

ASSESSMENT REPORTS

MAP No. 105K-11

TYPE OF WORK: Geophysical

REPORT FILED UNDER	Anvil Mining Corporation Ltd.
DATE PERFORMED	July - August 1966
LOCATION - LAT.	62°30'N Tay River, Y.T.
LONG.	133°W
CLAIM Nos.	YETI Group, YETI 7-10, 12, 14, 22, 24, 26, 27 (93524-93527, 93529, 93531, 93539, 93541, 93543, 93544)
WORK DONE BY	R. S. Adamson, P. Eng.
WORK DONE FOR	Anvil Mining Corporation Ltd.
REMARKS.	Rocks are chert & argillaceous sediments of Devonian or Lower Mississippian age. Magnetics indicate 2 NW striking trends in NE portion of claims; probably caused by disseminated pyrrhotite. EM established a coincident area of weak conductivity. Geochemical results were poor. Low priority for further work.
	\$3,409.75

GEOPHYSICAL REPORT

YETI CLAIM GROUP

For

ANVIL MINING CORP LTD

Location: Tay River in Whitehorse Mining District, Yukon
Latitude 62° 30' N, Longitude 133° W
Claim Map Sheet 105 K/11

Claims Covered: YETI 7-10, 12, 14, 22, 24, 26, 27

Supervision & Report By: R.S. Adamson, P. Eng.
Chief of Exploration for
ANVIL MINING CORP LTD

Property Survey: July 30th to August 7th, 1966

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

November 2, 1966

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

Dear Mr. McIntyre:

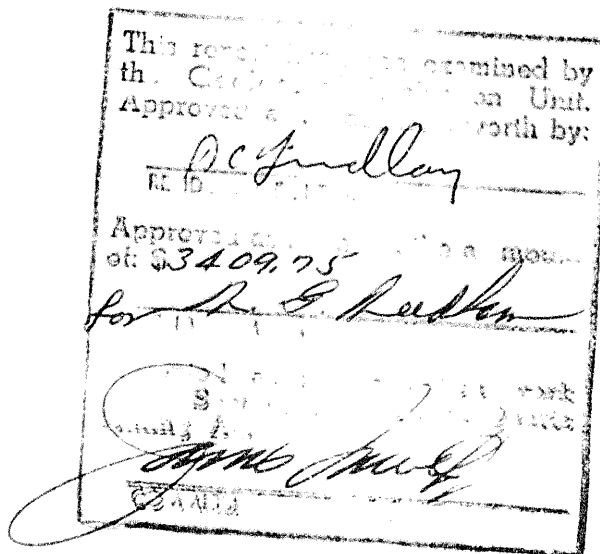
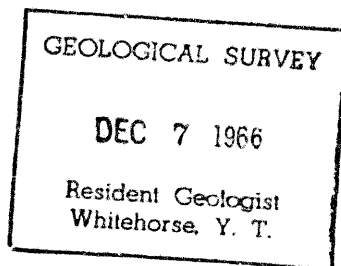
**The accompanying report is submitted to apply
as assessment work on the YETI Claim Group.**

**The area covered is on claim map sheet
105 K/11.**

Yours truly,

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

/is



GEOPHYSICAL REPORT

On

YETI CLAIM GROUP
(62° 30'N, 133°00'W)

At

TAY RIVER, YUKON

For

ANVIL MINING CORP LTD

by

EXPLORATION GEOPHYSICS (YUKON) LTD.

