

Geological & Geochemical
Field Work 92I/6E
Mal Claims
August 1972
D. Arscott.
P. Fitzgibbon.

3798

3798

GEOLOGICAL AND GEOCHEMICAL

FIELD WORK

MEL CLAIMS

(50° 26' N, 121° 11' W)

SPENCES BRIDGE, B.C.

Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. 3798 M.P.
--

8th to 10th August 1972

D. Arscott.
P. Fitzgibbon.

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INTRODUCTION

GENERAL

Reconnaissance geological mapping and geochemical detailing were carried out on the group of 8 Mel claims for Anglo Bomarc Mines Ltd. The results of this work and of previous soil sampling, are compiled in this report.

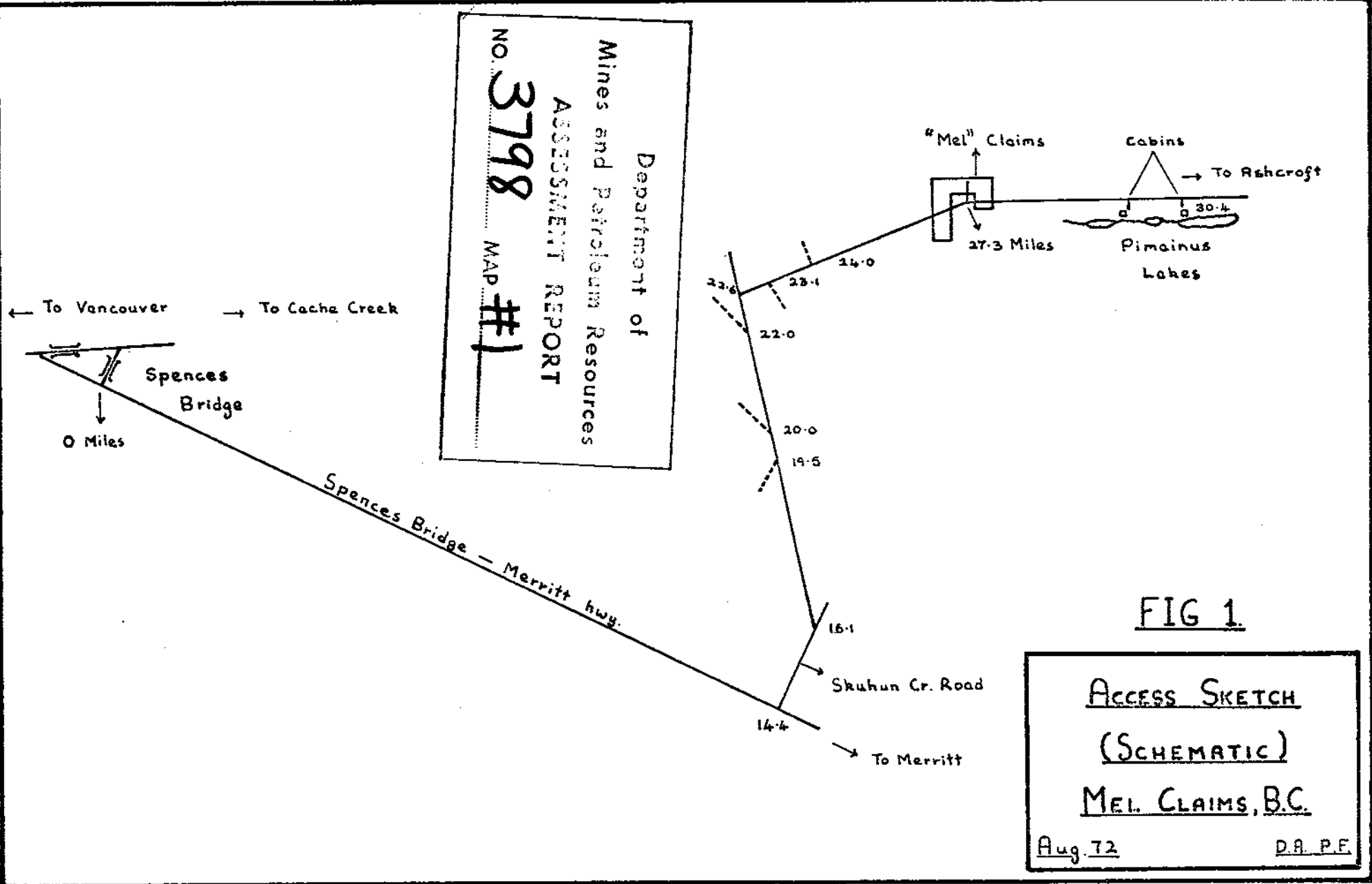
LOCATION and ACCESS

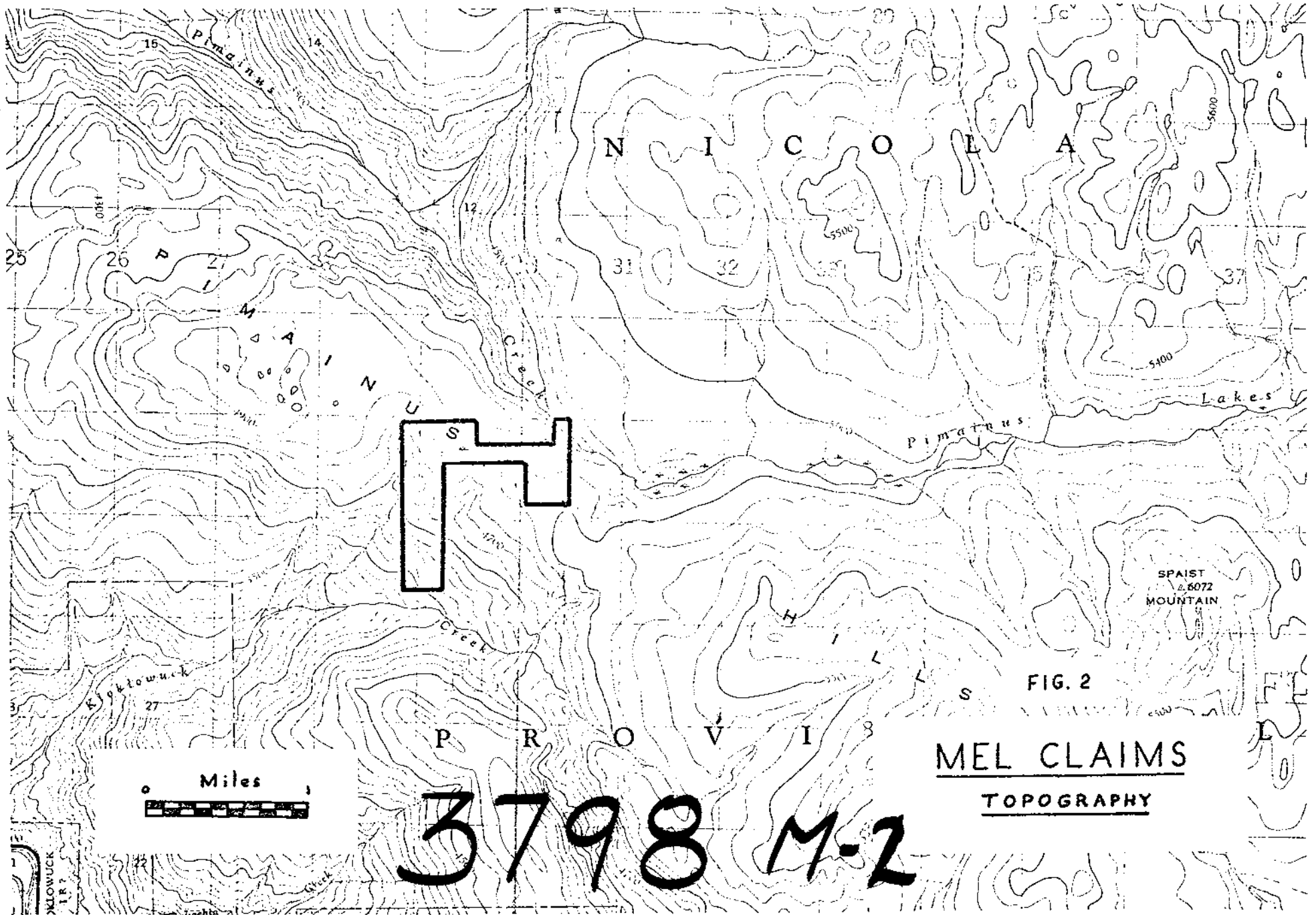
The property lies 8 miles due east of Spences Bridge B.C., and road access is available from Ashcroft (via the Alwin Mining Camp) as well as from Spences Bridge. The latter access is the better one (see Fig. 1.) In dry weather this route, though rough, is negotiable by any vehicle with good clearance.

