WHITEHORSE TEL.: 667-4343, 667-7114
AREA CODE: 403, TELEX: 049-834
CABLE ADDRESS: ANVLMINE

VANCOUVER TEL.: 683-9304
AREA CODE: 604, TELEX: 04-50237
CABLE ADDRESS: ANVLZINC

ANVIL MINING CORPORATION LIMITED
P.O. BOX 2470
103 POLARIS BLOCK
WHITEHORSE, YUKON TERRITORY
CANADA

VANCOUVER OFFICE:
510 WEST HASTINGS STREET
VANCOUVER 2, B.C.
CANADA

October 13, 1966

Mr. G. McIntyre
Chief Mining Recorder
Federal Building
Whitehorse, Yukon Territory

Dear Mr. McIntyre:

The accompanying report is submitted to apply as assessment work on the TED Claim Group.

The area covered is on claim map sheet 105 K/10.

Yours truly,

R.S. Adamson

R.S. Adamson, P. Eng.
Chief of Exploration for
ANVIL MINING CORP LTD

This report has been examined by the Geological Evaluation Unit [illegible] approved as to technical worth [illegible]

D C Findlay
RESIDENT GEOLOGIST

Approved as to cost in the amount
$ 1980.00

for [illegible]
RESIDENT MINING ENGINEER

Accepted as representation work under Section 53(4), Yukon Quartz Mining Act.

[illegible]
[illegible] OF YUKON
Administrator.

GEOPHYSICAL REPORT

On

TED CLAIM GROUP
(62° 40'N,132° 45' W)