REPORT BY:

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



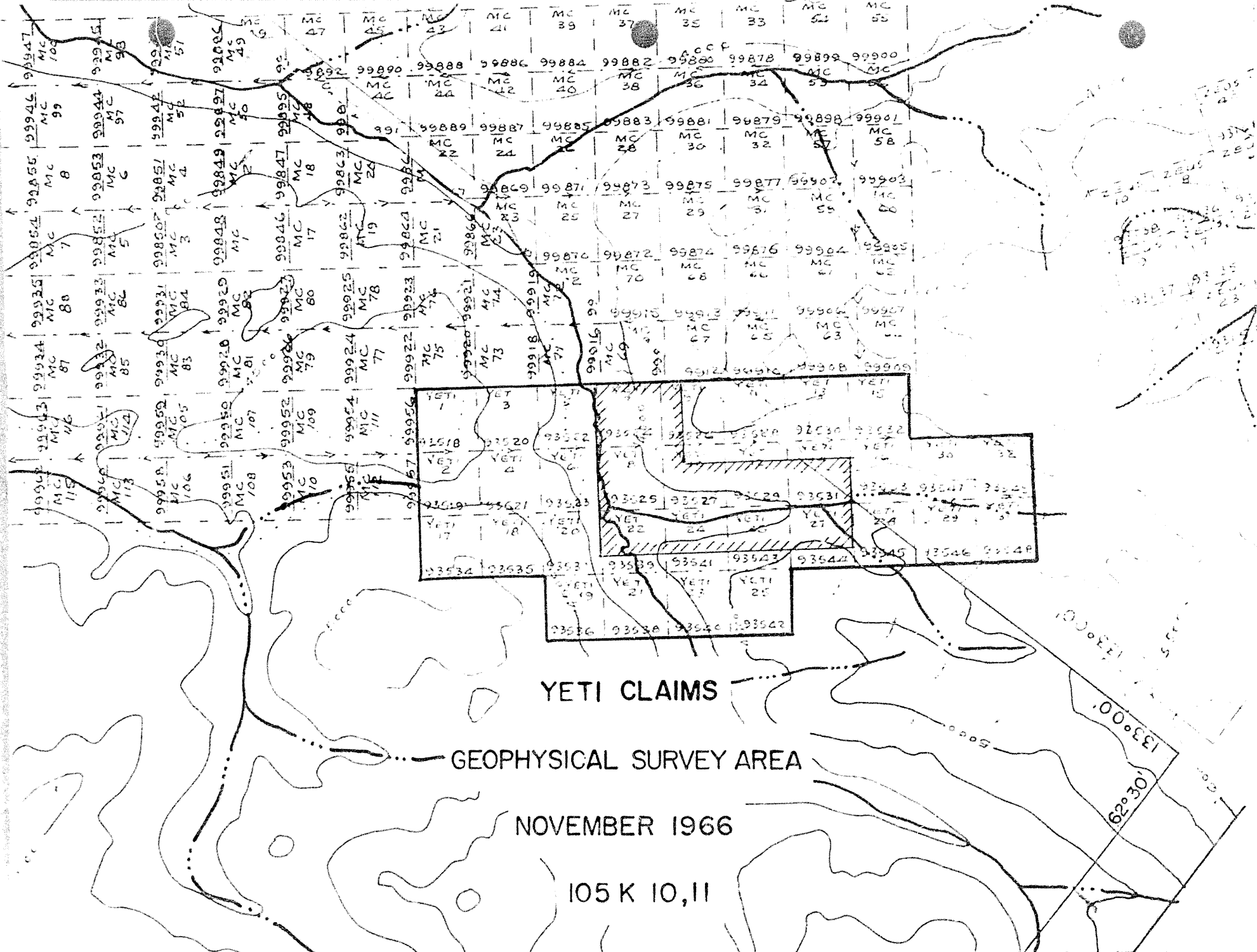
PROPERTY SURVEYED: July 30th to August 7th, 1966

GEOPHYSICAL SURVEY

YETI CLAIM GROUP

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YETI CLAIMS

GEOPHYSICAL SURVEY AREA

NOVEMBER 1966

105 K 10,11

A combined magnetic and electromagnetic geophysical survey was carried out by Exploration Geophysics (Yukon) Limited for Anvil Mining Corporation Ltd. on YETI mineral claims 7-10, 12, 14, 22, 24, 26, 27 during the period July 30th to August 7th, 1966.

