

**ANACONDA Canada Exploration Ltd.**

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Copy 1.



November 26, 1981.

Ms. B. Proudfoot  
Mining Recorder  
Dawson Mining District  
Department of Indian and Northern Affairs  
Box 249  
Dawson City  
Y.T.



Dear Ms. Proudfoot:

Enclosed are two copies of the technical report REPORT FOR ASSESSMENT, LAKE 1-30 CLAIMS, DAWSON MINING DISTRICT, YUKON TERRITORY, NTS 116-A/4 (Aussie Creek) by R. Hall.

I am of the understanding that the report completes outstanding requirements for one year of assessment work applied to LAKE claims September 28, 1981 by G. Carlson of Anaconda Canada Exploration Ltd.

If sufficient documentation has not been received to maintain LAKE claims in good standing to the anniversary date of September 15 in 1982 I would appreciate being informed immediately.

Yours Sincerely

RDH:lad

Richard D. Hall  
Staff Geologist

090917

This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representative work in the amount  
of \$ 3000.

*P. Walker*

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

ANACONDA CANADA EXPLORATION LTD

REPORT FOR ASSESSMENT

LAKE 1-30 CLAIMS

DAWSON MINING DISTRICT

YUKON TERRITORY

NTS 116-A/4 (Aussie Creek)

by

R. Hall, November, 1981.

090917

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## INTRODUCTION

The following report is submitted to fulfill outstanding requirements for one year of assessment applied to the LAKE 1-30 claims September 28, 1981.

Although compiled by Richard Hall - Staff Geologist, Anaconda Canada Exploration Ltd., the report is largely based on internal summary reports of others previously employed by Anaconda on a temporary basis. Expenditures totalling \$(C)3000.00 for the period September 15, 1980 to September 15, 1981 are tabulated in Appendix II.

## LOCATION AND ACCESS

LAKE claims are located on the east side of O'Brien Creek drainage in the southern Ogilvie Mountains, approximately 16 kilometers southeast of Antimony Mountain, at 64°14' north latitude and 137°57' west longitude, NTS 116-A/4 (Aussie Creek). Location of claims is illustrated in Figures 1 and 2.

The property can be reached by helicopter from Dawson City in approximately thirty minutes.

## PROPERTY

LAKE claim group was recorded September 15, 1980. The group consists of 30 Quartz claims (YA53738 to YA53767 inclusive) comprising a total area of 627 hectares (Figure 3). Assessment applied September 18, 1981 is sufficient to maintain claims to the anniversary date in 1981. A property summary is included (Appendix I).

LAKE claims cover part of lapsed Aussie 1-62 claims of the Aussie Syndicate (Silver Standard ML and Asarco) staked in September 1974. Historical name of the property is RIMROCK (see Northern Cordillera Mineral Inventory, Yukon and Northwest Territories of Archer, Cathro and Associates Ltd.).

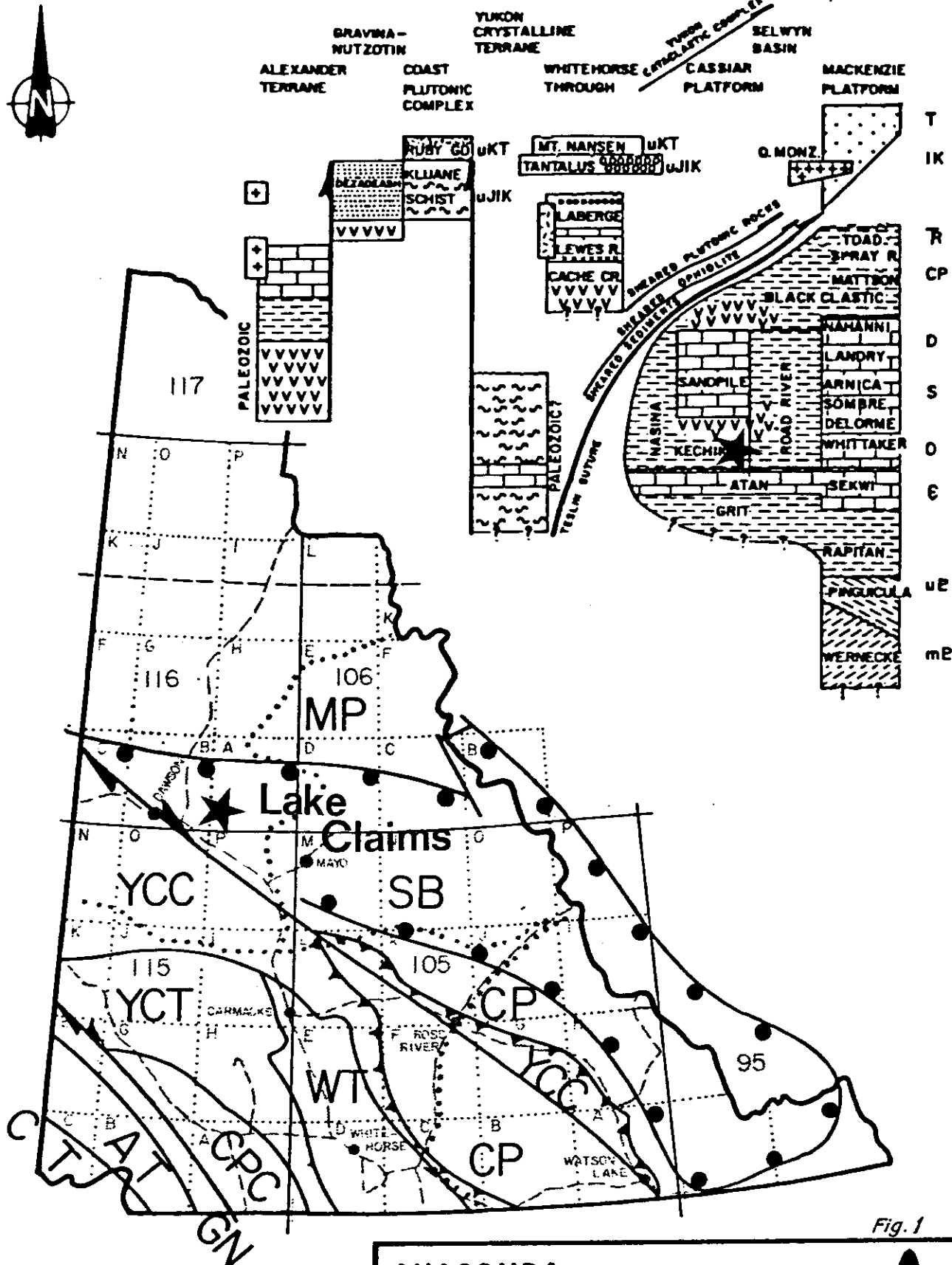
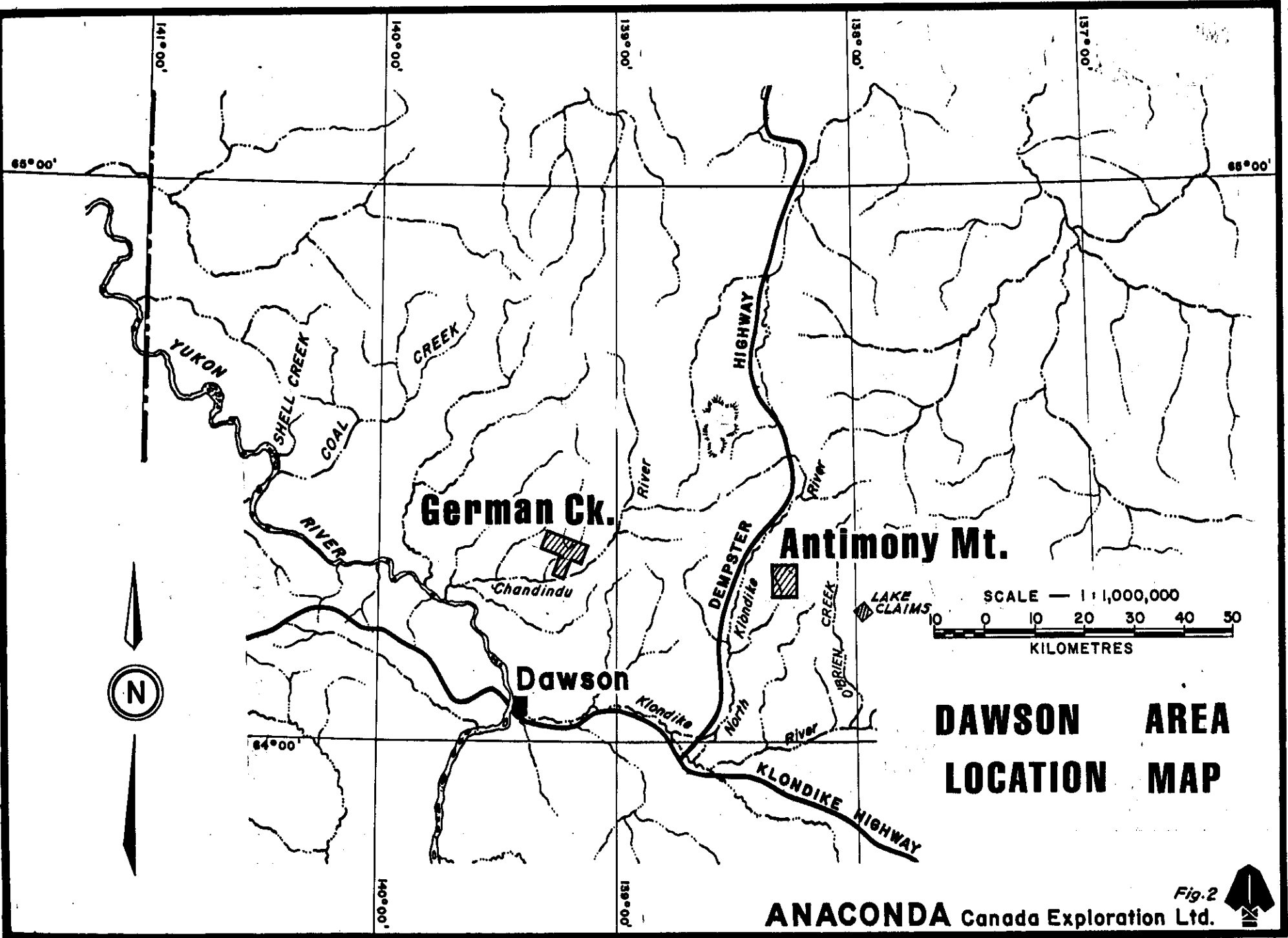


