

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

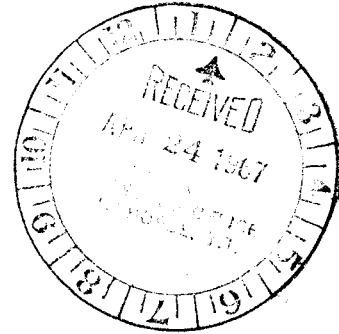
VANCOUVER TEL.: 683-9304
AREA CODE: 604, TELEX: 04-50237
CABLE ADDRESS: ANVLZINC

0095-30060
019557 PAPER
0.1

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

April 20, 1967



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

Dear Mr. McIntyre:

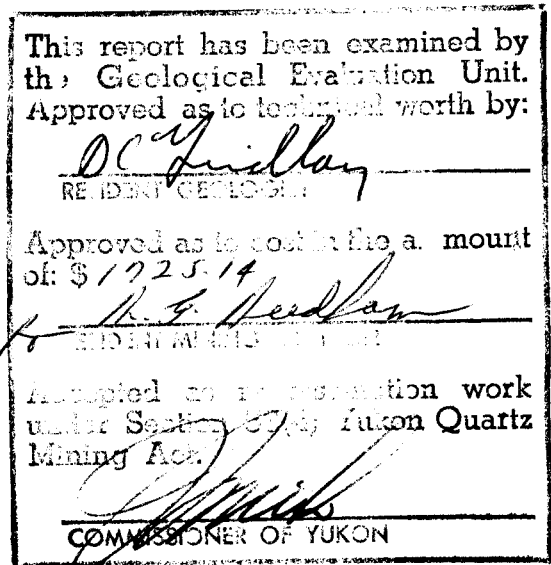
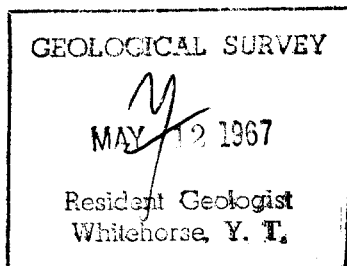
The accompanying report is submitted to apply as assessment on the PAIGE Claim Group.

The area covered is on claim map sheet 105 K/12.

Yours truly,

R.S. Adamson, P. Eng.
Chief of Exploration for
ANVIL MINING CORPORATION LIMITED

RSA/ew



GEOCHEMICAL REPORT

on

PAIGE CLAIM GROUP

(62°40'N, 133°55'W)

at

Two Pete Creek-Tay River in Yukon

for

ANVIL MINING CORPORATION LTD.

REPORT BY:

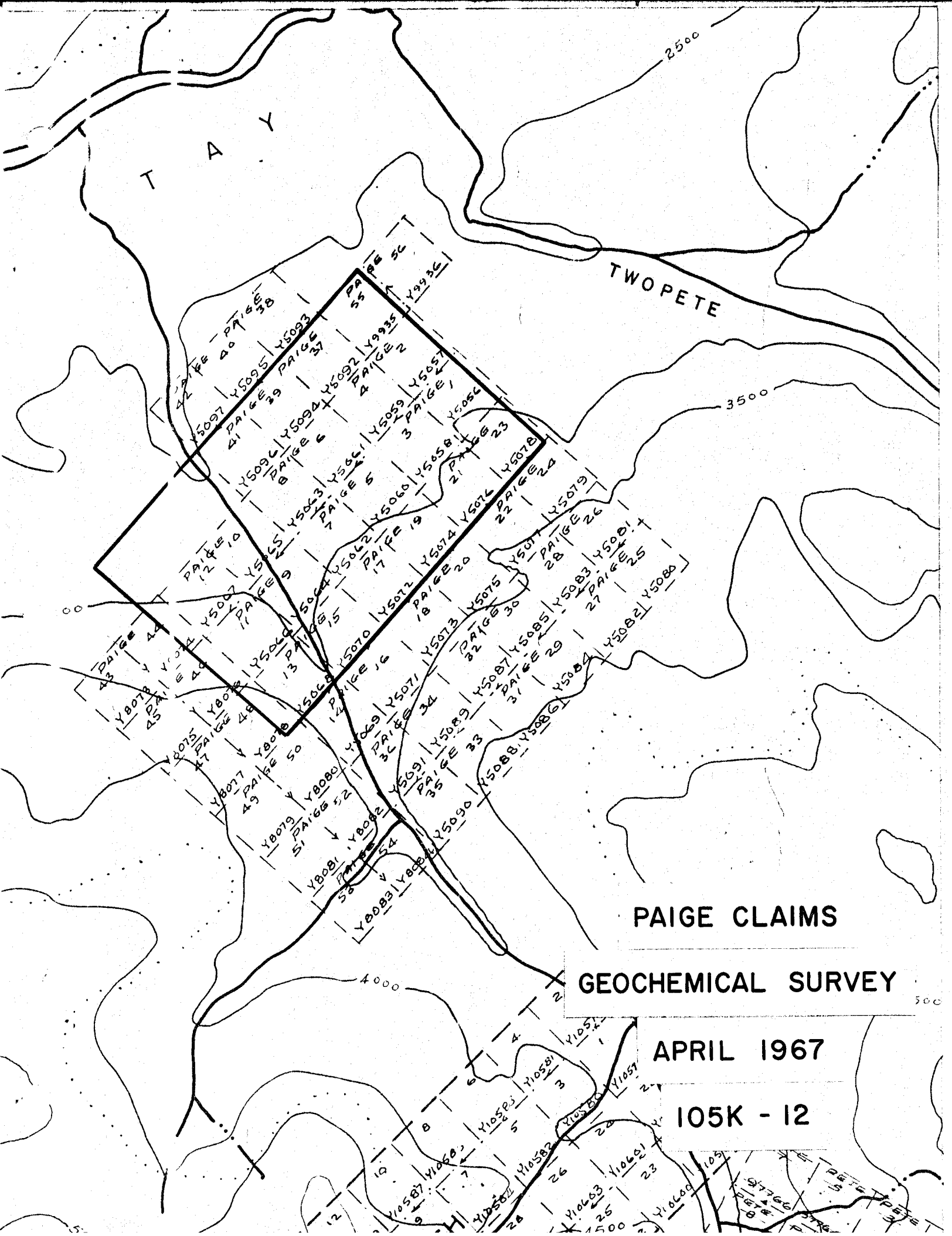
**R.S. Adamson, P. Eng.
Chief of Exploration for
ANVIL MINING CORP. LTD.**