At

TEDDY CREEK, YUKON

for

ANVIL MINING CORP. LTD

by

EXPLORATION GEOPHYSICS (YUKON) LTD
WHITEHORSE, YUKON

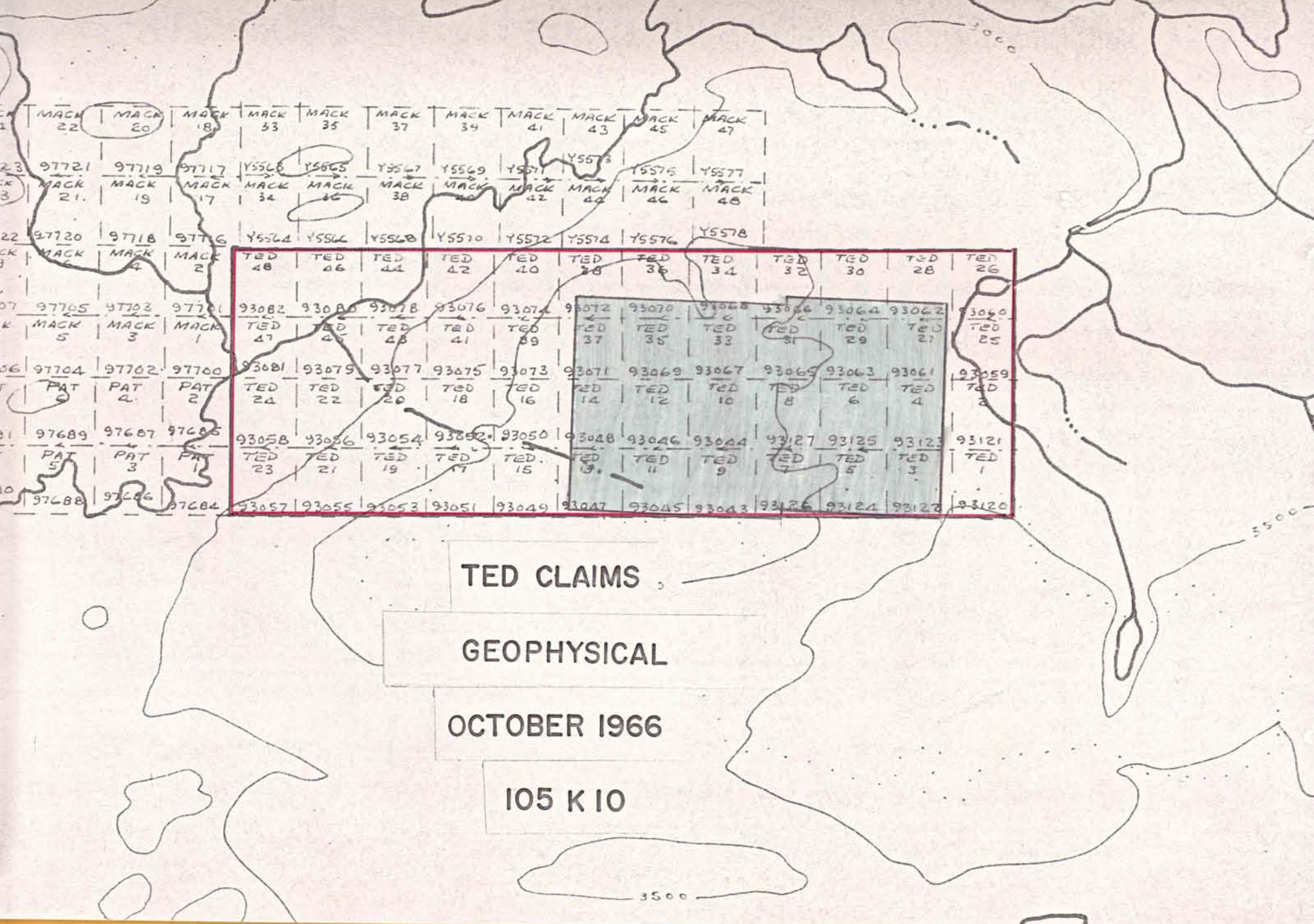
OCTOBER 1966

REPORT BY: R.S. Adamson, B.A.Sc.,P.Eng.
Chief of Exploration for
ANVIL MINING CORP LTD.

PROPERTY SURVEYED: June 12th to 17th, 1966

GEOPHYSICAL SURVEY
TED CLAIM GROUP

TABLE OF CONTENTS


TED CLAIMS
GEOPHYSICAL
OCTOBER 1966
105 K 10
3500
3500

INTRODUCTION

A combined magnetic and electromagnetic geophysical survey was carried out by Exploration Geophysics (Yukon) Limited for Anvil Mining Corporation Ltd. on TED mineral claims 2 to 14 inclusive and 27 to 38 inclusive during the period, June 12th to 17th, 1966

Preparatory linecutting was done by contract linecutters of White, Hosford and Impey Ltd. of Whitehorse. All of the linecutting costs were submitted for assessment purposes with a geochemical survey.

Access to the property by all people involved with the property was by helicopter, usually from the ACE base camp but sometimes from FARO base camp.

The object of the ground survey was to follow up anomalies, both magnetic and electromagnetic, detected from an airborne geophysical survey done in September of 1965.

All geophysical data is presented in the form of profiles, using a distance scale of 1 inch to 400 feet. Vertical scales are 1 inch to 40 degrees and 1 inch to 250 gammas for electromagnetics and magnetics respectively.

The only available published data of the Anvil Range Area is a preliminary 4 mile to the inch map of the regional geology of the TAY RIVER map sheet done by Dr. J.A. Roddick and Dr.

L.H. Green of the Canadian Geological Survey. Rocks in the immediate area of the TED Group are recorded on this map as quartzites, hornfels, chert and limestones of Precambrian age. Known potential ore bodies in the ANVIL Range area lies in metamorphosed sediments of Mississippian age.

SURVEY SPECIFICATIONS

Grid System

A baseline was laid out with a transit and picket lines turned off at 300 foot intervals along the base line by transit. Stations were established along the picket lines at 100 foot intervals by line of picket site and chainage.

Magnetometer Survey

A Sharpe's MF-1 Fluxgate type vertical component magnetometer was used during the entire magnetic survey. This instrument is hand held and needs only coarse levelling and no orientation. The magnetometer has a maximum sensitivity of 20 gammas per scale division on 1000 gamma range and a readability of 5 gammas per scale division.

Readings were taken at 400 foot intervals along the base line and 100 foot intervals along picket lines. Prior to the actual survey, readings were taken at the intersection points of each picket line with the base line. These stations were looped and reread every two hours as a means of controlling drift and diurnal variations.

Electromagnetic Survey

For the electromagnetic survey a CRONE JEM unit (18 volt) was employed. The instrument is a modification of the original Jem unit designed by Crone in 1963; the power supply has been increased thus increasing effective depth penetration to approximately 300 feet under normal operating conditions using the horizontal loop method. The CRONE measures resultant dip angles of the primary and secondary field, is dual frequency (480 and 1800 c.p.s.) and may be used either as a vertical or horizontal loop system.

In contrast to the magnetometer survey which was run along the baseline as well as the picket lines, only the picket lines were run with the EM. A 400 foot separation of the coils was used and readings were taken at 100 foot station intervals.

RESULTS and INTERPRETATION

Magnetometer Survey

After each gamma value was corrected for diurnal variation, they were plotted on a plan of the survey grid (1 inch = 400 feet). Profiles of each line were drawn to a standard scale (see map in folder).

