

4233

82E/5W

GEOLOGICAL AND GEOCHEMICAL REPORT

on the

PATRICIA CLAIM GROUP

for

CORVAL RESOURCES LTD. (N.P.L.)

Patricia #3 to #12 incl. Record #27505 to #27514 incl.

Osoyoos Mining Division

49°23'N 119°56'W

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

by:

NO.

4233

M&P

G. C. GUTRATH, P.Eng.

ATLED EXPLORATION MANAGEMENT LTD.

February, 1973

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GEOLOGICAL AND GEOCHEMICAL REPORT
on the
PATRICIA CLAIM GROUP
CORVAL RESOURCES LTD. (N.P.L.)

INTRODUCTION

The geochemical and geological survey were carried out at the request of Mr. W. L. C. Newsom, Vice-president of Corval Resources Ltd. (N.P.L.).

The surveys were done by Atled Exploration Management Ltd. under the supervision of G. C. Gutrath, P. Eng. The field work was under the supervision of J. R. Lerner, senior technician. He was assisted by P. Guiguet and J. D. Lerner.

The field work was carried out between June 27 and June 29, 1972.

GEOGRAPHY

Location

The property is located in south central British Columbia, between Nickel Plate Lake and Apex Mountain, approximately eighteen miles west of Penticton.

The co-ordinates of the property are 49°23'N and 119°56'W.

Access

Access to the property is by 25 miles of road from Penticton.

Topography

The claim group covers a gentle rolling area on the northwest slope of Apex Mountain, between the elevation of 6,100 feet and 6,500 feet.

Climate

The property is in the interior dry belt, with less than 10 inches of rain per year. Winter snowpack at this elevation would average 4 to 5 feet.

Water

There is ample water in Nickel Plate Lake, and a number of small ponds, for any future drilling requirements.

CLAIMS

The Patricia group is made up of the following claims:

<u>Claim Name</u>	<u>Record Number</u>	<u>Expiry Date</u>
Patricia 3	27505	January 4, 1974
4	27506	January 4, 1975
5	27507	January 4, 1974
6 & 7	27508 & 27509	January 4, 1975
8	25510	January 4, 1974
9 & 10	27511 & 27512	January 4, 1975
11 & 12	27513 & 27514	January 4, 1974
13 & 14	27932 & 27933	May 5, 1973
16	27935	May 5, 1973
29 & 30	27948 & 29494	May 5, 1973

GEOLOGY

General

(G.S.C.)

The general claim area is underlain by Upper Triassic Nicola Group greenstone, tuffs, tuffaceous argillites and interbedded limestone, quartzite and schist. The series has been divided into two units. The Wolf Creek Formation being composed of the volcanic greenstone rocks and the Hedley Formation being composed of sedimentary rocks.

The Nicola rocks, extend from the claim group to the west and southwest a distance of 8 miles into the area of the abandoned Nickel Plate Mine at Hedley. The Nicola rocks have been intruded both to the north and south of the Patricia Group by large intrusive stocks of granite to granodiorite composition believed to be Jurassic in age.

On the southeast side of the Patricia Group the Upper Triassic Nicola Group is in fault contact with both older sedimentary units and with minor related volcanics of Triassic age. The fault contact trends in a northeasterly direction and has been traced for a distance of 25 miles.

There are numerous other smaller stocks and dike-like intrusive bodies in the general area of the claim group.

There have been numerous mineral occurrences found in this area. The most important are the gold mines that are located in the Hedley area 5 miles to the southwest of the Patricia Group. The gold occurs with arsenopyrite, pyrite, chalcopyrite, galena, sphalerite and minor gold and bismuth tellurides. This mineralization occurs in contact metamorphic skarn zones.

Survey Completed

The grid lines were extended in the area of Patricia Claim #1, #3, #5, and #13 for a total distance of 6,800 feet.

The outcrop geology was mapped and the geochemical anomalous areas were checked carefully for outcrop and float that could indicate the cause of the anomalies. Any geological correlation within the claims area is difficult because of the very limited outcrop areas.

Property Geology

The only outcrops in the grid area are on the Patricia #5 and #13 claims. The majority of the grid area is covered by glacial drift.