GEOCHEMICAL SURVEY

PAIGE CLAIM GROUP

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TAY

TWO PETE

PAIGE CLAIMS

GEOCHEMICAL SURVEY

APRIL 1967

105K - 12

INTRODUCTION

A geochemical survey was carried out on the PAIGE mineral claim group during the period July 20 to 28, 1966. These claims are owned by ANVIL MINING CORP. LTD. and the work was done by company personnel except for the preparatory linecutting.

Linecutting was done by contract linecutters of White, Hosford and Impey Ltd. of Whitehorse, Y.T.

Access to the property by all people involved with the work on the ground during 1966 was by a BELL G-3B helicopter, based at Faro Camp, 27 miles southeast of the PAIGE property.

Acquisition of the PAIGE property was predicated on a large number of magnetic and electromagnetic anomalies detected as a result of an airborne geophysical survey. Reconnaissance silt and soil sampling of the area overlying the magnetic and conductive terrain indicated some high geochemical values in copper and zinc.

Subsequently, a grid geochemical survey in conjunction with a ground magnetic and electromagnetic survey was initiated.

Outcrops on the property are sparse. However, what outcrops are available reveal an underlying geological terrain consisting largely of argillites, somewhat graphitic, and folded steeply along

northwest axes. The sedimentary rocks have been invaded by andesite dykes and immediately to the north of the small lake a boss of granitic rock.

An east-west trending fault is considered to occupy the gulley which drains the small lake. Two prominent gossans have been located on the property, one of which occurs in the gulley. The other lies 3000 feet northeast.

The object of the geochemical survey was to establish relatively large and generally defined areas of possible valuable metal content which could be related to one or more of the airborne magnetic or electromagnetic anomalies.

SOIL SAMPLING SURVEY TECHNIQUES

A baseline was laid out with a transit and picket lines turned off at 400 foot intervals along the baseline by transit. Stations were established along the picket lines at 100 foot intervals.

Soil sampling was done at 200 foot intervals along the picket lines. Where possible the B horizon was sampled. However, no time was wasted obtaining the B horizon in the event permafrost prevailed or an organic soil was thicker than one foot. In the latter case the organic soil would be analyzed in the lab, when possible.

In general soil conditions on the PAIGE property were very poor and usually much organic soil was obtained. Consequently, of 744 samples taken in the field, only 429 were able to be analyzed.

LABORATORY ANALYSIS

Test methods used involved a hot aqua regia extraction of heavy metal ions from the soil sample, followed by reaction with dithizone or biquinoline to give coloured products. The coloured reaction products were then matched with solutions of known metal content, which had been reacted with dithizone or biquinoline, to determine the metal content of the soil sample.

Separate and specific tests for each of the three metals, copper, lead, and zinc were carried out on each soil sample.

RESULTS and INTERPRETATION

Of the three metals analyzed for only copper values above 60 parts per million and zinc values above 200 ppm might be considered anomalous. No significant lead values were revealed at all.

With the exception of two areas on the property, in general the copper and zinc values are erratic to the extent that grouping or contouring of the results is not justified.

Significantly, both these areas, designated Zones A and B respectively, have visible gossans in the immediate area. It is probable that in each case the gossan and nearby geochemical anomaly have a common bedrock source.

Further delineation of each of the geochemical zones is severely restricted by lack of soil sampling or analysis.

CONCLUSIONS and RECOMMENDATIONS

In general geochemistry has not been a very effective exploration tool on the PAIGE group, due primarily to the wide prevalence of permafrost and highly organic soil.

Two geochemical zones, A and B, have been rudely isolated in spite of the soil conditions. In addition they each appear to be related to nearby gossans. However, to establish the geochemical zones it is necessary to group anomalous copper and zinc values together. Otherwise, values are isolated and erratic, particularly in the case of copper.

Both geochemical zones A and B with their respective gossans in each case should be related to ground magnetic and electromagnetic anomalies outlined in conjunction with the geochemical survey. Should some direct relationship prevail then an induced polarization survey over the geochemical and geophysical anomalous area is recommended.

Further, during 1967 samples of the volcanic ash over and surrounding Zone A should be taken. Analysis of the ash samples may provide the only uniform soil conditions which can be expected on the PAIGE property.