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 locate the source of a distinctive gossan in the YETI Creek valley.

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 400 gammas for electromagnetics and magnetic 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 YETI Group are recorded on this map as essentially chert and argillaceous sediments of Devonian or lower Mississippian age. Known potential ore bodies on the ANVIL range to date are not in these rocks but in metamorphosed sediments of Mississippian or later age.

SURVEY SPECIFICATIONS

Grid System

A grid was laid out by Dynasty personnel in November of 1965. A baseline was laid out with a transit and picket lines turned off at 400 foot intervals along the base line by transit. Stations were established along the picket lines at 100 foot intervals by line of picket sight 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 the 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 re-read 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 profiling, two northwesterly striking magnetic trends are revealed, both on the northeastern portion of the surveyed area. Other locally high readings exist on the surveyed area but in that continuity is lacking are of no immediate economic interest. Both of these magnetic trends are suspected to reflect disseminated pyrrhotite in argillaceous and cherty sedimentary rocks which regionally strike northwest.

Electromagnetic Survey

Both high and low frequency electromagnetic readings

were plotted on a plan of the survey grid. (1 inch = 400 ft.) Profiles of each line were drawn to a standard scale (see map in folder).

An area of weak conductivity was established in the extreme northeastern corner of the survey area. This conductive trend more or less coincides with one of the magnetic trends. This coincident magnetic and electromagnetic trend has not been isolated; the anomaly is open both northwest and southeast as well as to the east.

It is probable that this is a zone of disseminated pyrrhotite in a somewhat graphitic argillite.

CONCLUSIONS and RECOMMENDATIONS

The geophysical survey in all probability has delineated the source of the distinctive transported gossan that lies in YETI Creek.

Geochemical results related to this property are very erratic, thus do not give any indication that the sulphides, which probably occur within the conductive zone, carry any metals of economic significance.

In that the underlying geology of the YETI claims is very similar to that of the IVAN property a few miles to the northwest and coupled with the poor geochemistry, exploration on this property should be relegated to a position of low priority.

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

APPENDIX I (1)

STATEMENT OF COSTS

YETI Geophysical Survey

(A) Linecutting		\$1,537.00
Picket lines 44,500 ft. @		
\$77.50 per line mile	\$284.00	
Base line 6000 ft. @ \$		
\$250.00 per line mile	653.00	
Transportation, helicopter	600.00	
	<u>\$1,537.00</u>	
 (B) Geophysics - Contract (Invoice submitted)		\$1,672.75
Exploration Geophysics		
(YUKON) Ltd.-contract	\$964.75	
Maintenance 18 man days @		
\$6.00	108.00	
Helicopter, transportation	600.00	
	<u>\$1,672.75</u>	
 (C) Compilation of Report		\$ 100.00
 (D) Supervision		<u>\$ 100.00</u>
		<u>\$3,409.75</u>

APPENDIX I (ii)

PERSONNEL

(A) Linecutting

John Acklack	Linecutter	Box 1188, Whitehorse, Yukon
L. Bill	"	" " " "
R. Etzel	"	" " " "
W. Etzel	"	" " " "
C. Ollie	"	" " " "

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

W. Cannon	Electromagnetics	Box 1188, Whitehorse, Yukon
G. Gamble	"	" " " "
D. Cannon	"	" " " "

(D) Compilation of Report

R.S. Adamson	Exploration Chief, Box 2470, Whitehorse, Yukon
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(D) Supervision

R.S. Adamson	Exploration Chief	"	"	"	"
M.O. Hampton	Geologist	"	"	"	"

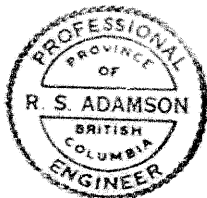
APPENDIX I (iii)

A F F I D A V I T

SUPPORTING STATEMENT OF COSTS
Geophysical Report
July 30th to August 7th, 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 YETI 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 YETI 7-10, 12, 14, 22, 24, 26, and 27 mineral claims.