Upon plotting of the values, two areas of anomalous magnetics were revealed; a western zone lying on TED claims 9, 10, 11, 12, 13, 14, 33, 35, 37 and an eastern zone

occurring on TED claims 4,6,27,28. The western zone is of particular interest in that anomalous copper geochemical values are in general association with it.

Geological mapping related to the western zone magnetics points out a synclinal structure trending North 67° West and plunging southeasterly. It is postulated that this is one of a parallel series of northwest folds that underly the TED mineral claim group. Interbedded greywackes and cherty quartzites are the only rocks visible on the TED claims. The greywackes probably with some indigenous magnetite appear to account for the relative high magnetic trends.

Electromagnetic Survey

Both high and low frequency electromagnetic readings were plotted on a plan of the survey grid (1 inch = 400 feet). Profiles of each line were drawn to a standard scale (see map in folder).

With regard to the electromagnetic survey, conductors on the eastern half of the TED property are weak to non-existent.

CONCLUSIONS and RECOMMENDATIONS

An area of some structural significance has been defined by geological mapping and the magnetic survey. Anomalous copper geochemistry is associated with this synclinal structure.

In that crossfolding and faulting are not apparent on the TED property, preference should be given to investigating

anticlinal and synclinal axes. It is possible that limestone occurs in these rock formations although to date none has been found. Therefore a replaceable rock of this nature along an axis or else a quartzite, greywacke contact along folded axes are worthy targets of investigation, particularly if a conductor or some geochemistry can be related to an axis.

A possible favourable axis trend may be too deep for penetration by electromagnetic methods. Geochemical values, perhaps reflecting leakage from an orebody at depth, do occur on the TED west zone. In that known mineralization (zinc) has been reported on this property by prior stakers, further work on this zone is warranted.

In view of the different geological terrain in this area, search should not necessarily be limited to typical Vangorda-Faro ore bodies; that is, massive lead-zinc and essentially flat lying.

Robert S. Adamson, P. Eng.
Chief of Exploration for
ANVIL MINING CORP. LTD.

APPENDIX I (1)

STATEMENT OF COSTS — TED Claim Group

(A) Linecutting - Contract : White, Hosford & Impey Ltd already submitted for Geochemical Survey

(B)	Contract Geophysics - Invoice submitted	$ 1,036.75
	Exploration Geophysics (YUKON) Limited	
	Maintenance 24 man days @ $6	144.00
	Transportation, helicopter	600.00
(C)	Compilation of Report	100.00
(D)	Supervision	100.00
	Total:	1,980.00

APPENDIX I (ii)

PERSONNEL

(A) Linecutting - White, Hosford and Impey Ltd
Contract

(B) Geophysics - Exploration Geophysics (YUKON) Ltd
Contract

W.Cannon	Party Chief	Box 1188,	Whitehorse,	Yukon
B.Shillington	Electromagnetic	"	"	"	"
J. Rollins	Electromagnetic	"	"	"	"
G. Cannon	Magnetometer	"	"	"	"

(C) Compilation of Report
R. S. Adamson, Exploration Chief, Box 2470 Whitehorse YT

(D) Supervision

R. S. Adamson	"	"	"	"	"
M. O. Hampton	Geologist	Box 2470	Whitehorse	YT	

APPENDIX I (iii)

A F F I D A V I T

SUPPORTING STATEMENT OF COSTS
Geophysical Report
June 12th-17th,1966

I, Robert S. Adamson, Chief of Exploration for ANVIL MINING CORPORATION LIMITED, have compiled the statement of costs as presented in this report "Geophysical Survey of TED Claim Group", DO MAKE OATH AND SAY AS FOLLOWS:

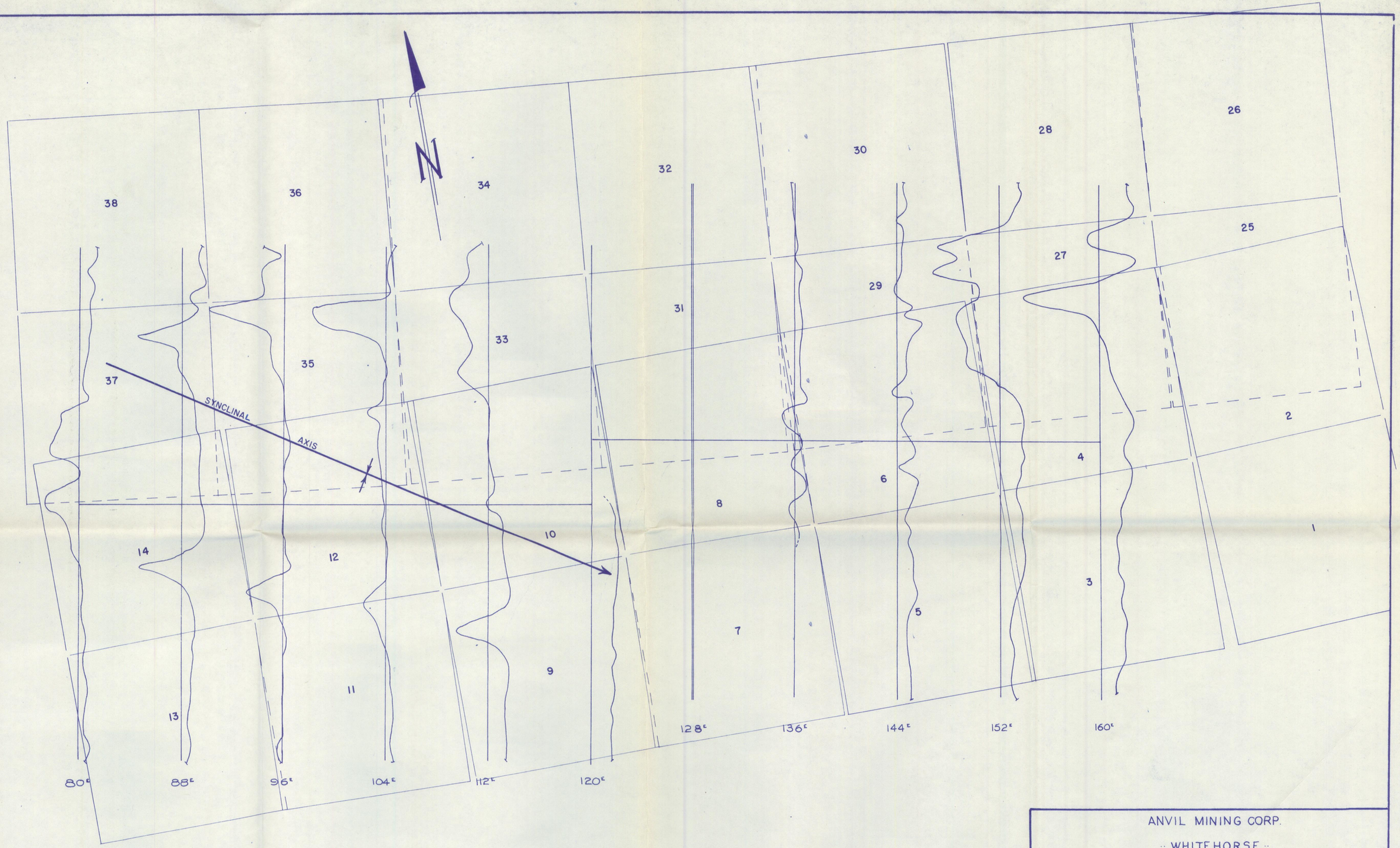
That to the best of my knowledge and belief, the statement of costs as presented is true and an accurate representation of expenditures to be applied as representative work on the TED 2 to 14 inclusive, 27 to 38 inclusive, mineral claims.

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
R. S. ADAMSON

Robert S. Adamson, B.A.Sc.,P.Eng
Chief of Exploration for
ANVIL MINING CORP LTD

DATED this...OCT 20 1966.....day of.....1966,
in the City of Whitehorse in the Yukon Territory.

A Commissioner for taking Affidavits
in and for the Yukon Territory.



ANVIL MINING CORP.