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

APPENDIX I (1)

STATEMENT OF COSTS

Geochemical Survey PAIGE Group

(A)	Linecutting - Contract: White, Hosford & Impey Ltd. Submitted already for Geophysical Surveys		
(B)	Soil Sampling (744 samples)		\$ 768.00
	Wages 16 mandays @ \$15	\$ 240.00	
	Maintenance 16 mandays @ \$ 8 (w/cook)	128.00	
	Transportation, helicopter (4 trips FARO-PAIGE return) 4 hours @ \$100 per hour		
		<u>400.00</u>	
		\$ 768.00	
(C)	Laboratory Analysis (429 samples) 429 @ \$1.66 = \$ 712.14		\$ 712.14
(D)	Compilation of Report		\$ 130.00
	Draughting	\$ 40.00	
	Typing, clerical, printing	45.00	
	Writing	45.00	
		<u>130.00</u>	
		\$ 130.00	
(E)	Supervision		\$ 115.00
	R.S. Adamson 1 day @ \$45	\$ 45.00	
	D. Mayes 2 days @ \$35	70.00	
		<u>115.00</u>	
			\$ 1725.14

APPENDIX I (ii)

PERSONNEL

(A) Contract Linecutters

(B) Soil Sampling

D. Hansen	Soil Sampler	Box 2470, Whitehorse, Y.T.
K. Roth	Soil Sampler	Box 2470, Whitehorse, Y.T.

(C) Laboratory Analysis

J. Kirkland	Geochemist	Box 2470, Whitehorse, Y.T.
L. Olsen	Lab Assistant	Box 2470, Whitehorse, Y.T.
R. Pringle	Lab Assistant	Box 2470, Whitehorse, Y.T.
W. Rundle	Sample Preparation	Box 2470, Whitehorse, Y.T.

(D) Compilation of Report

W. Seidler	Draughtsman	Box 2470, Whitehorse, Y.T.
R.S. Adamson	Exploration Chief	Box 2470, Whitehorse, Y.T.

(E) Supervision

R.S. Adamson	Exploration Chief	Box 2470, Whitehorse, Y.T.
D. Mayes	Geologist	Box 2470, Whitehorse, Y.T.
J. Kirkland	Geochemist	Box 2470, Whitehorse, Y.T.
P. Byers	Lead Soil Sampler	Box 2470, Whitehorse, Y.T.

APPENDIX I (111)

A F F I D A V I T

SUPPORTING STATEMENT OF COSTS
Geochemical Survey
July 20 to 28, 1966

I, Robert S. Adamson, Chief of Exploration for ANVIL MINING CORPORATION LIMITED, have compiled the statement of costs as presented in this report "Geochemical Survey of PAIGE 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 PAIGE 1-13 inclusive, 15, 17, 19, 21, 23, 37, 39, 41, 43-48 inclusive, 55 mineral claims.



R. S. Adamson

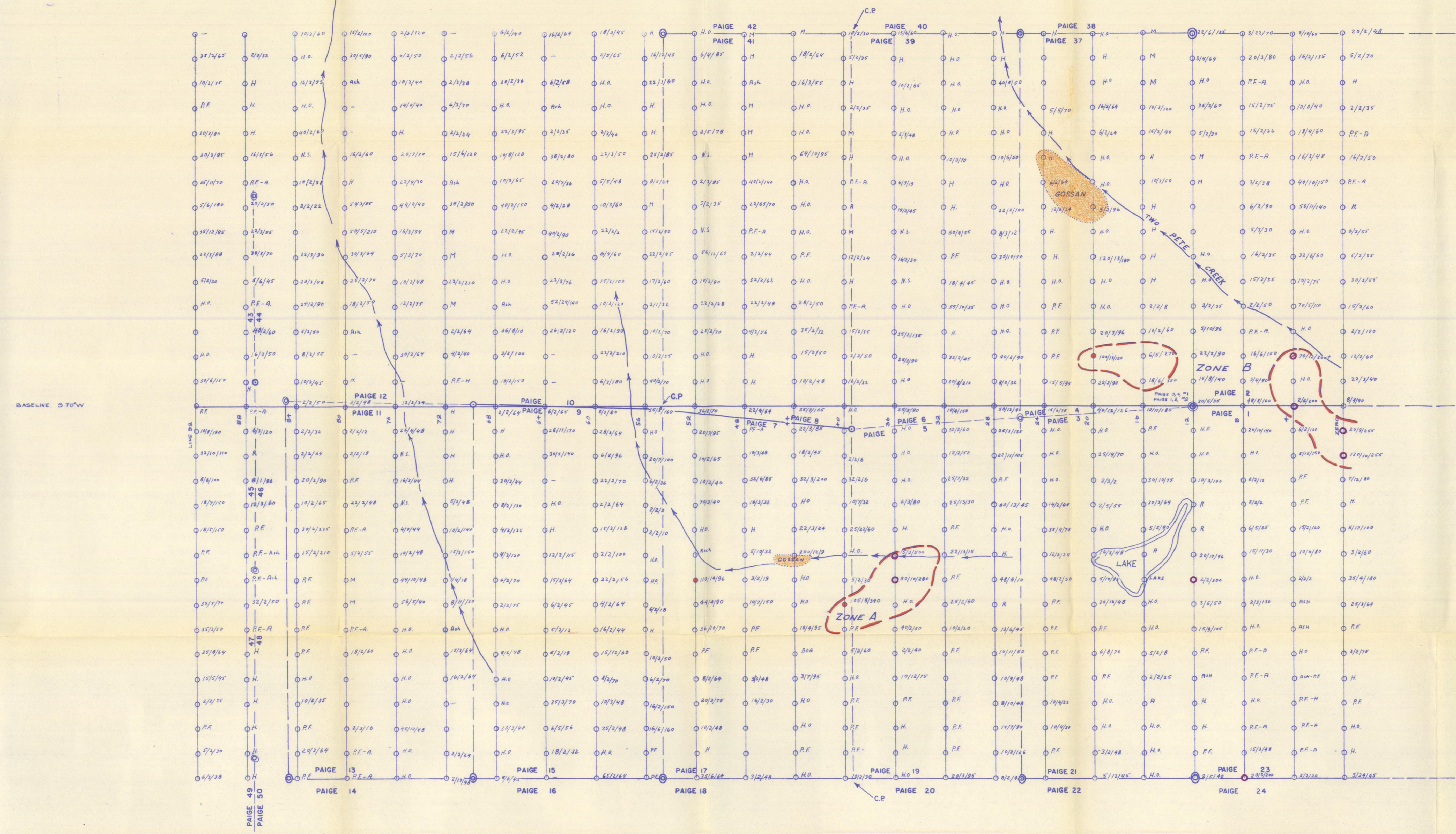
Robert S. Adamson, B.A.Sc., P. Eng.
Chief of Exploration for
ANVIL MINING CORPORATION LIMITED

DATED this *24* day of *April* 1967,
in the City of Whitehorse in the Yukon Territory.