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

DATED this.....*3*.....day of....*NOV*.....1966,
in the City of Whitehorse in the Yukon Territory.

[Signature]
A Commissioner for taking Affidavits
in and for the Yukon Territory.

EXPLORATION GEOPHYSICS (Yukon) LTD.

WHITEHORSE, Y.T.

18 Aug. 1966

Statement of Account

With: Anvil Mining Corporation
Whitehorse, Y.T.

For: Electromagnetic and magnetic Surveys performed.

Location: Yeti Claim Group.

E.M. Survey

<u>Date</u>	<u>Lines</u>	<u>Footage</u>	<u>Operator</u>
Aug. 1	00 10S-10N	2000	G. Cannon
	4W 10S-10N	2000	G. Gamble
	8W 10S-10N	2000	
	12W 10S-10N	2000	
	16W 10S-10N	2000	
	20W 10S-10N	2000	
		<u>12000'</u>	-----12,000
Aug. 2	24W 10S-10N	2000	G. Cannon
	28W 10S-10N	2000	G. Gamble
	32W 10S-10N	2000	
	36W 10S-10N	2500	
	40W 00 -30N	3000	
	44W 00 -30N	3000	
		<u>14500'</u>	-----14,500
Aug. 3	40W 00 -10S	1000	G. Cannon
	44W 00 -10S	1000	G. Gamble
	48W 00 -30N	3000	
	52W 00 -30N	3000	
		<u>8000'</u>	-----8,000
Aug. 4	48W 10S-00	1000	G. Cannon
	52W 10S-00	1000	G. Gamble
	56W 10S-30N	4000	
	60W 10S-30N	4000	
		<u>10000'</u>	-----10,000
Total footage of E.M. survey-----			44,500
Total mileage of E.M. survey-----		8.5 miles	
@ \$47.50 per line mile.			
Total charges for E.M. Survey-----			\$ 403.75

EXPLORATION GEOPHYSICS (Yukon) LTD.

WHITEHORSE, Y.T.

(2)

Magnetic Survey (Yeti)

<u>Date</u>	<u>Lines</u>	<u>Footage</u>	<u>Operator</u>
Aug. 4	Baseline 00-60W	6000	G.Cannon & G.Gamble
		6000'	----- 6,000
Aug. 5	00 10S-10N	2000	G.Cannon
	4W 10S-10N	2000	G.Gamble
	8W 10S-10N	2000	
	12W 10S-10N	2000	
	16W 10S-10N	2000	
	20W 10S-10N	2000	
	24W 10S-10N	2000	
	28W 10S -10N	2000	
	32W 10S-10N	2000	
	36W 10S-15N	2500	
	40W 10S-30N	4000	
	44W 10S-30N	4000	
		28500'	-----28,500
Aug. 6	48W 10S-30N	4000	G.Cannon
	52W 10S-30N	4000	G.Gamble
	56W 10S-30N	4000	
	60W 10S-30N	4000	
		16000'	-----16,000
Total footage of magnetic survey-----			50,500
Total mileage of magnetic survey-----			9.7 miles
@ \$30.00 per line mile.			
Total charges for magnetic survey-----			\$291.00 ✓

Additional Charges:1. Camp set up

July 30th 2 men @ \$30.00 per man day-----\$60.00

2. Cook replacement

July 31st-Aug. 16th: 7 days @ \$30.00 per day-----\$210.00

TOTAL CHARGES FOR GEOPHYSICAL SURVEY OF YETI GRID

P.O. NUMBER	E.M. SURVEY-----	\$403.75
	MAGNETIC SURVEY-----	\$291.00
PRICE CHECKED	COOK REPLACEMENT-----	\$210.00
QUANTITY CHECKED	CAMP SET UP-----	\$ 60.00
TOTAL THIS INVOICE	AP	\$964.75

COMPUTATIONS CHECKED 2400 Line 22/P113.

