	2	2	61	.33	.082	5	15	.38	222	.10	2	3.14	.01	.06	1
S 20+00S 050E	1	38	6	156	.2	11	10	2212	2.73	2	5	ND	2	45	1	2	2	57	.30	.071	5	14	.33	170	.11	2	2.59	.01	.05	1
S 20+00S 025E	1	64	7	88	.1	17	10	1145	3.14	4	5	ND	2	29	1	2	2	66	.25	.051	5	15	.73	144	.15	2	2.91	.02	.07	2
S 20+00S 000E	1	56	6	66	.1	16	9	690	3.03	3	5	ND	2	18	1	2	2	67	.25	.025	6	16	.68	105	.12	2	2.72	.02	.06	1
S 20+00S 025W	1	52	11	105	.2	21	12	1310	3.47	2	5	ND	2	19	1	2	2	76	.26	.083	5	24	.43	139	.08	2	3.01	.02	.06	1
S 20+00S 050W	1	13	9	88	.1	12	6	345	2.53	2	6	ND	2	22	1	2	2	61	.27	.020	6	18	.31	59	.05	2	1.88	.01	.06	1
S 20+00S 075W	1	13	5	129	.3	14	10	887	2.12	3	5	ND	2	12	1	2	2	55	.16	.062	5	24	.35	85	.01	2	2.47	.02	.05	2
S 20+00S 100W	1	22	5	152	.3	22	11	2322	2.61	2	5	ND	2	15	1	2	2	61	.19	.105	6	29	.46	82	.02	2	2.95	.02	.06	1
S 20+00S 125W	1	15	10	117	.5	15	8	2369	2.32	4	5	ND	2	18	1	2	2	55	.26	.098	5	17	.38	69	.06	2	1.91	.02	.05	2
S 20+00S 150W	1	28	7	122	.2	13	8	720	3.10	2	7	ND	2	20	1	2	2	71	.29	.044	5	17	.44	62	.08	2	2.31	.02	.05	2
STD C	20	57	36	129	4.7	67	27	977	3.95	39	21	7	34	47	17	16	19	62	.45	.097	35	56	.88	176	.08	40	1.74	.07	.13	13

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.
#2406-555 W.HASTINGS ST. (BOX 12092)
VANCOUVER B.C.

PROJECT: V 243
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87208.A
INVOICE#: 7639
DATE ENTERED: 87-05-27
FILE NAME: MPH87208.A
PAGE # : 1

PRE FIX	SAMPLE NAME	ORIG. PPB Au	RERUN PPB Au
S	L 9+00S 150W	5	5
S	L 9+00S 175W	120	5
S	L 9+00S 200W	5	5
S	L 17+00S 750E	5	5
S	L 17+00S 725E	40	50
S	L 17+00S 700E	30	270
S	L 17+00S 675E	30	30
S	L 19+00S 550E	5	5
S	L 19+00S 525E	110	5
S	L 19+00S 500E	40	5
S	L 19+00S 475E	5	70
S	L 20+00S 325E	30	5
S	L 20+00S 300E	230	5
S	L 20+00S 275E	5	5
S	L 20+00S 125E	20	20
S	L 20+00S 100E	70	60
S	L 20+00S 075E	5	10

CERTIFIED BY : J. Rossbach

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.
#2406-555 W.HASTINGS ST. (BOX 12092)
VANCOUVER B.C.
PROJECT: V243
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87212
INVOICE#: 7637
DATE ENTERED: 87-05-25
FILE NAME: MPH87212
PAGE # : 1

PRE FIX	SAMPLE NAME		PPB Au
S	L9+00S	10+00E	5
S		10+25E	5
S		10+50E	30
S		10+75E	5
S		11+00E	5
S		11+25E	5
S		11+50E	5
S		11+75E	5
S		12+00E	5
S	L9+00S	12+25E	5
S		12+50E	5
S	L9+00S	12+75E	5
S	L10+00S	10+00E	5
S		10+25E	5
S		10+50E	5
S		10+75E	5
S		11+00E	5
S		11+25E	5
S		11+50E	180
S	L10+00S	11+75E	5
S		12+00E	5
S		12+25E	5
S		12+50E	5
S		12+75E	5
S	L10+00S	13+00E	5
S	L11+00S	10+25E	5
S		10+50E	5
S		10+75E	5
S		11+00E	5
S	L11+00S	11+25E	5
S		11+50E	5
S		11+75E	5
S		12+00E	5
S		12+25E	5
S	L11+00S	12+50E	5
S	L12+00S	10+25E	5
S		10+50E	5
S		10+75E	5
S		11+00E	5
S	L12+00S	11+25E	5

CERTIFIED BY : A. Rossbach

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.
#2406-555 W.HASTINGS ST. (BOX 12092)
VANCOUVER B.C.
PROJECT: V243
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87212
INVOICE#: 7637
DATE ENTERED: 87-05-25
FILE NAME: MPH87212
PAGE # : 2

PRE FIX	SAMPLE NAME		PPB Au
S	L12+00S	11+50E	5
S	L12+00S	0+25W	5
S		0+50W	5
S		0+75W	5
S		1+00W	5
S		1+25W	5
S		1+50W	5
S		1+75W	5
S		2+00W	5
S	L12+00S	2+25W	5
S		2+50W	5
S		2+75W	5
S		3+00W	5
S		3+25W	5
S		3+50W	5
S		3+75W	5
S		4+00W	5
S		4+25W	5
S		4+50W	5
S		4+75W	5
S	L12+00S	5+00W	5
S	L13+00S	10+25E	5
S		10+50E	5
S		10+75E	5
S	L13+00S	11+00E	5
S	L15+00S	0+25W	5
S		0+50W	5
S		0+75W	5
S		1+00W	5
S	L15+00S	1+25W	5
S		1+50W	5
S		1+75W	5
S		2+00W	5
S		2+25W	5
S		2+50W	5
S		2+75W	5
S		3+00W	5
S		3+25W	5
S		3+50W	5
S	L15+00S	3+75W	5

CERTIFIED BY : J. Rossbach

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.
#2406-555 W.HASTINGS ST. (BOX 12092)
VANCOUVER B.C.

PROJECT: V243
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87212
INVOICE#: 7637
DATE ENTERED: 87-05-25
FILE NAME: MPH87212
PAGE # : 3

PRE FIX	SAMPLE NAME		PPB Au
S	L15+00S	4+00W	5
S		4+25W	5
S	L15+00S	4+50W	5
L		M16-1	5
A		2919	5
A		2920	5
A		2921	5
A		2922	5
A		2923	5
A		2924	5

CERTIFIED BY : R. Rossbach

ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

.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 CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOLUTION

DATE RECEIVED: MAY 22 1987 DATE REPORT MAILED: May 25/87 ASSAYER. D. Toye .DEAN TOYE, CERTIFIED B.C. ASSAYER

ROSSBACHER LABORATORY PROJECT - CERT#87212 File # 87-1386 Page 1

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
S L9+00S 10+00E	1	13	11	51	.1	7	3	255	2.01	10	6	ND	1	4	1	2	2	42	.10	.042	2	12	.35	54	.06	2	1.14	.01	.01	1
S L9+00S 10+25E	1	12	6	56	.1	8	5	477	2.19	5	5	ND	1	4	1	2	2	36	.07	.019	2	14	.39	67	.05	2	1.32	.01	.01	1
S L9+00S 10+50E	1	9	12	49	.1	4	2	821	2.13	6	6	ND	1	3	1	2	2	36	.07	.048	2	9	.15	59	.05	2	.84	.01	.01	2
S L9+00S 10+75E	1	47	12	86	.1	12	7	1140	4.46	12	5	ND	2	5	1	2	2	69	.08	.268	3	23	.39	98	.09	2	2.91	.01	.03	1
S L9+00S 11+00E	2	104	12	90	.1	29	10	459	4.56	18	5	ND	3	5	1	2	2	77	.07	.047	6	30	.99	114	.20	2	4.28	.02	.04	1
S L9+00S 11+25E	1	53	6	123	.1	29	21	867	4.23	15	5	ND	2	8	1	2	2	64	.13	.046	4	25	.83	122	.14	2	2.54	.02	.03	1
S L9+00S 11+50E	1	56	6	98	.2	26	14	752	4.54	11	5	ND	2	7	1	2	3	75	.10	.049	4	28	.74	124	.15	2	3.08	.01	.03	1
S L9+00S 11+75E	1	39	9	75	.2	19	8	497	3.55	12	5	ND	1	8	1	2	2	62	.13	.041	2	22	.58	89	.15	2	2.77	.01	.03	1
S L9+00S 12+00E	1	59	5	75	.2	21	10	378	3.86	13	5	ND	2	6	1	2	2	64	.08	.026	2	26	.71	93	.16	2	3.38	.02	.03	1
S L9+00S 12+25E	1	15	7	65	.5	7	5	386	2.46	8	5	ND	1	6	1	2	2	41	.09	.042	2	14	.31	49	.08	3	1.41	.01	.01	1
S L9+00S 12+50E	1	51	5	82	.2	18	10	339	3.61	7	5	ND	1	7	1	2	3	56	.09	.073	2	18	.53	57	.13	2	2.99	.02	.03	1
S L9+00S 12+75E	1	72	2	78	.3	21	11	478	4.01	13	5	ND	2	7	1	3	2	66	.07	.044	4	26	.79	82	.16	2	3.11	.02	.03	1
S L10+00S 10+00E	1	14	6	48	.2	8	4	279	2.59	6	5	ND	1	4	1	3	2	49	.06	.026	2	13	.38	58	.07	2	1.28	.01	.01	2
S L10+00S 10+25E	1	32	9	76	.2	13	7	555	2.95	8	5	ND	1	5	1	2	2	53	.11	.054	2	14	.50	79	.10	2	1.86	.01	.02	1
S L10+00S 10+50E	1	8	5	48	.1	5	3	200	1.77	2	5	ND	1	5	1	2	2	36	.12	.018	2	8	.27	54	.09	2	.97	.01	.01	2
S L10+00S 10+75E	1	59	10	101	.2	24	10	1057	4.15	13	5	ND	2	7	1	2	2	73	.09	.080	2	32	.75	101	.18	2	4.47	.02	.03	1
S L10+00S 11+00E	1	16	7	81	.1	8	5	1057	2.60	5	5	ND	1	7	1	2	2	44	.12	.108	3	12	.26	94	.06	2	1.48	.01	.02	1
S L10+00S 11+25E	2	54	7	84	.1	17	11	1758	3.89	8	5	ND	1	6	1	2	2	74	.08	.042	4	22	.45	128	.12	2	2.42	.01	.02	1
S L10+00S 11+50E	2	36	4	75	.1	17	12	910	3.90	7	5	ND	1	6	1	2	2	69	.11	.017	4	18	.47	114	.13	2	2.16	.01	.02	1
S L10+00S 11+75E	3	46	6	88	.2	21	12	564	4.05	13	5	ND	1	14	1	2	2	71	.38	.037	3	22	.56	109	.13	2	2.60	.01	.03	1
S L10+00S 12+00E	1	18	5	77	.1	6	5	710	2.27	6	5	ND	1	6	1	2	2	34	.09	.080	2	10	.22	100	.05	2	1.45	.01	.01	2
S L10+00S 12+25E	1	16	11	94	.4	11	6	1505	2.97	7	5	ND	1	9	1	2	3	43	.13	.110	2	20	.39	114	.08	2	1.98	.01	.03	1
S L10+00S 12+50E	3	52	10	107	.3	19	11	725	4.18	13	5	ND	2	10	1	2	2	60	.15	.080	2	27	.70	84	.13	2	3.45	.01	.01	2
S L10+00S 12+75E	2	53	10	99	.3	16	10	885	3.49	15	5	ND	1	22	1	2	2	54	.40	.087	3	20	.58	106	.13	2	2.68	.01	.03	1
S L10+00S 13+00E	2	70	5	83	.1	22	11	397	4.08	13	5	ND	2	9	1	2	2	60	.11	.060	4	22	.74	89	.14	2	3.27	.01	.02	1
S L11+00S 10+25E	1	24	4	61	.1	12	5	282	3.30	3	5	ND	1	7	1	2	2	62	.13	.019	3	18	.57	64	.13	2	1.96	.01	.02	1
S L11+00S 10+50E	1	49	9	84	.1	18	8	492	3.60	10	5	ND	1	9	1	2	2	66	.13	.056	3	22	.66	95	.16	2	2.79	.02	.02	1
S L11+00S 10+75E	1	76	6	96	.1	27	11	459	4.34	15	5	ND	1	8	1	2	2	78	.10	.057	4	31	.90	119	.22	2	4.26	.02	.03	1
S L11+00S 11+00E	1	42	6	93	.1	17	10	875	3.46	9	5	ND	1	9	1	2	2	62	.14	.071	3	21	.58	108	.13	2	2.65	.02	.02	1
S L11+00S 11+25E	2	47	5	83	.1	19	11	517	3.67	8	5	ND	1	10	1	2	2	67	.14	.041	4	25	.61	97	.14	2	2.63	.02	.04	1
STD C	21	59	36	133	6.9	68	28	993	3.99	40	15	7	35	48	17	16	22	64	.48	.099	36	57	.88	182	.08	36	1.72	.07	.14	13

ROSSBACHER LABORATORY PROJECT - CERT#87212 FILE # 87-1386

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
S L11+00S 11+50E	2	18	6	44	.1	10	6	307	3.30	7	5	ND	1	8	1	2	2	64	.18	.019	3	13	.40	54	.06	2	1.77	.01	.03	1
S L11+00S 11+75E	2	60	14	84	.1	24	12	630	4.70	11	5	ND	1	23	1	2	2	78	.32	.049	4	23	.58	173	.11	2	3.23	.02	.04	1
S L11+00S 12+00E	1	9	9	61	.1	7	5	615	2.64	3	5	ND	1	10	1	2	2	47	.18	.023	2	14	.28	90	.07	2	1.09	.01	.03	1
S L11+00S 12+25E	1	18	7	120	.1	12	8	843	3.14	3	5	ND	1	10	1	2	2	45	.19	.063	2	17	.48	130	.09	2	1.92	.01	.02	1
S L11+00S 12+50E	4	70	17	102	.4	23	33	2440	4.23	12	5	ND	1	25	1	2	2	59	.56	.064	19	26	.79	146	.13	2	3.09	.01	.03	1
S L12+00S 10+25E	1	52	15	100	.1	21	10	1089	3.94	3	5	ND	1	12	1	2	2	70	.22	.046	3	22	.85	126	.18	2	2.54	.02	.03	1
S L12+00S 10+50E	1	89	5	93	.2	29	13	623	4.68	9	5	ND	3	13	1	2	2	84	.19	.070	5	31	1.15	135	.25	2	3.32	.02	.06	2
S L12+00S 10+75E	1	79	13	79	.1	30	12	470	4.43	9	5	ND	2	12	1	2	2	80	.13	.030	5	33	1.07	142	.25	2	3.57	.02	.05	1
S L12+00S 11+00E	1	68	4	78	.1	27	12	525	4.14	7	5	ND	2	13	1	2	2	74	.16	.032	5	26	.99	114	.25	2	2.91	.02	.04	1
S L12+00S 11+25E	1	47	8	99	.1	20	11	574	3.72	5	5	ND	2	14	1	2	2	65	.18	.102	4	26	.61	76	.17	2	3.13	.02	.03	1
S L12+00S 11+50E	1	76	9	96	.4	28	13	640	4.53	6	5	ND	3	12	1	2	2	75	.15	.050	6	33	.97	97	.17	2	3.38	.02	.04	1
S L12+00S 0+25W	1	52	8	71	.1	14	8	1359	3.29	4	5	ND	2	10	1	2	2	71	.16	.120	4	14	.57	56	.13	2	2.67	.02	.04	1
S L12+00S 0+50W	1	53	10	79	.2	16	10	1533	3.38	8	5	ND	2	12	1	2	2	76	.17	.056	4	24	.59	74	.15	2	3.16	.02	.07	1
S L12+00S 0+75W	1	57	7	81	.1	20	12	751	3.77	4	5	ND	2	11	1	2	2	89	.17	.057	5	30	.67	112	.19	2	3.67	.02	.06	1
S L12+00S 1+00W	1	32	6	75	.1	14	9	611	3.09	2	5	ND	2	14	1	2	3	67	.21	.031	4	14	.57	78	.14	2	2.54	.02	.04	1
S L12+00S 1+25W	1	67	5	91	.1	21	11	717	4.11	4	5	ND	2	11	1	2	2	94	.15	.030	7	26	.85	161	.19	2	4.05	.02	.07	2
S L12+00S 1+50W	1	49	10	90	.1	18	12	1498	3.80	5	5	ND	2	11	1	2	2	83	.15	.050	5	20	.59	129	.15	2	3.62	.01	.07	1
S L12+00S 1+75W	1	54	10	91	.1	20	12	1179	4.00	9	5	ND	2	9	1	2	2	85	.13	.067	4	22	.54	117	.13	2	3.64	.01	.04	2
S L12+00S 2+00W	1	76	11	88	.1	23	12	904	4.66	3	5	ND	3	7	1	2	2	98	.09	.093	4	28	.61	118	.13	2	4.66	.02	.06	1
S L12+00S 2+25W	1	52	8	85	.1	16	10	584	3.69	4	5	ND	2	10	1	2	2	72	.12	.068	4	19	.43	115	.08	2	3.62	.01	.04	1
S L12+00S 2+50W	1	45	2	101	.1	16	13	1884	3.20	3	5	ND	2	16	1	2	2	69	.19	.049	7	16	.62	153	.11	2	3.03	.01	.07	1
S L12+00S 2+75W	1	50	6	105	.1	14	12	3438	3.50	2	5	ND	2	14	1	2	2	70	.18	.126	8	14	.33	182	.10	2	2.78	.02	.09	1
S L12+00S 3+00W	1	61	5	71	.1	13	16	1067	4.46	6	5	ND	4	53	1	2	2	95	.76	.084	10	15	1.01	140	.16	2	2.57	.04	.14	2
S L12+00S 3+25W	1	77	7	95	.1	21	14	1689	4.17	11	5	ND	3	19	1	2	2	91	.29	.076	5	22	.83	151	.16	2	3.28	.02	.11	1
S L12+00S 3+50W	1	63	9	83	.1	18	12	945	3.83	2	5	ND	3	18	1	2	2	86	.23	.051	8	19	.76	160	.16	2	3.27	.02	.09	1
S L12+00S 3+75W	1	59	12	76	.1	18	13	1674	3.85	5	5	ND	2	16	1	2	2	81	.21	.053	4	18	.75	141	.13	2	2.85	.02	.06	1
S L12+00S 4+00W	1	25	8	66	.1	11	9	1413	3.02	4	5	ND	2	14	1	2	2	63	.21	.088	4	15	.46	92	.09	2	2.11	.02	.03	1
S L12+00S 4+25W	1	8	6	44	.1	4	6	1819	1.64	2	5	ND	1	12	1	2	2	38	.19	.026	4	6	.19	72	.07	2	.94	.01	.03	1
S L12+00S 4+50W	1	28	12	81	.2	16	10	1055	3.79	2	5	ND	2	13	1	2	2	76	.20	.127	3	18	.48	104	.11	2	3.87	.02	.05	1
S L12+00S 4+75W	1	15	9	75	.1	9	8	1251	2.38	2	5	ND	1	11	1	2	2	48	.18	.055	3	10	.31	91	.07	2	1.75	.01	.02	1
STD C	21	61	37	136	7.1	45	28	1011	3.97	43	16	7	35	49	18	16	19	65	.50	.103	37	60	.92	185	.08	32	1.76	.08	.14	13

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
S L12+00S 5+00W	1	50	8	87	.1	17	12	910	3.94	6	5	ND	3	18	1	2	2	89	.23	.062	6	20	.64	104	.15	2	3.52	.02	.06	1
S L13+00S 10+25E	1	9	8	59	.1	5	4	481	1.86	2	5	ND	1	8	1	2	2	44	.14	.022	4	9	.24	104	.06	2	1.19	.01	.03	1
S L13+00S 10+50E	1	73	10	104	.1	21	12	599	4.20	7	5	ND	2	10	1	2	2	81	.23	.065	4	23	.77	172	.17	2	3.46	.02	.04	1
S L13+00S 10+75E	1	26	15	94	.1	12	7	1614	3.51	5	5	ND	1	9	1	2	2	69	.21	.035	3	17	.60	198	.12	2	1.88	.01	.03	1
S L13+00S 11+00E	1	25	10	77	.1	10	6	537	2.96	4	5	ND	1	11	1	2	2	60	.24	.039	3	14	.41	98	.13	2	1.59	.01	.03	1
S L15+00S 0+25W	1	32	7	83	.1	11	7	1780	3.21	3	5	ND	1	7	1	2	2	63	.12	.097	3	14	.41	75	.11	2	2.55	.01	.02	1
S L15+00S 0+50W	1	38	16	83	.1	15	8	1345	3.21	4	5	ND	2	8	1	2	2	64	.12	.199	3	17	.50	76	.10	2	2.49	.01	.04	1
S L15+00S 0+75W	1	19	3	114	.2	12	9	1360	2.64	5	5	ND	1	7	1	2	2	48	.13	.153	4	12	.45	97	.07	2	1.84	.01	.03	1
S L15+00S 1+00W	1	24	7	136	.2	15	9	822	2.98	2	5	ND	2	9	1	2	2	50	.16	.193	4	14	.57	132	.07	2	2.11	.01	.07	1
S L15+00S 1+25W	1	16	3	108	.2	9	8	1582	1.90	2	5	ND	1	15	1	2	2	39	.22	.060	4	11	.37	118	.09	2	1.34	.01	.06	1
S L15+00S 1+50W	1	32	11	97	.1	15	10	3392	3.02	4	5	ND	1	19	1	2	2	64	.27	.081	4	16	.68	121	.11	2	2.08	.02	.06	1
S L15+00S 1+75W	1	49	7	109	.1	19	11	1460	3.55	2	5	ND	1	13	1	2	2	71	.18	.069	6	23	.75	163	.15	2	2.93	.02	.06	1
S L15+00S 2+00W	1	90	8	88	.1	18	12	529	4.61	9	5	ND	2	10	1	2	2	114	.11	.039	5	21	1.00	372	.20	2	3.90	.02	.16	1
S L15+00S 2+25W	1	57	7	88	.1	20	12	1742	3.63	2	5	ND	2	9	1	2	2	72	.12	.062	6	22	.68	137	.13	2	3.18	.02	.06	1
S L15+00S 2+50W	1	14	25	114	.1	8	7	6495	2.11	6	5	ND	1	12	1	2	2	40	.19	.114	5	9	.22	165	.06	2	1.33	.01	.04	1
S L15+00S 2+75W	1	33	16	83	.1	11	8	1826	2.83	2	5	ND	1	9	1	2	2	59	.15	.081	3	13	.40	91	.09	2	2.06	.01	.03	1
S L15+00S 3+00W	1	69	8	57	.1	14	10	702	3.49	8	5	ND	2	8	1	2	2	78	.15	.071	4	14	.66	84	.13	2	2.39	.02	.03	1
S L15+00S 3+25W	1	20	8	77	.1	9	9	2122	2.38	2	5	ND	1	8	1	2	2	45	.15	.143	2	12	.35	80	.05	2	1.58	.01	.02	1
S L15+00S 3+50W	1	12	6	63	.1	8	6	914	1.77	3	5	ND	1	8	1	2	2	34	.16	.048	2	11	.25	65	.05	2	1.22	.01	.02	1
S L15+00S 3+75W	1	11	8	66	.1	7	8	1859	1.92	5	5	ND	1	7	1	2	2	37	.13	.045	3	9	.24	55	.05	2	1.26	.01	.01	1
S L15+00S 4+00W	1	22	11	71	.2	15	8	1205	2.24	3	5	ND	2	9	1	2	2	47	.12	.059	2	18	.33	71	.06	2	1.91	.01	.03	1
S L15+00S 4+25W	1	24	9	73	.1	10	8	1540	2.64	4	5	ND	1	6	1	2	2	51	.11	.093	2	12	.48	62	.04	2	1.57	.01	.02	1
S L15+00S 4+50W	1	36	12	97	.2	17	9	1415	2.94	2	5	ND	1	7	1	2	2	57	.11	.070	4	13	.54	98	.07	2	2.16	.01	.04	1
L M14-1	1	69	10	91	.1	28	14	936	3.88	5	5	ND	2	20	1	2	2	73	.51	.051	4	267	.81	167	.10	2	2.21	.03	.08	3
A 2919	6	9	8	179	.1	102	2	84777	.64	4	5	ND	1	16	1	2	2	7	.48	.016	2	76	.13	60	.01	4	.15	.01	.02	2
A 2920	4	5	7	84	.1	98	2	39821	.40	2	5	ND	1	15	1	2	2	10	.35	.013	2	110	.05	91	.01	2	.08	.01	.02	1
A 2921	2	235	4	47	.1	9	9	1040	4.26	2	5	ND	1	11	1	2	2	91	.34	.054	2	68	.56	73	.14	2	1.09	.06	.20	1
A 2922	1	5	4	71	.1	106	12	3660	2.35	2	5	ND	1	5	1	2	2	32	.43	.065	2	115	1.04	39	.04	2	1.05	.03	.02	1
A 2923	3	31	6	17	.1	11	3	237	1.61	7	5	ND	1	2	1	2	2	11	.02	.009	2	192	.12	81	.01	2	.23	.01	.08	1
A 2924	1	44	7	74	.1	10	11	987	4.02	4	7	ND	2	16	1	2	2	116	3.49	.073	2	44	.99	8	.07	4	3.52	.04	.01	1
STD C	19	58	36	131	6.9	67	27	968	3.97	38	14	7	34	47	17	16	19	62	.45	.098	35	55	.91	177	.08	36	1.69	.08	.12	13

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.
#2406-555 W.HASTINGS ST. (BOX 12092)
VANCOUVER B.C.

PROJECT: V 243
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 87212.A
INVOICE#: 7640
DATE ENTERED: 87-05-27
FILE NAME: MPH87212.A
PAGE # : 1

PRE FIX	SAMPLE NAME	ORIG. PPB Au	RERUN PPB Au
S	L 10+00S 11+25E	5	5
S	L 10+00S 11+50E	180	5
S	L 10+00S 11+75E	5	5

CERTIFIED BY : J. Rossbach

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

TO : MPH CONSULTING LTD.
#2406-555 W.HASTINGS ST. (BOX 12092)
VANCOUVER B.C.
PROJECT: V243
TYPE OF ANALYSIS: ASSAY

CERTIFICATE#: 87217
INVOICE#: 7635
DATE ENTERED: 87-05-25
FILE NAME: MPH87217
PAGE # : 1

PRE FIX	SAMPLE NAME	% Mn
A	2914	15.30
A	2918	15.62
A	2919	25.60
A	2920	22.84

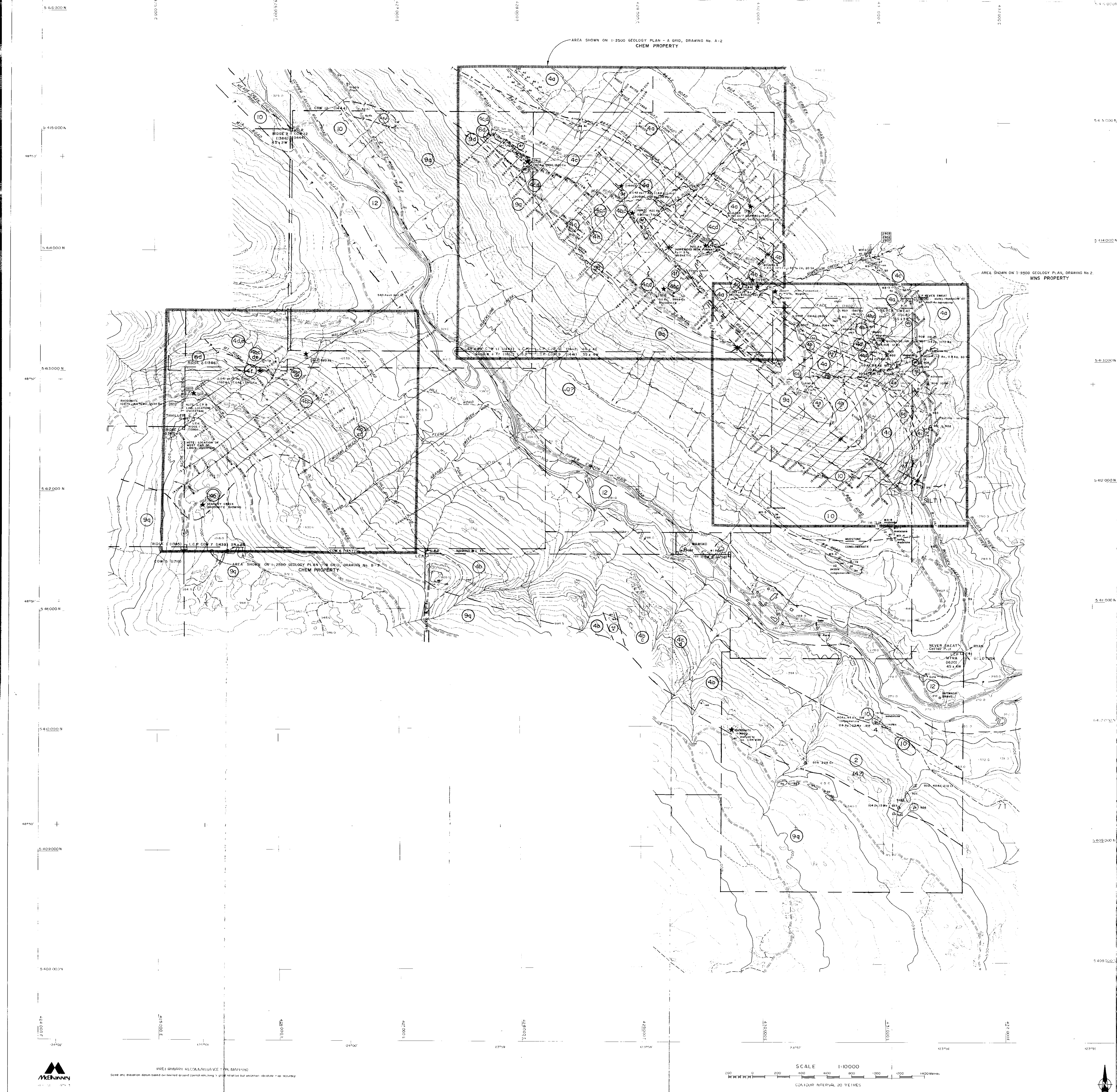
CERTIFIED BY : R. Rossbach

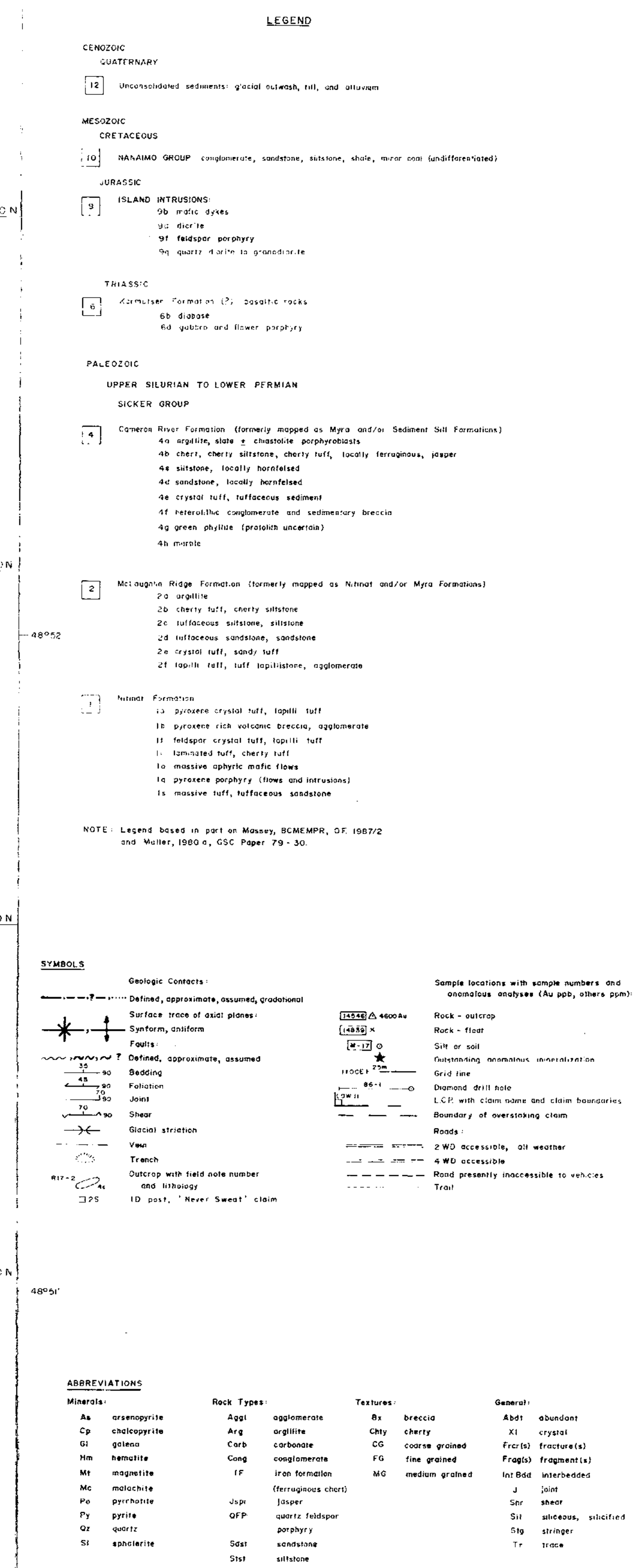
APPENDIX IV

ANALYTICAL TECHNIQUES AND LABORATORIES USED

APPENDIX V

CONVERSION FACTORS FOR METRIC UNITS





GEOLOGICAL BRANCH ASSESSMENT REPORT

16,200

INTERNATIONAL CHEROKEE DEVELOPMENTS LIMITED

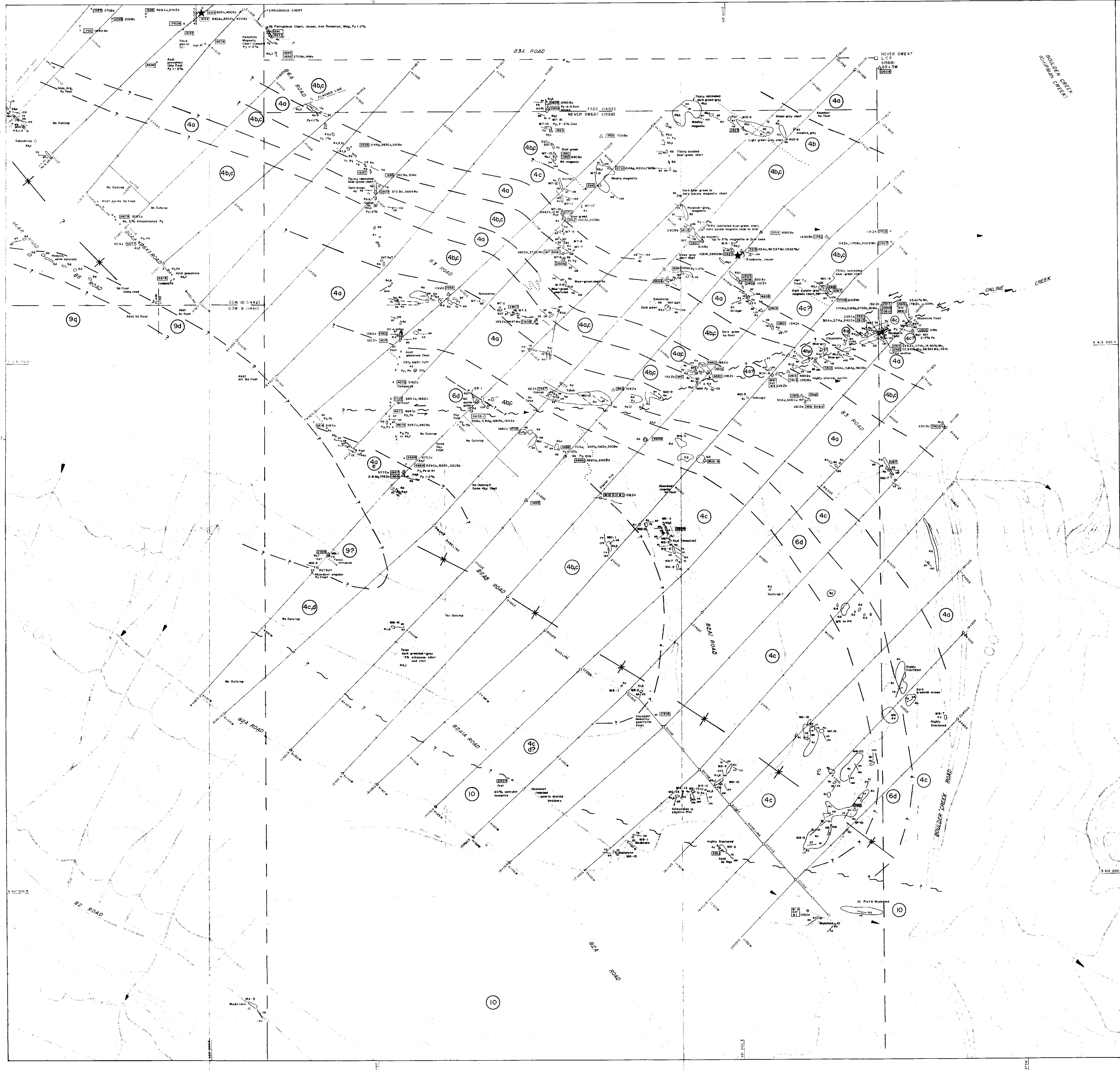
GEOLOGY

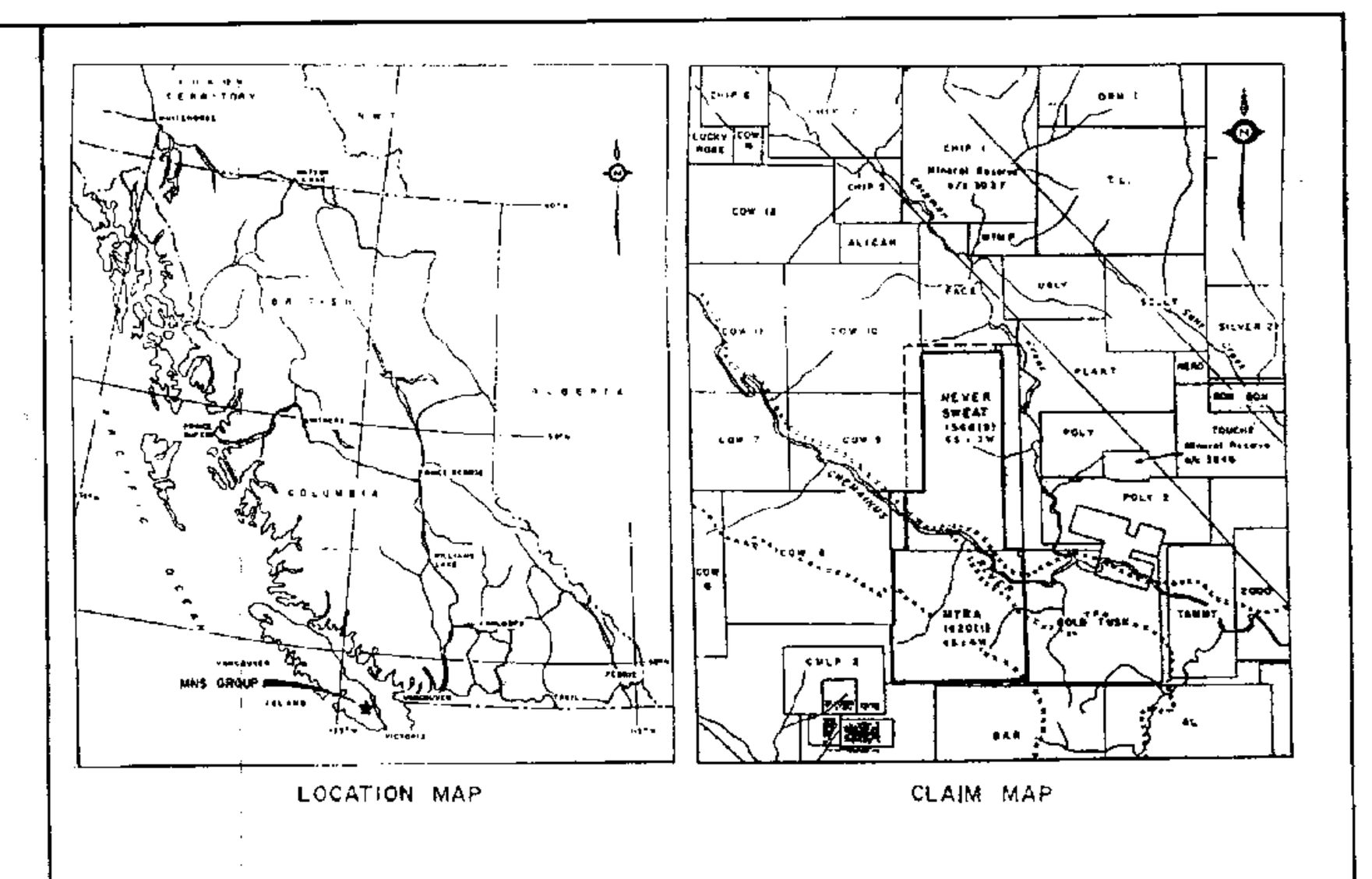
MNS AND CHEM PROPERTIES

VICTORIA MINING DIVISION

Project No:	V243, V239	By:	G.A., J.S.G.
Scale:	1:10 000	Drawn:	M.W.
Drawing No:	1	Date:	JULY 1987

MPH Consulting Limited





LEGEND

CENOZOIC
QUATERNARY

12 Unconsolidated sediments: glacial outwash, till, and alluvium

MESOZOIC
CRETACEOUS

10 NANAIMO GROUP: conglomerate, sandstone, siltstone, shale, minor coal (undifferentiated)

JURASSIC

9 ISLAND INTRUSIONS:
- 9b mafic dykes
- 9d diorite
- 9f feldspar porphyry
- 9q quartz diorite to granodiorite

TRIASSIC

6 Karmutsen Formation (?): basaltic rocks
- 6b diabase
- 6d gabbro and flower porphyry

PALEOZOIC

UPPER SILURIAN TO LOWER PERMIAN

SICKER GROUP

4 Cameron River Formation (formerly mapped as Myra and/or Sediment Sill Formations)
- 4a argillite, slate ± chiastolite porphyroblasts
- 4b chert, cherty siltstone, cherty tuff, locally ferruginous, jasper
- 4c siltstone, locally hornfelsed
- 4d sandstone, locally hornfelsed
- 4e crystal tuff, tuffaceous sediment
- 4f heterolithic conglomerate and sedimentary breccia
- 4g green phyllite (protolith uncertain)