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

LEGEND

- — SAMPLE LOCATION
- Y/S — ANALYSIS, Cu/Zn
- HO — HIGH ORGANIC
- PF — PERMAFROST
- ER — BROKEN IN LAB
- T.N.D. — TAKEN BUT NOT ANALYZED
- ⊙ — DEFINITE CLAIM POST
- ⊕ — APPROX. LOCATION OF CLAIM POST
- M — MUSKEE



ANOMALY ANALYSIS

- Copper 70-100 ppm
- Copper 100+ ppm
- Zinc 200+ ppm

ANVIL MINING CORP
WHITEHORSE Y.T.
PAIGE GEOCHEMISTRY
SCALE: 1" = 400'
SAMPLES TAKEN — 744
SAMPLES ANALYZED — 429
SAMPLED BY: ROTH — HANSON
SAMPLED: JULY 20.—28. 1966
DRAWN BY: W.D.S. CWA-16

GEOPHYSICAL REPORT

on

PAIGE CLAIM GROUP

(62°40'N, 133°55'W)

at

Two Pete Creek-Tay River in Yukon

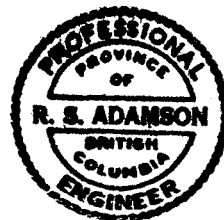
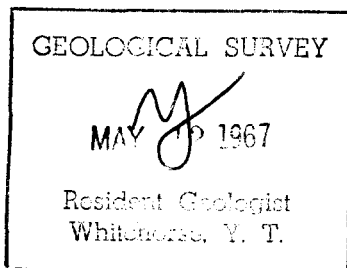
for

ANVIL MINING CORPORATION LIMITED

July 20 to August 2, 1966

Report by:

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



**GEOPHYSICAL SURVEY
PAIGE CLAIM GROUP**

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Electromagnetic Profiles	
Electromagnetic Contours	
Magnetic Profiles	
Magnetic Contours	
	MAP FOLDER

INTRODUCTION

A combined magnetic and electromagnetic geophysical survey was carried out by Explorations Geophysics (Yukon) Ltd. for Anvil Mining Corporation Ltd. on PAIGE mineral claims 1 to 13 inclusive, 15, 17, 19, 21, 23, 37, 39, 41, 44, 46, 48 and 55 during the period July 20 to August 2, 1966.

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

Access to the property by all people involved with the property during 1966 was by a BELL G3-B1 helicopter based at Faro Camp, 26 miles southeast of the PAIGE property

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 1000 gammas for electromagnetic and magnetics respectively. Contour maps have been developed and are submitted.

The only available published data of the Anvil Range area is a preliminary four mile to the inch map of the regional geology of the TAY RIVER map sheet done by Drs. J.A. Roddick and L.H. Green of the Canadian Geological Survey.

Outcrops on the property are sparse. However, what outcrops are available reveal an underlying geological terrain consisting largely of argillites, somewhat graphitic, and folded steeply along north-west axes. The sedimentary rocks have been invaded by andesite dykes and a small boss of granitic rock which lies immediately north of a small lake on the property.

An east-west trending fault is considered to occupy the gully which drains the small lake. Two prominent gossans have been located on the property, one of which occurs in the gully. The other lies 3800 feet northeast in the small valley containing Two Pete Creek.

SURVEY SPECIFICATIONS

Grid System

A baseline was laid out with a transit and picket lines turned off at 400 foot intervals along the baseline 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 baseline 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 baseline. 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 MM. 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). Contours were developed.

Upon plotting of the values followed by development of profiles and contours, in general two separate areas of high magnetics were outlined. The northwest zone, trending across lines 72 West to 92 West and located on the northwest part of the surveyed grid, exhibits a fairly firm anomalous area 400 feet wide by 2800 feet long with residual values up to 1300 gammas. The central zone on the other hand, reveals an area of extremely variable magnetics with a great deal of spot erratically high and low magnetic values. The area embraced by this magnetics is approximately 3000 feet by 5000 feet. An attempt has been made, both by contouring and developing of trends along profiles, to further delineate magnetic belts within this broad area of variable magnetics.

What trends have been established indicate that with regard to the northwest and central zones magnetic belts trend northwest. In general this is consistent with the strike of the bedding of the underlying sedimentary formations as well as the axes of indicated folding.

Visible disseminated pyrrhotite in outcrops on the central zone in all probability accounts for some of the magnetic effects. Some of the sharp high single reading effects are felt to reflect underlying basic dykes which have been noted in outcrop.

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 and contours of the high frequency electromagnetic readings were developed.

Analysis of the plotted electromagnetic results reveal that most of the surveyed area is underlain by conductive terrain. Approximately one fifth of the surveyed area, embracing mineral claims PAIGE 11, 12, 13, 43, 45, 46, 47 and 48, express virtually no conductive response (see map EWA-2).

Within the large conductive area, four fifths of the surveyed area, local erratic non-conductive readings occur.

In general, the large conductive area is considered to be caused by the graphitic nature of the dominantly argillaceous rocks that have been noted in outcrop on the surveyed area.