CHECK NUMBER

APPROVED FOR PAYMENT

R.S. Telleman



Department of Indian Affairs and
~~of Northern Affairs~~ Northern Development
~~and National Resources~~ Resource Development
Branch

Ministère Ministère des Affaires indiennes
~~du Nord canadien et~~ et du Nord canadien
~~des Ressources nationales~~ Direction du développement
des ressources

Box 1767,
Whitehorse, Y.T.,
December 8, 1966.

RESTRICTED

Mr. G. A. McIntyre
Whitehorse Mining Recorder,
Whitehorse, Y.T.

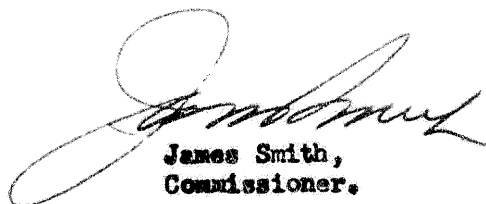
our file / notre dossier M.I. M-252
your file / votre dossier

Geophysical Survey on YETI Claim Group
YETI 7 - 10, 12, 14, 22, 24, 26, 27 for
Anvil Mining Corporation Limited by R.S. Adamson
Claim Sheet 105 K 11 - July 30th to August 7th, 1966

On the recommendation of the Resident Geologist and the Resident Mining Inspector
I accept this report as representation work under Section 53 (4) of The Yukon
Quartz Mining Act to the value of Three Thousand Four Hundred Nine Dollars and
Seventy Five Cents (\$3,409.75).