GEOGRAPHY (See Fig. 2)

Although relief across the claims is approximately 1500 feet, almost all slopes are gentle. Furthermore the vegetation is mainly well spaced pine with very little underbrush. These factors provide excellent traversing conditions.

A large proportion of the property is covered by silty drift of variable depth. Hence outcrop is sparse.






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FIG. 2
MEL CLAIMS
TOPOGRAPHY

Miles
0 1 2 3 4 5

5
3

00
D

 Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3798 MAP #2

GEOGRAPHY (cont.)

The region is fairly dry. However, Pimainus Creek and perhaps also Kloklowuck Creek, are perennial streams.

GEOLOGY

The Mel claims lie across the contact between the Spences Bridge volcanics and the Hybrid Phase of the Guichon Batholith.

The volcanics are mainly represented on the property by a fairly consistent grey vesicular rock of intermediate composition believed to be a dacite (See Fig. 4).

Quartz diorite was located approximately a mile south of claim Mel #1. Hence, taking the regional trend from government mapping, it can be seen that the intrusive contact should pass approximately through the eastern side of Mel #4.

A porphyritic feldspar of volcanic appearance was observed at station 3800 on the 'A' base line, adjacent to a breccia bearing fragments of the same material. These outcrops may represent a dyke with a post-dyke movement along its contact.

A very pronounced airphoto linear is evident just to the north of the claims, and has been plotted in Fig. 4. The photos were not seen prior to the field work and the linear has not therefore been ground checked.

The 1969 and 1970 grids, together with the pace and

GEOLOGY (cont.)

compass method, were used for control during mapping.

GEOCHEMISTRY

The bulk of the soil samples shown in Fig 5 were collected by Strato Geological Ltd. in 1969 and 1970. The additional samples were taken this year to further elucidate the main geochemical anomaly at the eastern edge of the property. They were taken from an average depth of 5 inches by shovel and were mostly light brown to grey silts. They were collected in paper bags, shipped to Vangeochem and the minus 80 mesh fraction analysed for copper and zinc.

A cumulative percent frequency plot of the copper values indicates a threshold of 45 ppm (parts per million) over the volcanics and 30 ppm over the intrusive, with 4% and 25% of the samples anomalous respectively.

A similar plot of the zinc values gives a 50 ppm threshold throughout the claims. However, this would require some 35% of the samples to be anomalous, which is a suspiciously large number. Hence an arbitrary threshold of 100 ppm has been chosen.

The main geochemical features of interest are:

a) a generally anomalous copper zone at the south end of Mel # 1,

GEOCHEMISTRY (cont.)

with minimum length and width of 1000 feet and 600 feet respectively and a peak value of 165 ppm.

b) a copper anomaly 500 feet wide on the ^{western} ~~eastern~~ ^{claims} boundary of the claims, with a peak of 202 ppm.

c) a copper anomaly on Mel # 9, measuring 700 by 400 feet, with a peak of 90 ppm.

The zinc anomalies are of more dubious character. The values have a poor statistical distribution, and in no case do the zinc highs correlate with the copper anomalies, suggesting a completely different source. If to this we add the lack of significant zinc mineralization in this region, and the characteristic high mobility of zinc, it would seem wise to ignore these zinc anomalies.

GEOPHYSICS

The aeromagnetic map (Fig. 3) indicates a general north south trend, nearly parallel to the intrusive contact within a region of generally high magnetic relief. The strong local magnetic gradient along the Mel # 2 / Mel # 4 boundary confirms the presence of the main contact at that location.

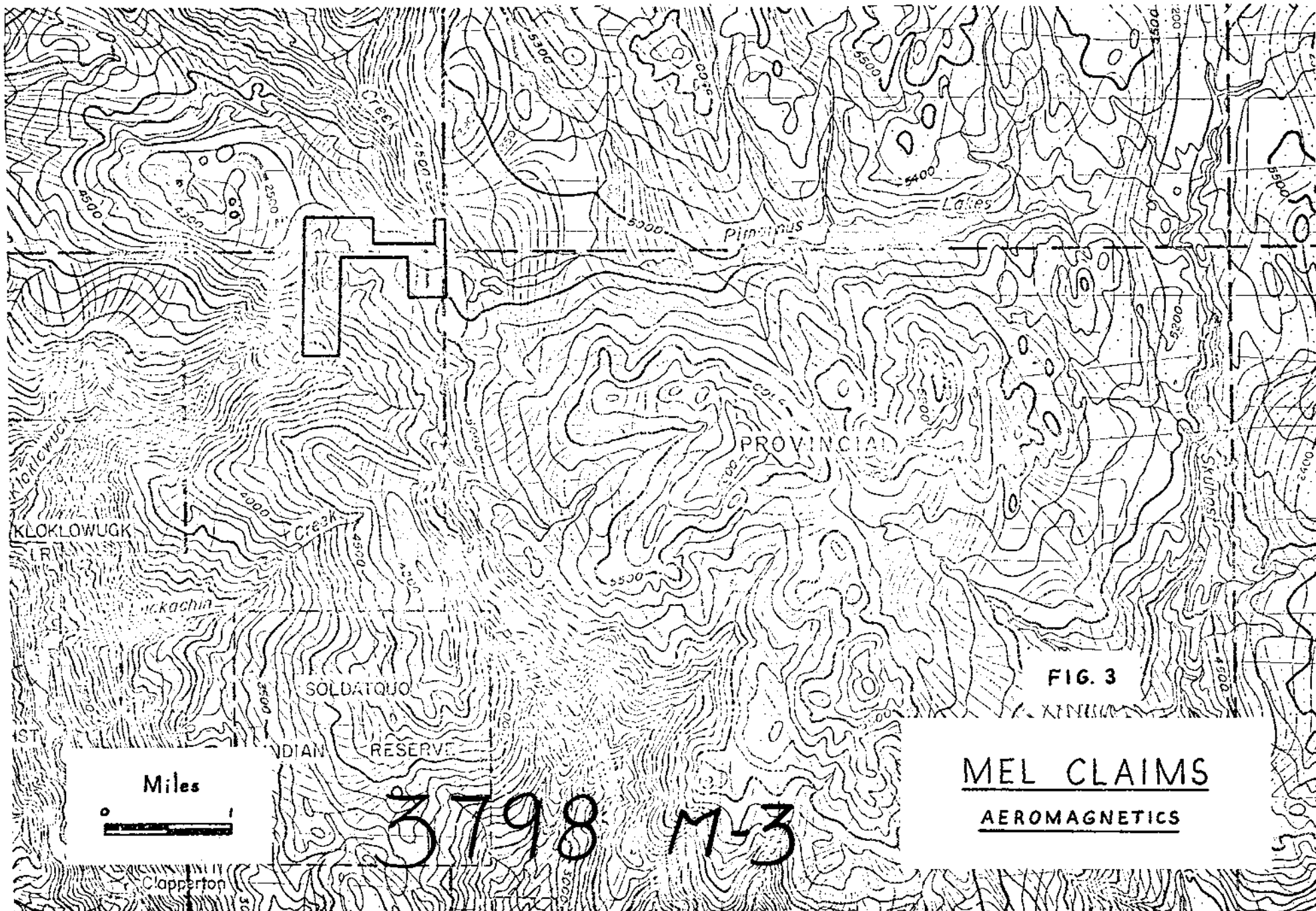


FIG. 3

MEL CLAIMS

AEROMAGNETICS

3798 M-3

Miles



Clapperton

Department of
Mines and Geothermal Resources
AUGUST 1981
NO. 3798 #3

CONCLUSIONS

The mapping has located very approximately the main intrusive contact.

The geochemical work has resulted in three moderately good copper anomalies of unknown origin. Of these the one on claim Mel #1 is considered the best. It is the largest and it probably lies within the Guichon Batholith close to the intrusive contact.

Recommendations are made as follows:

1. Further ground checking of the second and third copper anomalies (Cost, about \$ 600.00)
2. Induced Polarization coverage of the three copper anomalies (Cost, about \$ 1500.00)

D. Arscott

D. Arscott, P. Eng.

P. Fitzgibbon

P. Fitzgibbon, Dipl. Tech.

REFERENCES

REPORTS:

1952 , Duffell and McTaggart , Ashcroft Area, G.S.C. Memoir 262

1969 , Bullis, A., Mel Group

1969 , Bullis, A., Mel Group, Soil Sampling Report

1970 , Donaldson, C., Mel Group, Geochemical Survey

MAPS:

1969 , Structure of Guichon Creek Batholith, B.C. Dept of Mines

1958 , Topographic Map, Spences Bridge, 92 I/6 East, 1:50,000

1962 , " " , Ashcroft, 92 I, 1:250,000

1967 , Aeromagnetic Map, Spences Bridge, 92 I, 1:63,360

AIRPHOTOS:

B.C. 7128 - 129, 130, 203, and 204

CERTIFICATE

I, David Philip Arscott, am a Professional Engineer registered in the Province of British Columbia.

I personally supervised the work carried out in 1972 on the Mel claims.

The costs as detailed are true and accurate.

David Arscott

David Arscott, P.Eng.

APPENDIX

INVOICE NO: 36

DATE: 20 Aug 72

In account with: D. Arscott
925-510 West Hastings Street
Vancouver, B. C.

TO: Anglo Bomarc Mines Ltd
301-540 Burrard St.
Vancouver, B.C.

RE: MEL CLAIMS

Fees: D.A. - 3 hrs @ 10.00	30.00
P.F. - 3 hrs @ 6.00	18.00
Expenses: D.A. -	36.53

AMOUNT DUE

84.53

-D. Arscott
687-2923

D. Arscott

INVOICE NO: 33

DATE: 15 Aug 72

In account with: D. Arscott
925-510 West Hastings Street
Vancouver, B. C.

TO: Anglo-Bonarc Mines Ltd.
301-540 Burrard St.
Vancouver, B. C.

RE: COSTS, 16 Jul - 15 Aug 72
MEL CLAIMS

Fees: D.A. - 43½ hrs @ 10.00 =	435.00	
P.F. - (2+47½) @ 6.00 =	297.00	
L.J. - 3 days @ 35.00 =	105.00	
Expenses: D.A.	<u>236.45</u>	
	1073.45	1073.45

PCP CLAIMS

Fees: D.A. - 8 hrs @ 10.00 =	80.00	
Expenses: D.A. =	<u>120.70</u>	
	200.70	200.70

AMOUNT DUE

1274.15

-D. Arscott
687-2923

D. Arscott

COSTS BREAKDOWN

LABOUR

Field work	212.50
Travel	284.50
Expediting	54.00
Report	222.00
Drafting	112.00
Total	<u>885.00</u>

EXPENSES

Truck rental and gas	147.96
Reproduction	9.33
Analyses	27.20
Food and lodging	58.49
Equipment rental	30.00
Total	<u>272.98</u>

Declared before me at the

of

Province of British Columbia

day of

VANCOUVER, B.C.