CONCLUSIONS and RECOMMENDATIONS

In view of the wide prevalence of conductive graphitic argillite on the PAIGE property, the electromagnetic survey contributes no direct information toward localizing a sulphide body on the property. This premise holds upon relating the electromagnetic results to those of both the magnetic and geochemical surveys carried out in conjunction with the electromagnetic survey.

Positive magnetic response on the property can be directly related to sulphide mineralization, pyrrhotite, which has been noted disseminated in outcrops. Some local high geochemical values indicate that potentially valuable base metals, copper and zinc, are associated with the pyrrhotite.

In summary, the positive magnetics, electromagnetics and local high geochemical values can be fully explained by uneconomic base metal bearing disseminated pyrrhotite in a graphitic argillite. This key area is bound on the north by the property baseline, on the west by line 52 west, on the east by line 20 west, and continues south of the baseline for 3000 feet. It remains to perhaps localize within this area a concentration of pyrrhotite carrying economic base metal sulphides.

Therefore, it is recommended that an induced polarization survey be carried out over lines 32, 40, 48 west from the baseline south for 3000 feet. This survey should be conducted at three different search levels in order to ascertain whether sulphide content of the rocks increases at depth with respect to that at the surface.

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

APPENDIX I (1)

STATEMENT OF COSTS

Geophysical Survey PAIGE Group

(A) Linecutting: Contract - White, Hosford & Impey Ltd.		\$ 3548.53
Invoices submitted	\$ 2548.43	
Transportation, helicopter		
10 trips @ 1 hr. per trip		
@ \$100 FARO-PAIGE return	1000.00	
 (B) Geophysical Survey: Contract - Explorations Geophysics (Yukon) Limited		3157.25
Invoices submitted	\$ 2349.25	
Transportation, helicopter	600.00	
6 trips @ 1 hr. per trip		
@ \$100 FARO-PAIGE return		
Maintenance: 26 man days		
@ \$8 (w/cook)	208.00	
(24 man days on invoices plus 2 days for D. Mayes)		
	<hr/>	
	\$ 3157.25	
 (C) Compilation of Report		100.00
Typing, clerical, draughting, printing	\$ 55.00	
Writing	45.00	
	<hr/>	
	\$ 100.00	
 (D) Supervision		115.00
R.S. Adamson 1 day @ \$45	\$ 45.00	
D. Mayes 2 days @ \$35	70.00	
	<hr/>	
	\$ 115.00	

\$ 6920.48

APPENDIX I (ii)

PERSONNEL

(A) Linecutting - White, Hosford & Impey Limited
Contract

(B) Geophysics - Exploration Geophysics (Yukon) Ltd.

W. Cannon	Party Chief	Box 1188, Whitehorse, Y.T.
V. Lund	E.M. Operator	Box 1188, Whitehorse, Y.T.
P. Walsh	E.M. Operator	Box 1188, Whitehorse, Y.T.
J. Gehring	Magnetometer	Box 1188, Whitehorse, Y.T.

(C) Compilation of Report

R.S. Adamson	Exploration Chief	Box 2470, Whitehorse, Y.T.
W. Seidler	Draughtsman	Box 2470, Whitehorse, Y.T.

(D) Supervision

R.S. Adamson	Exploration Chief	Box 2470, Whitehorse, Y.T.
D. Mayes	Geologist	Box 2470, Whitehorse, Y.T.

APPENDIX I (111)

A F F I D A V I T

SUPPORTING STATEMENT OF COSTS
Geophysical Report
July 20 to August 31, 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 PAIGE 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 PAIGE 1-13 inclusive, 15, 17, 19, 21, 23, 37, 39, 41, 43-48 inclusive, 55 mineral claims.