Dark grey green Nicola volcanics outcrop on line 50E on the flanks of Mt. Riordan. These volcanics are believed to be directly related to the Wolf Creek Formation that is mapped to the southwest of the Patricia Group.

Two small outcrop areas on line 40B station 1 + 00 N have been trenched exposing a highly altered skarn zone composed primarily of light brown garnet and diopside. Minor pyrite, chalcopyrite, and pyrrhotite occur as random veinlets and disseminated in the skarn. The exposed area is small, but there was a considerable amount of float found in the general area.

The glacial drift cover thins to the east, and on the flanks of Mt. Riordan a number of outcrops of Triassic volcanics are exposed. Irregular, discontinuous skarn zones occur in the volcanic series. An adit has been driven into one of these zones at station 6 south - line 50east. The adit is caved but there was considerable granite, diopside skarn on the small dump. The skarn carries minor amounts of pyrite, pyrrhotite and chalcopyrite.

On lines 0 and 5E just to the south of Nickle Plate Lake angular granodiorite float was located in two locations indicating that this area may be underlain by an intrusive rather than by Nicola volcanics.

GEOCHEMICAL SURVEY

Survey Completed

The following lines were extended on the original grid that was cut and surveyed in 1971.

Line 35E	2S to 10S	800
Base Line	36E to 40E	400
Line 40E	2N to 10N	800
Line 40E	2S to 10S	800
Base Line	41E to 45E	400
Line 45E	2N to 10N	800
Line 45E	2S to 10S	800
Base Line	46E to 50E	400
Line 50E	2N to 10N	800
Line 50E	2S to 10S	800
	TOTAL	<u>6,800 feet</u>

A total of 45 soil samples were collected at 200 foot intervals from the "B" soil horizon at depth varying from 6 inches to 1 foot. The samples were collected in kraft paper bags, and partially dried before shipment to Chemex Labs Ltd., 212 Brooks Bank Avenue, North Vancouver, B. C.

The sample preparation and analysis is as follows:

1. Sample ground to -80 mesh.
2. Weight used 0.50g.
3. Final volume 10 ml.
4. Method of analysis - instrumental - atomic absorption
5. Extraction Hot HClO_4 - HNO_3
6. Techtron AA₄, AA₅

Survey Results

Copper

The copper background is in the range of 40 ppm and the anomalous threshold would be plus 60 ppm.

The survey results outlined a very anomalous zone on Line 35E station 2S to station 8S with values ranging from a low of 84 ppm to 352 ppm copper. The skarn zone on the baseline at 41 east does not appear to be directly related to the geochemical anomaly. There is no outcrop in the anomalous area to explain the bedrock source of the anomaly.

This new anomaly lies to the east of a copper anomalous zone found in 1971 and centered on the base line between line 25E and line 20E. There are no outcrops in this area to explain the cause of the anomaly.

Gold

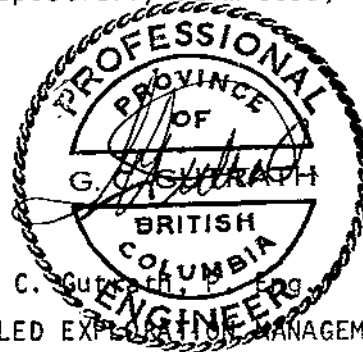
A total of ten samples were analysed for gold. All the samples tested less than 30 ppb, indicating a low background and no anomalous area.

CONCLUSION

The results of the soil sampling are encouraging. The copper anomalous zone outlined by the sampling done in 1973 is in an area of thinner drift cover than the previous anomalous zone making it easier to test by bulldozer trenching or percussion drilling.

It is concluded that continued exploration on the property is definitely warranted.

Respectfully submitted,



G. C. Gutzach, P. Eng.
ATLED EXPLORATION MANAGEMENT LTD.

APPENDICES



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
 NORTH VANCOUVER, B.C.
 CANADA
 TELEPHONE: 985-0648

• CHEMISTS • GEOCHEMISTS • ANALYSTS • ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Atled Exploration Management Ltd.,
 #420 - 475 Howe,
 Vancouver, B. C.

CERTIFICATE NO. 17794 & 17795
 INVOICE NO. 7337
 DATE RECEIVED
 DATE ANALYSED July 7/72

ATTN: from Mr. J.R.Lerner

SAMPLE NO.:	PPB
	Gold
35E 2S	< 30
4	< 30
6	< 30
35E 8	< 30
BL 38E	< 30
BL 42E	< 30
50E 2N	30
50E 4N	< 30
50E 2S	< 30
50E 4S	< 30

GSA

MEMBER

Chemist



CHEMEX LABS LTD.

217 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA
TELEPHONE: 985-0648

• CHEMISTS • GEOCHEMISTS • ANALYSTS • ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Atled Exploration Management Ltd.,
#420 - 475 Howe St.,
Vancouver, B.C.

CERTIFICATE NO. 17794
INVOICE NO. 7315
DATE RECEIVED June 30/72
DATE ANALYSED July 4/72

ATTN: Mr. G. Gutrath Samples from: J.R. Lerner

SAMPLE NO.:	PPM Copper
35E 2S	352
4	352
6	84
8	96
35E 10S	42
IL 36E	54
BL 38E	102
BL 40E	62
40E 2N	51
4	44
6	58
8	28
40E 10N	31
40E 2S	42
4	36
6	31
8	58
40E 10S	38
BL 41E	62
BL 42E	68
BL 44E	33
45E 2N	31
4	51
6	52
8	28
45E 10N	21
45E 2S	38
4	30
6	48
8	38
45E 10S	30
BL 46E	28
BL 48E	33
BL 50E	21
50E 2N	28
4	33
6	26
8	28
50E 10N	16
50E 2S	31
Std. No. 24	56

Jeff Please

Plotted July 5/72

ABC



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA
TELEPHONE: 985-0648

• CHEMISTS • GEOCHEMISTS • ANALYSTS • ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Atled Exploration Management Ltd.,
#420 - 475 Howe St.,
Vancouver, B.C.

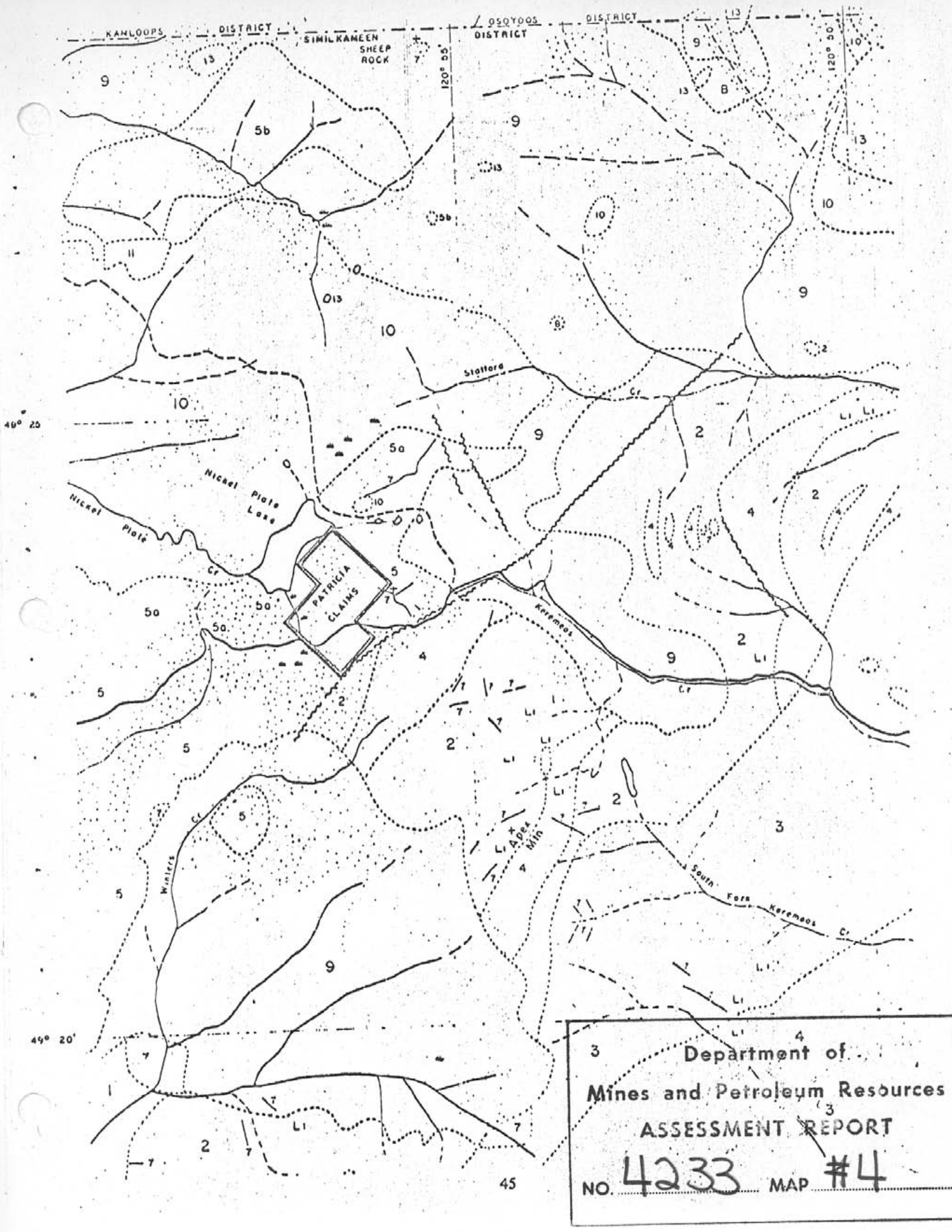
CERTIFICATE NO. 17795
INVOICE NO. 7315
DATE RECEIVED June 30/72
DATE ANALYSED July 4/72

ATTN: Mr. G. Gutrath

Samples from: J.R. Lerner

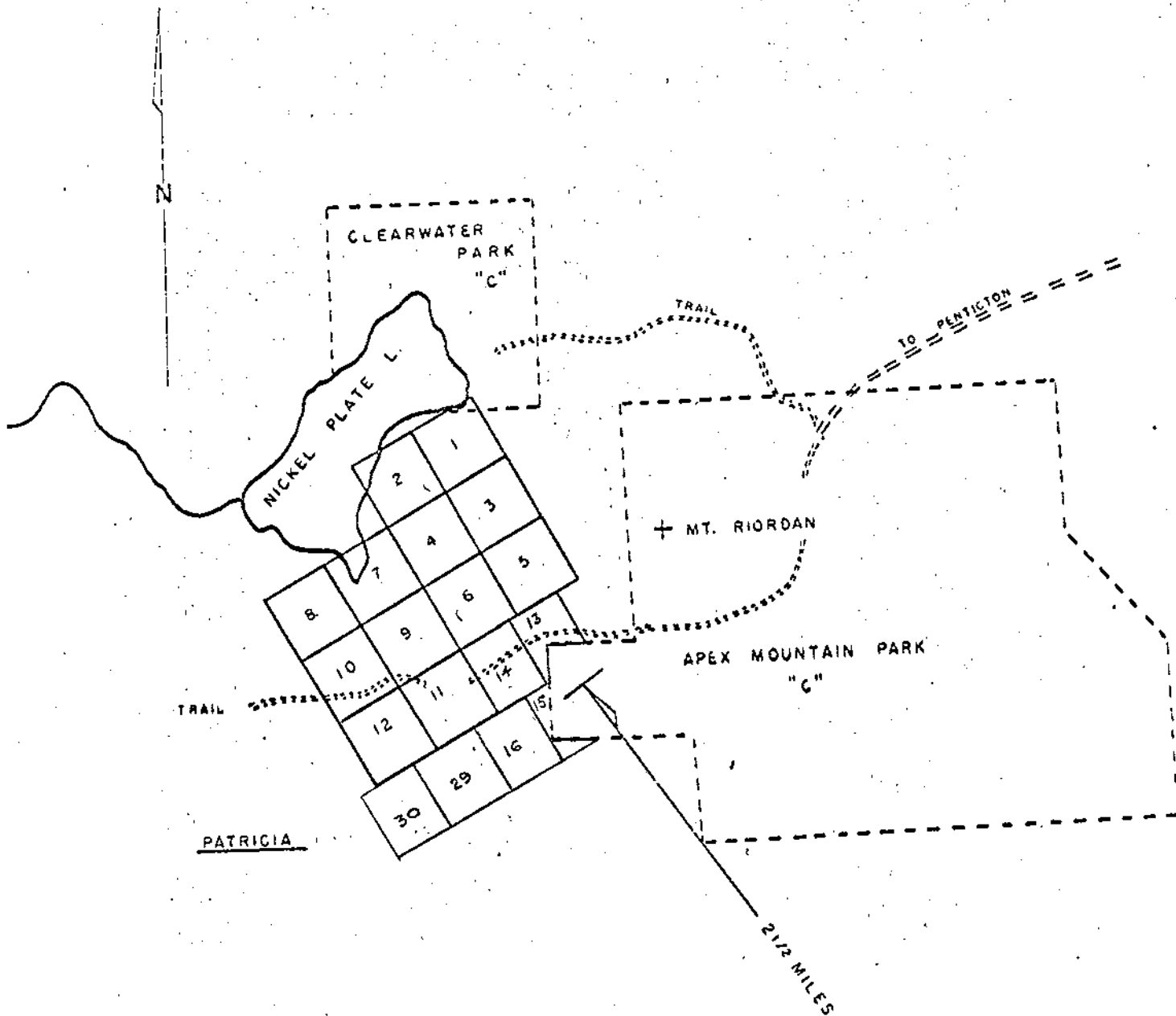
SAMPLE NO.:	PPM
	Copper
50E 4S	33
6	58
8	28
50E 10S	28

GTA,



Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 4233 MAP #4

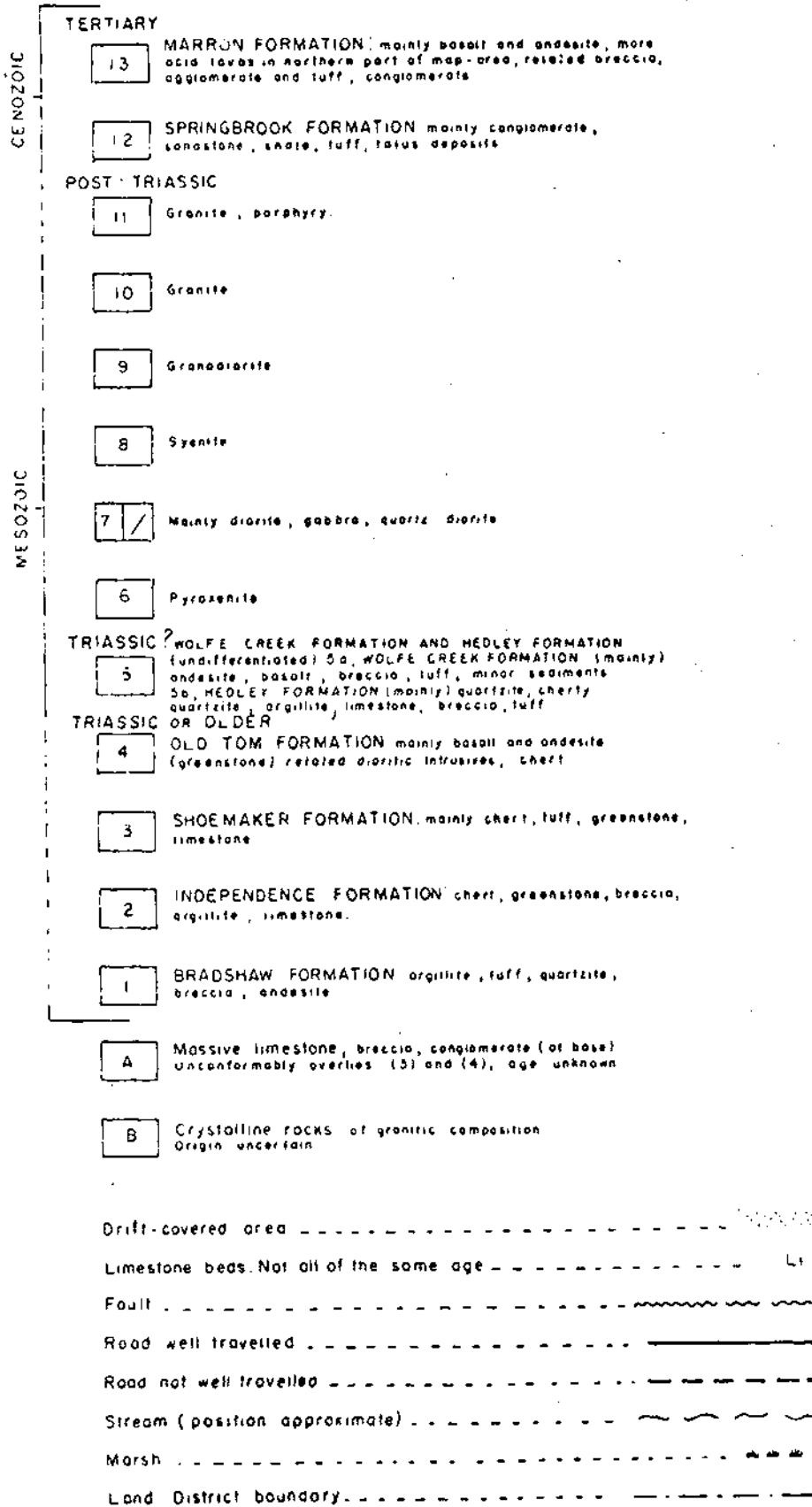
PATRICIA CLAIMS
SIMILKAMEEN DISTRICT B.C.
SCALE: 1" = 3000'
CORVAL RESOURCES LTD.



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4233 MAP #5

X APEX MTN
FEB 1971

LEGEND



DOMINION OF CANADA:
PROVINCE OF BRITISH COLUMBIA.
To Wit:

In the Matter of COSTS INCURRED IN CARRYING OUT THE
EXPLORATION PROGRAM ON THE PATRICIA GROUP.

I, G. C. GUTRATH

of #420 - 475 Howe Street, Vancouver, B. C.

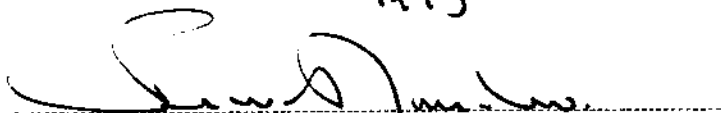
in the Province of British Columbia, do solemnly declare that PERSONNEL AND COSTS INCURRED IN CARRYING OUT THE EXPLORATION PROGRAM IN THE GEOLOGICAL AND GEOCHEMICAL REPORT ON THE PATRICIA CLAIMS BY G. GUTRATH, FEBRUARY, 1973.

I. Personnel

(a) J. R. Lerner - Senior Technician 5 days @ \$60.00/day	\$ 300.00
(b) P. Guiget - Line cutter and Soil sampler 3 days @ \$35.00/day	105.00
(c) J. D. Lerner - Line cutter and Soil sampler 3 days @ \$35.00/day	105.00
(d) G. Gutrath, P.Eng., geologist Overall supervision, data compilation and report.	233.00
(e) Field costs and Living expenses 9 man days @ \$12.00/day	108.00
(f) Transportation Ford 4x4 = 280 miles @ 30¢/mile	84.00
(g) Geochemical analysis	72.52
	<u>\$ 1,007.52</u>

And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the City
of VANCOUVER, in the
Province of British Columbia, this 5th
day of MARCH, A.D. 1973



A Commissioner for taking Affidavits for British Columbia or
A Notary Public in and for the Province of British Columbia

NICKEL
PLATE
LAKE

8'7
10'9

8'7
10'9

10'9
12'11

211
4'3

4'3
6'5

6'5
14'13

DRIFT
COVERED
AREA

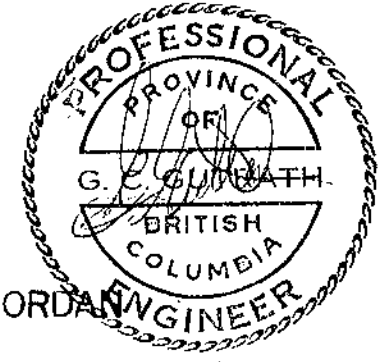
DRIFT
COVERED
AREA

THICK

LIGHT

PARK
BOUNDARY (approx.)

MT. RIORDAN



LEGEND

UPPER TRIASSIC (NICOLA GROUP)

Greenstone, tuff, quartzite, limestone, argillite and schist

SYMBOLS

- Bedding
- Glacial striae
- Skn Garnet diopside skarn
- Py Pyrite
- Cpy Chalcopyrite
- Granodiorite float
- Outline of outcrop
- Limit of glacial drift
- Trench
- Adit
- Marsh
- Dirt road

4233
M-1

CORVAL RESOURCES LTD. (N.P.L.)

VANCOUVER, B.C.

PATRICIA MINERAL CLAIMS

GEOLOGY

OSOYOOS MINING DIVISION

N.T.S. 82 E/5 W

ATTLED EXPLORATION MANAGEMENT

DATE: DECEMBER, 1972

DRAWN by J.R.L.



LINE 0

5 E

10 E

15 E

20 E

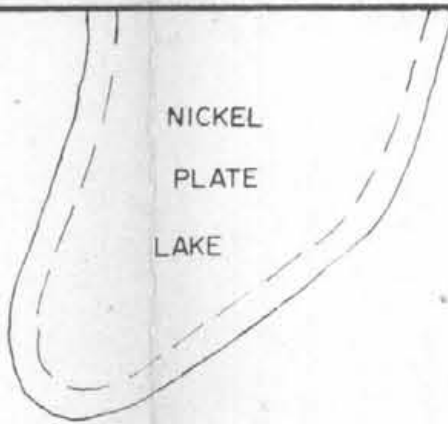
25 E

30 E

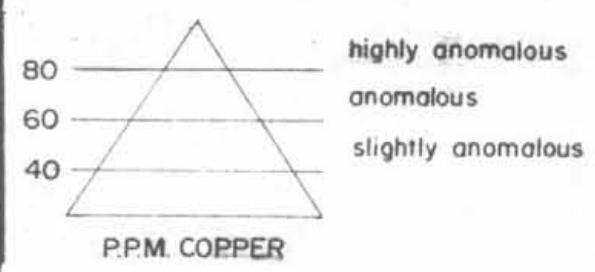
35 E

BASE LINE

80' Skn with minor chalcopyrite



4233
M-2



CORVAL RESOURCES LTD. (N.P.L.)
VANCOUVER, B.C.