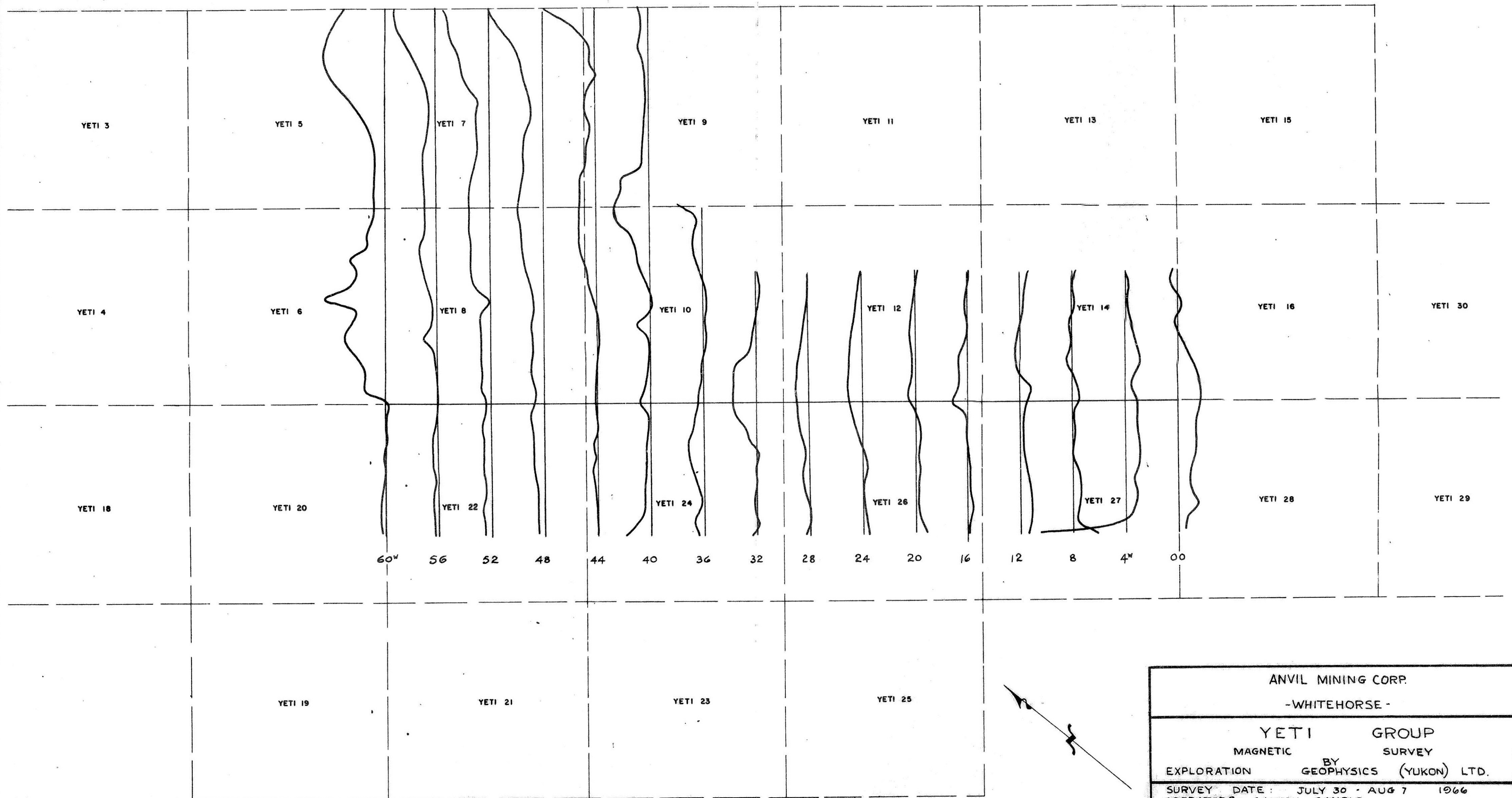
NGN/RAM

Encls.