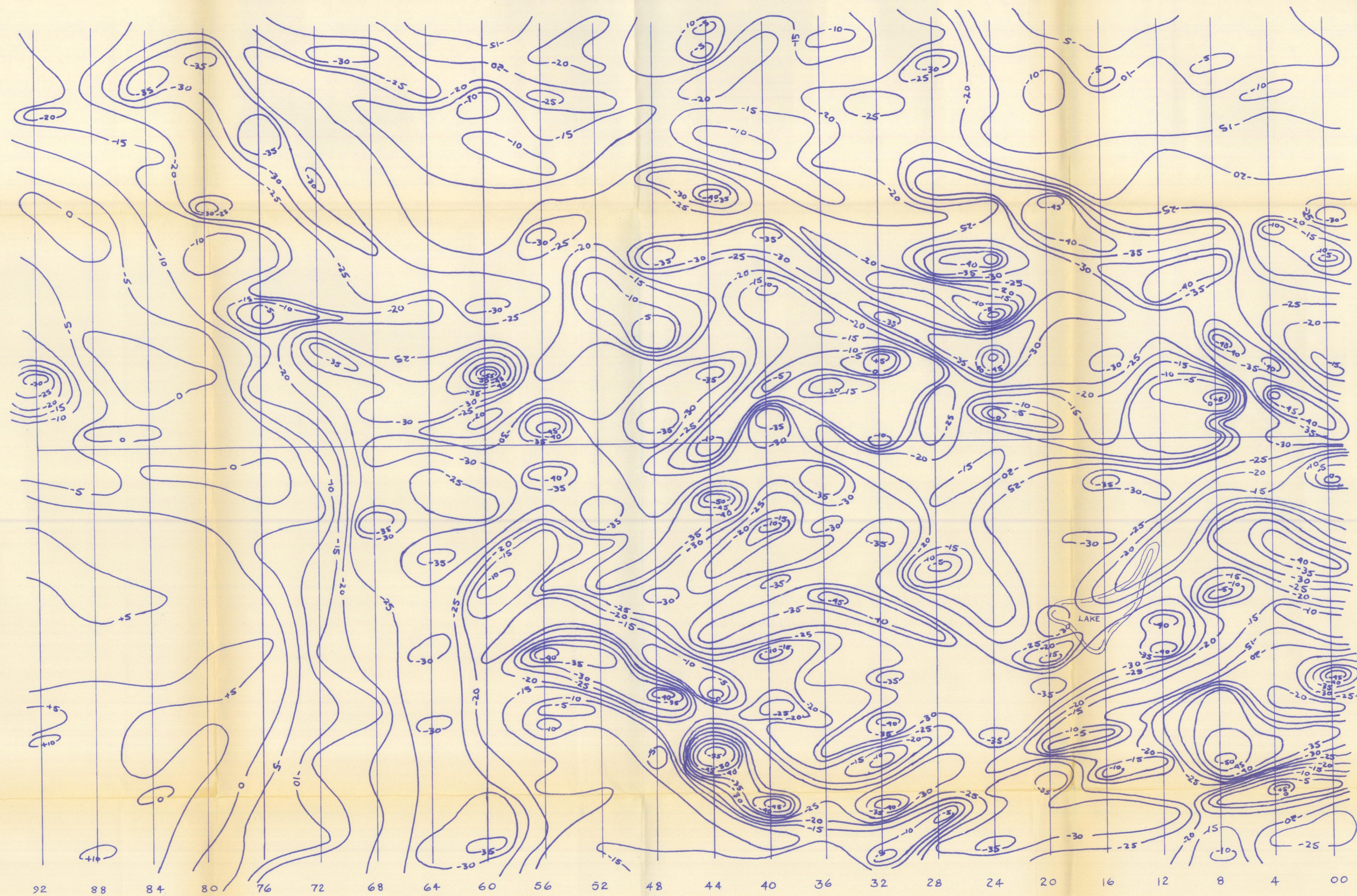
R. S. Adamson

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

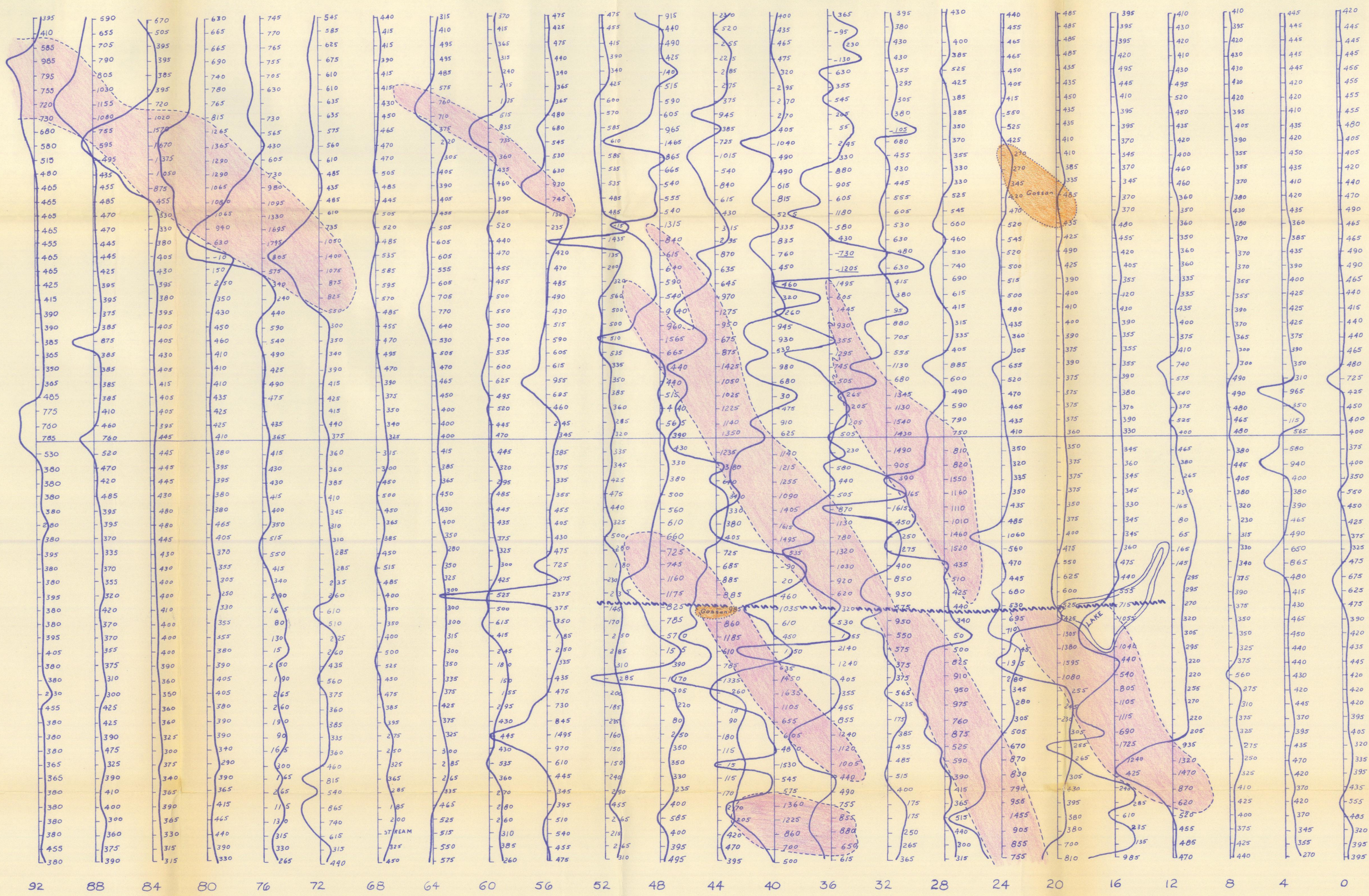
DATED this... *24*day of... *April*196*6*,

in the City of Whitehorse in the Yukon Territory.

