

GEOCHEMICAL AND LINE CUTTING REPORT

on the

CIRQUE GROUP

Paul River Area
Omineca Mining Division

N. T. S. 94-F-6, & 11

Latitude: 57° 30' N

Longitude: 125° 09' W

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

NO. 6806

by

W. ROBERTS

CYPRUS ANVIL MINING CORPORATION

July 18, 1978.

Field Work Done During the Period: June 20 - July 19, 1978.

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LIST OF CLAIMS

<u>Claim No.</u>	<u>Record Number</u>	<u>No. of Units</u>	<u>Recording Date</u>
1	685	20	July 20, 1977
2	679	20	July 25, 1977
3	680	20	July 25, 1977
4	686	18	July 20, 1977
5	681	12	July 25, 1877
6	682	18	July 25, 1977
7	683	12	July 25, 1977
8	684	20	July 25, 1977
11	791	4	Sept. 19, 1977

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GEOCHEMICAL AND LINE CUTTING REPORT

on the CIRQUE GROUP

INTRODUCTION

The CIRQUE Group, totalling 144 units, was staked to cover several gossans and two float occurrences of barite-pyrite-lead-zinc mineralization near the headwaters of the Paul River. Cyprus Anvil Mining Corporation performed preliminary soil and silt sampling, prospecting, and geological mapping during the period June 20 to August 1, 1977.

In March 1978, an orthophoto base map at a scale of 1:5000 was prepared for control of detailed work on the claim group. In July a total of 4.5 km of base line and 48 km of cross lines were cut for survey control. Seventy soil samples were taken along 4 east-west trending lines on Claim CIRQUE 11.

LOCATION AND ACCESS

The CIRQUE Group is located near the headwaters of the Paul River in northeastern British Columbia. The claims cover a northwest trending ridge between the Paul River on the southeast and Cirque Creek on the northwest. The legal corner post for CIRQUE Claims 1, 2, 4 and 5, located on a ridge roughly at latitude 57° 30' N and longitude 125° 09' W, is 30 km east of Ware, 27 km south of Chesterfield Lake and 27 km northeast of Grave Mountain.

.... 2

CYPRUS ANVIL



LOCATION MAP

CIRQUE GROUP

N.T.S. 94-F-11, 94-F-6

Scale 1:250,000



Field work on the CIRQUE Group was conducted with a helicopter borne program base at Pretzel Lake, 18km to the southeast. Logistical support for the program was provided by float equipped fixed wing aircraft based at Watson Lake 320 km to the northwest or Mackenzie, 264 km to the southwest.

REGIONAL GEOLOGY

A narrow sinuous northwest trending belt of Upper Devonian to Mississippian "black clastics" has been outlined during a recent mapping program by the Geological Survey of Canada. This unit unconformably overlies Ordovician to Devonian interbedded shale and carbonate and is overlain by a thrust sheet of Ordovician to Silurian limestone, dolomite and orange weathering siltstone.

This belt of black clastics stretches from Braid Creek, on map sheet 94 L-1, through Gataga Lakes to the Kwadacha River, a distance of roughly 50 km. Three distinct units comprising the Upper Devonian section and various facies changes occurring within individual units are apparent throughout the length of this belt.

A narrow sinuous isolated exposure of Upper Devonian "black clastics" south of the Kwadacha River, that also unconformably overlies Road River black shale and chert, is host for barite-pyrite-lead-zinc mineralization on the CIRQUE Group.

The Gunsteel Formation, the central unit of the black clastic succession, host to several barite deposits and the potentially economic barite hosted massive sulphide deposit at Driftpile Creek is also the economically interesting potential host for the CIRQUE Group mineralization.

ORTHOPHOTO BASE MAP

The base map covering the area of interest on the CIRQUE Group was undertaken by McElhanney Surveying and Engineering Ltd. of Vancouver, B. C. Roughly 12,000 acres or 194 hectares was outlined as the area of interest. Existing

Federal Government aerial photography flown at an average scale of 1:30,000 in 1948 was aerotriangulated in a Wild A8 autograph and adjusted to the best available ground control. This ground control was derived from the existing 1:250,000 scale map of N.T.S. sheet 94-F.

The contour compilation was done directly at a mapping scale of 1:5000 with a 20 meter contour interval. In addition to the contours several spot elevations were plotted. The contour compilation was drafted by the scribing technique and one clear contour overlay was reproduced. An orthophoto negative was produced from the existing photography and photo-mechanically enlarged to a scale of 1:5000 using ground control from the aerotriangulation. The orthophoto mosaic was prepared using all the control points.

LINE CUTTING

A total of 4.5 km of axe and chain-saw base line and 48 km of axe and machete cross lines were established on the CIRQUE Group during July. The base line trends at 303 degrees and has stations every 50 meters. Cross lines are spaced at 150 and 75 meters along the base line and also have 50 meter stations. All stations have been chained from the base line and have been corrected for slope.

The hand cut grid will provide survey control for proposed soil sampling, electromagnetic surveys and geologic mapping in August.

GEOCHEMICAL SURVEYS

During early July, 1978, approximately 70 soil samples were taken along 4 roughly east-west trending lines within the boundary of claim, CIRQUE 11. All samples were taken with soil sample mattock from the "B" horizon at 60 meter intervals.

All samples were packaged in Kraft sample bags and sent to the Acme Analytical Laboratory in Burnaby, B. C. The samples were then dried, sieved to -80 mesh,

weighed to half a gram, digested in perchloric acid and analysed by atomic absorption for copper, lead and zinc. Several samples slightly anomalous in lead were analysed for silver by the same technique.

All sample results from the geochemical program are plotted on the accompanying 1:5000 "Geochemical Values Map" in parts per million.

Both copper and zinc values were very low and well below background. Sample numbers I-373, 374, 399 and 411 are slightly anomalous in lead and appear to outline a northwest trending lead-rich horizon.

Further detailed sampling and electromagnetic surveys are proposed to delineate a possible mineralized sulphide horizon underlying CIRQUE 11.

CONCLUSIONS AND RECOMMENDATIONS

A hand cut grid, totalling 52.5 km, was established by July 17, 1978. An orthophoto mosaic and contour map provides us with excellent base maps for future soil sampling, electromagnetic surveys and geological mapping programs. Preliminary soil sampling on CIRQUE 11 appears to outline a northwest trending lead-rich horizon in black shales.

It is recommended that further closely spaced soil sampling and ground electromagnetic surveys be undertaken over the slightly anomalous lead response on CIRQUE 11.

Respectfully submitted,



WAYNE J. ROBERTS

Geologist,

CYPRUS ANVIL MINING CORPORATION.


July 18, 1978.

STATEMENT OF QUALIFICATIONS

I, WAYNE J. ROBERTS, geologist, with business address in Vancouver, British Columbia, and residential address in Coquitlam, British Columbia, hereby certify that:

- 1) I graduated from the University of British Columbia in 1968 with a BSc majoring in Geology;
- 2) From 1968 to the present I have been actively engaged as a geologist in mineral exploration in British Columbia and the Yukon Territory;
- 3) I am a fellow of the Geological Association of Canada;
- 4) I personally participated in the field work on the CIRQUE GROUP and have interpreted all data resulting from this work.




WAYNE J. ROBERTS

APPENDIX II

SUMMARY OF COSTSCYPRUS ANVIL MINING CORPORATION

CIRQUE GROUP Expenditure Summary
May 1, 1978 - July 19, 1978.

SALARIES AND WAGES

W. Roberts	July 2, 4, 8, 18	4 days @ \$100/day	\$ 400.00
D. McIssac	June 30, July 2	2 days @ \$ 40/day	80.00
G. Melange	June 30	1 day @ \$ 30/day	30.00
			<hr/>
			\$ 510.00

ASSAYS AND GEOCHEMICAL ANALYSIS

70 soil samples @ \$2.45/sample	171.50
28 re-runs @ \$0.35/sample	9.80
	<hr/>
	181.30

ORTHOPHOTO

contract price from McElhannay Engineering	5,150.00
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LINE CUTTING - contract price from Eastern Associates

4.5 km of baseline @ \$200.00/km	900.00
48 km of cross lines and tie lines @ \$150/km	7,200.00
	<hr/>
	8,100.00

CARRIED FORWARD	<hr/>	\$ 13,941.30
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SUMMARY OF COSTS - Continued

BALANCE BROUGHT FORWARD

\$ 13,941.30

TRANSPORTATION

Rotary Wing - Okanagan Helicopters
13.9 hours @ \$260/hour

3,614.00

Fixed Wing - B. C. Yukon

Otter Watson Lake - Pretzel Lake 476 mi x \$1.80/mi

\$ 856.80

Cessna 185 Watson Lake - Pretzel Lake 476 mi x \$1.10/mi

523.60

- Northern Thunderbird Airlines

Otter Fuel haul, 878 miles @ \$1.75/mi

1,537.00

2 return trips Mackenzie to Pretzel Lake

660 miles @ \$1.75

1,155.00

Beaver 1 trip Mackenzie - Pretzel Lake

462.00

4,534.40


TOTAL DIRECT EXPENDITURES

\$ 22,089.70

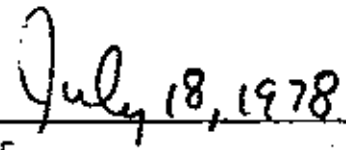
AFFIDAVIT SUPPORTING SUMMARY OF COSTS

I, WAYNE J. ROBERTS, Geologist, Cyprus Anvil Mining Corporation, of Vancouver, British Columbia, do hereby state that, to the best of my knowledge and belief the Statement of Costs in this report (GEOCHEMICAL AND LINE CUTTING REPORT on the CIRQUE GROUP) is a true account of expenditures incurred from exploration on the CIRQUE property.





WAYNE J. ROBERTS



DATE

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NO.

FIGURE 1
CYPRUS ANVIL MINING CORPORATION
CIRQUE GROUPS, OMECECA M.D.
94-F-6,11
GEOCHEMICAL VALUES MAP

100 0 100 200 300
SCALE IN METERS

WR, rwr

JULY 17, 1978



Sample No. 7407 • 45, 36, 270, 0.3
Cu, Pb, Zn, Ag values in ppm

SHEET ONE
SHEET 2

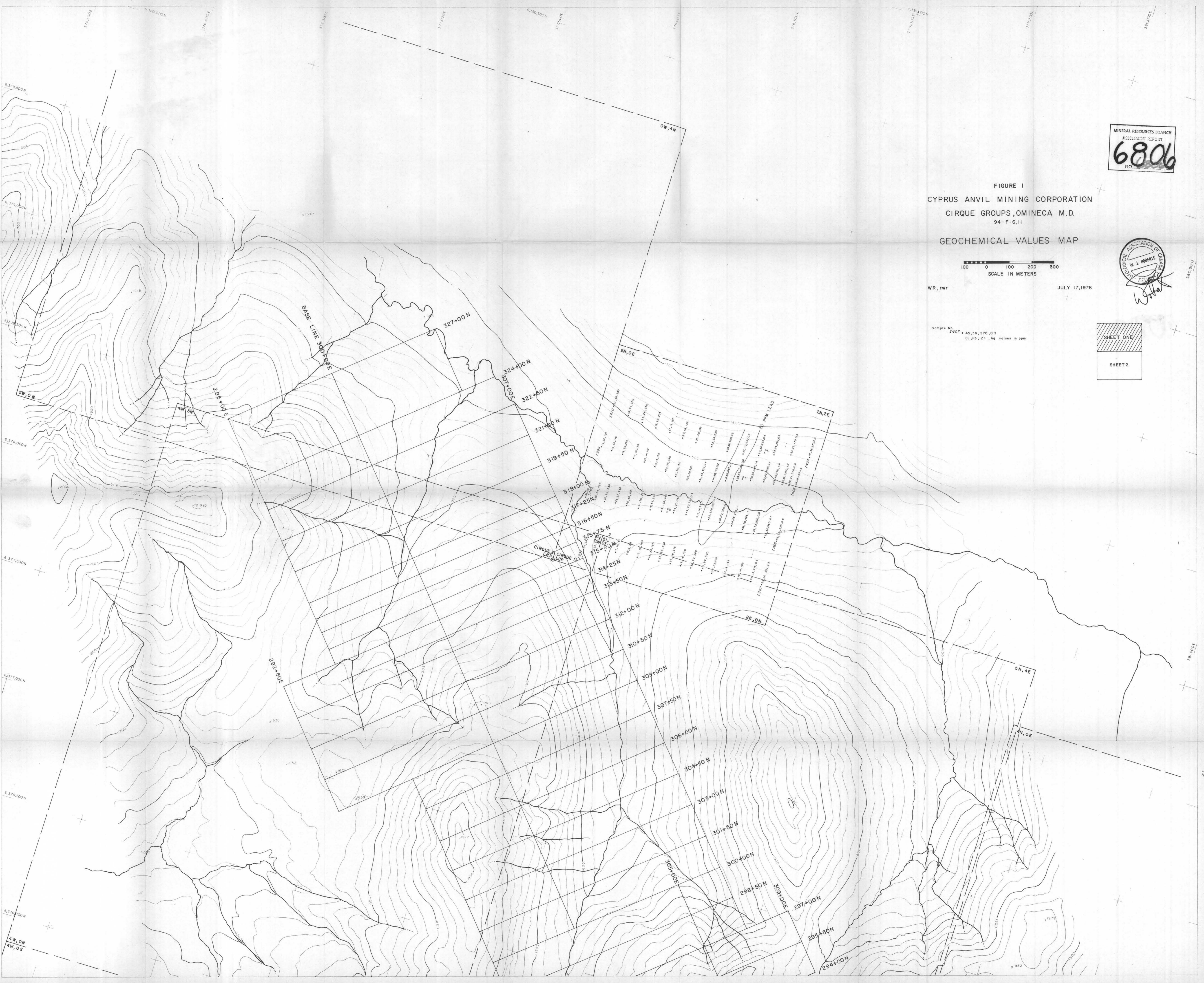




FIGURE 2
 CYPRUS ANVIL MINING CORPORATION
 CIRQUE GROUPS, OMINECA M.D.
 94-F-6,11

GRID & CLAIM MAP

MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
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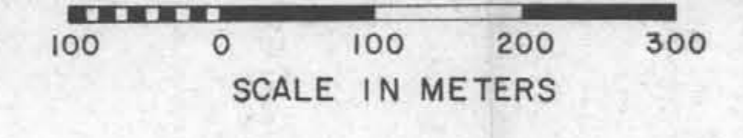


SCALE IN METERS
 0 100 200 300

JULY 17, 1978

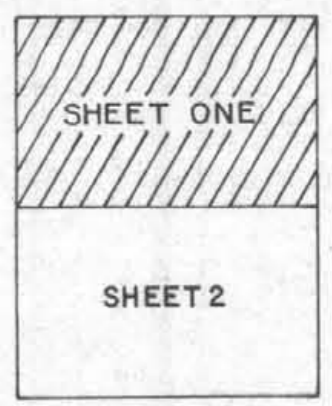
WR,rwr

FIGURE 2
CYPRUS ANVIL MINING CORPORATION
CIRQUE GROUPS, OMINECA M.D.
94-F-6,11
GRID & CLAIM MAP

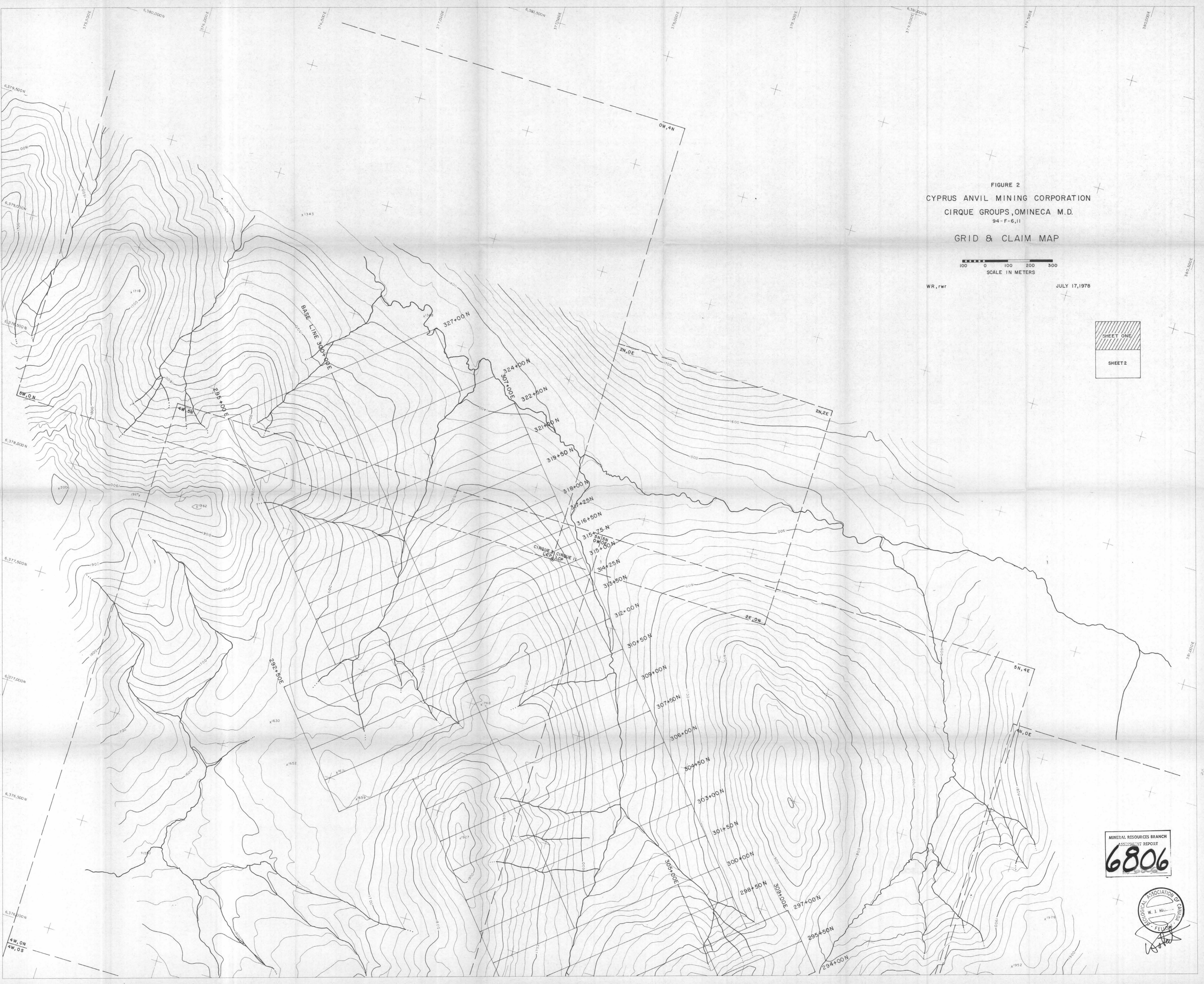


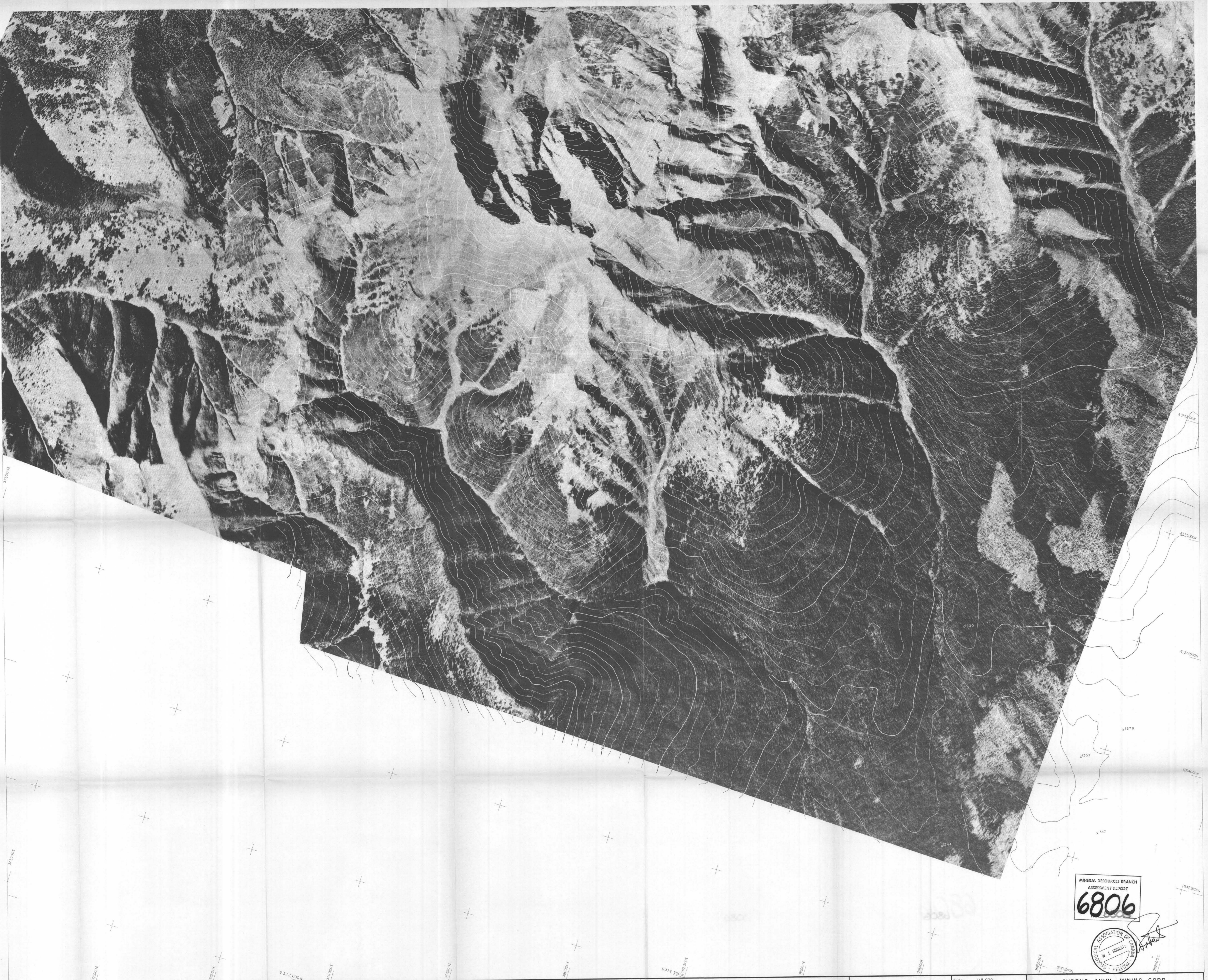
WR, rwr

JULY 17, 1978



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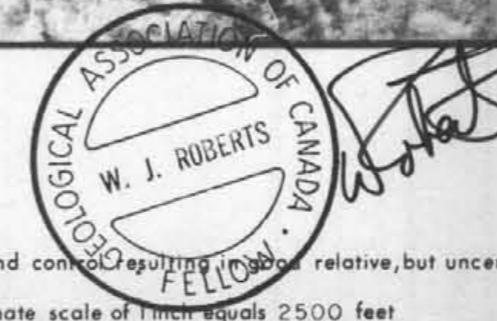
ASSOCIATION OF
W. J. HODGINS
FELLOW

Scale - 1:5,000
Contour Interval - 20 METRES
Date - APRIL 1978
Job No. - 06435-0
Sheet No. - 2

CYPRUS ANVIL MINING CORP.
CIRQUE GROUP
FIGURE 3

McElhanney
McElhanney Surveying & Engineering Ltd.
1200 West Pender Street, Vancouver, B.C., Canada

Scale and elevation datum based on limited ground control resulting in good relative, but uncertain absolute map accuracy. Compiled from aerial photography on an approximate scale of 1 inch equals 2500 feet.



Scale and elevation datum based on limited ground control points, relative but uncertain absolute map accuracy.
 Compiled from aerial photography at an approximate scale of three eighths 2500 feet.



Scale -	1:5,000
Contour Interval -	20 METRES
Date -	APRIL, 1978
Job No. -	06435-0
Sheet No. -	

MINERAL RESOURCES BRANCH ASSESSMENT	ANVIL MINING CORP.
6806	CIRQUE GROUP
NO. 6806	FIGURE 3