WHITEHORSE

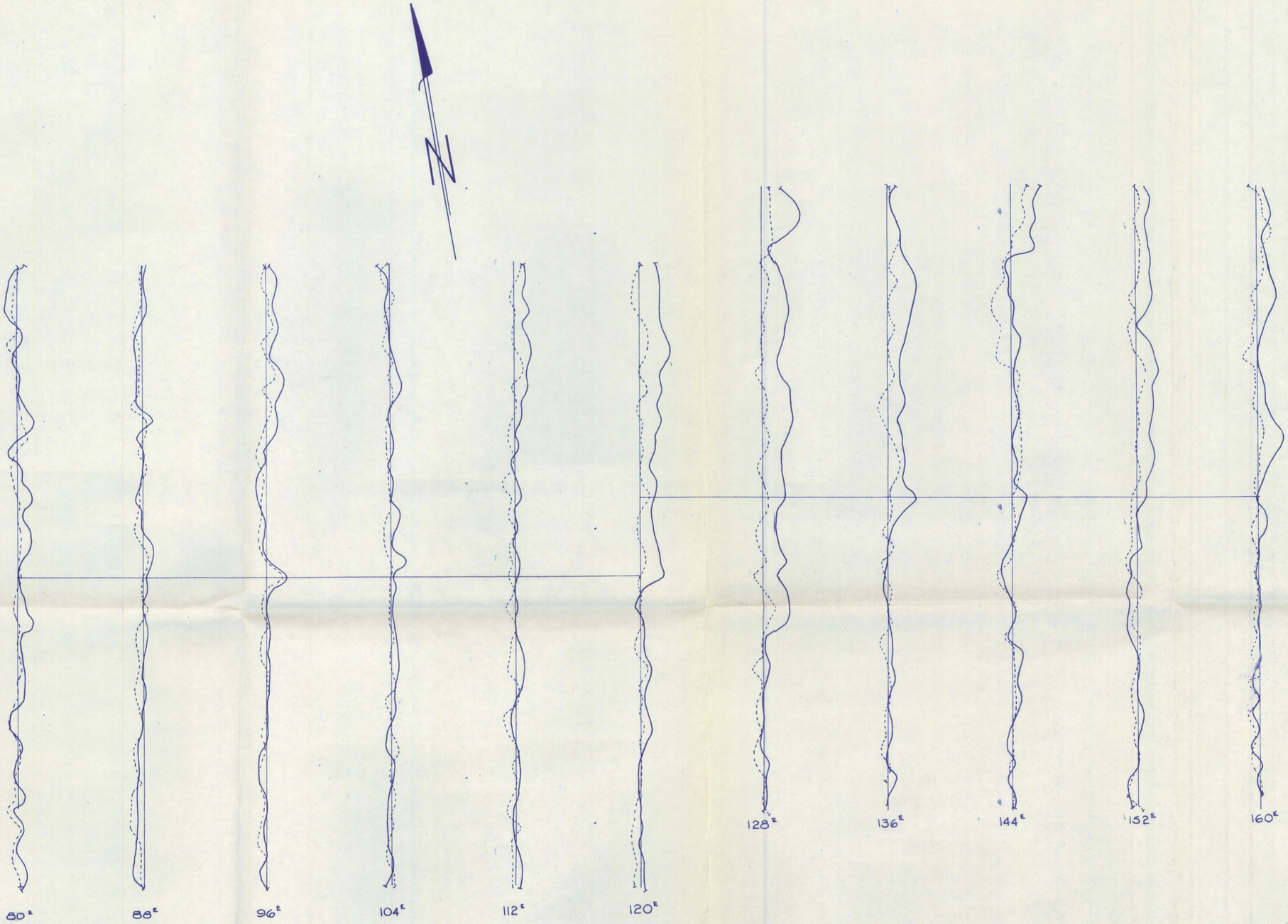
TED GROUP

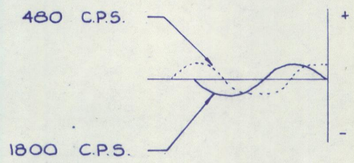
MAGNETOMETER SURVEY

EXPLORATION BY GEOPHYSICS (YUKON) LTD.

SURVEY DATE	:	JULY 30TH - AUG. 3RD	1966
OPERATOR	:	W. CANNON	
MAG. DATUM	:	800 γ	
PROFILE SCALE	:	1" = 250 γ	
RDG. INTERVAL	:	100'	

DATE	:	AUG. 19, 1966	DWG. N° :
SCALE	:	1" = 400'	
DR'N	:	D.J.G.	WB -
PLOTTED			
INTERPRETED	:	W. CANNON	FILE





ANVIL MINING CORP.

WHITEHORSE

TED GROUP

ELECTROMAGNETIC SURVEY

EXPLORATION BY GEOPHYSICS (YUKON) LTD.

SURVEY DATE:	JUNE 12-17 1966
OPERATORS:	SHILLINGTON, ROLLINS
PROFILE SCALE:	1" = 40°
INST. SPACING:	400'
RDG. INTERVAL:	100'

DATE:	AUG. 18, 1966
SCALE:	1" = 400'
DR'N:	D.J.G.
PLOTTED:	
INTERPRETED:	W. CANNON

DWG. N°

WB-

FILE: