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Cyprus Anvil Mining Corporation
1977/12/01 1977/12/31

NORTH ANVIL RANGE JOINT VENTURE

PROGRESS REPORT 1977

for

CYPRUS ANVIL MINING COPORATION

and

METALLGESELLSCHAFT CANADA LIMITED

by

J. P. Franzen December 21, 1977

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NORTH ANVIL RANGE JOINT VENTURE

PROGRESS REPORT 1977

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CYPRUS ANVIL MINING CORPORATION

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TABLE OF CONTENTS

	Page
SUMMARY	1
PREVIOUS WORK	2
WORK PROGRAM 1977	2
RESULTS OF 1977 PROGRAM	3
(1) Geology - Lithology	3
(2) Geology - Structure	8
SUMMARY AND CONCLUSIONS	9

APPENDICES

Appendix i - Claim Status Summary

Appendix ii - Cost Summary 1977

MAPS - Scale 1" = 2000' - In pockets

E5
Claims
Geology
Ground Magnetic Compilation
Turam Electromagnetic Compilation
Geochemical Survey - Cu
Geochemical Survey - Pb
Geochemical Survey - Zn
Cross-section E-E'

F5
Claims
Geology
Ground Magnetic Compilation
Turam Electromagnetic Compilation
Soil Geochemistry
Cross-section C-C'

G5
Claims
Geology
Ground Magnetic Compilation
Turam Electromagnetic Compilation
Geochemical Survey - Cu
Geochemical Survey - Pb
Geochemical Survey - Zn

MAPS (Continued)

- Scale 1" = 2,000'

FAT-FIN Grid	-	Contoured Topography
FAT-FIN Grid	-	Contoured Bouguer Gravity
MYE-SARK Grid	-	Contoured Topography
MYE-SARK Grid	-	Contoured Bouguer Gravity

- Scale 1" = 1,000'

FAT-FIN Grid	-	Surveyed Locations (Feet)
FAT-FIN Grid	-	Contoured Topography
FAT-FIN Grid	-	Bouguer Gravity Values
FAT-FIN Grid	-	Contoured Bouguer Gravity
MYE-SARK Grid	-	Surveyed Locations (Feet)
MYE-SARK Grid	-	Contoured Topography
MYE-SARK Grid	-	Bouguer Gravity Values
MYE-SARK Grid	-	Contoured Bouguer Gravity

FIGURES

Figure 1	-	Schematic Cross-Section Anvil Range - Structural Elements

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NORTH ANVIL RANGE JOINT VENTURE

Progress Report 1977

SUMMARY

During 1977 compilation of magnetic and electromagnetic Turam data was completed. Residual gravity maps will be available early in 1978. Geology of the joint venture area was integrated into the structural-stratigraphic framework as it is currently understood on the south flank of Anvil Range. Graphitic horizons are restricted to Units 3 and 5 in the joint venture area. Portions of these horizons have been drill-tested by previous operators but without success. In the absence of coincident gravity and/or geochemical anomalies, further drilling of these graphitic units would be limited to "stratigraphic" tests. An additional 35 claims were staked. Twenty-five of these claims partially cover a stratigraphic horizon known to be mineralized on Vangorda Plateau and Swim Basin. A geochemical anomaly associated with this horizon is the most promising exploration target to date. A proposed 1978 work program will be presented early in 1978. Field expenditures to 30 November, 1977 totalled $115,888.

CYPRUS ANVIL

PREVIOUS WORK

During 1976, Cyprus Anvil carried out ground magnetic, Turam electromagnetic and gravity surveys over the joint venture area. These surveys cover all or portions of the MYE-SARK, FAT, FIN and LISA grids. In the temporary absence of orthophoto survey control, Turam and magnetic data were plotted on rectilinear grids; gravity data were plotted in profile form.

WORK PROGRAM 1977

Turam and magnetic data were re-plotted on orthophoto-adjusted grids. Computer-assisted gravity terrain corrections and contouring are near completion. Ten additional FIN claims were staked over a probable Turam anomaly extension. Preliminary terrain corrected gravity data indicates that previous residual gravity anomalies can be down-graded or discounted.

Geology of the joint venture area was capably mapped by Lewis in 1973. Since that time, a better understanding of the structural-stratigraphic framework of Anvil Belt rocks and their contained sulphide deposits has emerged. In particular, these geological relationships are best understood in the vicinity of the known deposits in the Faro, Vangorda and Swim areas. For obvious reasons, it was felt that the joint venture area should be re-examined and integrated into this updated geological picture. To this end, the writer and P. Levine, Metallgesellschaft-Frankfurt, spent 3 weeks in North Anvil Range. The area was not remapped in detail but rather selected traverses were made and numerous boreholes relogged. Twenty-five ROG claims were staked over a stratigraphic contact known to be mineralized on Vangorda Plateau and Swim Basin.

An updated claim summary is included as Appendix (i) to this report.

A 1977 Cost Summary is included as Appendix (ii) to this report.

RESULTS OF 1977 PROGRAM

(1) Geology - Lithology

The current geological interpretation of the joint venture area can be found on 1"= 2,000' map sheets E-5, F-5 and G-5. Bedrock exposure is highly variable, with no outcrop in the broad overburden-filled valley floors and poor to excellent exposure on the often treeless hillsides and ridges. A continuous graphitic horizon, rarely exposed, but with a marked Turam response, provides a datum plane within the structural succession throughout the joint venture area.

Anvil District base metals are associated with several lithostratigraphic units. Rather than discuss the entire section in detail, the writer will focus on those units important to future activities in the joint venture area.

Faro Group quartzo-feldspathic, biotite-muscovite ± staurolite ± garnet schist (Unit 1C) is the oldest unit in the area. The base of Unit 1C is not exposed. Draped against the batholith, a 1C section is well exposed on maps F-5 and G-5. Local diamond drill coverage (DDH K70-2, K70-3 and K73-13) on maps E-5 and F-5 indicates subcropping Unit 1C in the valley floor. Despite rather complete geological and geophysical coverage, occurrences of carbonaceous biotite-muscovite-andalusite schist (Unit 1D), host to the Faro Deposit, are not known in the 1C section. In the vicinity of the Faro Deposit, Unit 1D schists occur at the Unit 1C-Mt. Mye Group (Unit 3) contact. This is the type stratigraphic position of the so-called "Faro Horizon". Here Unit 1D has a thickness of several hundred feet and a strike length of 7 miles (both with reference to the S_1 plane). Given the excellent exposure of Unit 1C, and in particular the Unit 1/3 contact, it seems unlikely that a carbonaceous "reduced" basin of similar dimensions

exists in the joint venture area. In addition, contact relationships between Units 1C/3 differ in the vicinity of the Faro Deposit and in the joint venture area. At Faro, Unit 1D is in gradational (≈100') contact with the overlying calc-silicate lithology (Unit 3D); north of Anvil Batholith, Units 1C and 3D exhibit large-scale interbanding over a thickness of approximately 500'. The significance of this difference is not understood.

A weak Turam response on the FIN claims may be indicative of Unit 1D. However, good exposure, an atypical postion in the 1C section, coincidence of the conductor axis and ridgeline and absence of a coincident gravity anomaly make this a poor exploration bet.

The Unit 1C/3D-G contact also exhibits features that have more regional implications, in particular, the validity of lithostratigraphic Units 1C and 3G as separate units. Briefly, it has been argued that Unit 1C is the high grade metamorphic equivalent of Unit 3G. Accordingly, 1C and 3G could be treated as one unit. Unit 1/3 contact relationships in the joint venture area support both sides of this argument. Although exposure is poor, the apparent interfingering of Unit 1C and 3G on map sheet E-5 suggests lateral facies equivalence. On the other hand, excellent exposure of this contact in Ace Creek Canyon indicates that Units 1C and 3G are separate units. Here, 1C and 3G are in gradational contact over a true thickness of approximately 500'. Coarse-grained staurolitic and garnetiferous 1C schist is interlaminated and interbanded with typical blue-grey Unit 3G schists/phyllites throughout this transitional zone (Unit 3A). Whole rock chemical data may help resolve this continuing and important problem.

Mt. Mye Group non-calcareous muscovite-chlorite ± biotite phyllite (Unit 3G) apparently conformably overlies Unit 1C. Calc-silicate

(Unit 3D) horizons are prominent at this contact. Apparent thickness variations in Unit 3G on map F-5 are largely structurally induced. Broad outcrop patterns reflect "normal" near dip-slope compositional layering attitudes; narrow inferred subcrop patterns reflect fault-steepened attitudes. At Ace Creek Canyon, Unit 3G hosts the only pre-deformation mineralization known in Anvil Belt rocks on the North Side. Here, lenses, up to 2' thick and 10' long, of massive pyrrhotite with minor chalcopyrite and traces of sphalerite are conformable to the foliation in siliceous phyllites. The character of this mineralization is similar to that found on the borders of massive sulphide occurrences in Swim Basin. However, these deposits occur much higher in the section than the Ace Creek mineralization. Detailed geochemical and geophysical surveys have failed to extend the limits of this mineralization. In the absence of more favourable targets, a diamond drill test of these sulphides is warranted.

In probable conformity within Unit 3G is the graphitic phyllite/schist horizon (Unit 3E). This unit has been the subject of considerable exploration effort to date. At one time or another, Anvil, Jay, Welcome North, and the current joint venture, have worked on claims along 17 miles of this graphitic horizon. Since Unit 3E is rarely exposed, an assessment of its exploration potential is largely based on this previous work.

Airborne and ground E.M. signatures indicate that Unit 3E is continuous throughout the joint venture area. Outside the area, 1965 Lockwood 1"= 1320' Airborne E.M. indicated that Unit 3E continues for 3-4 miles to the west along the east fork of Anvil Creek; east of the area, Unit 3E disappears under Earn Group cover immediately northeast of the LISA claims. The present day FIN and LISA claims have seen the most intensive exploration effort on Unit 3E. Recent geophysical surveys, coupled with borehole re-logging and limited remapping, have modified the geological interpretation in this area (Maps F-5, G-5). Boreholes ACE 66-1

and JAY-3 cut Unit 3E with approximate true thicknesses of 100' and 20' respectively. S_2 compositional layering attitudes indicate Unit 3E dips steeply north. Progressive steepening of footwall phyllites as Unit 3E is approached suggests that the graphitic horizon may have acted as a major detachment zone. Local deflection of structural trends in hangingwall phyllites and volcanics add support to this proposal. "Normal" Unit 3E and wallrock attitudes on the TAF claims (Map E-5) indicate that movement along this detachment zone progressively died out from east to west. Cross sections C-C' and E-E' illustrate this concept.

A narrow, more restricted, Unit 3E horizon occurs on the FAT claims (Map F-5) near the Unit 1/3 contact. This horizon is poorly exposed but has a good Turam signature. There are no other associated geophysical and geochemical anomalies.

Calcareous muscovite-chlorite ± biotite phyllite (Unit 5B) overlies Unit 3 in probable conformity. Several features of Unit 5B differ from those found on the south flank of Anvil Range. The carbonate content of Unit 5B is erratic and often low in the joint venture area. Unit 5B exposures in the vicinity of the Faro Deposit and onto the Vangorda Plateau are everywhere calcareous. Recent drilling at the DY deposit and in Swim Basin indicates a progressive decrease in carbonate content from Vangorda Plateau to Swim Basin. This is best manifested in Swim Basin where thick ≈300' intersections of non-calcareous Unit 5B occur near the base of the 5B section (immediately above sulphides). This trend would seem to continue into the joint venture area. The significance of this apparent lateral carbonate zonation is not known. Completion of an Anvil District palinspastic reconstruction may provide the answer.

Recent Turam surveys and re-logging of boreholes on the FIN claims (Map F-5) indicate a locally carbonaceous to graphitic Unit 5B section. DDH JAY-3 intersected a 50' section (true thickness) of base metal deficient graphitic phyllite (Unit 5A) at the 3G/5B contact. This contact and lithostratigraphic horizon hosts the GRUM, VANGORDA, DY and SWIM sulphide deposits on Vangorda Plateau and Swim Basin. The up-dip projection of Unit 5A lacks a strong Turam response. In contrast, a 20' section (true thickness) of Unit 3E in the same borehole correlates with a strong surface E.M. signature. ROG claims 1-25 (Map F-5) were staked and partially cover the favourable 3G/5B contact in the valley floor. Overburden thicknesses in excess of 200' may make routine evaluation of these claims difficult.

A strong Turam signature on the AM claims (Map E-5) indicates that the 3G/5B contact is again graphitic. A coincident Pb-Zn geochemical anomaly makes this horizon an attractive exploration target.

On the FIN claims 1976 Turam survey indicates another graphitic horizon (Unit 5A) but is structurally higher in the 5B section. This horizon is continuous along strike for 10,000' and has not been diamond drill tested. There are no coincident gravity anomalies.

Rare outcrop, boreholes JAY-2 and ACE 66-2 and Airborne E.M. indicate that carbonaceous zones are prevalent in the 5B section that underlies the FIN claims (Map F-5). Near the base of the 5B section, outcrop at the collar of ACE 66-2 and the core itself attest to the carbonaceous and often non-calcareous nature of Unit 5B. Similarly, near the top of the 5B section, DDH JAY-2 intersected several graphitic zones. Although the core was not complete, a 50' section (true thickness) massive graphite horizon was cut followed by 400' of laminated graphitic phyllite. P. Levine noted styolitic (pressure solution) features throughout much of this latter interval.

Accordingly, he has suggested that much of the graphite in this interval reflects tectonic rather than sedimentary accumulations. FIN claims 55-65 were staked to cover this area. Turam, magnetometer and gravity surveys are yet to be done on these claims, however, grid lines have been cut.

(2) Geology - Structure

Anvil Belt rocks have undergone two intense deformations (D_1, D_2) producing a layered metamorphic pile that has subsequently been arched and wrinkled by later stresses (D_3, D_4, D_5). Planar and linear fabrics resulting from polyphase deformation are common to both flanks of Anvil Batholith. However, orientation of these structural elements does differ (Figure 1). To appreciate these orientation differences, the following simplified structural-metamorphic history of Anvil Range is envisaged:

(a) D_1 isoclinal folding of Anvil District stratigraphy resulting in an S_1 dominated metamorphic pile;

(b) Refolding of the S_1 surface during D_2. S_1 fabric remains regionally dominant. Syn-D_2 intrusion of Anvil Batholith doming the pre-existing S_1-S_2 surfaces;

(c) Local modification of S_2 by D_3, D_4, D_5.

Therefore, Anvil Batholith has superimposed a structural-metamorphic gradient on the post D_1 metamorphic pile. As a result, intensity of D_2 and metamorphic grade increase as the batholith is approached. In the joint venture area, the D_1 dominated, low grade metamorphic terrain is distant from the batholith. S_2 is only incipiently developed. As the batholith is approached, metamorphic grade increases and is accompanied by progressive transposition of S_1 into S_2. This transposition appears to be complete in the joint venture area, as no large-scale D_1 structures have been recognized near the batholith. These early structures, however, control outcrop patterns on the Vangorda Plateau.

SUMMARY AND CONCLUSIONS

In summary, graphitic horizons and zones are found in Units 3 and 5 in the joint venture area. To date, there are no gravity anomalies associated with these graphitic horizons. Final compilation of residual gravity data will be complete early in 1978. On a more positive note, the presence of the 3G/5B contact and coincident graphitic horizon (Unit 5A), as found at the GRUM, VANGORDA, DY and SWIM Deposits, is encouraging. This contact remains largely unstaked and unexplored in the joint venture area.

Given the available data, four potential diamond drill targets are currently under consideration. These targets are listed below in order of decreasing importance:

(1) AM claims - coincident Turam and Pb-Zn geochemical anomalies at the 3G/5B contact.

(2) LISA claims - Ace Canyon massive sulphide lenses.

(3) ROG Claims - stratigraphic test of 3G/5B contact.

(4) FIN Claims - weak Turam anomaly in Unit 1C.

Residual gravity maps and a proposed 1978 work program will be presented early in 1978.

Respectfully submitted,

J.P.Franzen.

J. P. Franzen

CLAIM SUMMARY

COMPANY ..... CLAIM ..... AREA ..... MINING DISTRICT ..... N.T.S. .....

Claim No.	Grant No.	No. of Claims	Staked by	Recording Date	Transfer Information To	Transfer Information Date	Due Date	Assessment Work and Remarks
JOINT VENTURE - METALLGESELLSCHAFT -			North Anvil					Assess. Work Filed
TAF -(Cyprus Anvil - 100%)								Date: Feb.27,1976
23-24	Y62473-Y62474	2			Cyprus Anvil	May 10, 1976	Mar. 1, 1979	Amount: $3,405.96
25-38	Y62483-Y62496	14			"	"	Mar. 1, 1979	Type: Clean-up of drill site
JET -(Cyprus Anvil 87½%; Mercury Explor. 5%; Giant Yellowknife 7½%)								Payment in lieu on all remaining claims.
20	Y3161	1			Cyprus Anvil	May 10, 1976	Sept.17,1978	* * * * * * * * *
22	Y3163	1			"	"	Sept.17,1978	
24	Y3165	1			"	"	Sept.17,1978	
50	Y3191	1			"	"	Sept.17,1978	Assess. Work Filed
52-63	Y3193-Y3204	12			"	"	Sept.17,1978	Date: Sept. 1976
64	Y3205	1			"	"	Sept.17,1978	Amount: $23,761.54
93	Y3234	1			"	"	Mar. 17,1979	Type: Linecutting
95	Y3236	1			"	"	Mar. 17,1979	* * * * * * * *
97-104	Y3238-Y3245	8			"	"	Mar. 17,1979	
MX -(Cyprus Anvil 95%; Mercury Explor. 5%)								Assess. work filed
4	Y30500	1			Cyprus Anvil	May 10, 1976	Sept.11,1978	Date: Jan. 21,1977
6	Y30502	1			"	"	Sept.11,1978	Amt.: $8,308.54
178-181	Y30637-Y30640	4			"	"	Mar. 1, 1979	Type: Linecutting Helic. costs
182-185	Y30641-Y30644	4			"	"	Mar. 1, 1979	* * * * * * * *
119	Y30591	1			"	"	Mar. 1, 1979	
AM -(Cyprus Anvil 95%; Mercury Explor. 5%)								
1-2	Y63877-Y63878	2			Cyprus Anvil	May 10, 1976	Mar. 1, 1979	

Continued

COMPANY ..... CLAIM ..... AREA ..... MINING DISTRICT ..... N.T.S. .....

Claim No.	Grant No.	No. of Claims	Staked by	Recording Date	Transfer Information To	Transfer Information Date	Due Date	Assessment Work and Remarks
Page 2								
METALLGESELLSCHAFT JOINT VENTURE								
TIM	-(Cyprus Anvil 95%; Mercury Exploration 5%)							
3	Y32099	1			Cyprus Anvil	May 10, 1976	Mar. 1, 1979	
5	Y30301	1			"	"	Mar. 1, 1979	
7	Y30303	1			"	"	Mar. 1, 1979	
9	Y30305	1			"	"	Mar. 1, 1979	
10	Y30306	1			"	"	Mar. 1, 1979	
11	Y30307	1			"	"	Mar. 1, 1979	
12-20	Y30308-Y30316	9			"	"	Mar. 1, 1979	
21-24	Y30317-Y30320	4			"	"	Mar. 1, 1979	
25-30	Y30321-Y30326	6			"	"	Mar. 1, 1979	
31-32	Y30327-Y30328	2			"	"	Mar. 1, 1979	
ZAN	-(Cyprus Anvil 95%; Mercury Exploration 5%)							
1-8	Y25973-Y25980	8			Cyprus Anvil	May 10, 1976	Mar. 1, 1979	
9-12	Y25981-Y25984	4			"	"	Mar. 1, 1979	
13-14	Y25985-Y25986	2			"	"	Mar. 1, 1979	
15	Y26126	1			"	"	Mar. 1, 1979	
16	Y25987	1			"	"	Mar. 1, 1979	
17-20	Y25988-Y25991	4			"	"	Mar. 1, 1979	
21-24	Y25992-Y25995	4			"	"	Mar. 1, 1979	
26	Y26128	1			"	"	Mar. 1, 1979	
28	Y26130	1			"	"	Mar. 1, 1979	
33-36	Y26135-Y26138	4			"	"	Mar. 1, 1979	
41-44	Y26143-Y26146	4			"	"	Mar. 1, 1979	

COMPANY ANVIL MINING ..... CLAIM PAT ..... PROPERTY OWNERSHIP Cyprus Anvil 60% Metall. 40% ..... Whitehorse M.D. ..... N.T.S. 105-K-6

Claim No.	Grant No.	No. of Claims	Staked by	Recording Date	Transfer Information To	Transfer Information Date	Due Date	Assessment Work and Remarks
26	Y78315	1	J. M. Graham	April 5/74	Cyprus Anvil	April 2/76	July 5/81	Assess. Work Filed
28	Y78317	1	J. M. Graham	April 5/74	"	"	July 5/81	Date: April 7th, 1975
30	Y78319	1	J. M. Graham	April 5/74	"	"	July 5/81	Amount: $6,351.00
32	Y78321	1	J. M. Graham	April 5/74	"	"	July 5/81	Type: Linecutting
33-36	Y78322-Y78325	4	E. Ennis	April 5/74	"	"	July 5/81	* * * * * * * *
41-48	Y78330-Y78337	8	A. Russell	April 5/74	"	"	July 5/81	Payment in lieu of assess. work to common date for 3 mo. to July 5, 1976
49-56	Y78338-Y78345	8	B. Irving	April 5/74	"	"	July 5/81	* * * * * * *
71-78	Y78360-Y78367	8	N. Welter	April 5/74	"	"	July 5/81	
79-86	Y78368-Y78375	8	A. Hart	April 5/74	"	"	July 5/81	Assess. Work Filed
101-108	Y78390-Y78397	8	M. Barker	April 5/74	"	"	July 5/81	Date: July 9, 1976
109-114	Y78398-78403	6	O. Peel	April 5/74	"	"	July 5/81	Type: Linecutting (Fin claims)
129-130	Y78418-Y78419	2	J. F. Welter	April 5/74	"	"	July 5/81	* * * * * * * *
								Assess. Work Filed Date: April 15/77 Amount: $22,400 Type: Gravity Surv. July 10-Oct. 31/76
								* * * * * * * *

COMPANY ...CYPRUS ANVIL.... CLAIM ....PIN..... PROPERTY OWNERSHIP Cyprus Anvil 60% Metall. 40% ..Whitehorse..... N.T.S. 105-K-7.....

Claim No.	Grant No.	No. of Claims	Staked by	Recording Date	Transfer Information To	Transfer Information Date	Due Date	Assessment Work and Remarks
1-8	YA4214-YA4221	8	R. Hill	April 26, 1976	Cyprus Anvil	May 27, 1976	April 26/81	Assess. Work Filed Date: April 15/77 Amoun t: $12,400 Type: Gravity Surv. July 10-Oct. 31/76 Amount: $9,200 Type: Turam & Mag. June 22-Oct. 31/76 * * * * * * * *
9-16	YA4222-YA4229	8	L. Ladue	April 26, 1976	"	"	April 26/81	
17-24	YA4230-YA4237	8	G. MacMillan	April 26, 1976	"	"	April 26/81	
25-32	YA4238-YA4245	8	E. Albert	April 26, 1976	"	"	April 26/81	
33-40	YA4246-YA4253	8	R. Voisine	April 26, 1976	"	"	April 26/81	
41-48	YA4254-YA4261	8	R. Carlick	April 26, 1976	"	"	April 26/81	
49-54	YA4262-YA4267	6	L. Bill	April 26, 1976	"	"	April 26/81	
55-62	YA19724-YA19731	8	Francois Busque	Sept. 12, 1977	Cyprus Anvil	Nov. 8, 1977	Sept. 12, 1978	
63-64	YA19732-YA19733	2	Jean Denis	Sept. 12, 1977	"	"	Sept. 12, 1978	

COMPANY CYPRUS ANVIL ..... CLAIM LISA ..... PROPERTY OWNERSHIP Cyprus Anvil 90% Ridgemont 10% M.D. Whitehorse ..... N.T.S. 105-K-7 .....

Claim No.	Grant No.	No. of Claims	Staked by	Recording Date	Transfer Information To	Transfer Information Date	Due Date	Assessment Work and Remarks
1-8	Y75073-Y75080	8	R. Bjork	March, 1973	Cyprus Anvil	May 27, 1976	Aug. 28, 1978	Assess. Work Filed Date: April, 1975 Amount: $4,066 Type: Linecutting (1 yr. filed on all but 39-41) * * * * * * * * * *
9-14	Y75081-Y75086	6	Penny Sills	March, 1973	"	"	Aug. 28, 1978	
15-22	Y75087-Y75094	8	P. Burke	March, 1973	"	"	Aug. 28, 1978	
23-28	Y75095-Y75100	6	S. Kanayama	March, 1973	"	"	Aug. 28, 1978	
29-36	Y80441-Y80448	8	G. Jilson	Aug. 28, 1974	"	May 10, 1976	Aug. 28, 1981	
37-38	Y80449-Y80450	2	A. Jilson	Aug. 28, 1974	"	"	Aug. 28, 1981	
39-41	Y80451-Y80453	3	A. Jilson	Aug. 28, 1974	"	"	Aug. 28, 1981	Assess. Work Filed Date: Sept. 5, 1975. Type: Linecutting Gravity (Common date 1-28 to Aug. 28 - 1 yr. 39-41) * * * * * * * * * *
								Assess. Work Filed Date: Sept. 1976 Amount: $4,372.50 Type: Linecutting * * * * * * * * * *
								Assess. Work Filed Date: April 15/77 Type: Turam & Mag. June 22-Oct. 31/76 * * * * * * * * *
								Assess. Work Filed Date: Sept. 1, 1977 Amount: $ 2,800 Type: Linecutting
								CERTIFICATES OF WORK NOT RECEIVED

COMPANY CYPRUS ANVIL MINING CLAIM ROG PROPERTY OWNERSHIP M.D. Whitehorse N.T.S. 105-K-6

Claim No.	Grant No.	No. of Claims	Staked by	Recording Date	Transfer Information To	Transfer Information Date	Due Date	Assessment Work and Remarks
1-8	YA19741-YA19748	8	Lash Ladue	Sept. 12, 1977	Cyprus Anvil	Nov. 8, 1977	Sept. 12, 1978	
9-16	YA19749-YA19756	8	Louis Tommy	Sept. 12, 1977	"	"	Sept. 12, 1978	
17-22	YA19757-YA19762	6	Gordon Etzel	Sept. 12, 1977	"	"	Sept. 12, 1978	
23-25	YA19763-YA19765	3	Jean Denis	Sept. 12, 1977	"	"	Sept. 12, 1978	

COMPANY CYPRUS ANVIL CLAIM BARK PROPERTY OWNERSHIP Cyprus Anvil 60% Metall 40% M.D. Whitehorse N.T.S. 105-K-6

Claim No.	Grant No.	No. of Claims	Staked by	Recording Date	Transfer Information To	Transfer Information Date	Due Date	Assessment Work and Remarks
1-8	YA4315-YA4322	8	John McLeod	April 30, 1976	Cyprus Anvil	June 29, 1976	April 30/81	Assess. Work Filed Date: Sept, 1976 Amount: $23,761.54 Type: Linecutting * * * * * * * *
9-16	YA4323-YA4330	8	Don Lindgren	April 30, 1976	"	"	April 30/81	
17-24	YA4331-YA4338	8	Raymond Morin	April 30, 1976	"	"	April 30/81	
25-32	YA4339-YA4346	8	Hector Vallee	April 30, 1976	"	"	April 30/81	
33-40	YA4347-YA4354	8	A. Carlos	April 30, 1976	"	"	April 30/81	
41-42	YA4355-YA4356	2	Bernard L. Locke	April 30, 1976	"	"	April 30/81	Assess. Work Filed Date: April 15/77 Amount: $12,600.00 Type: Gravity Surv. July 1-Sept. 30/76 * * * * * * * *

APPENDIX ii

COST SUMMARY, 1977

NORTH ANVIL RANGE JOINT VENTURE

Expenditure Summary to November 30, 1977

Salaries and Wages		$ 11,917
Staking Costs		1,790
Consulting Fees		16,766
Line Cutting		1,300
Geophysical		31,563
Other (N.W. Survey)		26,238
Camp Maintenance		525
Rotary Wing		9,977
Miscellaneous Transportation		1,651
Property Maintenance		3,626
		$ 105,353
Administration	10%	10,535
TOTAL EXPENDITURES		$ 115,888

62° 30' 00" 300,000' E 22,740,000' N 133° 10' 00" 310,000' E 320,000' E 22,730,000' N 133° 05' 00"

62° 30' 00" 133° 15' 00" 22,740,000' N 290,000' E 22,730,000' N 133° 20' 00" 280,000' E 22,720,000' N 62° 25' 00" 22,710,000' N 133° 25' 00" 300,000' E 22,700,000' N 133° 50' 00" 62° 25' 00" 22,720,000' N 320,000' E 22,710,000' N 310,000' E

4500 5000 5500 6000

FARO 28 FARO 26 FARO 24 FARO 22 FARO 20

280,000' E 133° 20' 00" 22,700,000' N 290,000' E 133° 15' 00" 300,000' E

LEGEND

CLAIM POSTS AND LEGAL SURVEYS (Located in the field) — FARO 68

PRELIMINARY CLAIM POST AND LINE SURVEYS (Located in the field) — LORNA

APPROXIMATE PLAN OF CLAIM POST LOCATIONS (Not located in the field) — 205 GAL

Note: Claim posts with the indicated marker ┼ have been located in the field, plotted unto 1974 photography and transferred to the orthophoto.

MAP INDEX

1 ANVIL MINE
2 AEX & VANGORDA
3 SWIM LAKES

Scale 1" = 16 miles

ALL WEATHER ROADS
SECONDARY ROADS
TOTE TRAILS
BRIDGES
PRIMARY STREAMS
SECONDARY STREAMS
SWAMPS
CAMP LOCATIONS
DIAMOND D H SITES
ROTARY DRILL SITES
TRIANGULATION STATIONS △ 5241
SPOT ELEVATION IN FEET • 3067

inches 0 1 2
centimetres 0 1 2 3 4 5

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

YUKON GEOLOGICAL SURVEY

CYPRUS ANVIL MINING CORPORATION

CLAIM SURVEYS

REVISED BY

1000 0 1000 2000
Scale 1" = 2000'

N.T.S. 105K - 6
DRAWN BY C. L. C.
DATE: NOV. 15, 1976

62° 30' 00" | 300,000' E | 22,740,000' N | 133° 10' 00" | 310,000' E | 320,000' E | 22,730,000' N | 133° 05' 00"

EXISTING MAPPING BY
MacHANNEY SURVEYING &
ENGINEERING LTD.

62° 30' 00" | 133° 15' 00" | 290,000' E | 22,740,000' N | 22,720,000' N | 133° 50' 00" | 62° 25' 00" | 320,000' E | 22,710,000' N

22,730,000' | 133° 20' 00" | 280,000' E | 22,720,000' N | 310,000' E | 22,700,000' N

62° 25' 00" | 22,710,000' N | 300,000' E

inches
0 1
0 1 2
centimetres

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YUKON GEOLOGICAL SURVEY

10S	PYROXENITE AND SERPENTINIZED EQUIVALENTS	4B	THIN-BEDDED, FOSSILIFEROUS, BLUE-GREY PHYLLITIC LIMESTONE
10F	SMOKEY QUARTZ-FELDSPAR PORPHYRY	4G	AMYGDALOIDAL CHLORITIC PHYLLITE
10E	PORPHYRITIC HB+BIO QUARTZ DIORITE	5G	VARIABLY CALCAREOUS, GRAPHITIC PHYLLITE
10D	EQUIGRANULAR HB+BIO QUARTZ DIORITE	5F	CHLORITIC PHYLLITE
10C	QUARTZ MONZONITE PEGMATITE DIKES	5E	PHYLLITIC MARBLE AND SILICATED MARBLE
10B	PORPHYRITIC, BIOTITE-QUARTZ MONZONITE	5D	LAMINARLY BANDED, VARIABLY CALCAREOUS, CHLORITIC PHYLLITE
10A	MUSCOVITE-BIOTITE GRANODIORITE	5C	METABASITE
	BASALTS, BASALTIC GREYWACKES, LIMESTONE, CHERTS, CARBONACEOUS PELITES OF ANVIL/CAMPBELL ALLOCHTHON	5B	CALCAREOUS MUSCOVITE CHLORITE ± BIOTITE PHYLLITE
9F	BASALT	5A	VARIABLY CALCAREOUS, GRAPHITIC PHYLLITE HOST TO UNIT 4
9E	HARZBURGITE	5	UNDIFFERENTIATED UNIT 5
9D	DIABASE	4	DRUM, VANGORDA, DY, FIRTH, SWIM SULPHIDE DEPOSIT UNDIFFERENTIATED
9C	GABBRO	3J	MUSCOVITE QUARTZITE IN NON-CALCAREOUS PHYLLITE / SCHIST
9B	ROOINSITE	3H	NON-CALCAREOUS, QUARTZ-MUSCOVITE-CHLORITE PHYLLITE / SCHIST
9A	SERPENTINITE	3G	NON-CALCAREOUS, MUSCOVITE-CHLORITE ± BIOTITE PHYLLITE/SCHIST, UNDIFFERENTIATED
8A	MASSIVE AND FRAGMENTAL BASALTIC FLOWS OF ANVIL RANGE GROUP	3F	MARBLE AND SILICATED MARBLE
7G	TUFF TO TUFFACEOUS CHERT	3E	GRAPHITIC PHYLLITE / SCHIST
7G	MAROON CHERT	3D	CALC-SILICATE PHYLLITE / SCHIST
7F	VARICOLOURED PHYLLITIC CHERT/QUARTZITE	3C	METABASITE
7E	MARBLE / PHYLLITIC MARBLE (KALZAS Fm.)	3B	CHLORITIC PHYLLITE/SCHIST
7D	BARITE-B	3A	UNDIFFERENTIATED UNIT 3
7C	CHERT GRANULE/PEBBLE CONGLOMERATE-QUARTZITE (CRYSTAL Pk Fm.)	2	FARO SULPHIDE DEPOSIT UNDIFFERENTIATED
7B	BARITE-I	1G	MARBLE AND SILICATED MARBLE
7A	CARBONACEOUS TO GRAPHITIC, GREY SILICEOUS ARGILLITE/PHYLLITE (FISDERICK POND Fm.)	1F	METABASITE
6C	LAMINARLY BANDED CHLORITIC PHYLLITE	1E	GRAPHITIC SCHIST
		1D	CARBONACEOUS, BIOTITE-MUSCOVITE-ANDALUSITE SCHIST
		1C	QUARTZO-FELDSPATHIC, BIOTITE, MUSCOVITE GNEISS/SCHIST
		1B	TACTITE AND SILICATED MARBLE
		1A	UNDIFFERENTIATED UNIT 1
		0	"GRIT UNIT", UNDIFFERENTIATED

Anvil Batholith — Upper Cretaceous
Vangorda Creek Volcanics, Campbell Plateau — Mississippian - Pennsylvanian
Earn Group — Devonian - Mississippian
Vangorda Group — Mt Mye Group — M. Ordovician - L. Silurian
Faro Group — Hyland — Horizon

UNCONFORMITY SHOWS FIELD STATION NO'S
CONTACT, SOLID WHERE DEFINED, DASHED WHERE APPROXIMATE, DASH-DOTTED WHERE CONCEALED
BEDDING SHOWING VERTICAL PROJECTION
BEDDING SHOWING OVERTURNED
FOLIATION (SLATY CLEAVAGE) SHOWING TREND AND VERTICAL PROJECTION
FOLIATION (SLATY CLEAVAGE) SHOWING DIRECTION OF DIP AND VERTICAL PROJECTION
LINEATION SHOWING DIRECTION AND RELATIVE MOVEMENT OF ADJACENT BLOCKS
FAULT, SHOWING DIRECTION AND RELATIVE MOVEMENT (ARROWS INDICATE RELATIVE MOVEMENT ONLY, ON WHERE KNOWN)
THRUST FAULT, SHOWS MOVEMENT DIRECTION OF ALLOCHTHON
BRECCIA
FLOW FOLIATION INCLINED, VERTICAL, HORIZONTAL
SYNCLINE, SHOWING AXIAL TRACE AND DIRECTION OF PLUNGE, SOLID WHERE DEFINED, DASHED WHERE APPROXIMATE, DOTTED WHERE CONCEALED
ANTICLINE
SYNCLINE

EVENT	PLANAR ELEMENT	LINEAR ELEMENT (SHOWS TREND, PLUNGE & SYMMETRY (MIN.))	FOLD GENERATION
DEPOSITION	BEDDING	NONE	NONE
	INCLINED, VERTICAL, HORIZONTAL		
D_1	S_1	L_1	F_1
	INCLINED, VERTICAL, HORIZONTAL		
D_2	S_2	L_2	F_2
	INCLINED, VERTICAL, HORIZONTAL		
D_3	S_3	L_3	F_3
	INCLINED, VERTICAL, HORIZONTAL		
D_4	S_4	L_4	F_4
	INCLINED, VERTICAL, HORIZONTAL		

MAP INDEX

1 ANVIL MINE
2 AEX & VANGORDA
3 SWIM LAKES

Scale 1" = 16 miles

ALL WEATHER ROADS
SECONDARY ROADS
TOTE TRAILS
BRIDGES
PRIMARY STREAMS
SECONDARY STREAMS
SWAMPS
CAMP LOCATIONS
DIAMOND D.H. SITES
ROTARY DRILL SITES
TRIANGULATION STATIONS — △ 5241
SPOT ELEVATION IN FEET — • 3067

CYPRUS ANVIL MINING CORPORATION

GEOLOGY

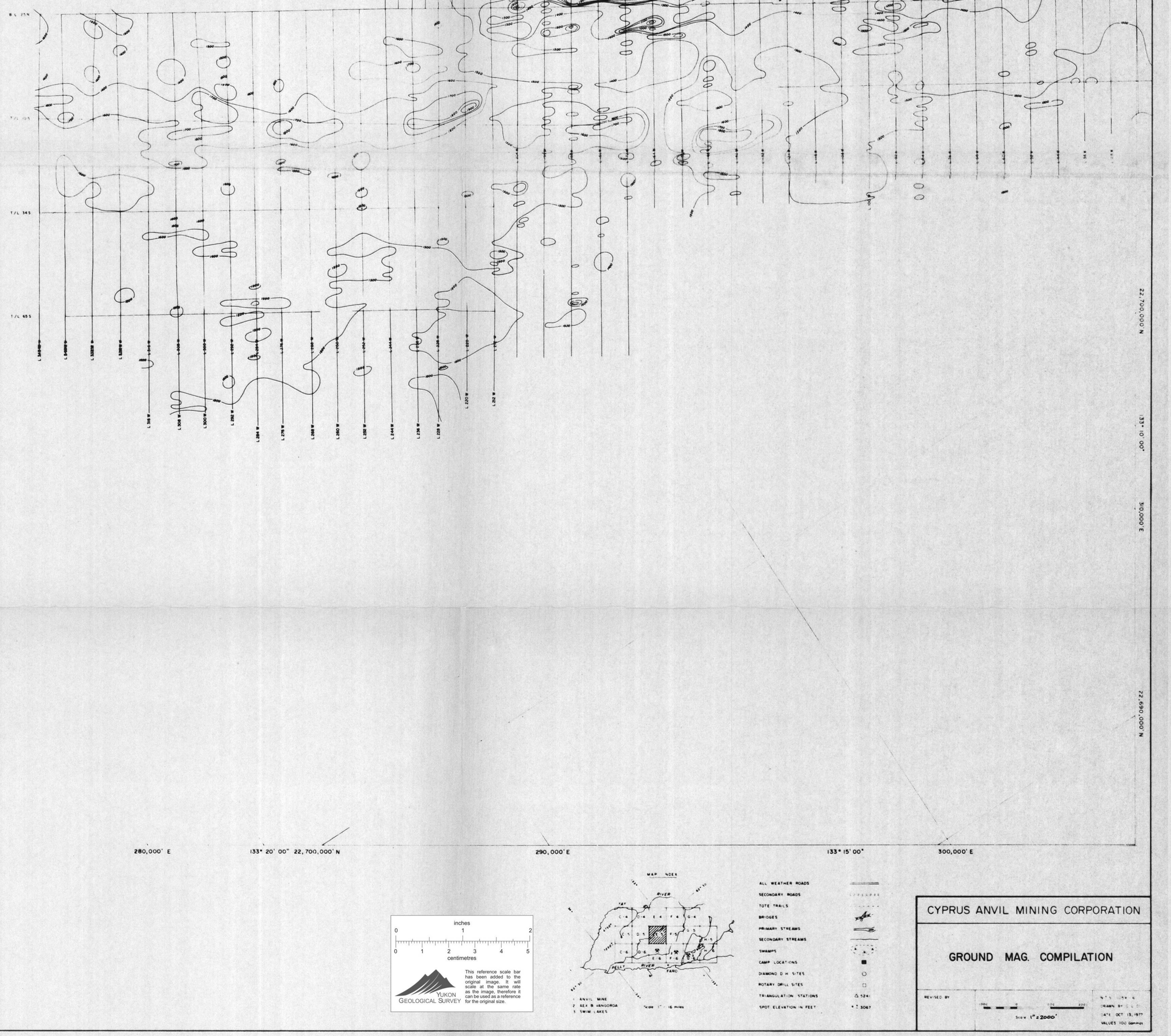
REVISED BY

1000 0 1000 2000
Scale 1" = 2000'

N.T.S. 105K - 6
DRAWN BY W.C.H.
DATE SEPT. 1977

62° 30' 00"
300,000 E
22,740,000 N
133°10'00"
310,000 E
320,000 E
22,730,000 N
133°05'00"
133°05'00"
62° 25' 00"
320,000 E
290,000 E
22,740,000 N
22,700,000 N
280,000 E
22,720,000 N
31°20'00"
62° 25.00'
22,730,000
310,000 E
22,700,000 N
133° 10' 00"
22,690,000 N
22,710,000 N
280,000 E
133° 20' 00"
22,700,000 N
290,000 E
133° 15' 00"
300,000 E

T/L 25N
T/L 05
T/L 34S
T/L 65S
T/L 50N



inches
0 1 2
0 1 2 3 4 5
centimetres

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

YUKON GEOLOGICAL SURVEY

MAP INDEX

1 ANVIL MINE
2 AEX B VANGORDA
3 SWIM LAKES

Scale 1" = 16 miles

ALL WEATHER ROADS
SECONDARY ROADS
TOTE TRAILS
BRIDGES
PRIMARY STREAMS
SECONDARY STREAMS
SWAMPS
CAMP LOCATIONS
DIAMOND D H SITES
ROTARY DRILL SITES
TRIANGULATION STATIONS △ 5241
SPOT ELEVATION IN FEET • 3067

CYPRUS ANVIL MINING CORPORATION

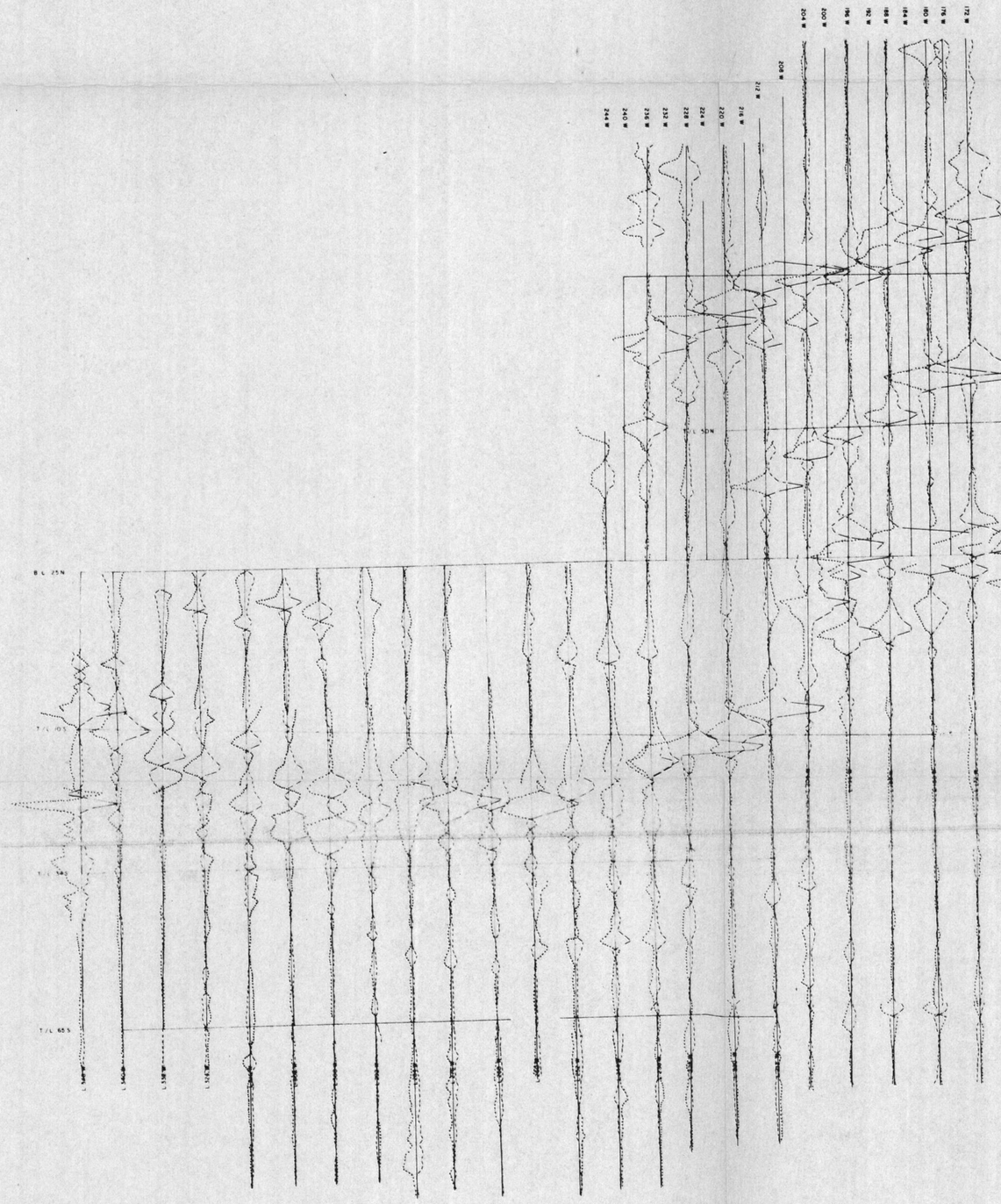
GROUND MAG. COMPILATION

REVISED BY

Scale 1" = 2000'

DRAWN BY
DATE OCT. 13, 1977
VALUES 100 Gammas

62° 30' 00"
300,000' E
22,740,000' N
133°10'00"
310,000' E
320,000' E
22,730,000' N
133°05'00"
62° 30' 00"
133° 15' 00"
290,000' E
22,740,000' N
133° 05' 00"
62° 25' 00"
320,000' E
22,730,000' N
22,720,000' N
280,000' E
133° 20' 00"
22,700,000' N
310,000' E
62° 25' 00"
22,690,000' N
280,000' E
133° 20' 00"
22,700,000' N
290,000' E
133° 15' 00"
300,000' E



inches
0 1 2
0 1 2 3 4 5
centimetres

YUKON GEOLOGICAL SURVEY

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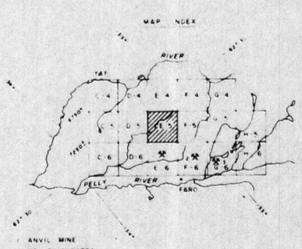
M&P INDEX



1 ANVIL MINE
2 AEA & VANGORDA
3 SWIM LAKES

ALL WEATHER ROADS
SECONDARY ROADS
TOTE TRAILS
BRIDGES
PRIMARY STREAMS
SECONDARY STREAMS
SWAMPS
CAMP LOCATIONS
DIAMOND D.H. SITES
ROTARY DRILL SITES
TRIANGULATION STATIONS △ 5241
SPOT ELEVATION IN FEET • 3067

CYPRUS ANVIL MINING CORPORATION

TURAM ELECTROMAGNETIC COMPILATION

REVISED BY

Scale 1" = 2000'

DRAWN BY

DATE OCT 18, 1977

VALUE 7 x 400 Hz

CYPRUS ANVIL MINING CORPORATION

GEOCHEMICAL SURVEY - COPPER

REVISED BY	N.T.S. 105 K - 6
-	DRAWN BY C.L.C
-	DATE APRIL 7, 1976
-	VALUES: in ppm

Scale 1" = 2000'

inches
0 1 2
0 1 2 3 4 5
centimetres

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

YUKON GEOLOGICAL SURVEY

MAP INDEX

1 ANVIL MINE
2 FAY & VANGORDA
3 SWIM LAKES

Scale 1" = 16 miles

ALL WEATHER ROADS
SECONDARY ROADS
TOTE TRAILS
BRIDGES
PRIMARY STREAMS
SECONDARY STREAMS
SWAMPS
CAMP LOCATIONS
DIAMOND D.H. SITES
ROTARY DRILL SITES
TRIANGULATION STATIONS △ 5241
SPOT ELEVATION IN FEET • 3067

62° 30' 00" 133° 15' 00"
300,000' E
22,740,000' N
290,000' E
280,000' E
22,720,000' N
62° 25' 00"
22,710,000' N
133° 20' 00" 22,700,000' N
133° 10' 00"
310,000' E
320,000' E
22,730,000' N
133° 05' 00"
22,720,000' N
62° 25' 00"
22,690,000' N
133° 15' 00"
300,000' E
BL 25 N
0 N
10 S
20 S
30 S
40 S
50 S
60 S
70 S
80 S
90 S

CYPRUS ANVIL MINING CORPORATION

GEOCHEMICAL SURVEY - LEAD

BL 25 N

inches
0 1 2
0 1 2 3 4 5
centimetres

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

YUKON GEOLOGICAL SURVEY

MAP INDEX

1. ANVIL MINE
2. ALEX & VANGORDA
3. SWIM LAKES

Scale 1" = 16 miles

ALL WEATHER ROADS
SECONDARY ROADS
TOTE TRAILS
BRIDGES
PRIMARY STREAMS
SECONDARY STREAMS
SWAMPS
CAMP LOCATIONS
DIAMOND D H SITES
ROTARY DRILL SITES
TRIANGULATION STATIONS △ 524
SPOT ELEVATION IN FEET • 3067

REVISED BY
-
-
-

1000 0 1000 2000
Scale 1" = 2000

N.T.S 105 K - 6
DRAWN BY C. L. C.
DATE APRIL 1, 1976
VALUES in ppm

GEOCHEMICAL SURVEY - ZINC

CYPRUS ANVIL MINING CORPORATION

62° 30' 00" 133° 15' 00" 300,000' E 22,740,000' N 133° 10' 00" 310,000' E 320,000' E 22,730,000' N 133° 05' 00"

22,740,000' N 290,000' E 22,730,000' N 280,000' E 22,720,000' N 133° 20' 00" 22,720,000' N 133° 05' 00" 320,000' E 22,710,000' N 62° 25' 00" 310,000' E 22,700,000' N 133° 10' 00" 22,690,000' N

BL 25 N

0 N 10 S 20 S 30 S 40 S 50 S 60 S 70 S 80 S 90 S

280,000' E 133° 20' 00" 22,700,000' N 290,000' E 133° 15' 00" 300,000' E 22,710,000' N 62° 25' 00"

inches 0 1 2 — 0 1 2 3 4 5 centimetres

This reference scale bar has been added to the original image. It will scale at the same ratio as the image, therefore it can be used as a reference for the original size.

YUKON GEOLOGICAL SURVEY

MAP INDEX

1. ANVIL MINE
2. ALEX & VANGORDA
3. SWIM LAKES

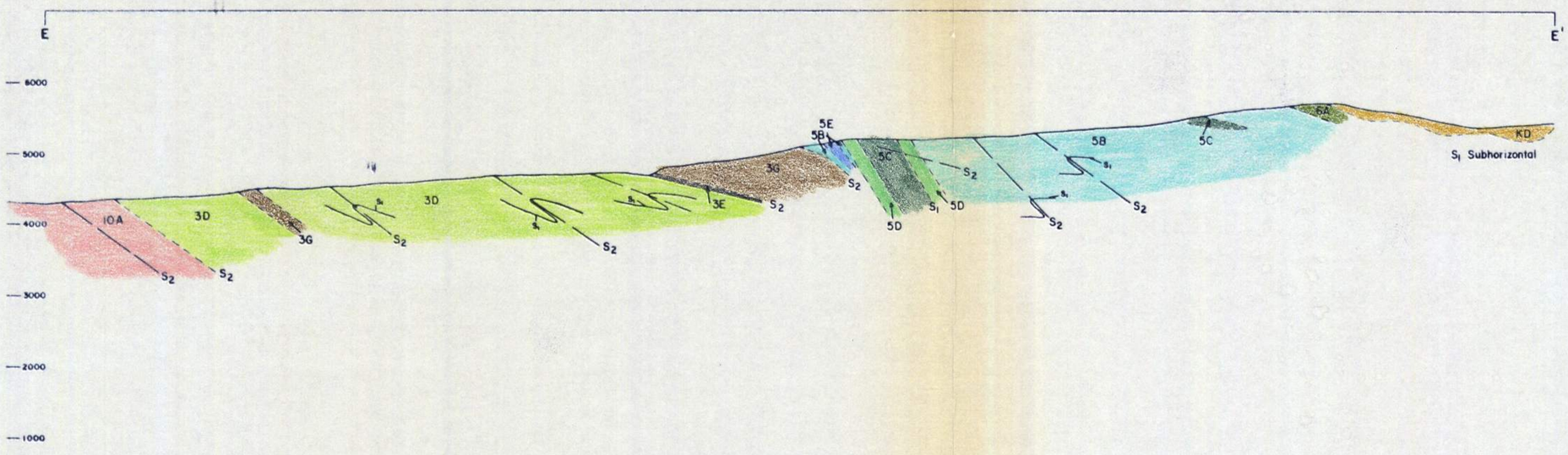
Scale 1" = 16 miles

ALL WEATHER ROADS
SECONDARY ROADS
TOTE TRAILS
BRIDGES
PRIMARY STREAMS
SECONDARY STREAMS
SWAMPS
CAMP LOCATIONS
DIAMOND D.H. SITES
ROTARY DRILL SITES
TRIANGULATION STATIONS △ 524
SPOT ELEVATION IN FEET • 3067

REVISED BY

1000 0 1000 2000 Scale 1" = 2000'

N.T.S. 105 K - 6
DRAWN BY C.L.C.
DATE APRIL 8, 1975
VALUES in ppm



inches
0 1
0 1 2
centimetres

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YUKON GEOLOGICAL SURVEY

CYPRUS ANVIL MINING CORPORATION

NORTH ANVIL RANGE (E5)
VERTICAL CROSS SECTION E-E'

CROSS SECTION LOOKING AT APPROX 300°.

DATE SEPT 26, 1977 SCALE 1" = 2000'

DESIGNED BY J P F
DRAWN BY C L C

EXISTING MAPPING BY
McELHANNEY SURVEYING & ENGINEERING LTD.

WELCOME NORTH
WYNNE CLAIMS

6763 MOUNT MYE

6519

330,000'E
133° 00' 00"
22,720,000'N
340,000'E
62° 25' 00"
350,000'E
132° 55' 00"
22,710,000'N
360,000'E
22,700,000'N
133° 05' 00"
62° 20' 00"
22,690,000'N
133° 10' 00"
310,000'E
320,000'E
133° 05' 00"
330,000'E

inches
centimetres

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

YUKON GEOLOGICAL SURVEY

LEGEND

CLAIM POSTS AND LEGAL SURVEYS
(Located in the field)

PRELIMINARY CLAIM POST AND LINE SURVEYS
(Located in the field)

APPROXIMATE PLAN OF CLAIM POST LOCATIONS
(Not located in the field)

Note: Claim posts with the indicated marker + have been located in the field; plotted unto 1974 photography and transferred to the orthophoto

MAP INDEX

1 ANVIL MINE
2 AEX & VANGORDA
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Scale 1" = 16 miles

ALL WEATHER ROADS
SECONDARY ROADS
TOTE TRAILS
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PRIMARY STREAMS
SECONDARY STREAMS
SWAMPS
CAMP LOCATIONS
DIAMOND D H SITES
ROTARY DRILL SITES
TRIANGULATION STATIONS
SPOT ELEVATION IN FEET

CYPRUS ANVIL MINING CORPORATION

CLAIM SURVEYS

REVISED BY
-
-

N.T.S. 105K-6&11
DRAWN BY C.L.C.
DATE NOV. 5, 1976

Scale 1" = 2000'

CYPRUS ANVIL MINING CORPORATION

GEOLOGY

EXISTING MAPPING BY McELHANNEY SURVEYING & ENGINEERING LTD.

inches 0 1 2 — centimetres 0 1 2 3 4 5

YUKON GEOLOGICAL SURVEY

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

133°00'00" 62°25'00" 132°55'00"

330,000'E 340,000'E 350,000'E 360,000'E

22,720,000'N 22,710,000'N 22,700,000'N 22,690,000'N

133°05'00" 62°20'00" 133°10'00" 320,000'E 330,000'E

REMNANT INFOLDED STRATIGRAPHY NOT MAPPED. DOMINANTLY IC WITH LESSER 3D, 3E, 5A, 3E?, 5B, AND 6A.

6763.' MOUNT MYE

6519.' △

ACE 66-1 (24-601')

ACE 66-4 (83-460')

JAY 1 (42-750')

JAY 2 (25-752')

JAY 3 (48-468')

JAY 4 (82-570')

K-70-1 (251-251')

K-70-2 (73-713')

K-70-3 (293-984')

MAP INDEX

1 ANVIL MINE
2 AEX & VANGORDA
3 SWIM LAKES

Scale 1" = 16 miles

ALL WEATHER ROADS
SECONDARY ROADS
TOTE TRAILS
BRIDGES
PRIMARY STREAMS
SECONDARY STREAMS
SWAMPS
CAMP LOCATIONS
DIAMOND D.H. SITES
ROTARY DRILL SITES
TRIANGULATION STATIONS △ 5241
SPOT ELEVATION IN FEET • 5067

REVISED BY DEC. 12,77

Scale 1" = 2000'

N.T.S. 105K-6&11
DRAWN BY R.D.H.
DATE SEPT 1977

10B PYROXENITE AND SERPENTINIZED EQUIVALENTS
10T TANTALUS QUARTZ - FELDSPAR PORPHYRY
10E PORPHYRITIC HB - BIO QUARTZ DIORITE
10D EQUIGRANULAR HB - BIO QUARTZ DIORITE
10S QUARTZ MONZONITE PEGMATITE DIKES
10B PORPHYRITIC BIOTITE - QUARTZ MONZONITE
10A MUSCOVITE - BIOTITE GRANODIORITE
BASALTS, BASALTIC GREYWACKES, LIMESTONE, CHERTS, CARBONACEOUS PELITES OF DAVIS / CAMPBELL ALLOCHTHON
9F BASALT
9E HORNBLENDITE
9D DIABASE
9C GABBRO
9B ROCKHITE
9A SERPENTINITE
8A MASSIVE AND FRAGMENTAL BASALTIC FLOWS OF ANVIL RANGE GROUP
7G TUFF TO TUFFACEOUS CHERT
7F MAROON CHERT
VARICOLOURED PHYLLITIC CHERT / QUARTZITE
7E MARBLE / PHYLLITIC MARBLE (KALZAS Fm.)
7D BARITE - 2
7C CHERT GRANULE / PEBBLE CONGLOMERATE - QUARTZITE (CRYSTAL TUFF Fm.)
7B BARITE - 1
7A CARBONACEOUS TO GRAPHITIC, GREY SILICEOUS ARGILLITE / PHYLLITE (THOMSON POND Fm.)
6C LAMINATED BANDED CHLORITIC PHYLLITE

6B THIN - BEDDED, FOSSILIFEROUS, BLUE - GREY PHYLLITIC LIMESTONE
6A AMYGDALOIDAL CHLORITIC PHYLLITE
5G VARIABLY CALCAREOUS, GRAPHITIC PHYLLITE
5F CHLORITIC PHYLLITE
5E PHYLLITIC MARBLE AND SILICATED MARBLE
5D LAMINARLY BANDED, VARIABLY CALCAREOUS, CHLORITIC PHYLLITE
5C METABASITE
5B CALCAREOUS MUSCOVITE CHLORITE ± BIOTITE PHYLLITE
5A VARIABLY CALCAREOUS, GRAPHITIC PHYLLITE HOST TO UNIT 4
4 UNDIFFERENTIATED UNIT 5
3 DRUM, VANGORDA, DY, FIRTH, SWIM SULPHIDE DEPOSIT UNDIFFERENTIATED
3J MUSCOVITE QUARTZITE IN NON-CALCAREOUS PHYLLITE / SCHIST
3H NON-CALCAREOUS, QUARTZ - MUSCOVITE - CHLORITE PHYLLITE / SCHIST
3G NON-CALCAREOUS, MUSCOVITE-CHLORITE ± BIOTITE PHYLLITE/SCHIST, UNDIFFERENTIATED
3E MARBLE AND SILICATED MARBLE
3D GRAPHITIC PHYLLITE / SCHIST
3C CALC-SILICATE PHYLLITE / SCHIST
3B METABASITE
3A CHLORITIC PHYLLITE / SCHIST
3 UNDIFFERENTIATED UNIT 3
2 NON-VOLCANOGENIC INTERMEDIATE FLOWS & FLOW BRECCIA (ALLOCHTHONOUS?)

7 FARO SULPHIDE DEPOSIT UNDIFFERENTIATED
1G MARBLE AND SILICATED MARBLE
1F METABASITE
1E GRAPHITIC SCHIST
1D CARBONACEOUS, BIOTITE-MUSCOVITE-ANDALUSITE SCHIST
1C QUARTZO-FELDSPATHIC, BIOTITE, MUSCOVITE GNEISS/SCHIST
1B TACTITE AND SILICATED MARBLE
1A UNDIFFERENTIATED UNIT 1
0 "GNIT UNIT", UNDIFFERENTIATED

Yukon Group: Anvil Batholith; Upper Cretaceous; Hyland Group: Campbell Allochthon, Davis Allochthon; Mississippian; Permo-Pennsylvanian; Earn Group; Vangorda Group; Mt Mye Group; M. Ordovician - L. Silurian; Rapid Group; Proterozoic; Hadrynian

CYPRUS ANVIL MINING CORPORATION

GROUND MAG. COMPILATION

330,000 E
133° 00' 00"
22,720,000 N
340,000 E
62° 25' 00"
350,000 E
132° 55' 00"
22,710,000 N
360,000 E
22,700,000 N
360,000 E
132° 55' 00"
62° 20' 00"
350,000 E
22,690,000 N
340,000 E
62° 20' 00"
310,000 E
133° 10' 00"
22,680,000 N
320,000 E
133° 05' 00"
330,000 E
22,670,000 N
62° 25' 00"
133° 05' 00"
22,720,000 N
22,710,000 N
133° 10' 00"
22,700,000 N
22,690,000 N

inches
0 1 2
0 1 2 3 4 5
centimetres

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

YUKON GEOLOGICAL SURVEY

MAP INDEX

1 ANVIL MINE
2 AEX & VANGORDA
3 SWIM LAKES

Scale 1" = 16 miles

ALL WEATHER ROADS
SECONDARY ROADS
TOTE TRAILS
BRIDGES
PRIMARY STREAMS
SECONDARY STREAMS
SWAMPS
CAMP LOCATIONS
DIAMOND D.H. SITES
ROTARY DRILL SITES
TRIANGULATION STATIONS △ 5241
SPOT ELEVATION IN FEET • 3067

REVISED BY

1000 0 1000 2000
Scale 1" = 2000'

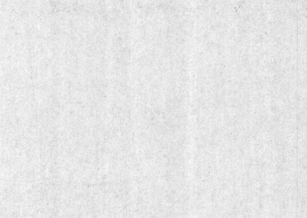
N.T.S. 105A/16
DRAWN BY C.L.C.
DATE OCT. 18, 1977
VALUES 100 Gammas

CYPRUS ANVIL MINING CORPORATION

TURAM ELECTROMAGNETIC COMPILATION

REVISED BY			
-	Scale 1" = 2000'	N.T.S. 105K-6	
-		DRAWN BY: C.L.C.	
		DATE: OCT. 19, 1977	
		VALUE F = 400 Hz	

MAP INDEX



1 ANVIL MINE
2 AEX & VANGORDA
3 SWIM LAKES

Scale 1" = 16 miles

ALL WEATHER ROADS	
SECONDARY ROADS	
TOTE TRAILS	
BRIDGES	
PRIMARY STREAMS	
SECONDARY STREAMS	
SWAMPS	
CAMP LOCATIONS	
DIAMOND D H SITES	
ROTARY DRILL SITES	
TRIANGULATION STATIONS	△ 5241
SPOT ELEVATION IN FEET	• 5087

inches
0 1 2
0 1 2 3 4 5
centimetres

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YUKON GEOLOGICAL SURVEY

EXISTING MAPPING BY
McELHANNEY SURVEYING &
ENGINEERING LTD.

6763 MOUNT MYE

6519

CYPRUS ANVIL MINING CORPORATION

SOIL GEOCHEMISTRY

inches
0 1 2
0 1 2 3 4 5
centimetres

YUKON GEOLOGICAL SURVEY

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

* 14/17/84 SAMPLE LOCATION SHOWING Cu, Pb, Zn CONTENT IN P P M

MAP INDEX

1 ANVIL MINE
2 AEX & VANGORDA
3 SWIM LAKES

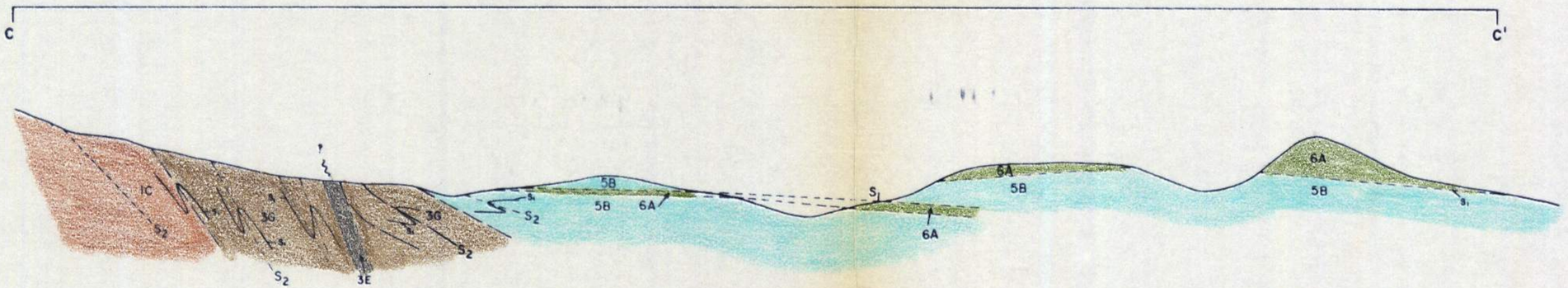
Scale 1" = 16 miles

ALL WEATHER ROADS
SECONDARY ROADS
TOTE TRAILS
BRIDGES
PRIMARY STREAMS
SECONDARY STREAMS
SWAMPS
CAMP LOCATIONS
DIAMOND D.H. SITES
ROTARY DRILL SITES
TRIANGULATION STATIONS △ 5241
SPOT ELEVATION IN FEET • 3067

REVISED BY

1000 0 1000 2000
Scale 1" = 2000'

N.T.S. 105K 6&11
DRAWN BY C.L.C. & I.M.
DATE, SEPT 1977



inches
0 1
0 1 2
centimetres

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YUKON GEOLOGICAL SURVEY

CYPRUS ANVIL MINING CORPORATION

NORTH ANVIL RANGE (F5)
VERTICAL CROSS SECTION C - C'

CROSS SECTION LOOKING AT APPROX 300°

DATE SEPT. 27, 1977 SCALE 1" = 2000'

DESIGNED BY J. P. F.
DRAWN BY C. L. C.

CYPRUS ANVIL MINING CORPORATION

CLAIM SURVEYS

LEGEND

CLAIM POSTS AND LEGAL SURVEYS
(Located in the field)

PRELIMINARY CLAIM POST AND LINE SURVEYS
(Located in the field)

APPROXIMATE PLAN OF CLAIM POST LOCATIONS
(Not located in the field)

Note: Claim posts with the indicated marker ⊕ have been located in the field, plotted unto 1974 photography and transferred to the orthophoto.

FARO 68

LORNA

200 GAL

MAP INDEX

1 ANVIL MINE
2 AEX & VANGORDA
3 SWIM LAKES

Scale 1" = 16 miles

ALL WEATHER ROADS
SECONDARY ROADS
TOTE TRAILS
BRIDGES
PRIMARY STREAMS
SECONDARY STREAMS
SWAMPS
CAMP LOCATIONS
DIAMOND D.H. SITES
ROTARY DRILL SITES
TRIANGULATION STATIONS △ 5241
SPOT ELEVATION IN FEET • 3067

inches
0 1 2
0 1 2 3 4 5
centimetres

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YUKON GEOLOGICAL SURVEY

REVISED BY
S K B JAN. 27, 1976

Scale 1" = 2000'

NTS 105 K-7
DRAWN BY C L C
DATE JAN 27 1976

CYPRUS ANVIL MINING CORPORATION

GEOLOGY

REVISED BY	N.T.S. 105 K-7
	DRAWN BY R.D.H.
Scale 1" = 2,000'	DATE SEPT. 1977

MAP INDEX

1 ANVIL MINE
2 AEX & VANGORDA
3 SWIM LAKES
Scale 1" = 16 miles

ALL WEATHER ROADS
SECONDARY ROADS
TOTE TRAILS
BRIDGES
PRIMARY STREAMS
SECONDARY STREAMS
SWAMPS
CAMP LOCATIONS
DIAMOND D.H. SITES
ROTARY DRILL SITES
TRIANGULATION STATIONS △ 5241
SPOT ELEVATION IN FEET • 3067

inches 0 1
centimetres 0 1 2

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Courtesy GEOLOGICAL SURVEY

10 K	PYROXENITE AND SERPENTINIZED EQUIVALENTS	6B	THIN-BEDDED, FOSSILIFEROUS, BLUE-GREY PHYLLITIC LIMESTONE
10 F	SMOKEY QUARTZ-FELDSPAR PORPHYRY	6A	AMYGDALOIDAL CHLORITIC PHYLLITE
10 E	PORPHYRITIC HB-BIO QUARTZ DIORITE	5 G	VARIABLY CALCAREOUS, GRAPHITIC PHYLLITE
10 D	EQUIGRANULAR HB-BIO QUARTZ DIORITE	5 F	CHLORITIC PHYLLITE
10 C	QUARTZ MONZONITE PEGMATITE DIKES	5 E	PHYLLITIC MARBLE AND SILICATED MARBLE
10 B	PORPHYRITIC, BIOTITE-QUARTZ MONZONITE	5 D	LAMINARLY BANDED, VARIABLY CALCAREOUS, CHLORITIC PHYLLITE
10 A	MUSCOVITE-BIOTITE GRANODIORITE	5 C	METABASITE
9	BASALTS, BASALTIC GREYWACKES, LIMESTONE, CHERTS, CARBONACEOUS PELITES OF ANVIL / CAMPBELL ALLOCHTHON	5 B	CALCAREOUS MUSCOVITE CHLORITE ± BIOTITE PHYLLITE
9 F	BASALT	5 A	VARIABLY CALCAREOUS, GRAPHITIC PHYLLITE HOST TO UNIT 4
9 E	HARZBURGITE	5	UNDIFFERENTIATED UNIT 5
9 D	DIABASE	4	GRUN, VANGORDA, DY, FATH, SWIM SULPHIDE DEPOSIT UNDIFFERENTIATED
9 C	GABBRO	3 J	MUSCOVITE QUARTZITE IN NON-CALCAREOUS PHYLLITE / SCHIST
9 B	ROONGITE	3 H	NON-CALCAREOUS, QUARTZ-MUSCOVITE-CHLORITE PHYLLITE / SCHIST
9 A	SERPENTINITE	3 G	NON-CALCAREOUS, MUSCOVITE-CHLORITE ± BIOTITE PHYLLITE / SCHIST, UNDIFFERENTIATED
8 A	MASSIVE AND FRAGMENTAL BASALTIC FLOWS OF ANVIL RANGE GROUP	3 F	MARBLE AND SILICATED MARBLE
7 H	TUFF TO TUFFACEOUS CHERT	3 E	GRAPHITIC PHYLLITE / SCHIST
7 G	MAROON CHERT	3 D	CALC-SILICATE PHYLLITE / SCHIST
7 F	VARICOLOURED PHYLLITIC CHERT / QUARTZITE	3 C	METABASITE
7 E	MARBLE / PHYLLITIC MARBLE (FALZAS Fm.)	3 B	CHLORITIC PHYLLITE / SCHIST
7 D	BARITE-E	3 A	UNDIFFERENTIATED UNIT 3
7 C	CHERT GRANULE/PEBBLE CONGLOMERATE-QUARTZITE (CRYSTAL PK Fm.)	4 D	KD VOLCANICS, INTERMEDIATE FLOWS & FLOW BRECCIA (ALLOCHTHONOUS?)
7 B	BARITE-I		
7 A	CARBONACEOUS TO GRAPHITIC, GREY SILICEOUS ARGILLITE/PHYLLITE (FISHWICK POND Fm.)		
6 C	LAMINATED BANDED CHLORITIC PHYLLITE		

2	FARO SULPHIDE DEPOSIT UNDIFFERENTIATED
1 G	MARBLE AND SILICATED MARBLE
1 F	METABASITE
1 E	GRAPHITIC SCHIST
1 D	CARBONACEOUS, BIOTITE-MUSCOVITE-ANDALUSITE SCHIST
1 C	QUARTZO-FELDSPATHIC, BIOTITE MUSCOVITE GNEISS/SCHIST
1 B	TACTITE AND SILICATED MARBLE
1 A	UNDIFFERENTIATED UNIT 1
0	"GRIT UNIT", UNDIFFERENTIATED

Ansel Batholith — Upper Cretaceous
Vangorda Creek Volcanics — Upper Devonian – Mississippian
Earn Group — Devonian – Mississippian
Vangorda Group — Permo-Pennsylvanian
Mt. Mye Group — M. Ordovician – L. Silurian
Faro Group — L.? – M. Devonian

BRH 1 (85-340')
BRH 2 (75-450')
BRH 3 (210-490')
CREEK
BLIND

CYPRUS ANVIL MINING CORPORATION

GROUND MAG. COMPILATION

REVISED BY
S.K.B. JAN 29, 1976
R.D.H. OCT 30, 1977

Scale 1" = 2000'

NTS 105 K-7
DRAWN BY C.L.C.
DATE JAN 29, 1976
VALUES : 100 Gammas

YUKON GEOLOGICAL SURVEY

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

inches
0 1 2
0 1 2 3 4 5
centimetres

MAP INDEX

132° 50' 00" 22,700,000'N 370,000'E
380,000'E
132° 95' 00"
22,690,000'N
62° 20' 00"
390,000'E
22,680,000'N
360,000 E 22,700,000'N
132° 55' 00"
22,690,000'N
62° 20' 00"
350,000'E
22,680,000'N
390,000'E 22,670,000'N
62° 15' 00"
380,000'E
22,660,000'N
340,000'E 133° 00' 00" 22,670,000'N
340,000'E
133° 00' 00"
22,660,000'N
350,000'E
62° 15' 00"
132° 55' 00"
360,000'E
370,000'E
132° 50' 00"

132° 50' 00" 22,700,000'N 370,000'E

380,000'E

132° 55' 00"

22,690,000'N

62° 20' 00"

390,000'E

22,680,000'N

360,000'E 22,700,000'N

132° 55' 00"
22,690,000'N

62° 20' 00"

350,000'E

22,680,000'N

390,000'E 22,670,000'N

62° 15' 00"

380,000'E

22,660,000'N

133° 00' 00"
22,670,000'N

340,000'E

22,650,000'N

340,000'E

133° 00' 00"

22,660,000'N

350,000'E

62° 15' 00"

132° 55' 00"

360,000'E

370,000'E

132° 50' 00"

BUD - FOTO SURVEY NOT AT STANDARD SCALE

1977 JUNCE GRID

1985 BETA GRID

T/L 60N

T/L 40N

T/L 20N

T/L 0

T/L 20S

T/L 40S

T/L 60S

T/L 80S

T/L 100S

T/L 120S

T/L 140S

inches
0 1 2
0 1 2 3 4 5
centimetres

YUKON GEOLOGICAL SURVEY

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MAP INDEX

ALL WEATHER ROADS
SECONDARY ROADS
TIE LINES
BRIDGES
PRIMARY STREAMS
SECONDARY STREAMS

CYPRUS ANVIL MINING CORPORATION

TURAM ELECTROMAGNETIC COMPILATION

REVISED BY:

Scale 1" = 2000'

N.T.S. 105K-7
DRAWN BY C.L.C.
DATE JAN 27, 1976
VALUES F = 400 Hz

CYPRUS ANVIL MINING CORPORATION

GEOCHEMICAL SURVEY - COPPER

LEGEND:

- 30 PPM Copper contour
- >40 " " "

MAP INDEX

ALL WEATHER ROADS
SECONDARY ROADS
TOTE TRAILS
BRIDGES
PRIMARY STREAMS
SECONDARY STREAMS
SWAMPS
CAMP LOCATIONS
DIAMOND D.H. SITES
ROTARY DRILL SITES
TRIANGULATION STATIONS △ 5241
SPOT ELEVATION IN FEET • 3067

1 ANVIL MINE
2 AEX & VANGILDA
3 SWIM LAKES

Scale 1" = 16 miles

inches
centimetres

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

YUKON GEOLOGICAL SURVEY

REVISED BY:

Scale 1" = 2000'

N.T.S.
DRAWN BY C.L.C.
DATE.

CYPRUS ANVIL MINING CORPORATION

GEOCHEMICAL SURVEY - LEAD

LEGEND:

30 PPM Lead contour

> 40 " " "

MAP INDEX

ALL WEATHER ROADS
SECONDARY ROADS
TOTE TRAILS
BRIDGES
PRIMARY STREAMS
SECONDARY STREAMS
SWAMPS
CAMP LOCATIONS
DIAMOND D.H. SITES
ROTARY DRILL SITES
TRIANGULATION STATIONS
SPOT ELEVATION IN FEET

REVISED BY:

Scale 1" = 2000'

N.T.S.
DRAWN BY: C.L.C.
DATE:

YUKON GEOLOGICAL SURVEY

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

CYPRUS ANVIL MINING CORPORATION

GEOCHEMICAL SURVEY – ZINC

LEGEND:

75 PPM Zinc contour

> 100 " " "

MAP INDEX

ANVIL MINE
ALEX & VANGUARD
SWIM LAKES

ALL WEATHER ROADS
SECONDARY ROADS
TOTE TRAILS
BRIDGES
PRIMARY STREAMS
SECONDARY STREAMS
SWAMPS
CAMP LOCATIONS
DIAMOND D.H. SITES
ROTARY DRILL SITES
TRIANGULATION STATIONS △ 1241
SPOT ELEVATION IN FEET • 5067

YUKON GEOLOGICAL SURVEY

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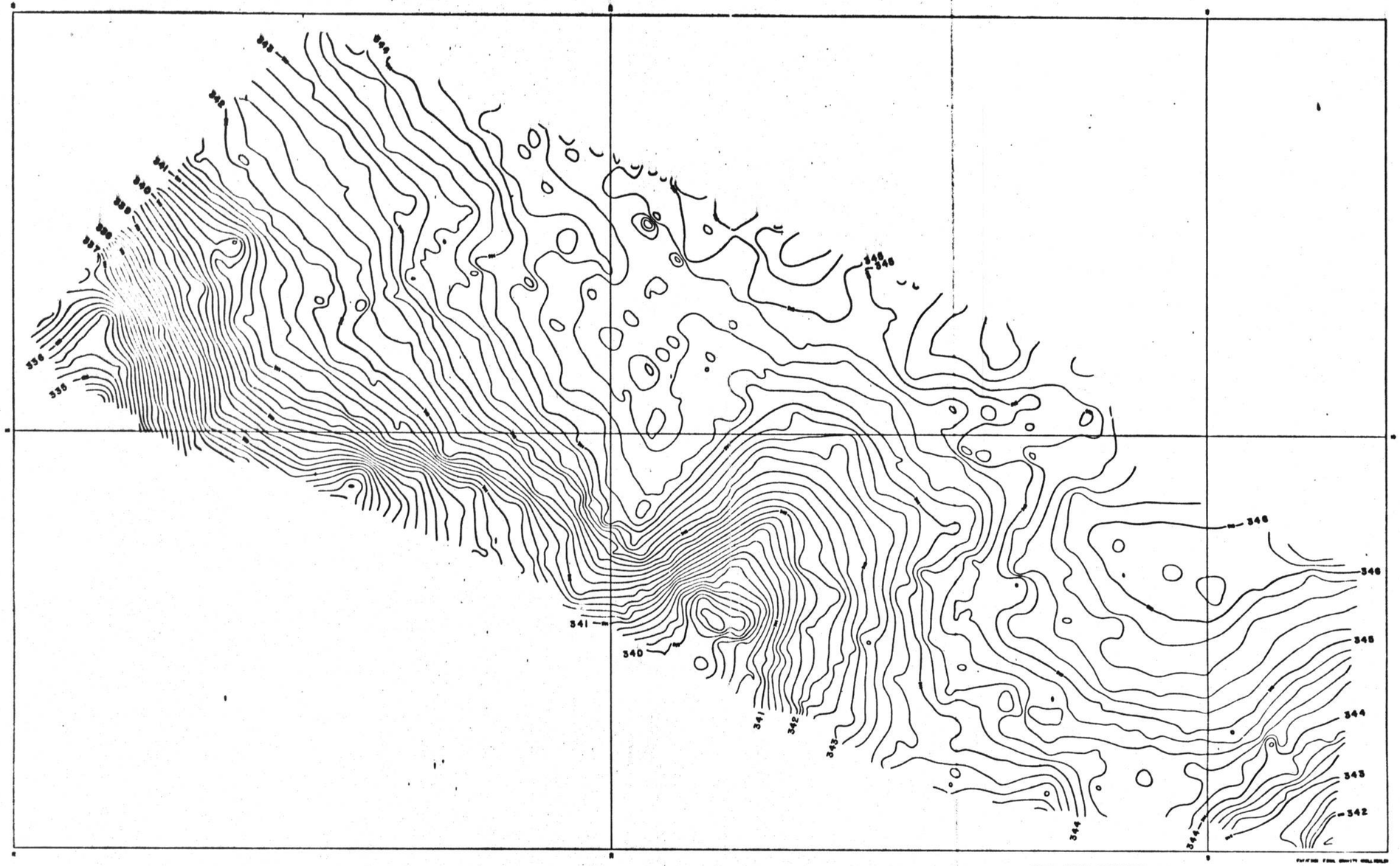
REVISED BY:

Scale 1" = 2000'

N.T.S.
DRAWN BY C.L.C.
DATE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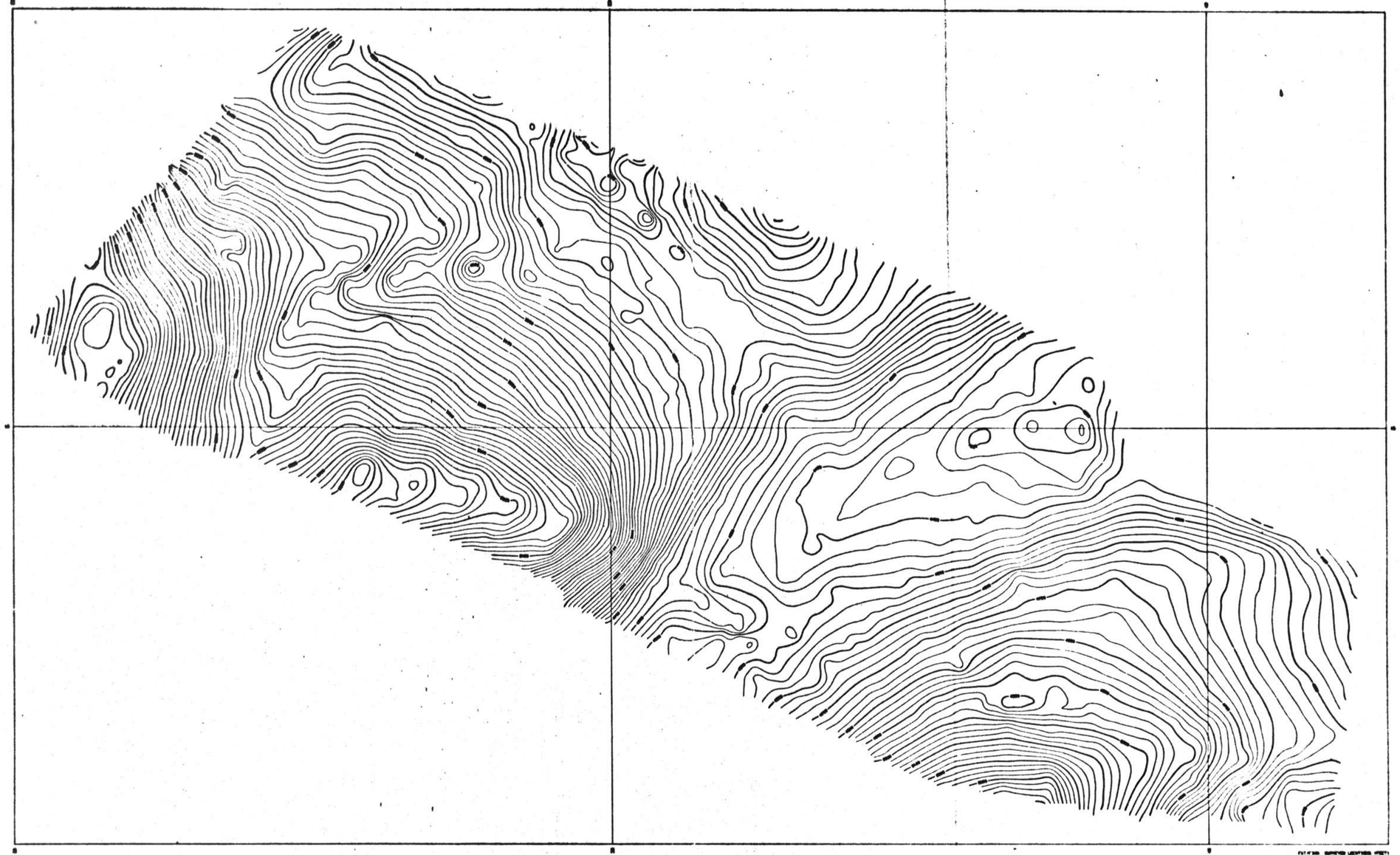

FAT-FINN TOPOGRAPHY

1" = 2000'

inches
0 1
0 1 2
centimetres

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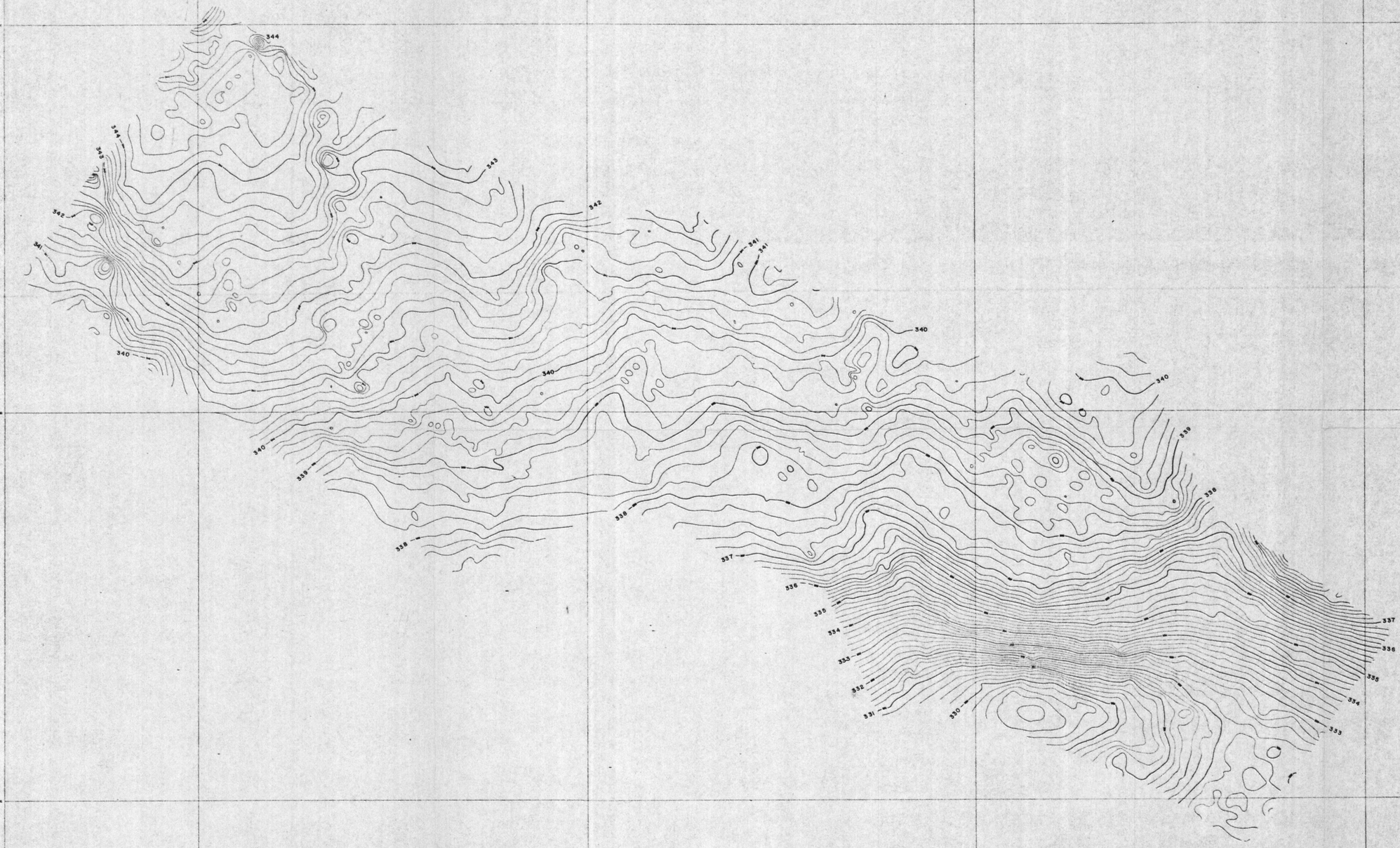
YUKON GEOLOGICAL SURVEY



inches
0 1 2
0 1 2 3 4 5
centimetres

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YUKON GEOLOGICAL SURVEY

MYE SARK GRAVITY CONTOURS

1" = 8000'

inches
0 1 2
0 1 2 3 4 5
centimetres

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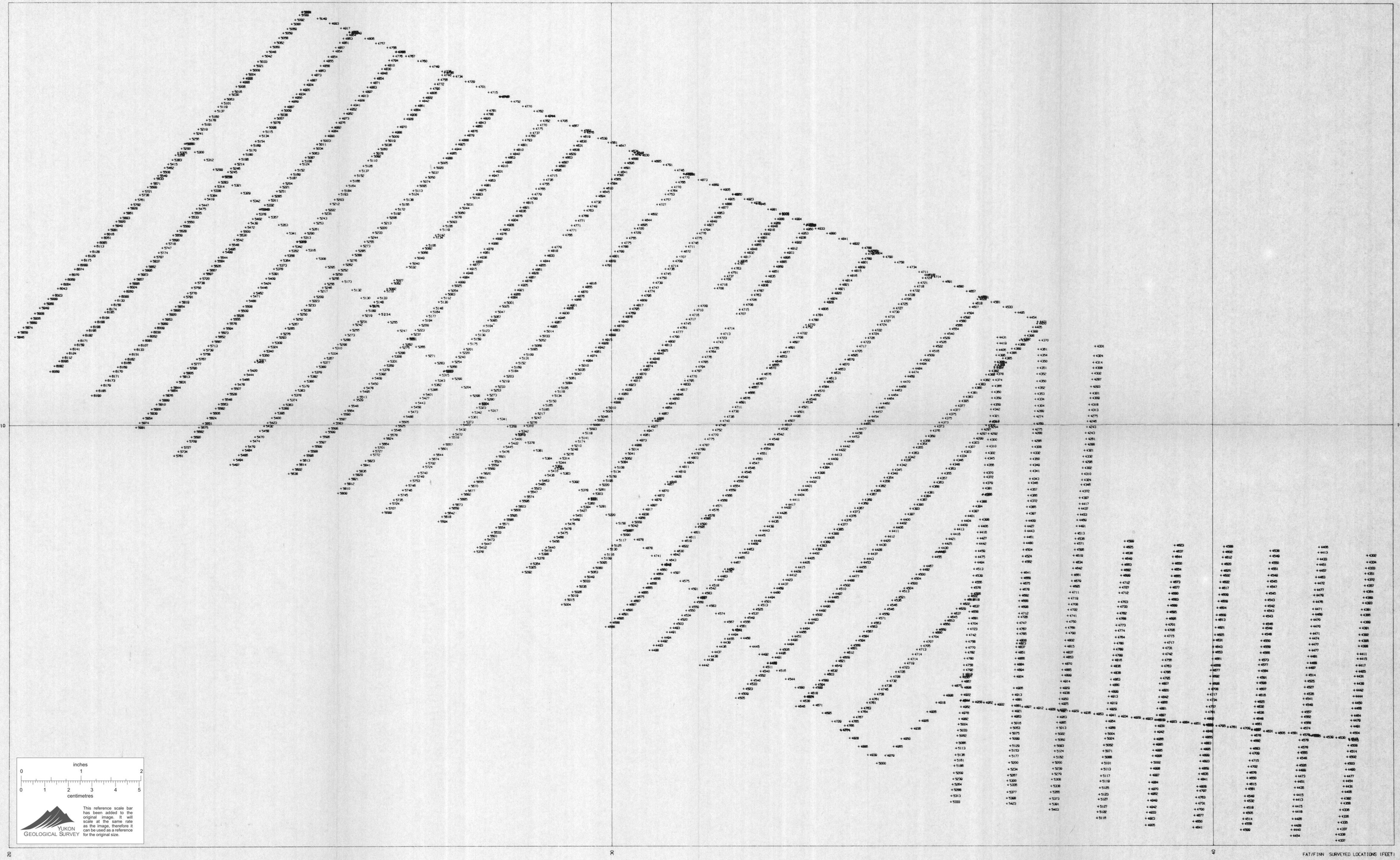
YUKON GEOLOGICAL SURVEY

MYE SARK TOPOGRAPHY

1" = 2000'


20
8
9
10
10
inches
0
1
2
0
1
2
3
4
5
centimetres
YUKON
GEOLOGICAL SURVEY
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
FAT/FINN SURVEYED LOCATIONS (FEET)
1" = 1000'

20

30

40

10

10

inches
0 1 2
0 1 2 3 4 5
centimetres

YUKON GEOLOGICAL SURVEY

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

FAT/FINN SURVEYED LOCATIONS (FEET)
1"=1000'

20

30

40

10

FAT/FINN FINAL GRAVITY (MILLIGALS)

1" = 1000'

inches

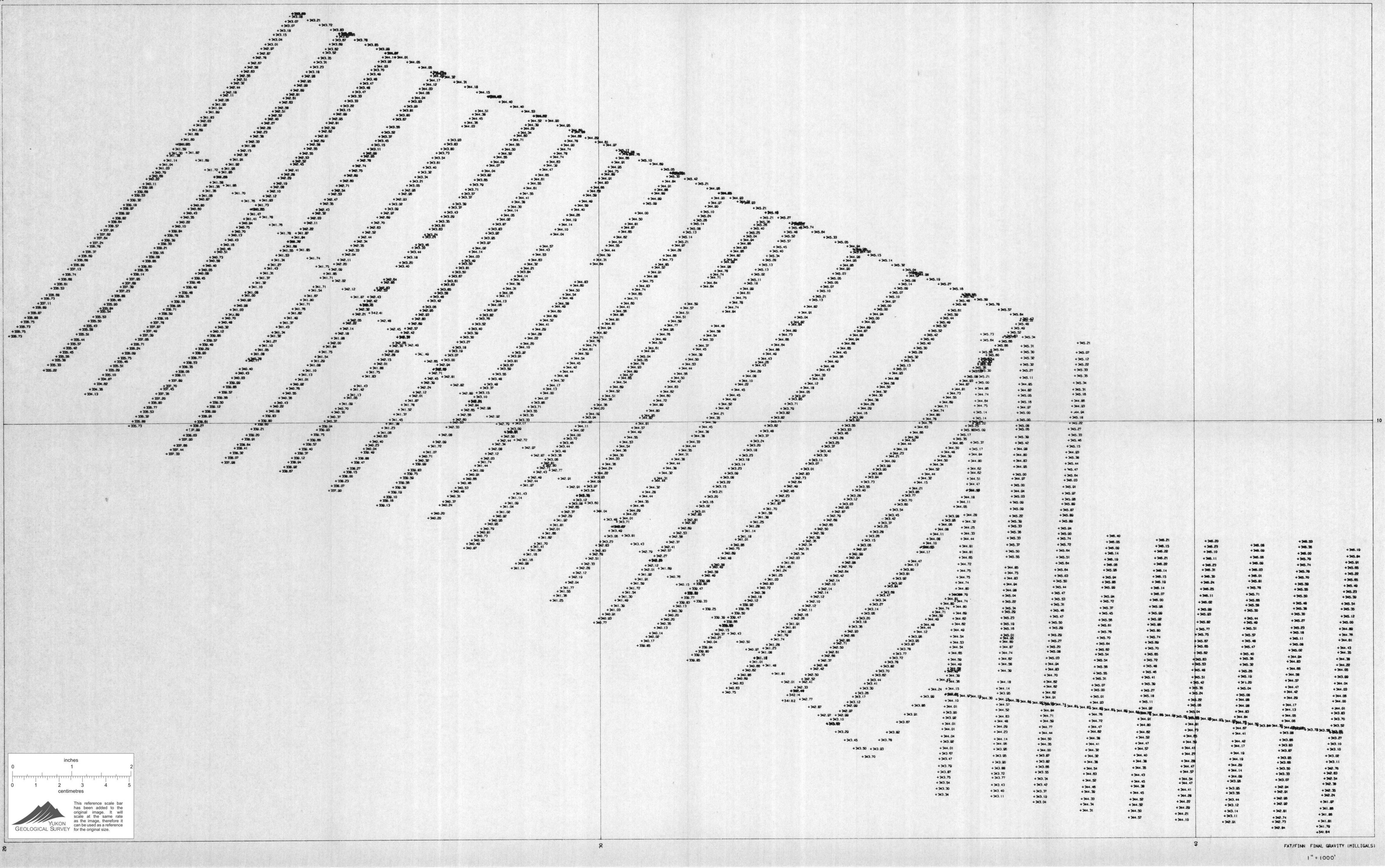
0 1 2

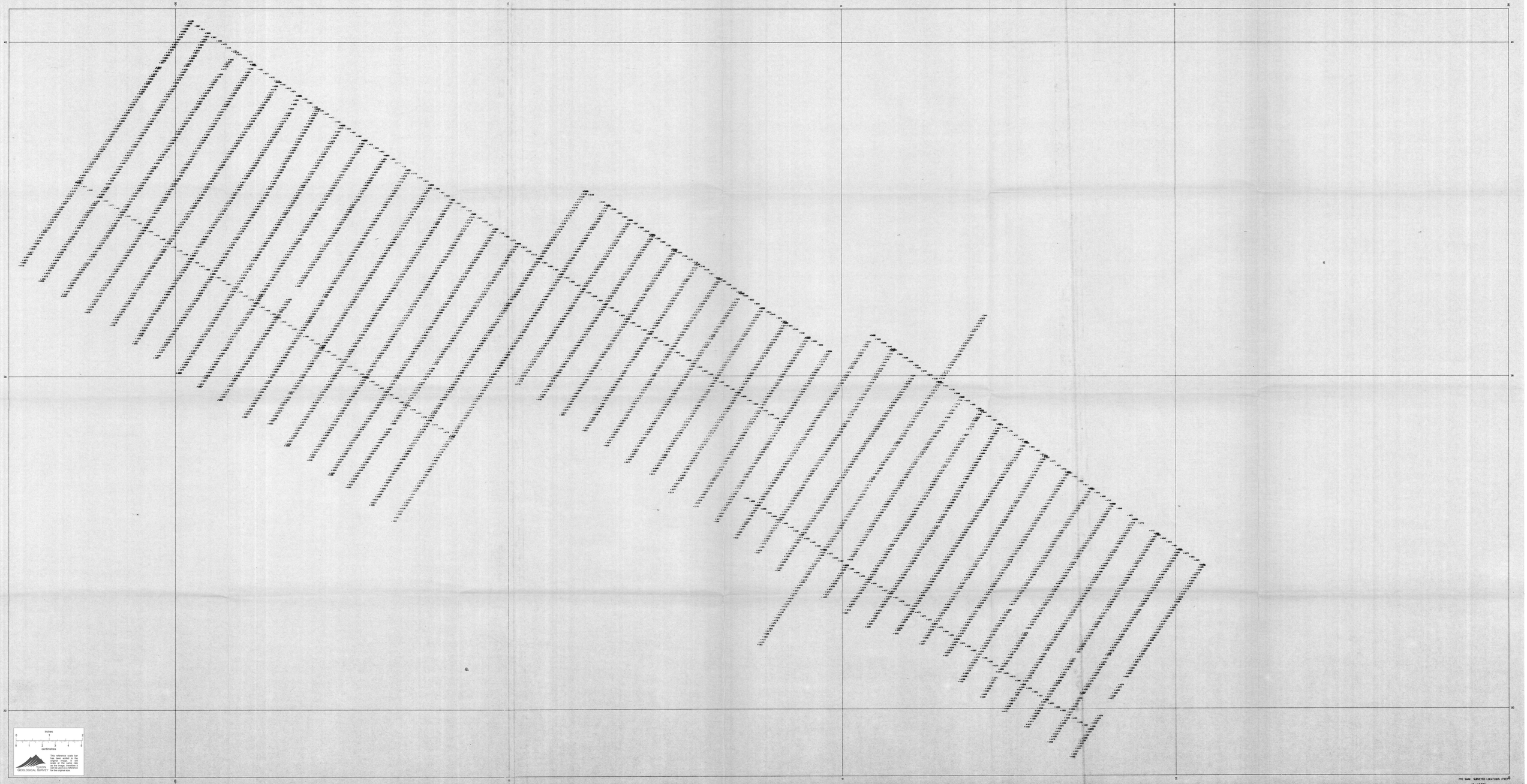
0 1 2 3 4 5

centimetres

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

YUKON GEOLOGICAL SURVEY


20
30
40
10
inches
0 1 2
0 1 2 3 4 5
centimetres
YUKON GEOLOGICAL SURVEY
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
FAT/FINN FINAL GRAVITY (MILLIGALS)
1" = 1000'



PRE SAW SURVEYED LOCATIONS (FEET)
1" = 1000'

inches
centimetres

This reference scale bar was added by the OGS. The original image is not to scale as the image, therefore it cannot be used to scale for the original size.

OHIO GEOLOGICAL SURVEY

1:1000

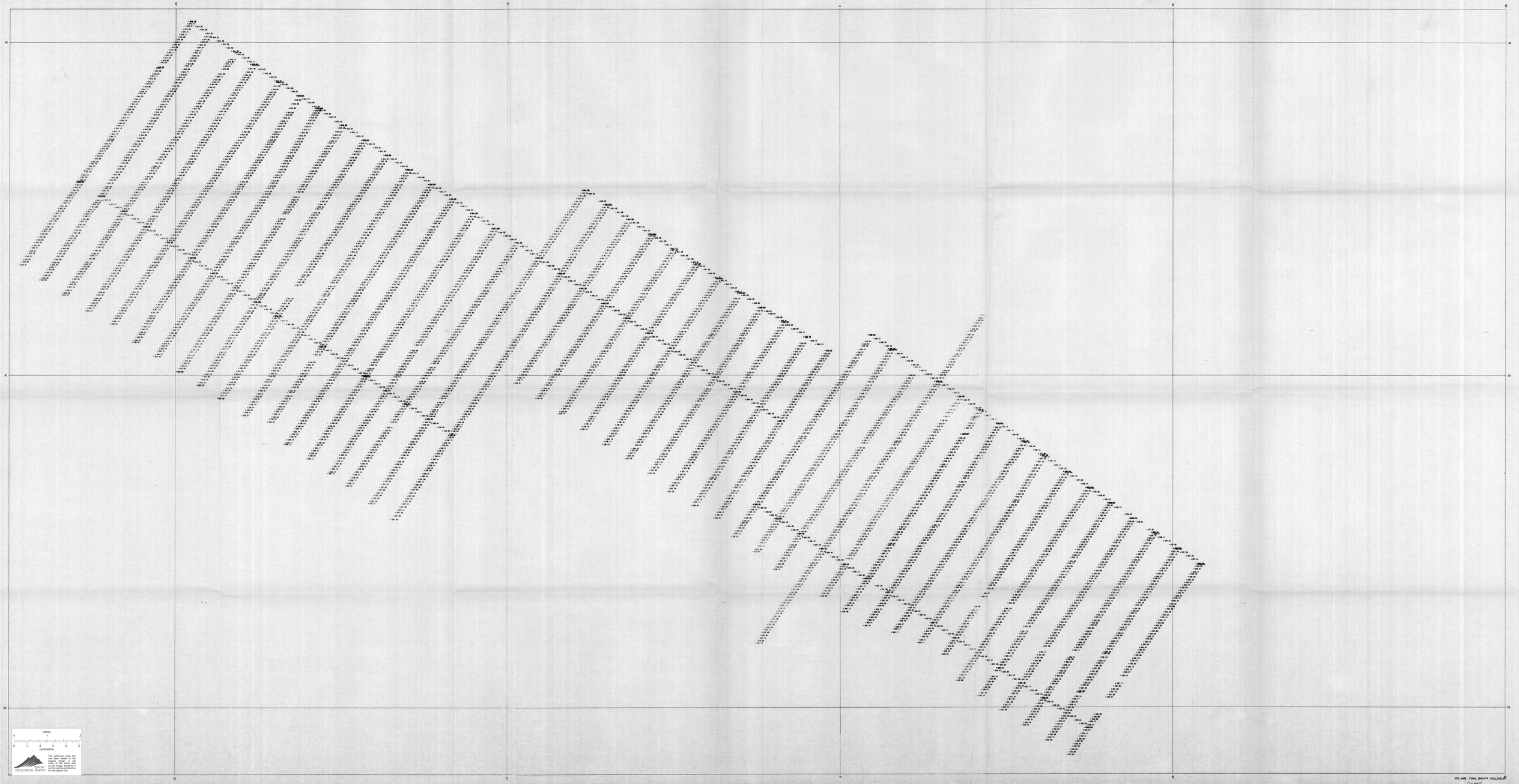
BARRETT LOCATION NORTH

inches

centimetres

This reference scale bar has been added to the original map. Check the scale of the scans and adjust your printer settings for the images if necessary so the original scale.

YUKON GEOLOGICAL SURVEY

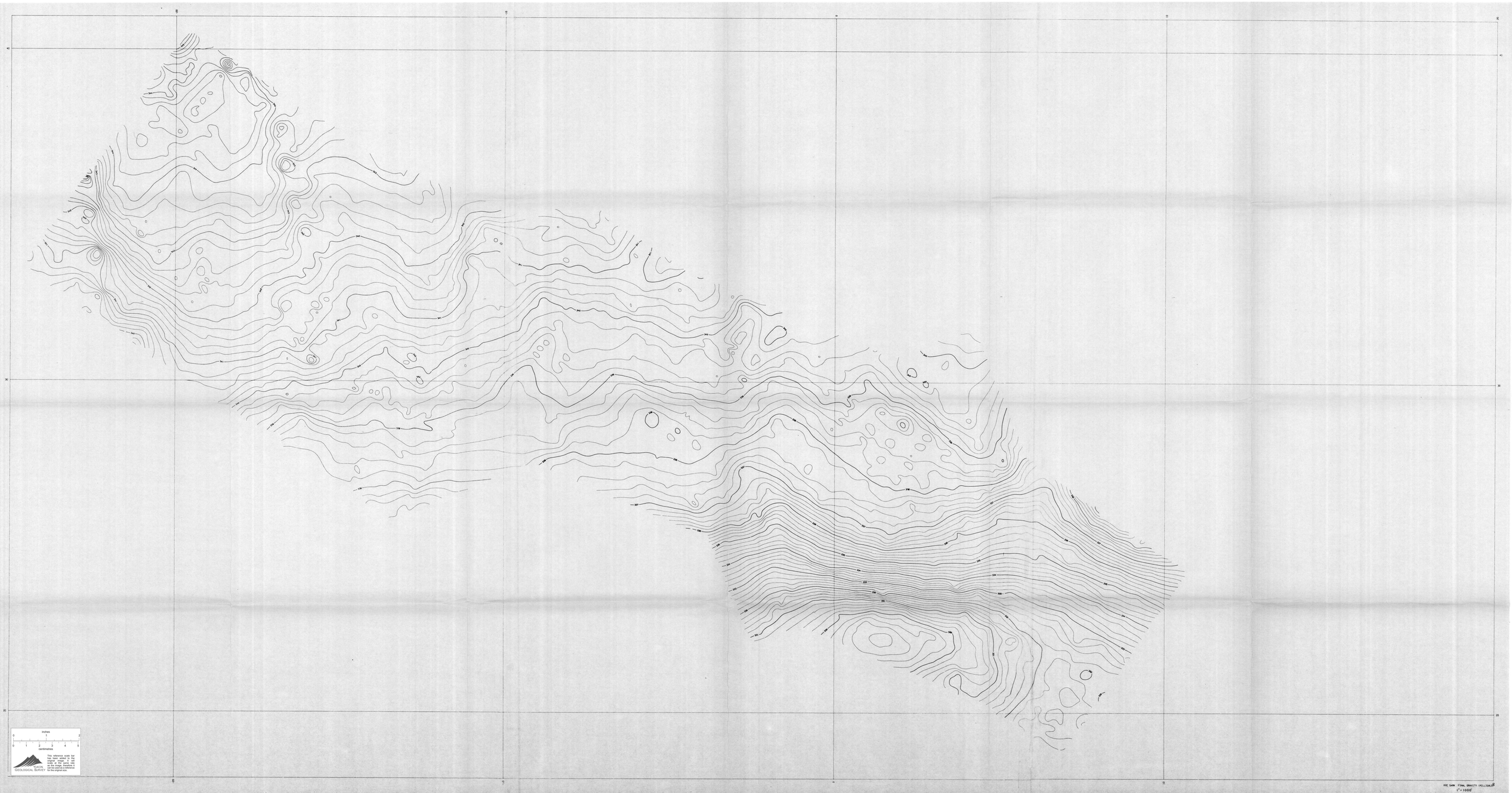


inches
0 1 2
centimeters
0 1 2 3 4 5

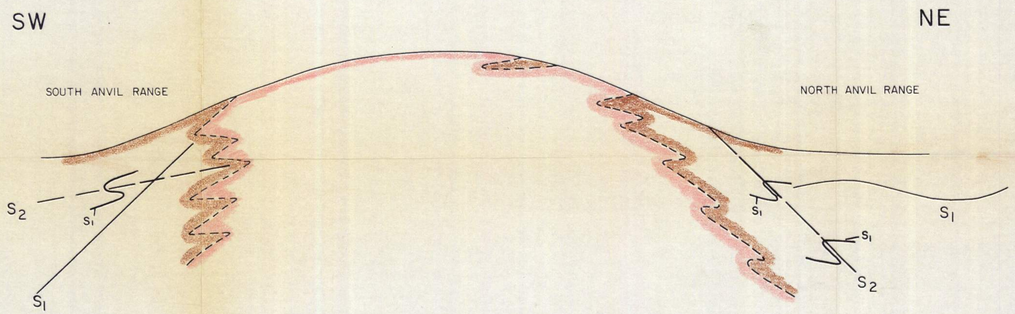
This reference scale bar has been added to the original image. It will print correctly at 100% on the image. Therefore it can be used as a reference for the original size.

USGS
GEOLOGICAL SURVEY

RYE BARK FINAL GRAVITY (HOLLOW)
1"=1000'


inches
centimetres
This reference scale bar was printed on the original maps & will scale at the same ratio as the figure on the map and as a reference for the original sum
YUKON GEOLOGICAL SURVEY
MIE SAW FINAL GRAVITY (MILLIGAL)
1" = 1000'

SCHEMATIC CROSS-SECTION ANVIL RANGE — STRUCTURAL ELEMENTS



S_1 & S_2 SPATIALLY COINCIDENT
S_1 FABRIC PRESERVED IN METABASITE

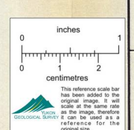
S_1 & S_2 SPATIALLY EXCLUSIVE
S_1 IN WEAK MET. VX; S_2 IN PHYLLITES & SCHISTS

ORIENTATION DATA – SOUTH ANVIL RANGE
VANGORDA PLATEAU

F_1	140° ± 20°, Sub-Horizontal, Doubly Plunging
S_1	130° ± 20°, 60° SW Very Variable
F_2	120° ± 10°, Sub-Horizontal, Doubly Plunging
S_2	120° ± 20°, Dip 0-45° SW
F_3	150° ± 10°, 30° SE PLUNGE
S_3	150° ± 15°, Dip 40-80° SW
F_4	140° ± 10°, Dip 40-50° SW
S_4	110° ± 20°, Dip 40-80° SW
F_5	060° ± 20°, 30° – 40° NE Plunge
S_5	060° ± 20°, Dip Subvertical

ORIENTATION DATA – NORTH ANVIL RANGE

	S_2 DOMINATED TERRAIN	S_1 DOMINATED TERRAIN
F_1	——	Sub-Horizontal Plunge
S_1	——	Sub-Horizontal
F_2	140° ± 20°, Sub-Horizontal Doubly Plunging	140° ± 20°, Sub-Horizontal Doubly Plunging
S_2	140° ± 20°, Dip 0-30° North	140° ± 20°, Dip 30° – 60° North
F_3	170° ± 30°, Variable Northerly Plunge	————
S_3	Subvertical	————
F_4	140° ± 20°, Sub-Horizontal Doubly Plunging	————
S_4	Sub-Horizontal To 140 ± 20°, Dip Vertical	————
F_5	060° ± 10°, Variable North Plunge	060° ± 10°, Sub-Horizontal To Northerly Plunging
S_5	Sub-Vertical	Sub-Vertical



CYPRUS ANVIL MINING CORPORATION

ANVIL RANGE

SCHEMATIC CROSS-SECTION
STRUCTURAL ELEMENTS

FIGURE 1

DATE: SEPT. 28, 1977

DESIGNED BY J. P. F.
DRAWN BY: C. L. C.