VANCOUVER, B. C.

AUG 23 1972

[Signature]
Sub - Mining Recorder

Sub - Mining Recorder

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

Total job cost 1157.98

David Arceatt D. A.

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

In the Matter of Geological and
Geochemical Field Work, MEL
Claims, Spences Bridge, 1972.


I, David Philip Arscott

of 925-510 W. Hastings Street, Vancouver 2, B.C.

in the Province of British Columbia, do solemnly declare that the following list
represents the true labour costs of the project.

<u>Name</u>	<u>Address</u>	<u>Position</u>	<u>Rate</u>	<u>Time</u>	<u>Fees</u>
D. Arscott	As above	Geologist	10.00 per hr.	46½ hrs	465.00
P. Fitzgibbon	1317 Maple St. Vancouver 9, B.C.	Technician	6.00 per hr.	52½ hrs	315.00
L. Johnson	677 E. Windsor Rd. N. Vancouver B.C.	Helper	35.00 per hr.	3 days	105.00
TOTAL LABOUR COSTS					885.00

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
of VANCOUVER, B.C., in the
Province of British Columbia, AUG 23 1972
day of  Sub-Mining Recorder

David Arscott

MEL

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C., CANADA TELEPHONE 604-988-2172

GEOCHEMICAL ANALYTICAL REPORT

REPORT No. 72-13-003 DATE August 16, 1972
 Job No. 72-201
 SAMPLES SUBMITTED BY D. Arscott COMPANY D. Arscott
 SHIPPED VIA picked up FROM _____
 REPORT ON 16 samples for Cu, Zn DATE SAMPLES ARRIVED August 13, 1972

* * *

COPIES OF THIS REPORT SENT TO:

TRANSMITTED BY:

- (1) Mr. D. Arscott
- 925-510 W. Hastings Street
- (2) Vancouver, B.C.
- (3) _____

Mail

SAMPLES SIEVED OR GROUND TO -80 MESH WEIGHT USED 0.5g
 FINAL VOLUME 10 ml ALIQUOT USED n/a

* * *

METHOD OF ANALYSIS: Instrumental Atomic Absorption

EXTRACTION: Hot HClO₄ & HNO₃ digestion

DETECTION: Techtron AA5 & AA1000

SAMPLES ASSIGNMENT: (a) PREPARED SAMPLES: filed

(b) REJECTS: discarded

* * *

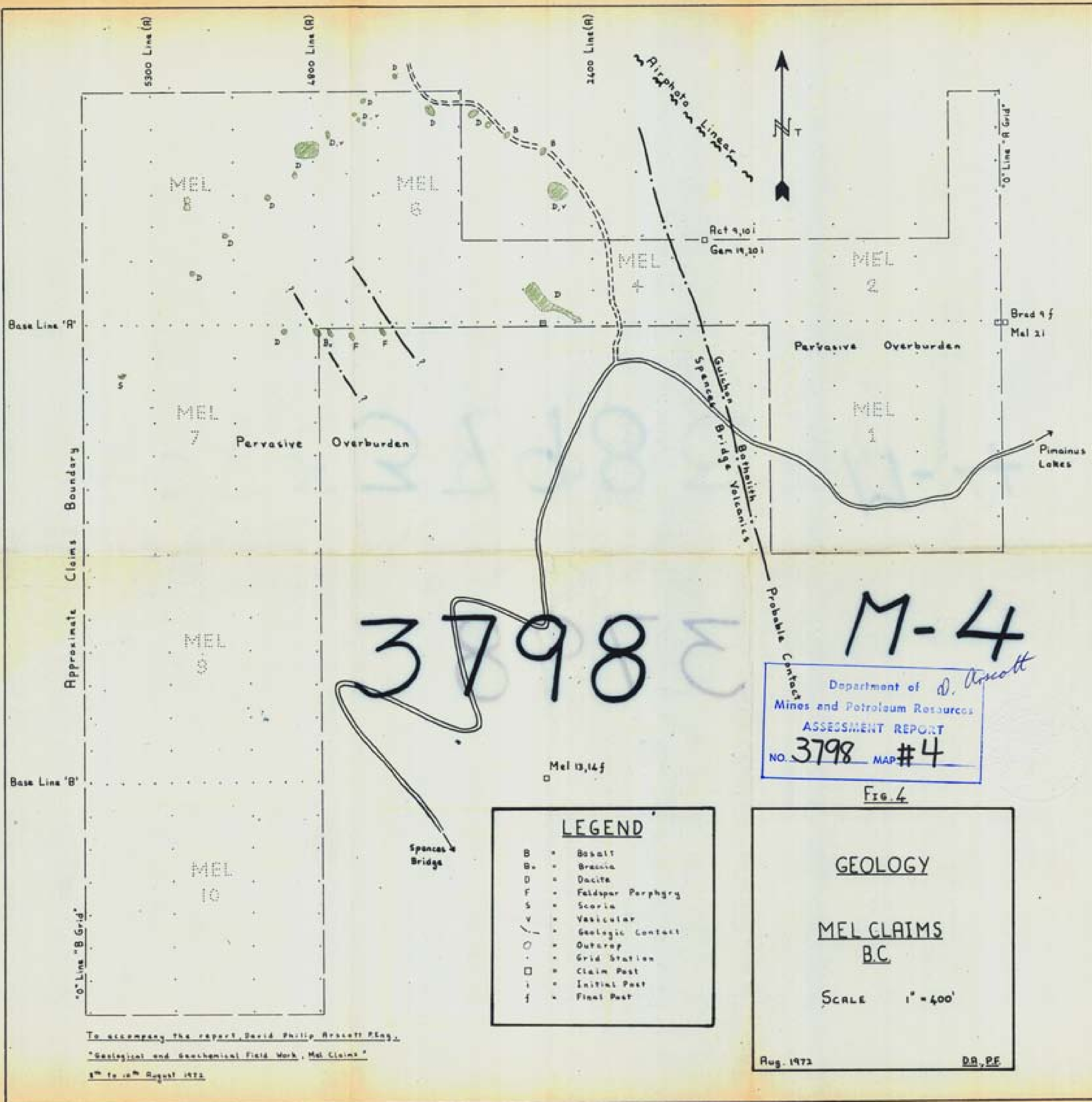
ANALYST(S) W.L. TYPIST dcw

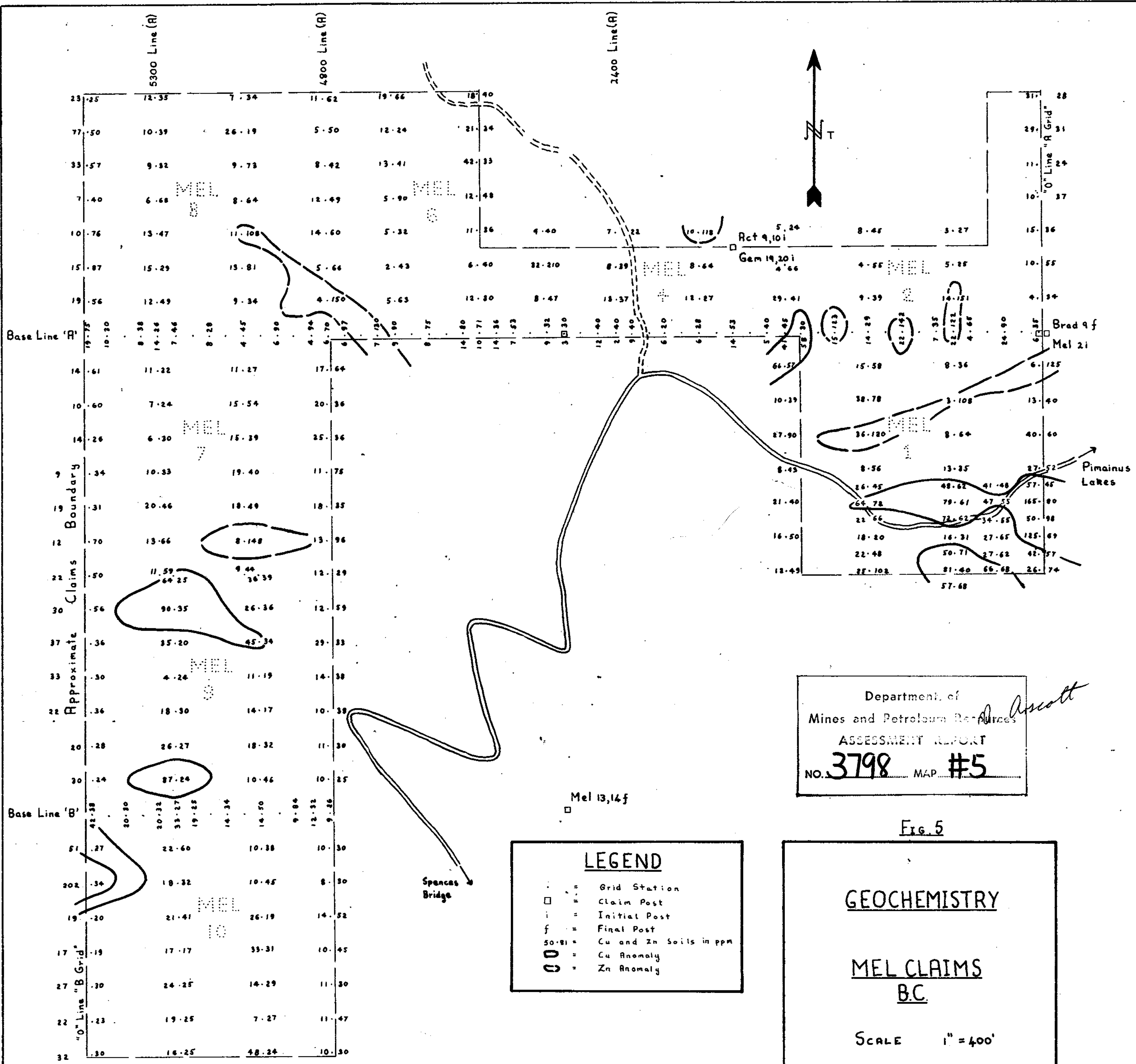
SUPERVISING CHEMIST C. Chun CHECKED BY [Signature]

COSTS:

SHIPPING CHARGE	\$	<u>---</u>
SAMPLE PREPARATION	\$	<u>3.20</u>
ANALYSIS	\$	<u>26.00</u>
OTHER	\$	<u>---</u>
TOTAL	\$	<u>27.20</u>

SPECIALIZING IN TRACE ELEMENT ANALYSIS





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Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **3798** MAP # **5**

Fig. 5

LEGEND

- = Grid Station
- = Claim Post
- i = Initial Post
- f = Final Post
- 50-81 = Cu and Zn Soils in ppm
- 00 = Cu Anomaly
- 00 = Zn Anomaly

GEOCHEMISTRY

MEL CLAIMS
B.C.

SCALE 1" = 400'

Aug. 1972 D.R., P.E.

To accompany the report, David Philip Arscott P.Eng.,

"Geological and Geochemical Field Work, Mel Claims"

8th to 10th August 1972