Fig. 1

ANACONDA CANADA EXPLORATION LTD.

YUKON LOCATION MAP

|                      |                 |                |
|----------------------|-----------------|----------------|
| Work by: R.HALL      | Drawn by:       | N.T.S          |
| Scale: 1 : 6,700,000 | Date: Nov. 1981 | Map ___ of ___ |



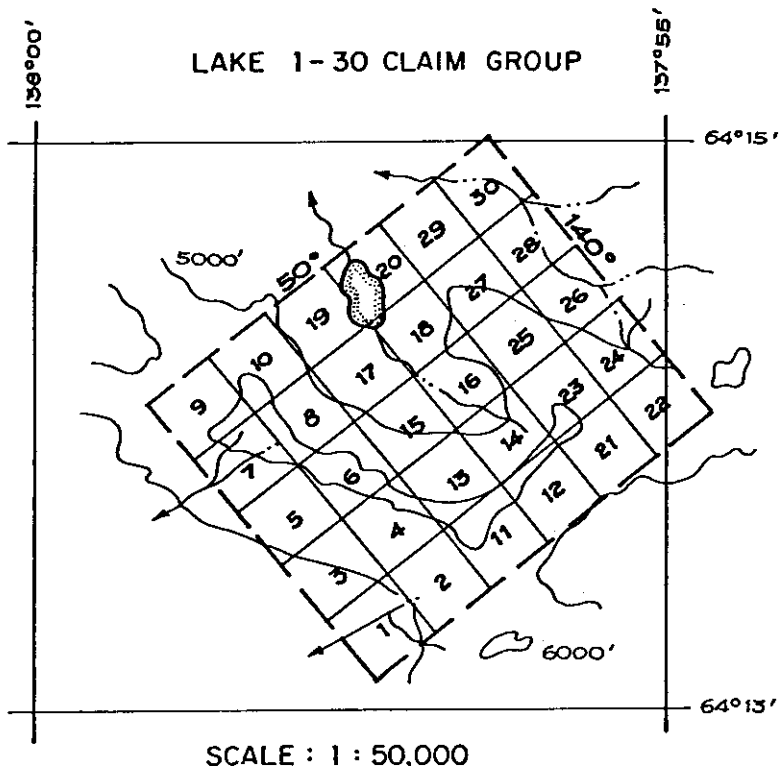
SCALE — 1:1,000,000  
 0 10 20 30 40 50  
 KILOMETRES

**DAWSON AREA  
 LOCATION MAP**

**ANACONDA** Canada Exploration Ltd.

Fig. 2





NTS Sheet 116 A/4 AUSSIE CR.

- |                   |                       |
|-------------------|-----------------------|
| <i>Lake 1-8</i>   | <i>R. Hall</i>        |
| <i>Lake 9-16</i>  | <i>B. Marini</i>      |
| <i>Lake 17-24</i> | <i>K. Baldry</i>      |
| <i>Lake 25-30</i> | <i>T. Fitzmaurice</i> |

CLAIM STAKING  
MIKE LAKE AREA  
YUKON TERRITORY

Figure 3

## REGIONAL GEOLOGY OF EASTERN LARSEN MAP SHEET

LAKE claims are located in southern Ogilvie Mountains physiographic region in an allochthonous assemblage of Upper Proterozoic and Lower Paleozoic marine sedimentary rocks bounded by Robert Service Thrust to the north and Tintina Fault to the west (Figure 4). The assemblage represents a slice of the continental terrace of North America emplaced on Cenozoic strata in Late Jurassic to Early Cretaceous time.

Rocks of the region were mapped as Unit 3 by Green (1972) but internal stratigraphy and structure of the unit was not documented. In Antimony Mountain area the section is dominated by turbidites of the Late Proterozoic "Grit Unit" ("Ekwi Supergroup") and highly imbricated tectonically. In Mike Lake area the section is carbonate rich and probably largely equivalent to Cambro-Ordovician Kechika Group of Cassiar Platform. Rocks of the Road River Formation (Unit 9 of Green) crop out approximately 6 kilometres south of LAKE claims marking the transition from Cassiar Platform to Selwyn Basin.

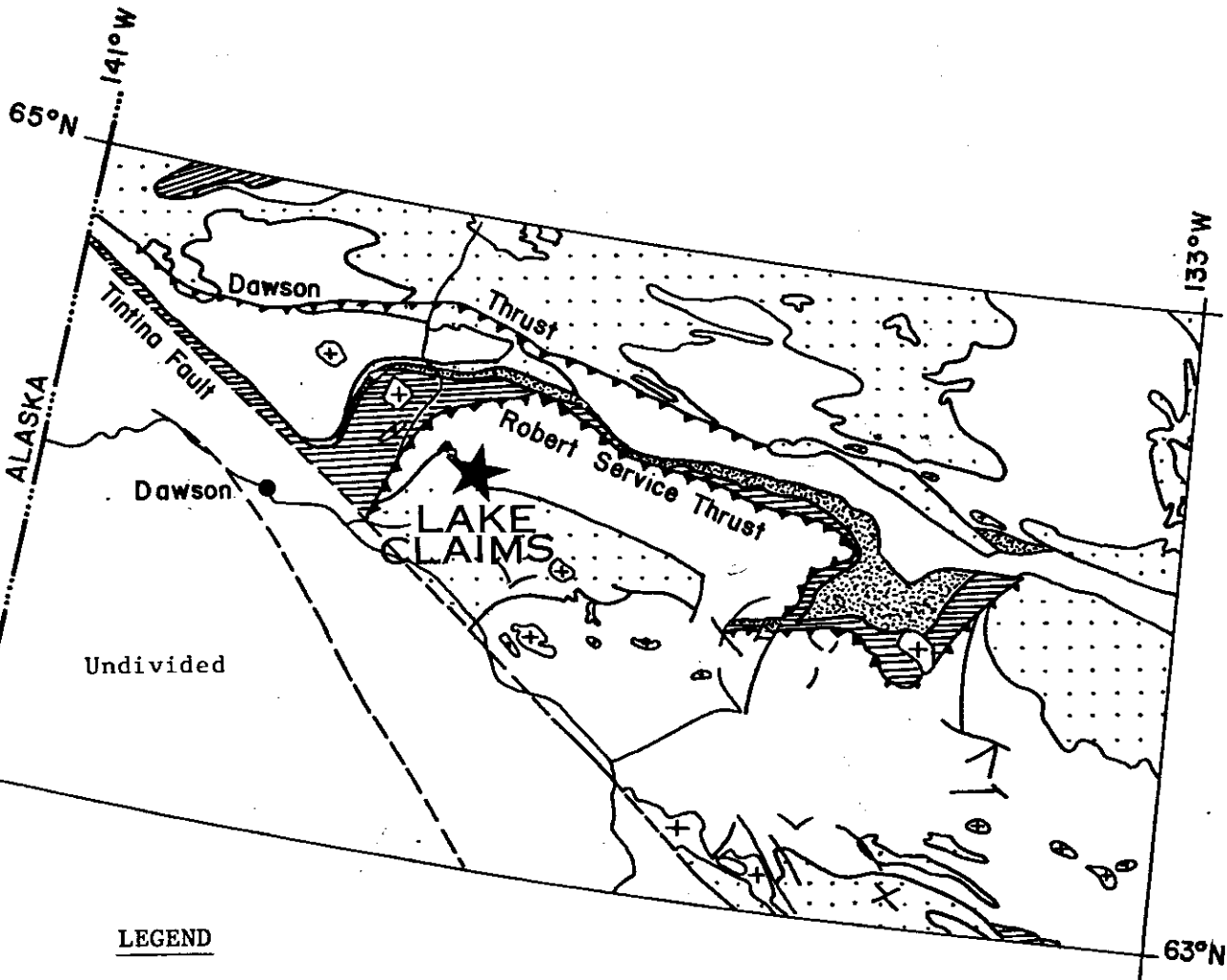
Units 3 and 9 are cut by discordant stocks and dike swarms of 120-90 m.y. Mid-Cretaceous Biotite Quartz Monzonite Suite along a belt parallel to and approximately 45 kilometers east of Tintina Trench. Auricles of stocks are loci for mesothermal precious metal vein mineralisation in tectonically imbricated stratigraphic sections and pyrrhotite-diopside skarn related lead-zinc mineralisation associated with biotite hornfels.

### PREVIOUS WORK

Interest in the Mike Lake area, Larsen Map Sheet stemmed from occurrence in O'Brien Creek (Brewery Creek) drainage of several anomalous stream silt samples identified by the reconnaissance stream sediment program of the Geological Survey of Canada (G.S.C. Open File Report 519, 1978). Follow up work by reconnaissance teams in 1979 located several areas with distinctly high base metal values in slope soils. One of these areas was designated Mike II (see results for soil samples 16401 to 16425, Table 1a of Appendix III).

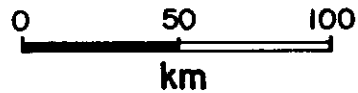
During re-examination of Mike II area from fly camp Baldry 80-1 late in the 1980 field season abundant massive sulfide talus was observed in the upper part of the central cirque. Prospecting from fly camp Hall 80-1 located the source of some mineralised talus.

Numerous mainly concordant polymetallic massive sulfide veins were observed in laminated calc-silicate hornfels of the south and west walls of the cirque above the 5000' contour. Sulphide veins crop out in approximately east-west striking and moderately to steeply south dipping recessive and rusty weathering zones, exceeding 10 meters in width, that represent traces of fault splays.



**LEGEND**

- + MIDDLE CRETACEOUS  
(120-90 m.y.) Biotite  
Quartz Monzonite Suite
- CRETACEOUS AND TERTIARY  
(undivided volcanic and  
sedimentary rocks)
- JURASSIC (undivided)
- PALEOZOIC (undivided)
- PROTEROZOIC (undivided)



**FIG. 4**

**ANACONDA CANADA EXPLORATION LTD.**

**SIMPLIFIED GEOLOGY OF THE  
DAWSON AREA**

Modified after Jackson (1976)

|                    |                     |                |
|--------------------|---------------------|----------------|
| Work by: R.H.      | Drawn by: R.H.      | N.T.S.         |
| Scale: 1 2,500,000 | Date: November 1981 | Map ___ of ___ |

Most veins are less than one metre in width, strike  $090^{\circ}$  -  $110^{\circ}$ , dip  $40^{\circ}$  -  $70^{\circ}$  and are exposed over distances exceeding 10 metres. Veins are characterised by monominerallic layering on scale of several centimetres with iron sulfides, stibnite, galena, sphalerite and minor chalcopyrite and jamesonite as main constituents. More than one vein type may be present.

LAKE 1-30 claims were staked over the main cirque August 29, 1980. Snow conditions permitted neither thorough prospecting of the south wall of the cirque nor detailed documentation of geology. However preliminary work indicated geological environment was favourable for a base metal skarn deposit.

Some regional geological data is compiled in Figure 5 at a scale of 1:50,000. Geochemical samples are located in Figure 6 at a scale of 1:50,000 and geochemistry results for samples near LAKE claims are tabulated in Appendix III.

## 1981 FIELD WORK

### INTRODUCTION

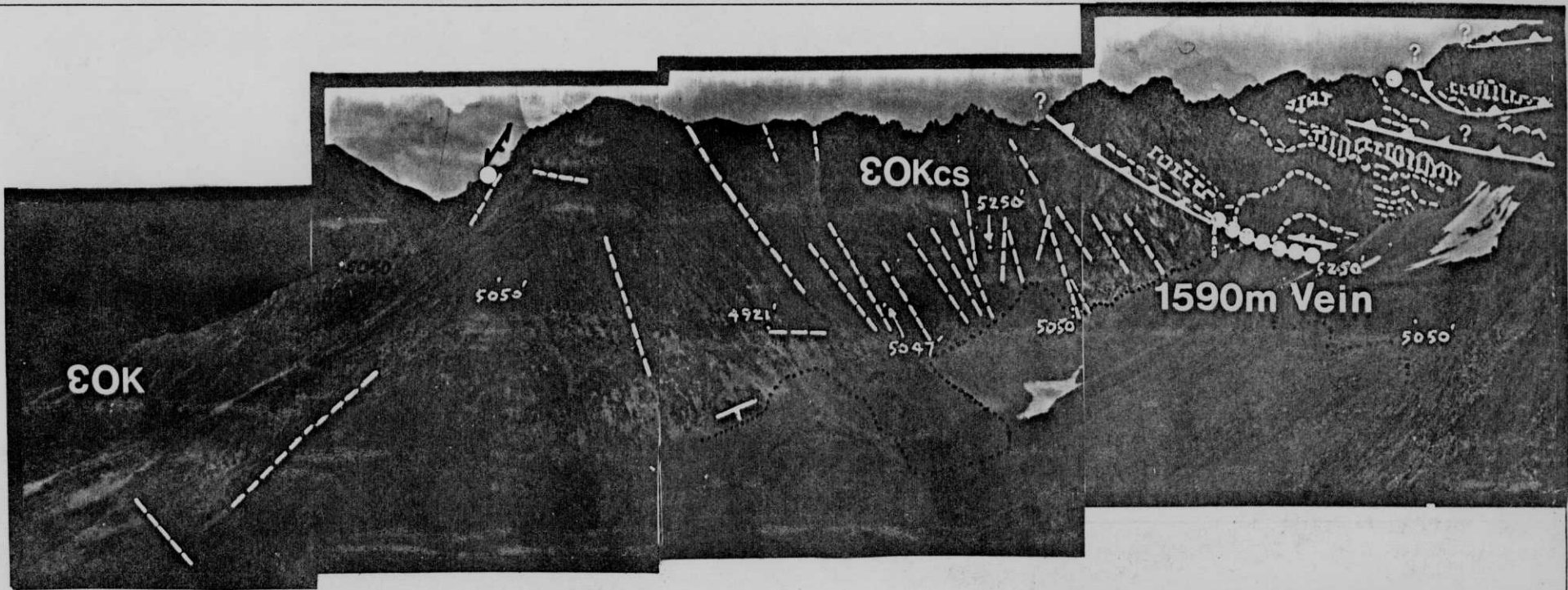
R. Hall and P. Barrette worked the LAKE claims during the period August 26 to 31, 1981. P. Barrette mapped the main cirque from the ridge top at a scale of 1:10,000. R. Hall prospected and sampled two of the principal veins, referred to here as the 1590 and 1620 metre veins, associated with recessive and rusty weathering zones.

Main objectives of the work were to determine the relationship of vein mineralisation to associated calc-silicate hornfels and to sample veins in a more systematic manner. Assay results for some high grade grab samples of veins, collected previously, ran 40 to 90 oz/ton silver (Table 3, Appendix III) but are not representative.

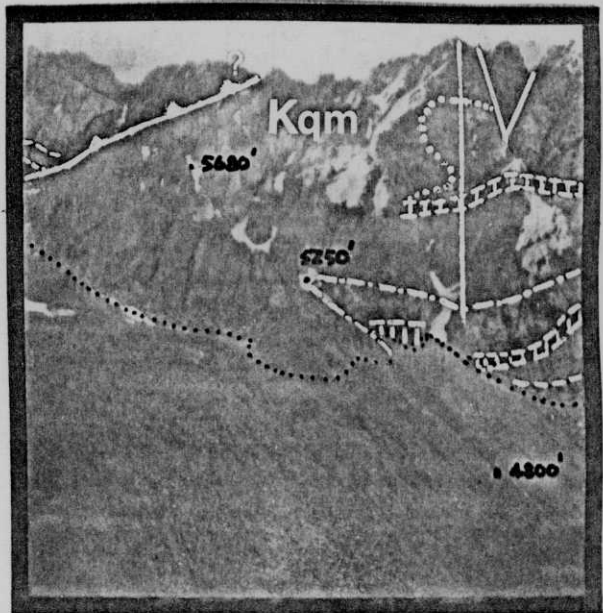
### GEOLOGY

Geology of LAKE claims, including results of 1:10,000 scale mapping, is illustrated in Figure 5 and on polaroid photomosaics of faces of the central cirque (Plates I and II).

Vein systems are mainly confined to a competent calc-silicate hornfels unit (E0 Kcs) that underlies much of the central cirque. Layering of the unit is oriented  $070^{\circ}$  to  $110^{\circ}$ /moderately south. Calc-silicate hornfels is cut by conjugate dike swarms of porphyritic (K-feldspar) biotite quartz monzonite and lesser biotite - pyroxene lamprophyre oriented approximately  $090^{\circ}/70^{\circ}$  and  $020^{\circ}/80^{\circ}$ . A small plug of porphyritic (K-feldspar) biotite-hornblende quartz monzonite crops out on south west wall of the cirque.




-10-



100m

# PLATE I. Schematic Geology NE Face

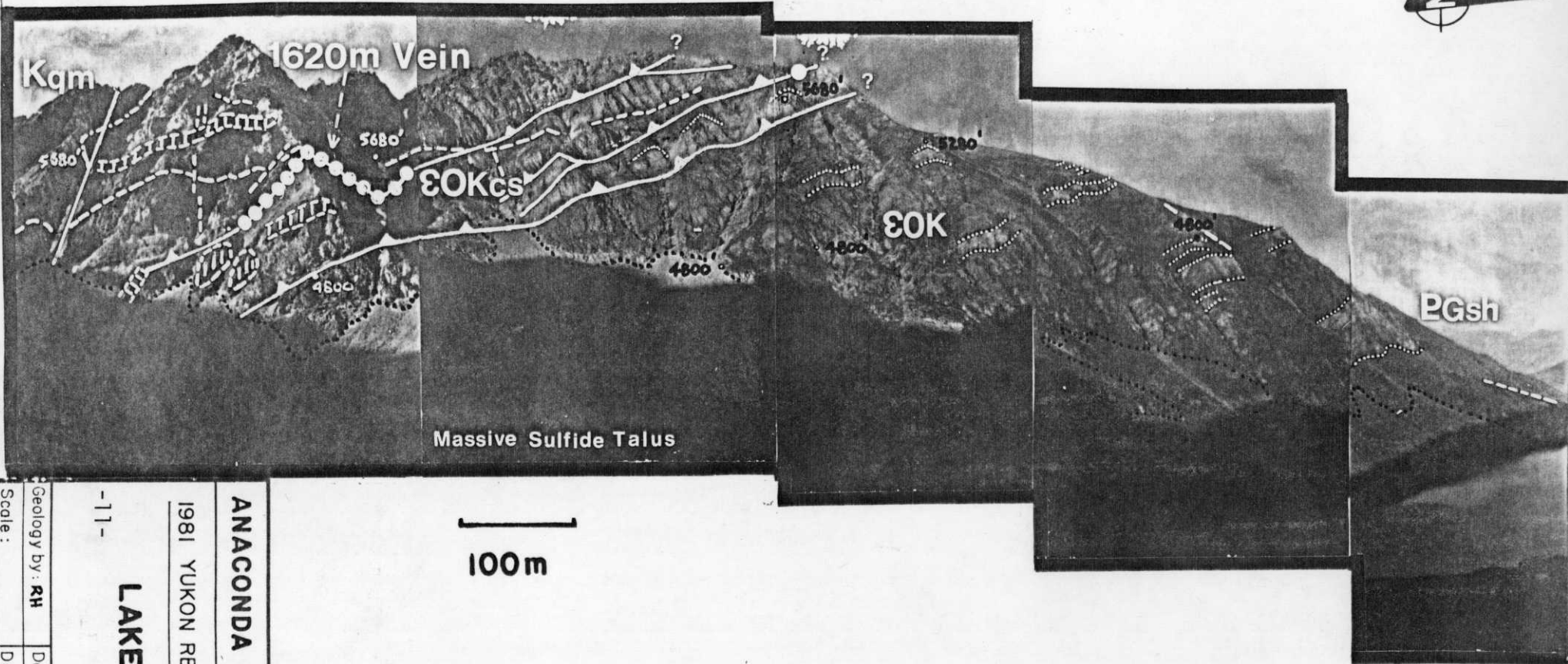
Figure

**ANACONDA** CANADA EXPLORATION LTD. 

1981 YUKON RECONNAISSANCE PROGRAM

## LAKE CLAIMS

|                 |               |                |
|-----------------|---------------|----------------|
| Geology by: R H | Date: Nov 81  | N.T.S. 116-A/4 |
| Scale:          | Drawn by: R H | Map of         |



Massive Sulfide Talus

100m

PLATE II.  
Schematic Geology SW FACE

Figure

**ANACONDA** CANADA EXPLORATION LTD.

1981 YUKON RECONNAISSANCE PROGRAM

**LAKE CLAIMS**

-11-

|                       |                     |                    |
|-----------------------|---------------------|--------------------|
| Geology by: <b>RH</b> | Date: <b>Nov 81</b> | N.T.S. 116-A/4     |
| Scale :               | Drawn by: <b>RH</b> | Map _____ of _____ |

The calc-silicate unit is cut by several major recessive and rusty weathering zones, ten to twenty metres in width, representing traces of fault splays. Major recessive zones are oriented approximately  $70^{\circ}$  to  $110^{\circ}$  and dip moderately to steeply south. A set of dikes is oriented subparallel to major recessive zones. Most prominent vein systems, such as 1590 and 1620 metre veins referred to here, are observed associated with dikes in the recessive zones. Margins of dikes, observed in conformable contact with veins in plan, are chloritised indicating veins post dated dikes.

The 1620 metre vein is oriented on  $070^{\circ}$  and traceable over a minimum strike length of 100m in a recessive zone on the southwest wall of the cirque. The maximum width of the principal vein is less than a metre and the steepest dip recorded is  $65^{\circ}$  south. Foliation of adjacent calc-silicate hornfels is in the range  $070^{\circ}/35^{\circ}$  to  $100^{\circ}/60^{\circ}$ .

The 1590 metre vein is oriented  $070^{\circ}/50^{\circ}$  and exposed over a minimum strike length of 100 metres in a recessive zone on the back wall of the cirque. The principal vein is a maximum of 1.5 metres in width. Foliation in adjacent calc-silicate hornfels is parallel to the vein.

Subsidiary rusty weathering lineaments at low angles to major recessive zones are common and frequently associated with sulfide veins of restricted width and strike length.

#### GEOCHEMISTRY

Three, approximately 25 lb. chip samples, were collected over the width of both 1590 (samples 14988 to 14990) and 1620 (samples 14985 to 14987) metre veins. Sample intervals exceeded 20 metres of strike length.

Assay results, presented in Table 4 of Appendix III, indicate grades considerably less than those for grab samples (Table 3, Appendix III). Data indicates high variability in metal content within and among veins. However the 1620 metre vein ran slightly better than 10 oz/ton silver over 0.6 metres for much of the strike length.

#### SUMMARY AND CONCLUSIONS

Ag-Pb-Zn vein mineralisation of LAKE claims is related to major recessive rusty weathering fault zones cutting calc-silicate hornfels. Assay results for the 1620 metre vein ran slightly better than 10 oz/ton silver over 0.6 metres. Sample density is not sufficient to establish strike continuity of grade.

Late development of Ag-Pb-Zn vein mineralization does not appear to support arguments for a genetic relationship between base metal vein and skarn mineralisation. Alternatively vein mineralisation may simply be the lead rich end member of mesothermal precious metal vein mineralisation commonly associated with discordant members of 120-90 m.y. Biotite Quartz Monzonite Suite in the northern Yukon.

## REFERENCES

- Archer, Cathro and Associates Ltd. 1973. Northern Cordillera Mineral Inventory, Yukon and Northwest Territories (with annual updates).
- G. Carlson et al. 1979. Anaconda Canada Exploration Ltd., 1979 Yukon Project Reconnaissance Report.
- Geological Survey of Canada 1978. Regional Stream Sediment and Water Geochemical Reconnaissance Data, Central Yukon Territory, 116A and part of 116H; Geol. Surv. Can., Open File Report 519.
- L. H. Green 1972. Geology of Nash Creek, Larsen Creek and Dawson Map-areas, Yukon. Geol. Surv. Can., Mem. 364 (Includes maps 1282A, 1283A, 1284A).
- H. Wasteneys et al. 1980 Anaconda Canada Exploration Ltd., Final Report, 1980 Yukon Reconnaissance Project.

APPENDIX I

PROPERTY SUMMARY

MIKE LAKE AREA  
LAKE 1-30 CLAIM GROUP  
DAWSON MINING DISTRICT  
YUKON TERRITORY, CANADA

---

- Location : Dawson Mining District, southern Ogilvie Mountains, Mike Lake area, approximately 16 km east of Antimony Mountain; 64°14'N latitude, 137°57'W longitude, NTS 116A/4.
- Description : Lies within mainly Upper Proterozoic to Lower Paleozoic Terrane bounded by Robert Service Thrust and Tintina Trench. Represented are imbricated carbonate rich shelf deposits, probably equivalent in part to Kechika Group of Cambrian age, intruded by Cretaceous plutons and dike swarms of the syenite suite. Main units include thinly layered diopside garnet calcsilicate hornfels, calcareous phyllite, limestone and calcareous quartz sandstone. Polymetallic zoned massive sulfide veins up to 1 m wide, striking 090 - 100° and dipping 40 - 70° are numerous throughout the calc-silicate unit. Veins post date syenite dike swarms. Assay results for samples of veins are erratic but run to 16 oz/ton Ag and 10% Pb over 0.6 metre.
- Property Status : 30 Quartz claims recorded September 15, 1980. Assessment applied September 28, 1981 is sufficient to September 15, 1981.
- Maintenance Costs : Assessment costs are \$100/claim and administrative costs are \$5/claim/year of assessment applied and \$5/grouping certificate of 16 claims at the time of filing.
- Investment : To September 30, 1980 = \$1900.00 (approximately)  
1981 = \$3000.00
- Remarks : Total to date 1981 = \$4900.00  
  
Poor potential for lead-zinc skarn deposit. Historical property name is RIMROCK.
- References : 1980 and 1981 Yukon Reconnaissance Final Reports

Updated November 15, 1981

by R. Hall

APPENDIX II

1981 EXPENDITURES

|                     |                   |
|---------------------|-------------------|
| Helicopter and Fuel | 1618              |
| Food and Supplies   | 330               |
| Assay               | 252               |
| Salaries            | 800               |
| Total               | <u>          </u> |
|                     | \$ (C)3000        |

Receipts are on file at Suite 1600, 1500 W Georgia Street,  
Vancouver, B.C. V6G 2Z6.

APPENDIX III

GEOCHEMISTRY AND ASSAY RESULTS

TABLE 1a

## 1979 SOIL SEDIMENT RESULTS IN

VICINITY OF LAKE CLAIMS (ppm)

|       | Cu  | Pb   | Zn   | As  |       |     |     |      |     |
|-------|-----|------|------|-----|-------|-----|-----|------|-----|
| 17426 | 800 | 63   | 99   | 0.4 |       |     |     |      |     |
| 17427 | 203 | 17   | 51   | 0.6 |       |     |     |      |     |
| 17428 | 51  | 172  | 202  | 1.0 |       |     |     |      |     |
| 17429 | 36  | 620  | 580  | 3.8 |       |     |     |      |     |
| 17430 | 51  | 172  | 202  | 3.4 |       |     |     |      |     |
| 17431 | 44  | 108  | 199  | 0.6 |       |     |     |      |     |
| 17432 | 43  | 102  | 168  | 0.6 |       |     |     |      |     |
| 17433 | 31  | 88   | 166  | 0.5 |       |     |     |      |     |
| 17434 | 26  | 230  | 278  | 1.4 |       |     |     |      |     |
| 17435 | 90  | 330  | 540  | 2.0 |       |     |     |      |     |
| 17436 | 40  | 510  | 810  | 2.9 |       |     |     |      |     |
| 17437 | 73  | 1060 | 1570 | 4.4 |       |     |     |      |     |
| 17438 | 67  | 136  | 137  | 0.6 |       |     |     |      |     |
| 17439 | 77  | 640  | 1150 | 4.0 |       |     |     |      |     |
| 17440 | 60  | 720  | 560  | 1.8 |       |     |     |      |     |
| 17441 | 203 | 1800 | 900  | 7.4 |       |     |     |      |     |
| 17442 | 58  | 95   | 103  | 0.3 |       |     |     |      |     |
| 17443 | 46  | 78   | 121  | 0.2 |       |     |     |      |     |
| 17444 | 39  | 141  | 134  | 0.2 |       |     |     |      |     |
| 17445 | 50  | 109  | 129  | 0.2 |       |     |     |      |     |
| 17446 | 51  | 44   | 114  | 0.2 |       |     |     |      |     |
| 17447 | 41  | 90   | 109  | 0.2 |       |     |     |      |     |
| 17448 | 58  | 112  | 181  | 0.5 |       |     |     |      |     |
| 17449 | 42  | 140  | 166  | 0.4 |       |     |     |      |     |
| 17450 | 27  | 162  | 125  | 0.2 |       |     |     |      |     |
| 17451 | 42  | 82   | 110  | 0.4 |       |     |     |      |     |
| 17059 | 57  | 154  | 136  | 0.3 | 17074 | 69  | 60  | 107  | 0.6 |
| 17060 | 64  | 168  | 214  | 0.4 | 17075 | 157 | 680 | 650  | 2.9 |
| 17061 | 62  | 89   | 154  | 0.5 | 17076 | 98  | 840 | 1000 | 3.0 |
| 17062 | 62  | 102  | 161  | 0.5 | 17077 | 146 | 620 | 530  | 3.0 |
| 17063 | 103 | 123  | 177  | 0.8 | 17078 | 58  | 93  | 131  | 0.7 |
| 17064 | 61  | 70   | 103  | 0.6 | 17079 | 91  | 720 | 760  | 2.4 |
| 17065 | 42  | 31   | 47   | 0.6 | 17080 | 69  | 400 | 460  | 2.1 |
| 17066 | 32  | 29   | 59   | 3.4 | 17081 | 87  | 110 | 241  | 0.6 |
| 17067 | 189 | 144  | 249  | 3.4 | 17082 | 37  | 26  | 105  | 0.4 |
| 17068 | 195 | 145  | 269  | 2.6 | 17083 | 34  | 23  | 107  | 0.2 |
| 17069 | 326 | 490  | 485  | 2.6 | 17084 | 32  | 28  | 94   | 0.2 |
| 17070 | 247 | 650  | 650  | 2.4 | 17085 | 35  | 84  | 121  | 0.4 |
| 17071 | 68  | 110  | 139  | 1.2 | 17086 | 42  | 380 | 365  | 1.0 |
| 17072 | 39  | 41   | 90   | 0.4 | 17087 | 29  | 50  | 114  | 0.5 |
| 17073 | 65  | 40   | 86   | 0.2 |       |     |     |      |     |

TABLE 1b

1980 STREAM SEDIMENT RESULTS IN  
VICINITY OF LAKE CLAIMS

| SAMPLE NUMBERS | Cu<br>ppm | Pb<br>ppm | Ag<br>ppm | Zn<br>ppm | Sn<br>ppm | W<br>ppm |
|----------------|-----------|-----------|-----------|-----------|-----------|----------|
| 4058           | 262       | 36        | 0.3       | 51        | 8         | 20       |
| 59             | 419       | 58        | 0.4       | 98        | L5        | 3        |
| 60             | 356       | 34        | 0.3       | 86        | L5        | 3        |
| 61             | 85        | 137       | 0.6       | 171       | 5         | 30       |
| 62             | 167       | 80        | 0.5       | 172       | L5        | 6        |
| 63             | 86        | 933       | 4.8       | 1410      | L5        | 5        |
| 64             | 179       | 1390      | 5.0       | 678       | 17        | 3        |
| 65             | 213       | 1309      | 6.6       | 1396      | L5        | 18       |
| 66             | 67        | 52        | 0.3       | 161       | L5        | 3        |
| 67             | 53        | 102       | 0.3       | 127       | L5        | 3        |
| 68             | 67        | 103       | 0.7       | 169       | L5        | 4        |
| 69             | 143       | 268       | 1.5       | 248       | L5        | 3        |



### Geochemical Lab Report

FROM: Anaconda Exploration Ltd. REPORT NUMBER: 40-419

PROJECT: 51961 H80-1 DATE: October 3, 1980

| SAMPLE NUMBERS | Ag<br>ppm | Cu<br>ppm | Pb<br>ppm | Zn<br>ppm | Sn<br>ppm | W<br>ppm |  |  |  |
|----------------|-----------|-----------|-----------|-----------|-----------|----------|--|--|--|
| 1202           | G100      | 981       | 4020      | 7010      | 153       | 1        |  |  |  |
| 1202           | G100      | 1333      | 3220      | 3440      | 47        | 10       |  |  |  |
| 1203           | 60.0      | 1152      | 1923      | 91        | 40        | 5        |  |  |  |
| 1204           | G100      | 538       | 2530      | G20,000   | 76        | 1        |  |  |  |
| 1205           | G100      | 321       | 5760      | G20,000   | 92        | 3        |  |  |  |
| 1206           | 58.0      | 891       | 5210      | 1970      | 28        | 14       |  |  |  |
| 1207           | G100      | 990       | 1134      | 261       | 33        | 1        |  |  |  |
| 1208           | G100      | 1029      | 895       | 852       | 60        | 3        |  |  |  |
| 1209           | G100      | 291       | 3990      | G20,000   | 170       | 3        |  |  |  |
| 1210           | 9.2       | 86        | 8110      | 2930      | 14        | 1        |  |  |  |
| 1211           | G100      | 3180      | 4730      | G20,000   | 1400      | 5        |  |  |  |
| 1212           | 41.0      | 1959      | 1261      | 620       | 70        | 3        |  |  |  |
| 1213           | 32.0      | 1476      | 993       | 885       | 47        | 5        |  |  |  |

TABLE 2

ROCK GEOCHEMISTRY RESULTS FOR  
GRAB SAMPLES OF VEIN MINERALISATION  
LAKE CLAIMS

G denotes greater than



# BONDAR-CLEGG & COMPANY LTD.

136B INDUSTRIAL RD, WHITEHORSE, YUKON Y1A 4X1

PHONE: (403) 667-6523

TELEX: 036-8-460

TABLE 3

## Certificate of Analysis

ASSAY RESULTS FOR GRAB SAMPLES OF

VEIN MINERALISATION LAKE CLAIMS

TO Anaconda Exploration

REPORT NO. A41-5

DATE Mar. 4, 1981

I hereby certify that the following are the results of analyses made by us upon the herein described rock pulps samples

| MARKED | oz/ton | Oz/ton | %     | %    | %    |  |  |  |  | COMMENTS     |
|--------|--------|--------|-------|------|------|--|--|--|--|--------------|
|        | Au     | Ag     | Cu    | Pb   | Zn   |  |  |  |  |              |
| 767    | 0.002  | 77.2   | 0.028 | 44.2 | 4.48 |  |  |  |  |              |
| 769    | 0.010  | 87.9   | 0.018 | 72.4 | 2.92 |  |  |  |  |              |
| 771    | 0.002  | 25.8   | 0.052 | 14.3 | 22.0 |  |  |  |  |              |
| 898    | 0.002  | 2.00   | 0.34  | 10.2 | 1.64 |  |  |  |  |              |
| 1201   | 0.005  | 49.6   | 0.08  | 24.0 | 0.60 |  |  |  |  | 1620 m. vein |
| 1202   | 0.004  | 4.21   | 0.06  | 2.30 | 0.30 |  |  |  |  | 1620 m. vein |
| 1204   | 0.002  | 43.7   | 0.05  | 25.0 | 14.2 |  |  |  |  |              |
| 1209   | 0.003  | 49.5   | 0.02  | 28.7 | 20.0 |  |  |  |  |              |
| 1211   | 0.002  | 9.59   | 0.32  | 16.1 | 5.40 |  |  |  |  |              |
| 1212   | LO.002 | 0.63   | 0.20  | 0.96 | 0.12 |  |  |  |  |              |
| 1213   | LO.002 | 0.89   | 0.20  | 0.66 | 0.10 |  |  |  |  |              |

BONDAR-CLEGG & COMPANY LTD.

NOTE:

Rejects retained two weeks

Butter ...



# BONDAR-CLEGG & COMPANY LTD.

136B INDUSTRIAL RD, WHITEHORSE, YUKON Y1A 4X1

PHONE: (403) 667-6523

TELEX: 036-8-460

TABLE 4

## Certificate of Analysis

ASSAY RESULTS FOR VEIN

MINERALISATION

TO Anaconda Canada Exploration Ltd.

Suite 200 - 1500 W. Georgia St.

Vancouver, B.C. V6G 2Z6

REPORT NO. A41-221

DATE September 16, 1981

Project 51961-ML

I hereby certify that the following are the results of analyses made by us upon the herein described rock samples

| MARKED       | oz/ton | %    | %    | %     | SAMPLE WIDTH | VEIN |
|--------------|--------|------|------|-------|--------------|------|
|              | Ag     | Cu   | Pb   | Zn    |              |      |
| 1420 14985   | 12.6   | 0.18 | 5.65 | 0.88  | 0.6          | 1620 |
| 14986        | 16.4   | 0.12 | 9.70 | 0.16  | 0.6          | 1620 |
| 14987        | 0.92   | 0.14 | 0.26 | 0.02  | 0.1          | 1620 |
| 14988        | 0.13   | 0.23 | 0.18 | L0.01 | 1.0          | 1590 |
| 14989        | 1.01   | 0.27 | 1.61 | 0.04  | 1.5          | 1590 |
| 1590 - 14990 | 0.93   | 0.13 | 7.80 | 0.02  | 0.6          | 1590 |

L - denotes less than.

Au, Sb to follow.

Rejects retained two weeks

Pulps retained three months

BONDAR-CLEGG & COMPANY LTD.



# BONDAR-CLEGG & COMPANY LTD.

136B INDUSTRIAL RD, WHITEHORSE, YUKON Y1A 4X1

PHONE: (403) 667-6523

TELEX: 036-8-460

## Certificate of Analysis

TABLE 4 (continued)

TO Anaconda Canada Exploration

REPORT NO. A41-221

DATE Sept. 29, 1981

Project: 51961-ML

I hereby certify that the following are the results of analyses made by us upon the herein described rock samples

| MARKED     | oz/ton | %     |  |  |  |  |  | SAMPLE  | VEIN m |
|------------|--------|-------|--|--|--|--|--|---------|--------|
|            | Au     | Sb    |  |  |  |  |  | WIDTH m |        |
| -22- 14985 | 0.005  | 0.14  |  |  |  |  |  | 0.6     | 1620   |
| 14986      | 0.010  | 0.060 |  |  |  |  |  | 0.6     | 1620   |
| 14987      | 0.005  | 0.076 |  |  |  |  |  | 0.1     | 1620   |
| 14988      | 0.002  | 0.11  |  |  |  |  |  | 1.0     | 1590   |
| 14989      | 0.002  | 1.02  |  |  |  |  |  | 1.5     | 1590   |
| 14990      | 0.020  | 0.50  |  |  |  |  |  | 0.6     | 1590   |

BONDAR-CLEGG & COMPANY LTD.

NOTE: L denotes less than.

Rejects retained two weeks

Pulps retained three months

unless otherwise arranged

*Steven Simpson*

## STATEMENT OF QUALIFICATIONS

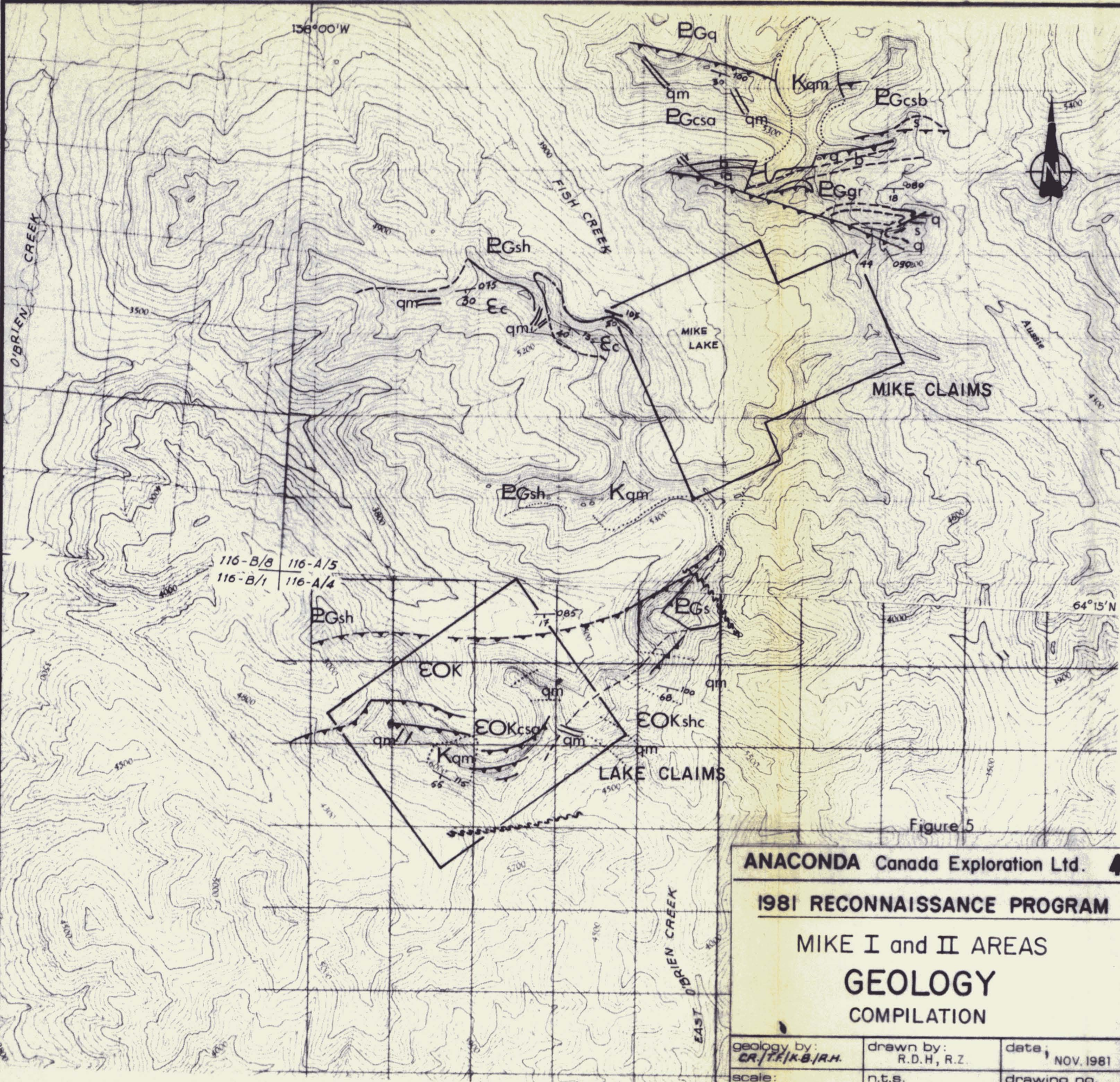
I, Richard D. Hall, of Apt. 104, 1050 Jervis Street, Vancouver, B.C., do hereby declare:

1. That I received the degree of Ph.D in Geology from The University of Western Ontario in 1980.
2. That I have practised geology in the field of mining exploration for eleven years.
3. That I supervised work on the LAKE claims in 1981.



Richard D. Hall P. Eng.

Staff Geologist  
Anaconda Canada Exploration Ltd.



LEGEND

CRETACEOUS

**Kqm** Small stocks and dike swarms of dark grey weathering, massive, medium grained, porphyritic (K - feldspar) biotite-(hornblende) quartz monzonite to syenite. Included minor biotite-pyroxene lamprophyre dikes. Dikes commonly rusty and recessive weathering.

CAMBRIAN AND ORDOVICIAN

KECHIKA GROUP

**EOKehc** Strongly foliated, light grey weathering, platy to thinly bedded argillaceous limestone and calcareous shale.

**EOKcs** Buff weathering, resistant, mottled to thinly bedded calcsilicate hornfels: includes minor interbedded rusty weathering brown siltstone, and light grey weathering argillaceous limestone.

**EOK** Interbedded, light grey weathering, argillaceous limestone, rusty weathering black argillite, and calcareous siltstone and quartzite.

PROTEROZOIC AND EOCAMBRIAN

**Ec** Medium grey weathering, platy to laminated limestone.

"GRIT UNIT"

**EGsh** Black and lesser grey shale and argillite.

**EGcs** a) Light grey weathering, laminated calcsilicate hornfels.  
b) Rusty weathering medium grained calcsilicate: interbedded with rusty weathering, finely laminated grey siltstone and grey, fine grained quartzite.

**EGs** Rusty weathering, finely laminated siltstone: interbedded with minor chert, fine grained quartzite and calcsilicate hornfels.

**EGq** Resistant, light grey weathering, thick bedded quartzite: interbedded with laminated siltstone, calcsilicate hornfels and granule grit.

**EGqr** Resistant, light grey weathering, thick bedded gritty quartzite and granule grit.

**ANACONDA** Canada Exploration Ltd.

**1981 RECONNAISSANCE PROGRAM**

**MIKE I and II AREAS**

**GEOLOGY**

**COMPILATION**

|  |                           |                       |
|--|---------------------------|-----------------------|
| geology by:<br><b>CR./T.F./K.B./R.H.</b> | drawn by:<br>R.D.H., R.Z. | date:<br>NOV. 1981    |
| scale:<br>1:50,000                       | n.t.s.                    | drawing no.<br>— of — |



**LEGEND**

- Silt sample location 1980
- △ Rock sample location 1980
- ▲ Mineralized talus sample location 1980
- ▲ Vein sample location 1980
- Soil sample location 1979
- Soil traverse 1979 (interval indicated)

Figure 6

|   |                          |                       |
|---|--------------------------|-----------------------|
| <b>ANACONDA</b> Canada Exploration Ltd. ▲ |                          |                       |
| <b>1981 RECONNAISSANCE PROGRAM</b>        |                          |                       |
| <b>MIKE I and II AREAS</b>                |                          |                       |
| <b>GEOCHEMISTRY</b>                       |                          |                       |
| <b>COMPILATION</b>                        |                          |                       |
| geology by:                               | drawn by:<br>R.D.H, R.Z. | date:<br>NOV. 1981    |
| scale:<br>1:50,000                        | n.t.s.                   | drawing no.<br>1 of 1 |