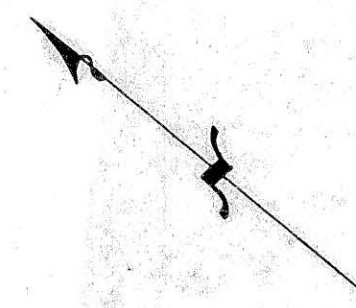
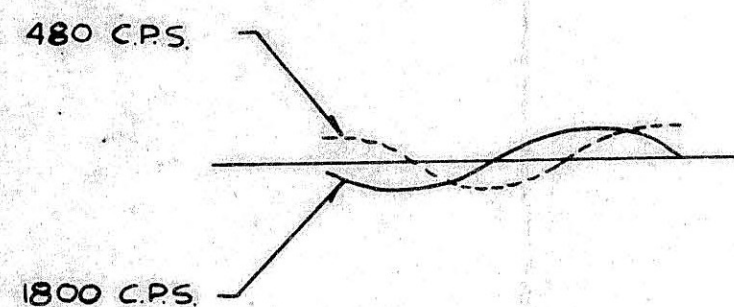
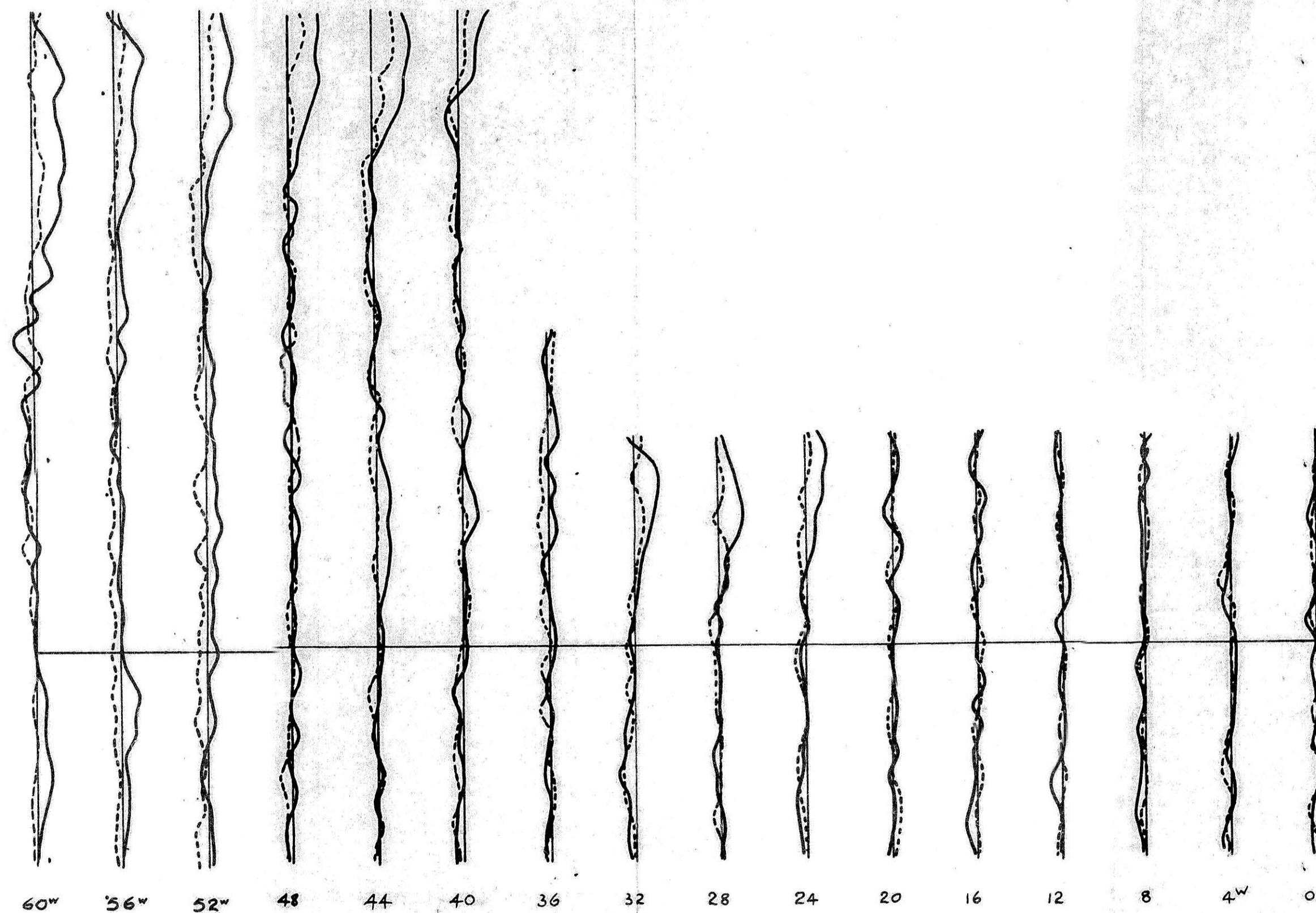

James Smith,
Commissioner.

cc: Chief, Resource Management Division
Attention: Geological Evaluation Unit

Central Mining Records - Whitehorse



ANVIL MINING CORP.	
-WHITEHORSE-	
YETI GROUP	
MAGNETIC SURVEY	
EXPLORATION BY GEOPHYSICS (YUKON) LTD.	
SURVEY DATE: JULY 30 - AUG 7 1966	
OPERATORS: CANNON, GAMBLE.	
PROFILE SCALE: 400 ft = 1"	
MAG. DATUM LEVEL: 800 (+) ft	
RDG. INTERVAL: 100'	
DATE: SEPT 20 1966	
SCALE: 1" = 400'	
DRN: W. CANNON.	



ANVIL MINING CORP.	
- WHITEHORSE -	
YETI	GROUP
ELECTROMAGNETIC	SURVEY
EXPLORATION	BY GEOPHYSICS (YUKON) LTD.
SURVEY DATE : JULY 30 - AUG 7 1966	
OPERATORS: CANNON, GAMBLE.	
PROFILE SCALE : 40' DIP = 1"	
RDG. INTERVAL : 100'	
INST. SPACING : 400'	
DATE : SEPT 20 1966	
SCALE : 400' = 1"	
CRONE HORIZONTAL LOOP	
SURVEY	
DR'N.: W. CANNON.	