- 4h marble

2 McLaughlin Ridge Formation (formerly mapped as Nitinat and/or Myra Formations)
- 2a argillite
- 2b cherty tuff, cherty siltstone
- 2c tuffaceous siltstone, siltstone
- 2d tuffaceous sandstone, sandstone
- 2e crystal tuff, sandy tuff
- 2f lapilli tuff, tuff lapillistone, agglomerate

1 Nitinat Formation
- 1a pyroxene crystal tuff, lapilli tuff
- 1b pyroxene rich volcanic breccia, agglomerate
- 1f feldspar crystal tuff, lapilli tuff
- 1i laminated tuff, cherty tuff
- 1o massive aphyric mafic flows
- 1q pyroxene porphyry (flows and intrusions)
- 1s massive tuff, tuffaceous sandstone

NOTE: Legend based in part on Massey, BCMEMPR, O.F. 1987/2 and Muller, 1980 a, GSC Paper 79-30.

SYMBOLS

Geologic Contacts: Defined, approximate, assumed, gradational
Surface trace of axial planes: Synform, antiform
Faults: Defined, approximate, assumed
Bedding
Foliation
Joint
Shear
Glacial striation
Vein
Trench
Outcrop with field note number and lithology

Sample locations with sample numbers and anomalous analyses (Au ppb, others ppm)
Rock - outcrop
Rock - float
Silt or soil
Outstanding anomalous mineralization
Grid line
Diamond drill hole
L.C.P. with claim name and claim boundaries
Boundary of overstaking claim
Roads:
2 WD accessible, all weather
4 WD accessible
Road presently inaccessible to vehicles
Trail

ABBREVIATIONS

Minerals:		Rock Types:		Textures:		General:	
As	arsenopyrite	Aggl	agglomerate	Bx	breccia	Abdt	abundant
Cp	chalcopyrite	Arg	argillite	Chty	cherty	Xl	crystal
Gl	galena	Carb	carbonate	CG	coarse grained	Frac(d)	fractured
Hm	hematite	Cong	conglomerate	FG	fine grained	Frag(s)	fragment(s)
Mt	magnetite	IF	iron formation (ferruginous chert)	MG	medium grained	Int Bdd	interbedded
Mc	malachite	Jspr	jasper			J	joint
Po	pyrrhotite	QFP	quartz feldspar porphyry			Shr	shear
Py	pyrite	Sdst	sandstone			Sil	siliceous, silicified
Qz	quartz	Stst	siltstone			Stg	stringer
Sl	sphalerite					Tr	trace
						Wk, Wkly	weak, weakly

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,200

NOTE: Claim lines from L.C.P.'s located in field. 20 metre topographic contour interval.

0 50m 100m 150m 200m

INTERNATIONAL CHEROKEE DEVELOPMENTS LIMITED

GEOLOGY

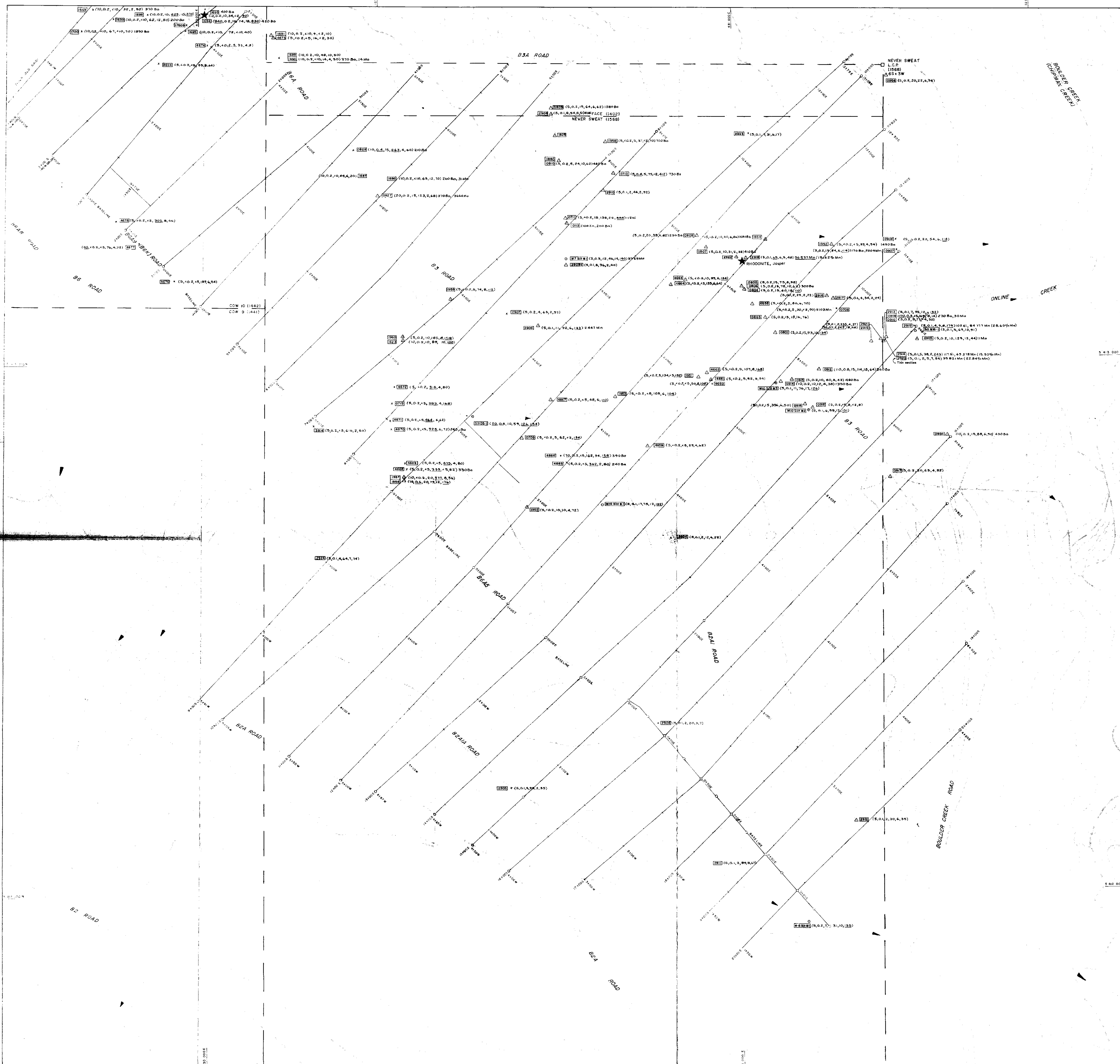
NORTH PART OF NEVER SWEAT CLAIM

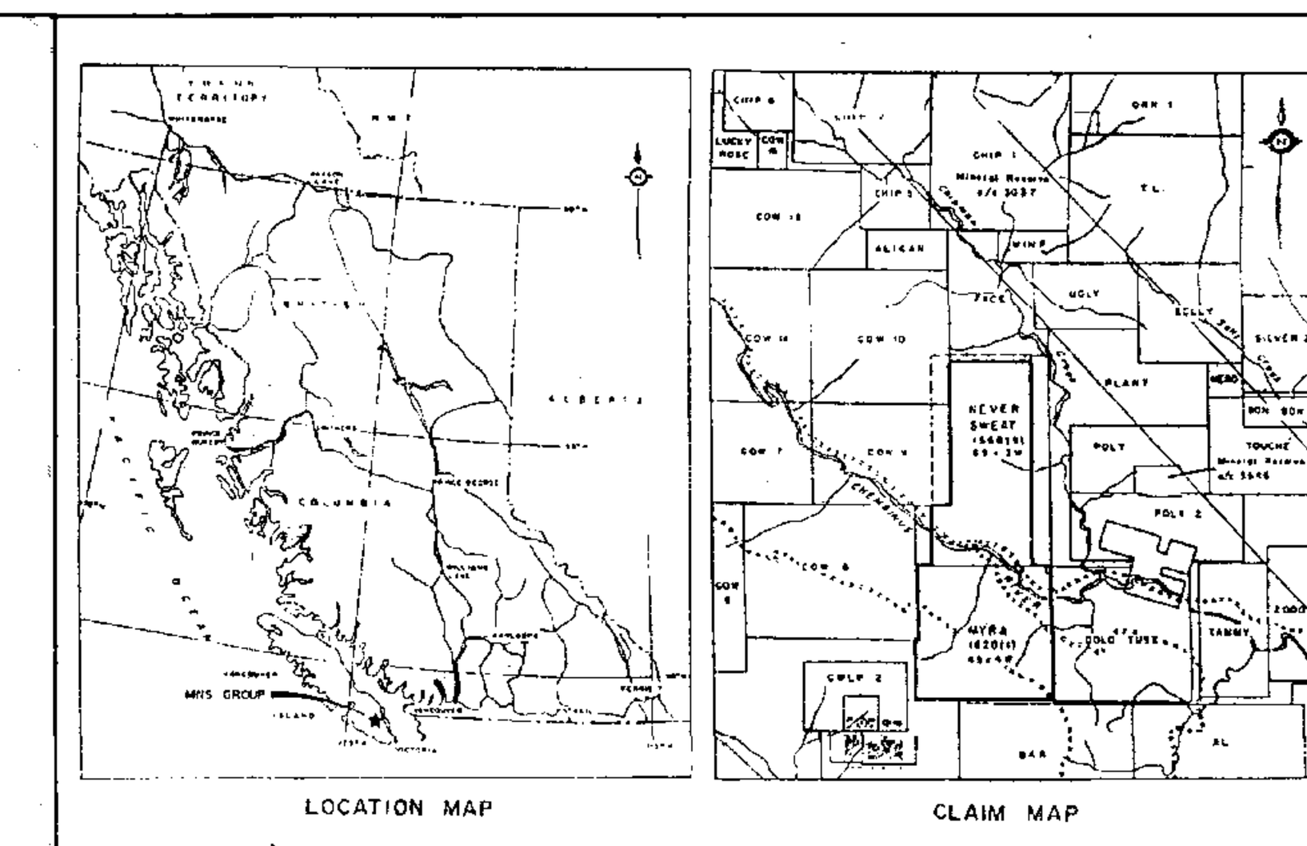
MNS PROPERTY

VICTORIA MINING DIVISION

Project No:	V 243	By:	G.A.
Scale:	1 : 2500	Drawn:	M.W.
Drawing No:	2	Date:	JULY 1987

MPH Consulting Limited





LEGEND

14510	△	Rock sample location (outcrop) with sample number
14536	×	Rock sample location (float) with sample number
M-16	⊙	Silt sample location with sample number

Analyses: ppb | ppm

(11 000,0.6,95,1207,6,34) - Au | Ag, As, Cu, Pb, Zn (underlined values anomalous)

0.380 oz/T Au - Gold assay

Values considered anomalous in rock

All values plotted	Au	≥ 30 ppb
	Ag	≥ 0.4 ppm
	As	≥ 30 ppm
	Cu	≥ 200 ppm
	Pb	≥ 25 ppm
	Zn	≥ 100 ppm
Values plotted if anomalous	Co	≥ 50 ppm
	V	≥ 250 ppm
	Sb	≥ 6 ppm
	Ba	≥ 200 ppm
	Mo	≥ 10 ppm
	W	≥ 10 ppm
	Mn	≥ 2000 ppm
	Ni	≥ 100 ppm

SYMBOLS

- Fault
- Outstanding mineralization with sample number and analyses (Au - ppb, others - ppm)
- Trench
- Grid line
- Diamond drill holes
- Legal corner post with claim name and claim boundaries
- Boundary of overstaking claim

Roads:

- 2 WD accessible, all weather
- 4 WD accessible
- Road presently inaccessible to vehicles
- Trail

GEOLOGICAL BRANCH ASSESSMENT REPORT

16,200

NOTE: Claim lines from L.C.P.'s located in field.
20 metre topographic contour interval.

0 50m 100m 150m 200m

INTERNATIONAL CHEROKEE DEVELOPMENTS LIMITED

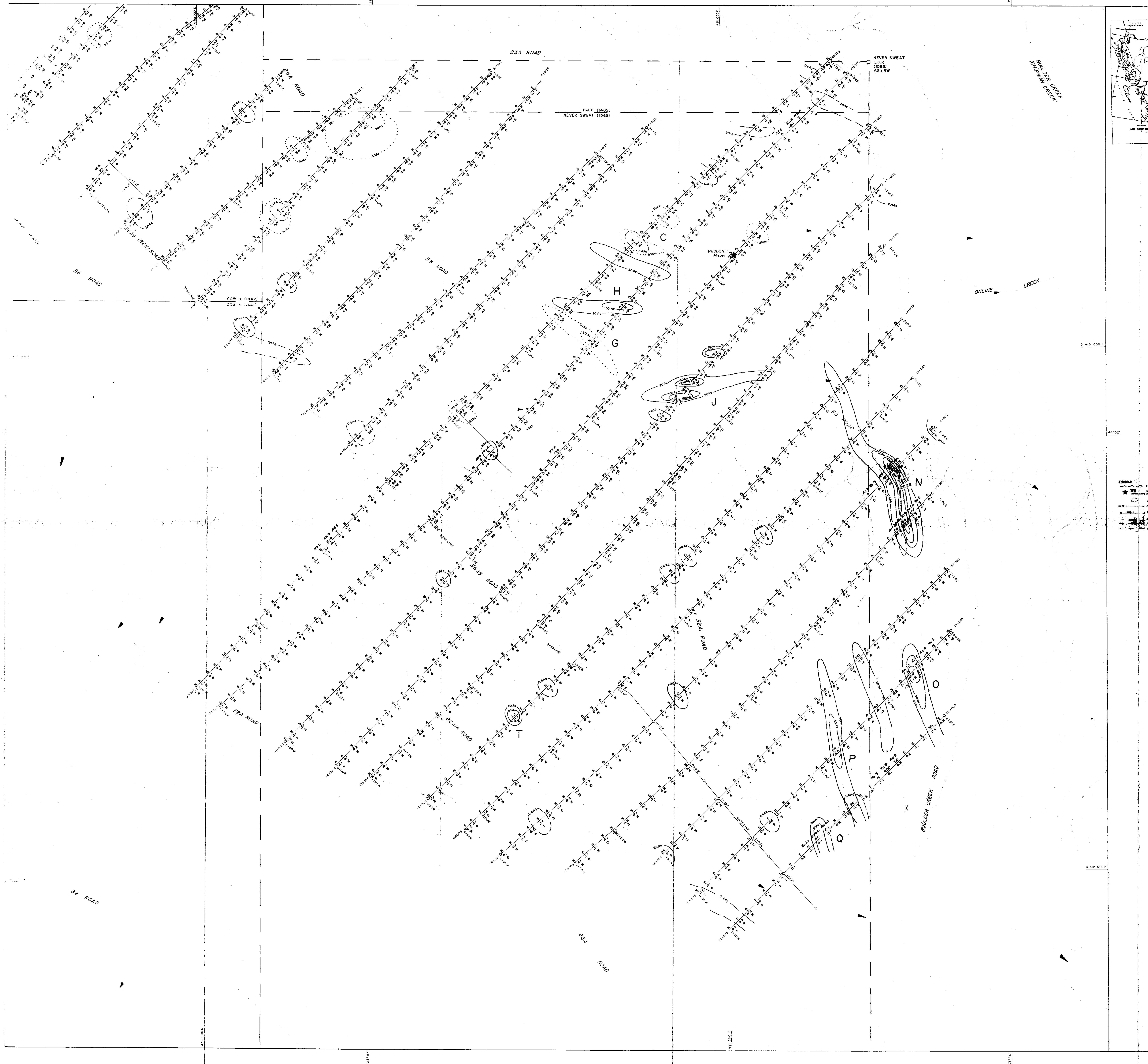
ROCK AND SILT SAMPLE SITE LOCATIONS AND ANALYSES
NORTH PART OF NEVER SWEAT CLAIM

MNS PROPERTY

VICTORIA MINING DIVISION

Project No:	V 243	By:	G.A.
Scale:	1 : 2500	Drawn:	M.W.
Drawing No:	3	Date:	JULY 1987

MPH Consulting Limited



GEOLOGICAL BRANCH ASSESSMENT REPORT

16,200

INTERNATIONAL CHEROKEE DEVELOPMENTS LIMITED

SOIL GEOCHEMISTRY SURVEY

Au, Ag, As

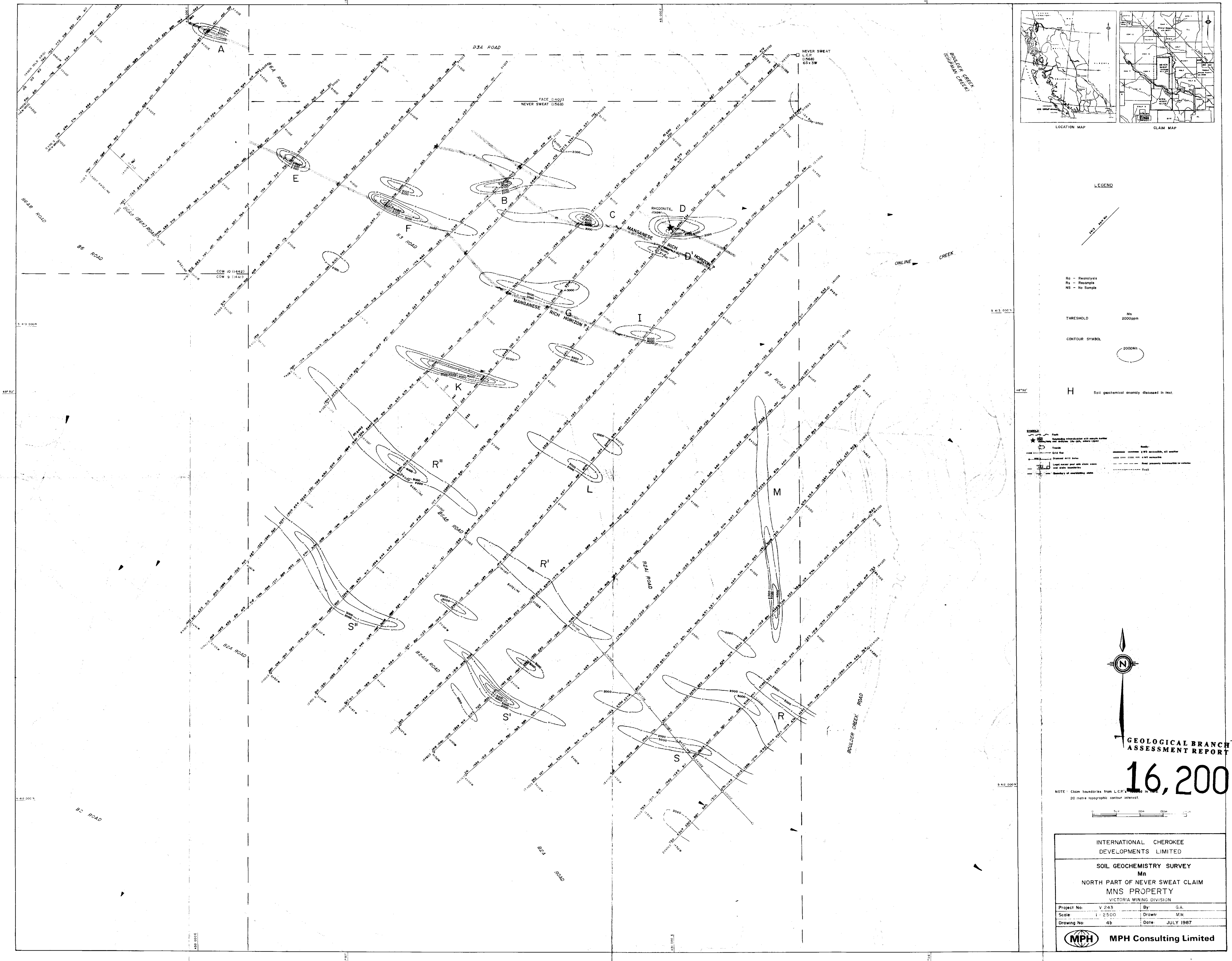
NORTH PART OF NEVER SWEAT CLAIM

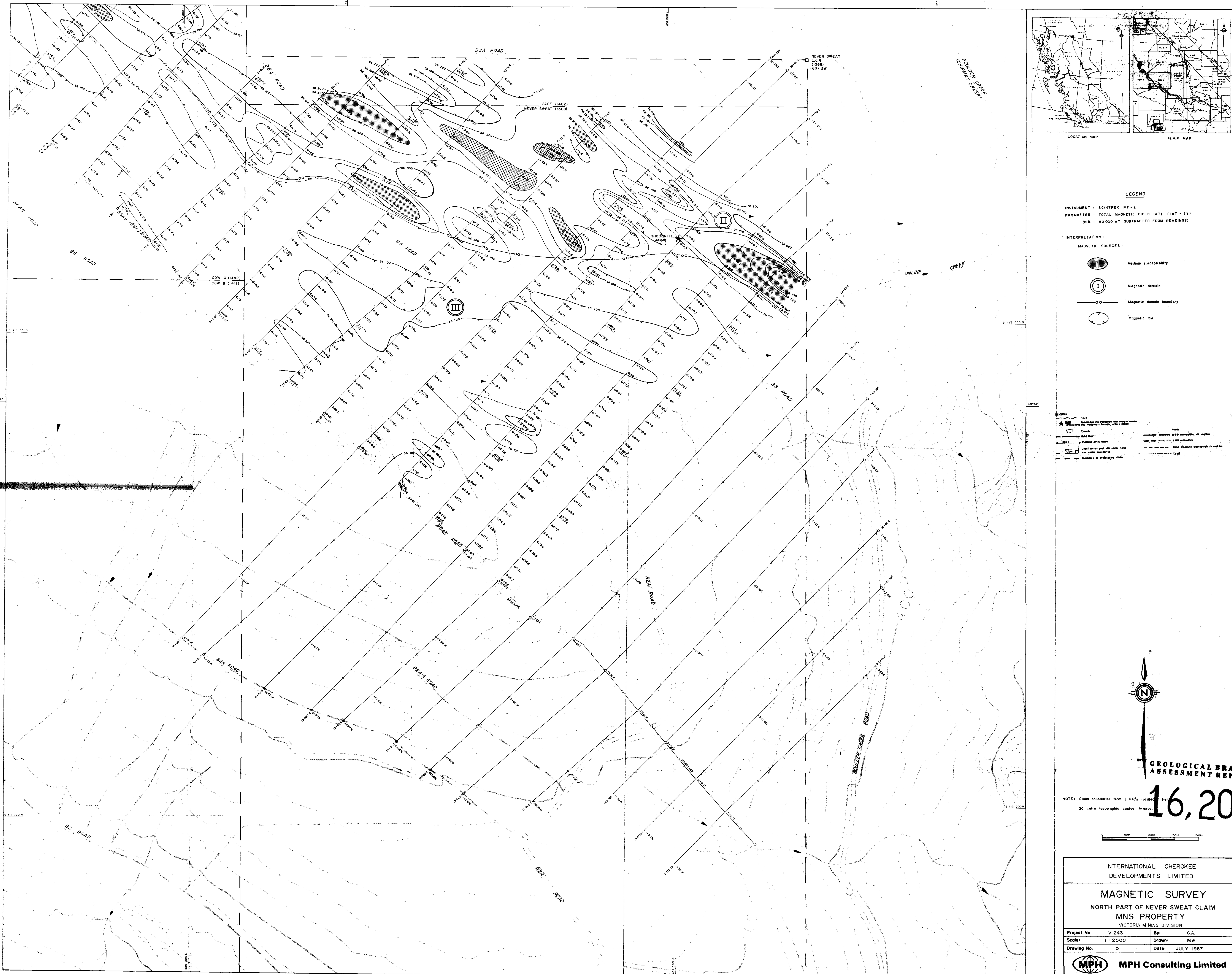
MNS PROPERTY

VICTORIA MINING DIVISION

Project No:	V 243	By:	G.A.
Scale:	1 : 2500	Drawn:	M.W.
Drawing No:	4a	Date:	JULY 1987

MPH Consulting Limited


A
B3A ROAD
B6A ROAD
NEVER SWEAT
L.C.P.
(1568)
6S x 3W
BOULDER CREEK
(CHIPMAN CREEK)
FACE (1407)
NEVER SWEAT (1568)
E
B
F
C
D
RHODONITE, JASPER
MANGANESE RICH HORIZON
D'
B6AB ROAD
B6AB (BEK) ROAD
B6 ROAD
B3 ROAD
COW 10 (1442)
COW 9 (1441)
ONLINE CREEK
MANGANESE RICH HORIZON ?
G
I
K
B3 ROAD
R"
L
M
B6A5 ROAD
R'
B2A1 ROAD
S"
B2A ROAD
B2A1A ROAD
S'
R
S
BOULDER CREEK ROAD
B2 ROAD
B2A ROAD
LOCATION MAP
CLAIM MAP
LEGEND
Ra - Reanalysis
Rs - Resample
NS - No Sample
THRESHOLD
Mn
2000ppm
CONTOUR SYMBOL
2000Mn
H Soil geochemical anomaly discussed in text.
GEOLOGICAL BRANCH
ASSESSMENT REPORT
16,200
NOTE: Claim boundaries from L.C.P.'s
20 metre topographic contour interval.
INTERNATIONAL CHEROKEE
DEVELOPMENTS LIMITED
SOIL GEOCHEMISTRY SURVEY
Mn
NORTH PART OF NEVER SWEAT CLAIM
MNS PROPERTY
VICTORIA MINING DIVISION
Project No: V 243
By: G.A.
Scale: 1:2500
Drawn: M.W.
Drawing No: 4b
Date: JULY 1987
MPH
MPH Consulting Limited



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,200

INTERNATIONAL CHEROKEE
DEVELOPMENTS LIMITED

MAGNETIC SURVEY

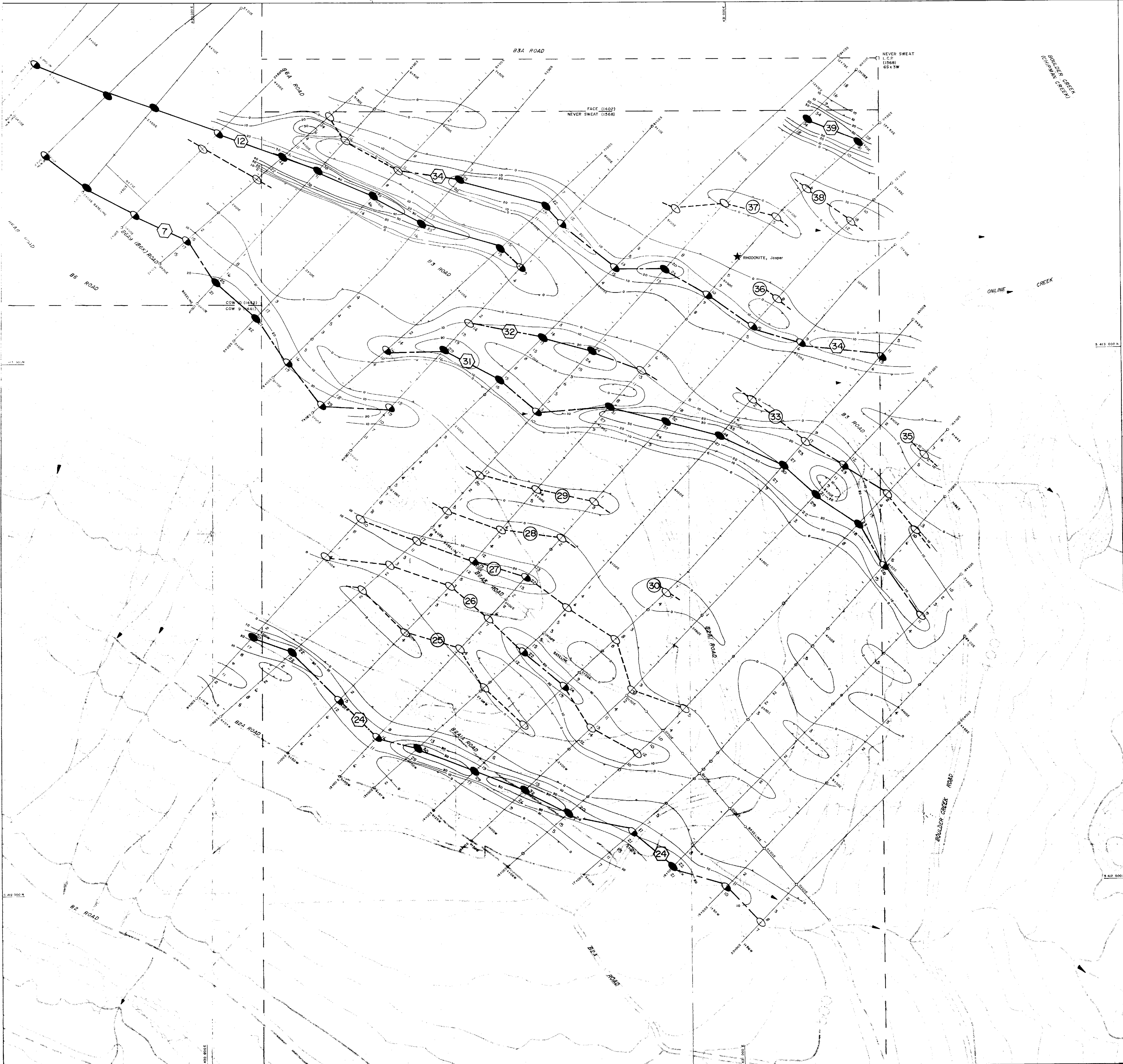
NORTH PART OF NEVER SWEAT CLAIM

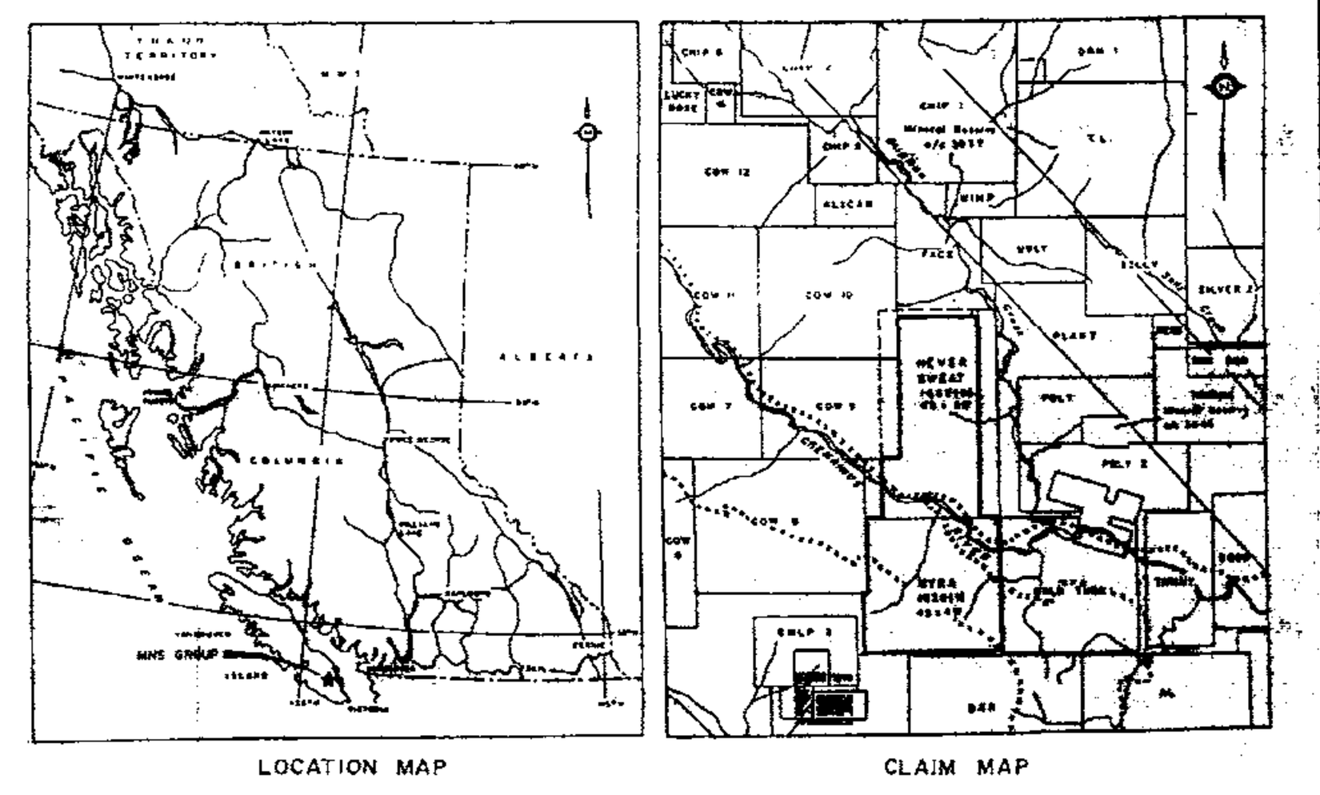
MNS PROPERTY

VICTORIA MINING DIVISION

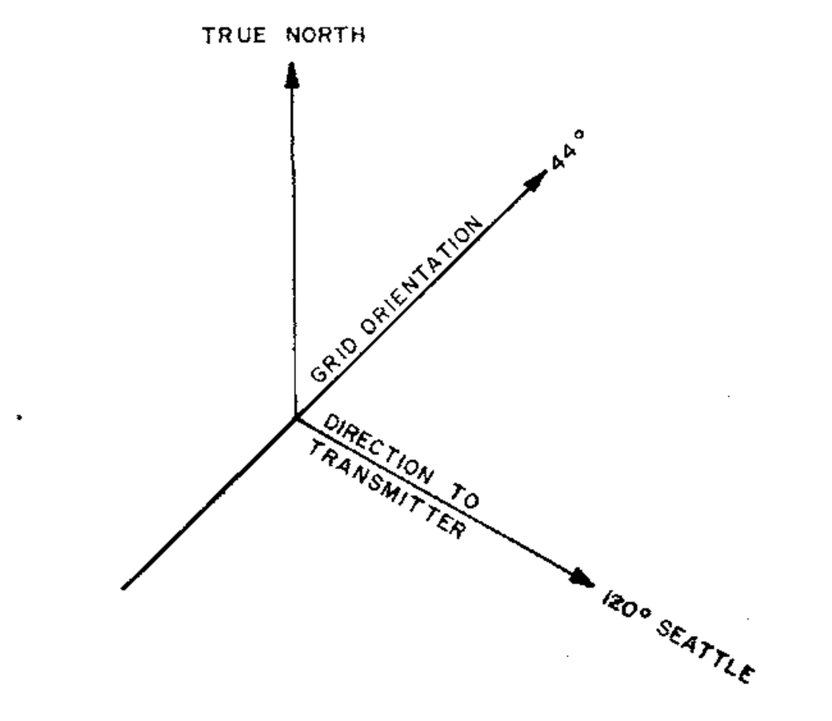
Project No:	V 243	By:	G.A.
Scale:	1 : 2500	Drawn:	M.W.
Drawing No:	5	Date:	JULY 1987

MPH Consulting Limited





RELATIVE ORIENTATION OF GRID TO TRUE NORTH AND DIRECTION TO TRANSMITTER



LEGEND

GRID LINE

Negative Fraser Filtered Dip Angle

Positive Fraser Filtered Dip Angle

INTERPRETATION:

Conductors:

- Strong - Definite
- Moderate - Probable
- Weak - Possible
- Contact
- Cultural - Cables, power lines, etc.

Conductive Zones:

- (1) Probable Bedrock Conductor
- (7) Other

Conductor Continuity:

- Definite
- Probable
- Possible

INSTRUMENT - Sabre 27 VLF-EM Receiver

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,200

NOTE: Claim boundaries from L.C.P.'s located in field.
20 metre topographic contour interval.

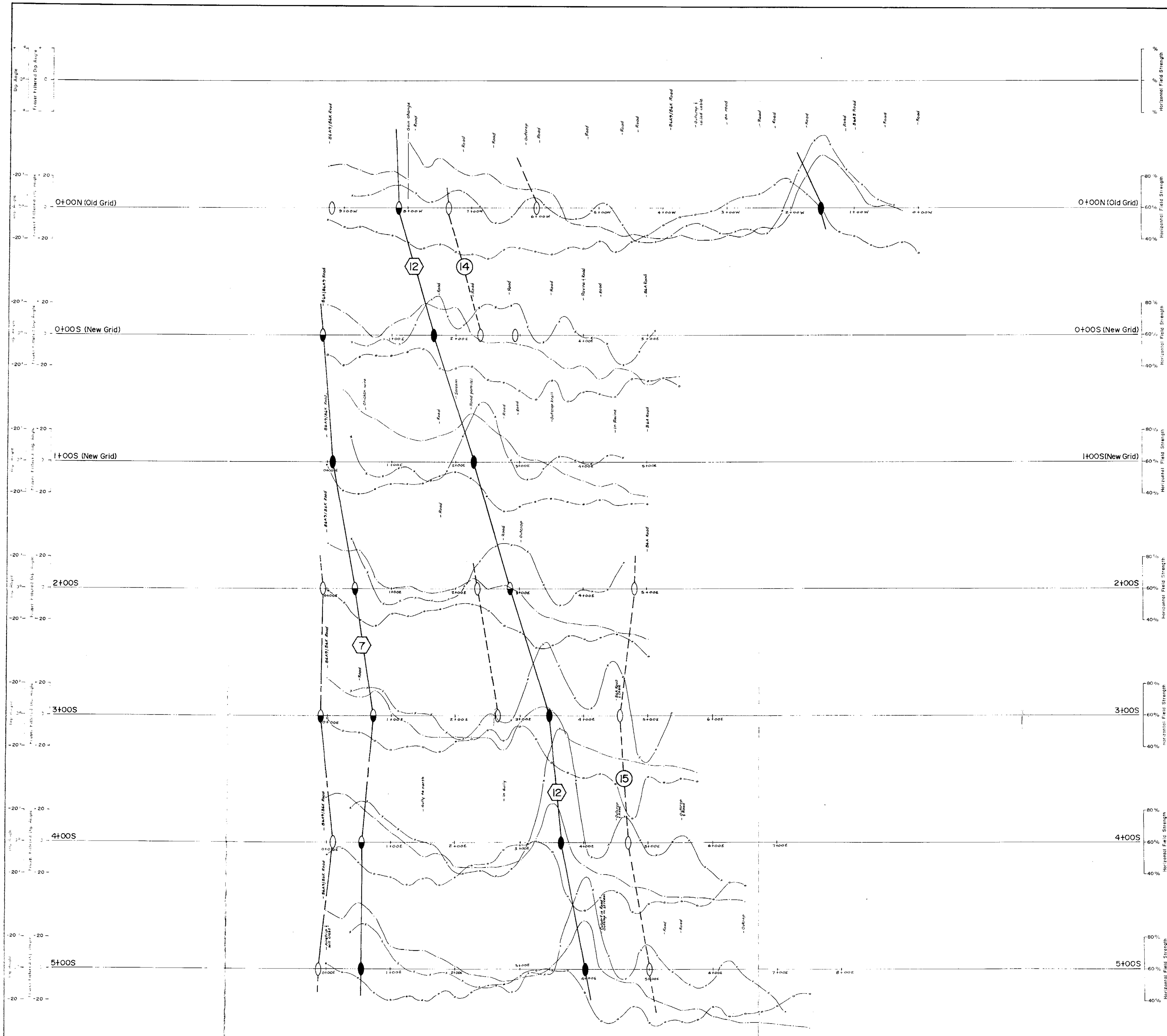
0 50m 100m 150m 200m

INTERNATIONAL CHEROKEE
DEVELOPMENTS LIMITED

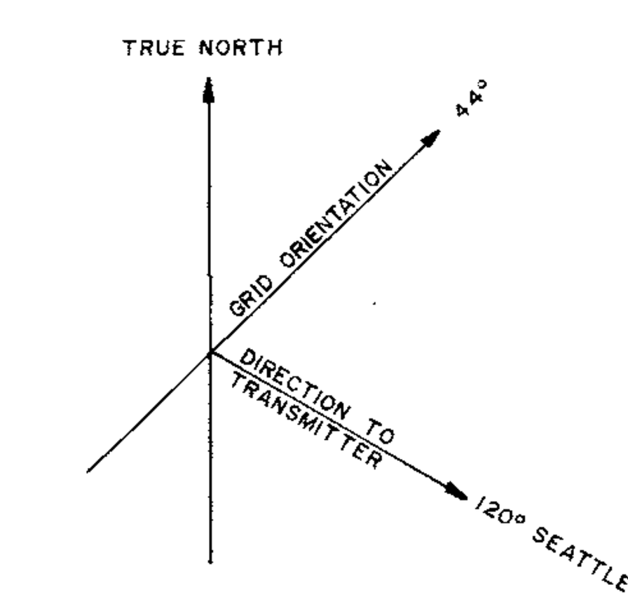
VLF - EM SURVEY
FRASER FILTERED DIP ANGLES
NORTH PART OF NEVER SWEAT CLAIM
MNS PROPERTY
VICTORIA MINING DIVISION

Project No:	V 243	By:	G.A.
Scale:	1 : 2500	Drawn:	M.W.
Drawing No:	6	Date:	JULY 1987

MPH Consulting Limited



RELATIVE ORIENTATION OF GRID TO TRUE NORTH AND DIRECTION TO TRANSMITTER.



LEGEND

GRID LINE

Negative Fraser Filtered Dip Angle –

4 Positive Fraser Filtered Dip Angle

PROFILES:

- Horizontal Field Strength (in percent)
- Dip Angle (in degrees)
- Fraser Filtered Dip Angle

INTERPRETATION:

Conductors:

- Strong – Definite
- Moderate – Probable
- Weak – Possible
- Contact
- Cultural – Cables, power lines, etc.

Conductive Zones:

- (1) Probable Bedrock Conductor
- (7) Other

Conductor Continuity:

- Definite
- Probable
- Possible

INSTRUMENT – Sabre 27 VLF-EM Receiver

NOTE: HORIZONTAL FIELD STRENGTH is 40%, 60%, 80%, this drawing ONLY.

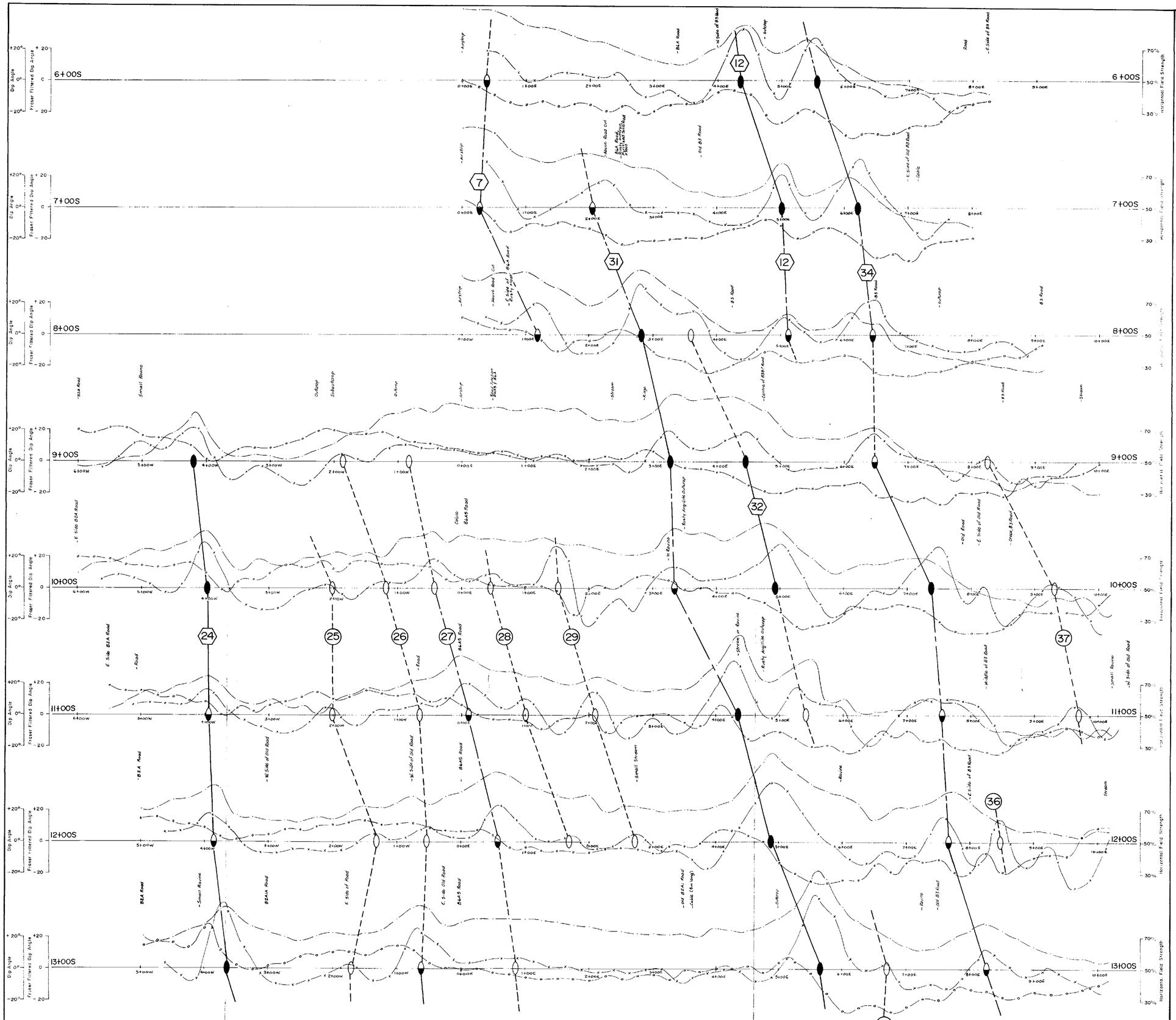
0 50m 100m 150m 200m

INTERNATIONAL CHEROKEE
DEVELOPMENTS LIMITED

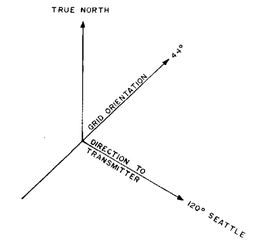
VLF-EM SURVEY
PROFILES
LINES 0+00N (OLD GRID) – 5+00S (NEW GRID)
NORTH PART OF NEVER SWEAT CLAIM
MNS PROPERTY
VICTORIA MINING DIVISION

	V 243		H.M., G.A.
	1 : 2500		M.W.
	7a		JULY 1987

MPH Consulting Limited



RELATIVE ORIENTATION OF GRID TO TRUE NORTH AND DIRECTION TO TRANSMITTER.



LEGEND

GRID LINE

Negative Fraser Filtered Dip Angle —

4 Positive Fraser Filtered Dip Angle

PROFILES:

x—x—x Horizontal Field Strength (in percent)

o—o—o Dip Angle (in degrees)

x—x—x Fraser Filtered Dip Angle

INTERPRETATION:

Conductors:

- Strong — Definite
- Moderate — Probable
- Weak — Possible
- Contact
- Cultural — Cables, power lines, etc.

Conductive Zones:

- (1) Probable Bedrock Conductor
- (7) Other

Conductor Continuity:

- Definite
- Probable
- Possible

INSTRUMENT — Sabre 27 VLF-EM Receiver

NOTE: LINE 10+00S — LINE 13+00S ONLY SHOWN ON THIS PLAN

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,200

0 50m 100m 150m 200m

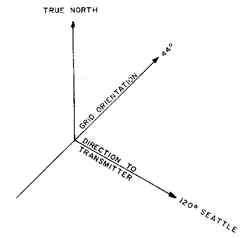
INTERNATIONAL CHEROKEE DEVELOPMENTS LIMITED

VLF-EM SURVEY

PROFILES
LINE 6+00S - 13+00S
NORTH PART OF NEVER SWEAT CLAIM
MNS PROPERTY
VICTORIA MINING DIVISION

V 243	H.M., G.A.
1:2500	M.W.
7b	JULY 1987

RELATIVE ORIENTATION OF GRID TO TRUE NORTH AND DIRECTION TO TRANSMITTER



LEGEND

PROFILES:

- Horizontal Field Strength (in percent)
- Dip Angle (in degrees)
- Fraser Filtered Dip Angle

INTERPRETATION:

Conductors:

- Strong - Definite
- Moderate - Probable
- Weak - Possible
- Contact
- Cultural - Cables, power lines, etc.

Conductive Zones:

- (1) Probable Bedrock Conductor
- (7) Other

Conductor Continuity:

- Definite
- Probable
- Possible

INSTRUMENT - Sabre 27 VLF-EM Receiver

NOTE: LINE 10+00S - LINE 13+00S inclusive

0 50m 100m 150m 200m

INTERNATIONAL CHEROKEE DEVELOPMENTS LIMITED

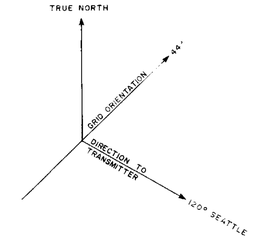
VLF-EM SURVEY

PROFILES
LINES 10+00S - 13+00S (EAST PART)
NORTH PART OF NEVER SWEAT CLAIM
MNS PROPERTY
VICTORIA MINING DIVISION

V 243	H.M., G.A.
1:2500	M.W.
7c	JULY 1987

MPH Consulting Limited

RELATIVE ORIENTATION OF GRID TO TRUE NORTH AND DIRECTION TO TRANSMITTER.



LEGEND

PROFILES:

- Horizontal Field Strength (in percent)
- Dip Angle (in degrees)
- Fraser Filtered Dip Angle

INTERPRETATION:

Conductors:

- Strong – Definite
- Moderate – Probable
- Weak – Possible
- Contact
- Cultural – Cables, power lines, etc.

Conductive Zones:

- (1) Probable Bedrock Conductor
- (7) Other

Conductor Continuity:

- Definite
- Probable
- Possible

INSTRUMENT – Sabre 27 VLF-EM Receiver

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,200

0 50m 100m 150m 200m

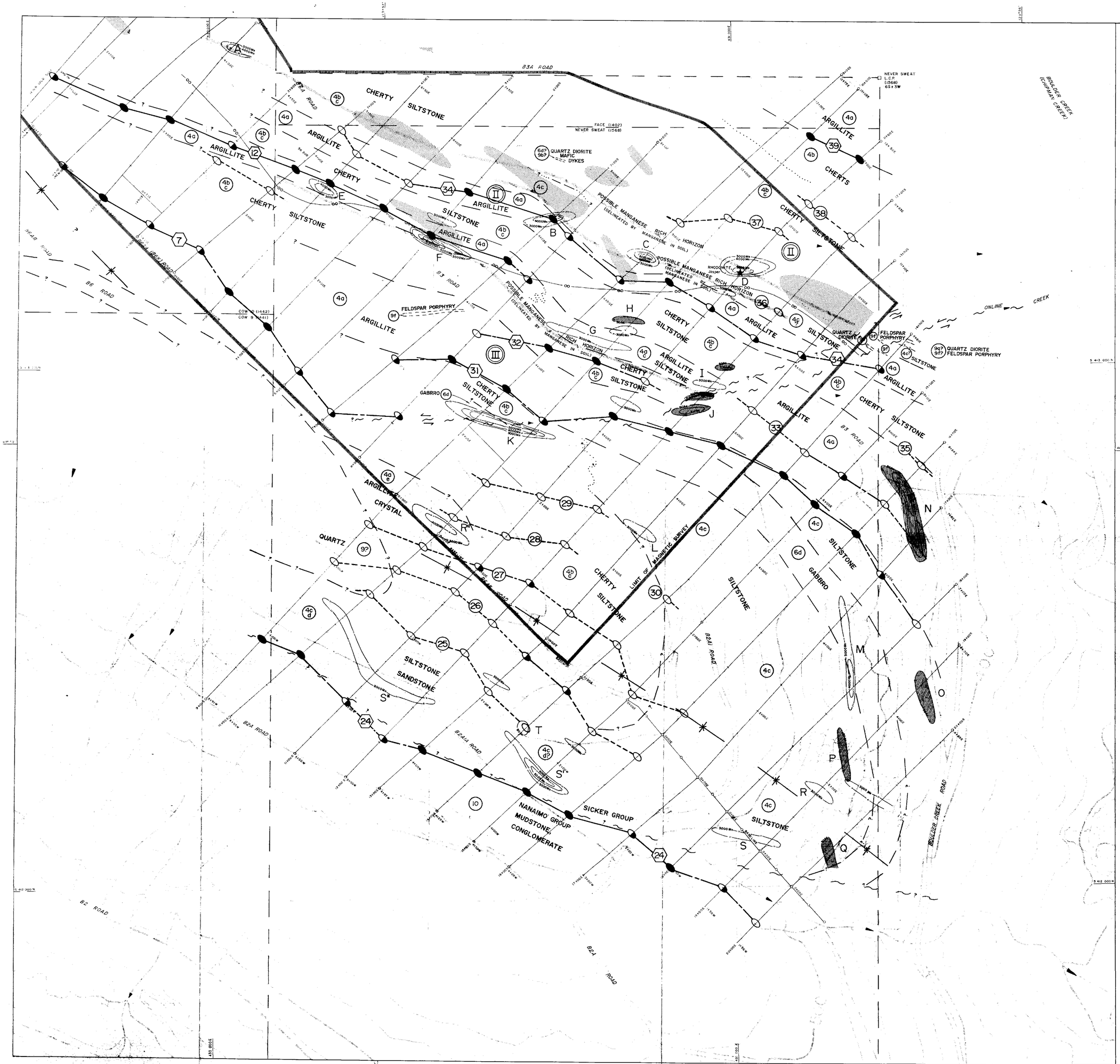
INTERNATIONAL CHEROKEE DEVELOPMENTS LIMITED

VLF-EM SURVEY

PROFILES
LINE 14+00 S – 20+00 S
NORTH PART OF NEVER SWEAT CLAIM
MNS PROPERTY
VICTORIA MINING DIVISION

V 243	H.M., G.A.
1:2500	M.W.
7d	JULY 1987

MPH Consulting Limited



LOCATION MAP

CLAIM MAP

LEGEND

GEOLOGY

MESOZOIC

JURASSIC - 9 quartz diorite intrusive

TRIASSIC - 6 gabbroic intrusive

PALEOZOIC SICKER GROUP

- 4 Cameron River Formation Sediments
- 2 McLaughlin Ridge Formation Pyroclastics
- 1 Nitinat Formation Basic Volcanics

SYMBOLS

- Geological Contact
- Fold Axis
- Fault

ANOMALOUS ROCK SAMPLES

- Bedrock
- Float

Analyses as indicated

SOIL GEOCHEMICAL ANOMALIES

- Au (ppb)
- Ag (ppm)
- As (ppm)
- Mn (ppm)
- H Soil geochemical anomaly discussed in text.

BIOCHEMICAL ANOMALIES

Au (ppb) in conifer branch samples (Douglas Fir and Western Hemlock)

GEOPHYSICAL ANOMALIES

Magnetic Survey

- Magnetic sources
- Magnetic domain
- Magnetic domain boundary

VLF - EM Survey

- Conductors : weak, moderate, strong
- Conductive zones : Probable bedrock
- Other
- Conductor continuity : Definite, Probable, Possible

SYMBOLS

- Peak
- Diamond drill holes
- Grid lines
- Road presently inaccessible to vehicles
- Trail

Roads: 2 WD accessible, all weather; 4 WD accessible

NOTE Claim boundaries from L.C.P.'s located in field.

20 metre topographic contour interval

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,200

INTERNATIONAL CHEROKEE DEVELOPMENTS LIMITED

GEOLOGY, GEOCHEMISTRY AND GEOPHYSICS COMPOSITE
NORTH PART OF NEVER SWEAT CLAIM
MNS PROPERTY
VICTORIA MINING DIVISION

Project No:	V 243	By:	G.A.
Scale:	1 : 2500	Drawn:	M.W.
Drawing No:	8	Date:	JULY 1987

MPH Consulting Limited