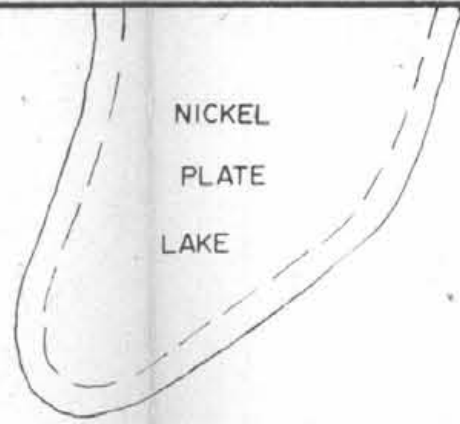
PATRICIA MINERAL CLAIMS
GEOCHEMICAL SURVEY
COPPER PLOT

OSOYOOS MINING DIVISION N.T.S. 82 E/5 W

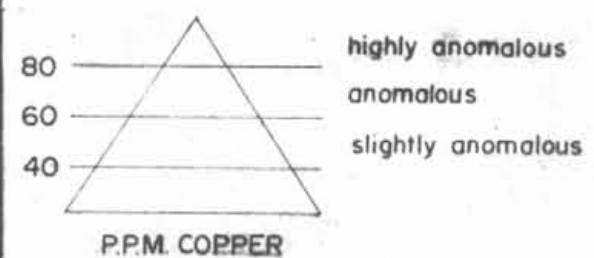
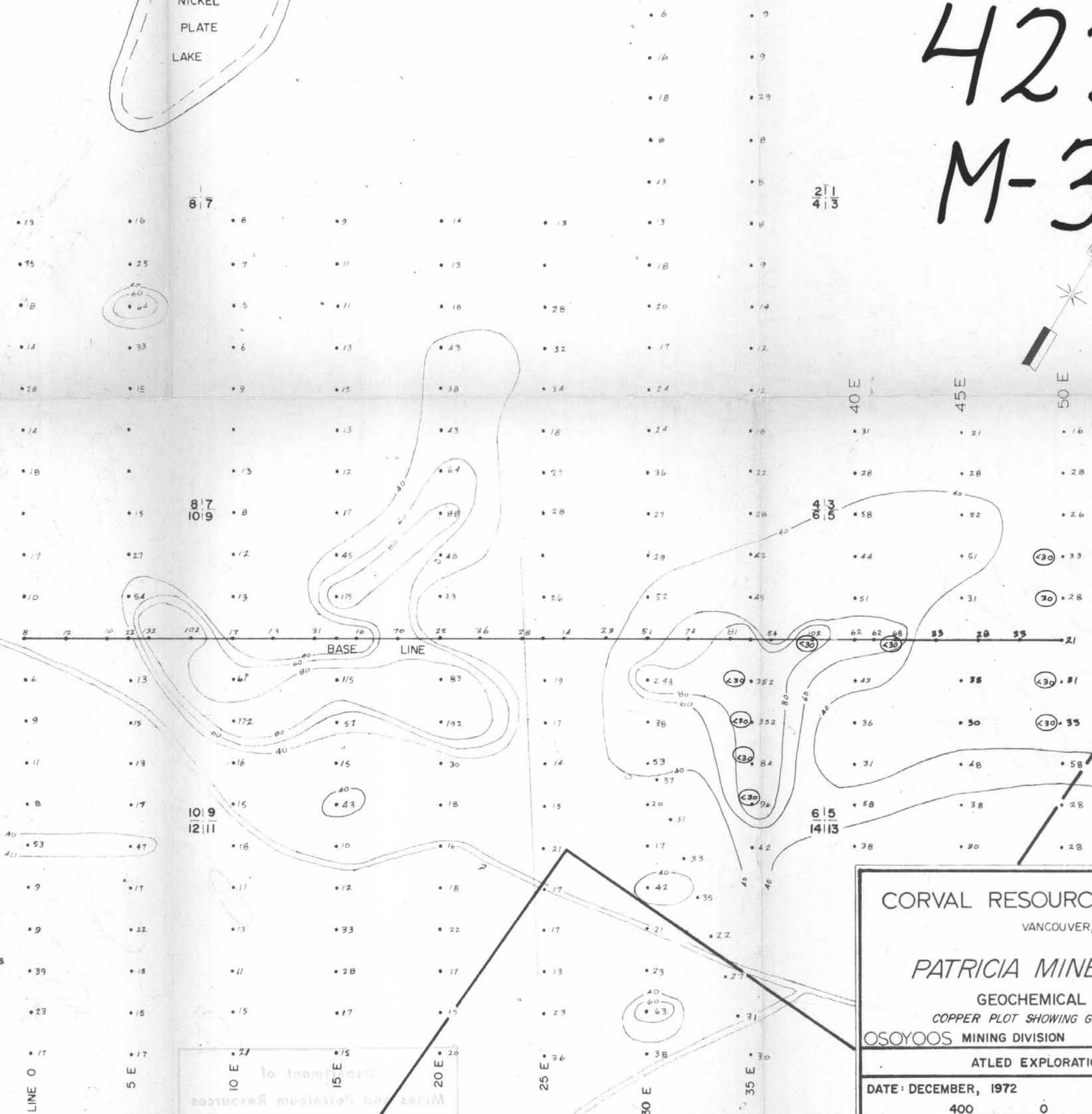
ATLED EXPLORATION MANAGEMENT

DATE: DECEMBER, 1972 DRAWN by J.R.L.

SCALE IN FEET



4233
M-3



NOTE: GOLD VALUES IN PARTS PER BILLION

CORVAL RESOURCES LTD. (N.P.L.)
VANCOUVER, B.C.

PATRICIA MINERAL CLAIMS

GEOCHEMICAL SURVEY

COPPER PLOT SHOWING GOLD VALUES (CIRCLED)

OSOYOOS MINING DIVISION N.T.S. 82 E/5 W

ATLED EXPLORATION MANAGEMENT

DATE: DECEMBER, 1972 DRAWN by J.R.L.



Assessment Report
 Minerals and Petroleum Resources
 Department of