Robert S. Adamson



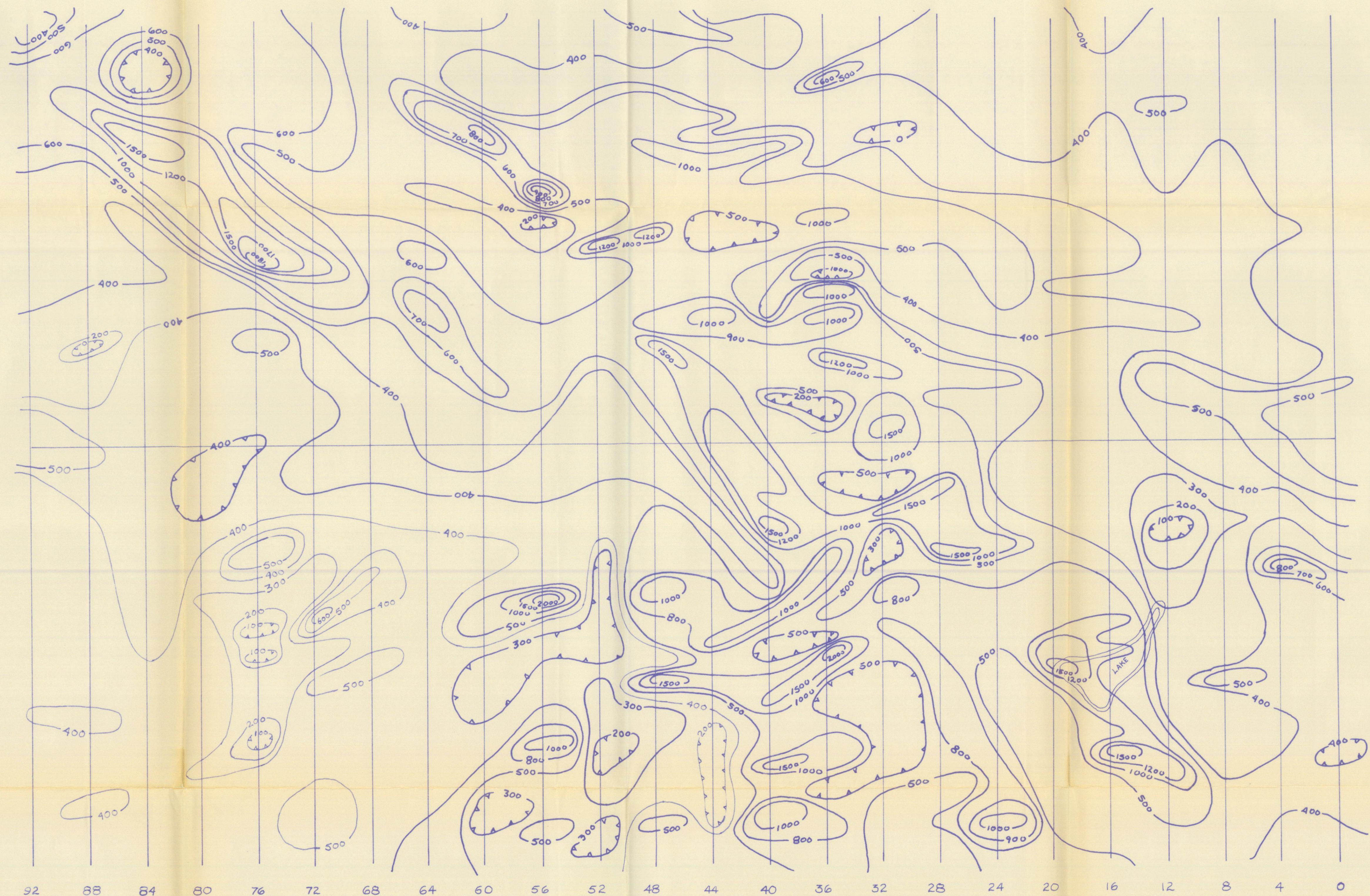
ANVIL MINING CORP. - WHITEHORSE -	
PAIGE GROUP ELECTROMAGNETIC SURVEY EXPLORATION BY GEOPHYSICS (YUKON) LTD.	
SURVEY DATE : JULY 18 - JULY 30 1966 OPERATORS : LUND, WALSH, GEHRING CONTOUR INTERVAL : 5' DIP RDS. INTERVAL : 100' INST SPACING : 400'	
DATE : SEPT. 20, 1966 SCALE : 1" = 100' CRONE HORIZONTAL LOOP SURVEY DRN: W. CANNON	DWG No. EWA-18 FILE:



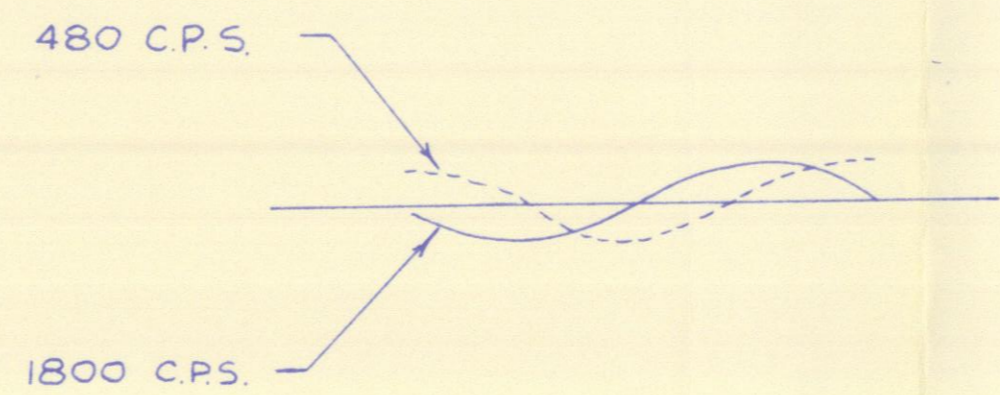
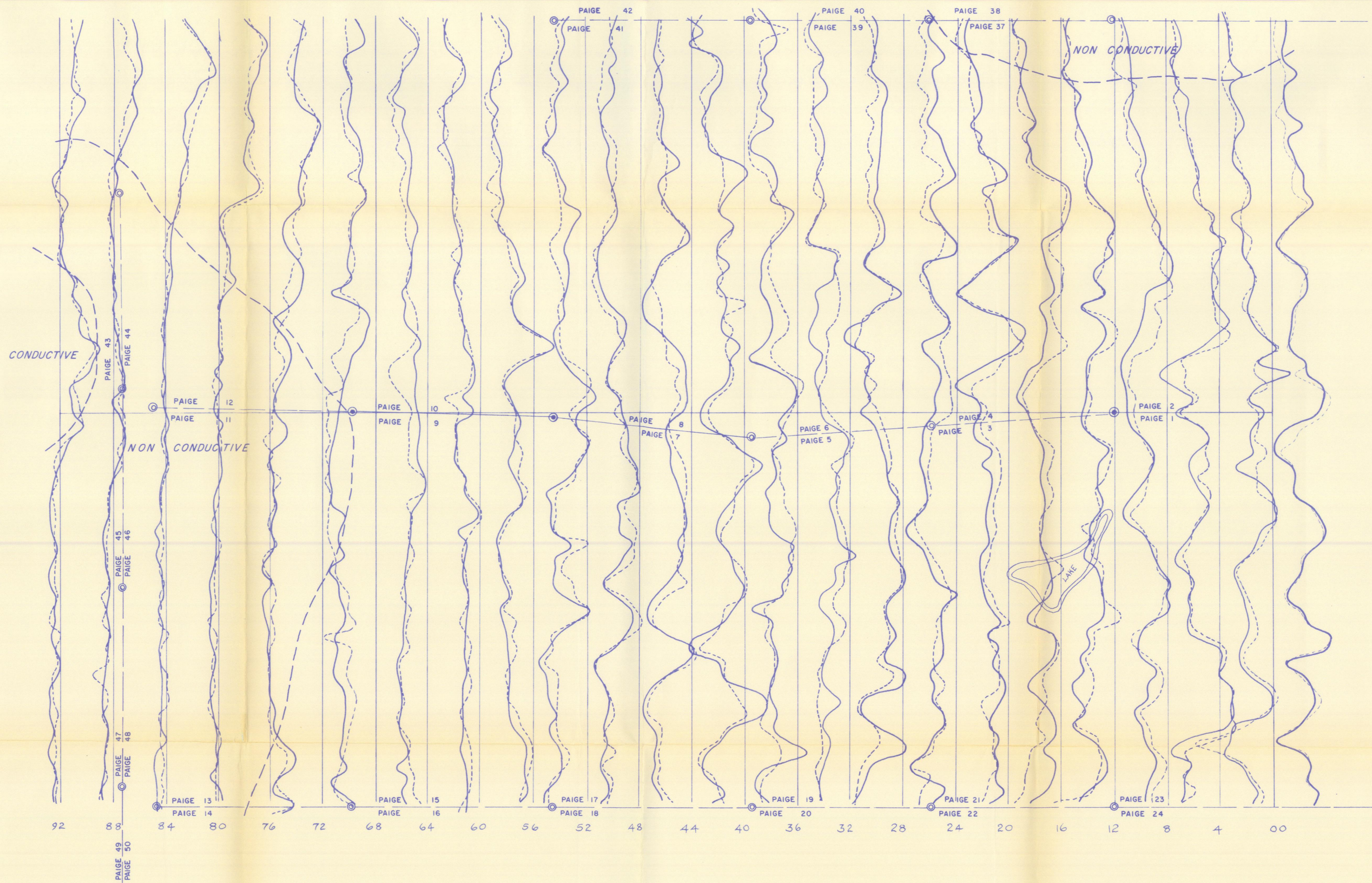
92 88 84 80 76 72 68 64 60 56 52 48 44 40 36 32 28 24 20 16 12 8 4 0

LEGEND
MAGNETIC TRENDS

ANVIL MINING CORP.	
- WHITEHORSE -	
PAIGE	GROUP
MAGNETIC	SURVEY
EXPLORATION	BY GEOPHYSICS (YUKON) LTD.
SURVEY DATE : JULY 18 - JULY 30 1966	
OPERATORS : LUND, WALSH, GEHRING.	
MAG DATUM LEVEL: 5000' ±	
PROFILE SCALE : 1000' = 1"	
DATE : SEPT 20 1966	DWG No.
SCALE : 1" = 400'	EWA-19
DRN : W CANNON	FILE :



ANVIL MINING CORP. - WHITEHORSE -	
PAIGE GROUP MAGNETIC SURVEY	
EXPLORATION BY GEOPHYSICS (YUKON) LTD.	
SURVEY DATE : JULY 18 - JULY 30 1966 OPERATORS : LUND, WALSH, GEHRING CONTOUR INTERVAL : 100', 500' RDG. INTERVAL : 100' MAG. DATUM LEVEL : 5000' ±	
DATE : SEPT 20 1966 SCALE : 1"=400' DRN : W CANNON.	DWG No. EWA-20 FILE:



ANVIL MINING CORP. -WHITEHORSE-	
PAIGE GROUP ELECTROMAGNETIC SURVEY	
EXPLORATION	BY GEOPHYSICS (YUKON) LTD.
SURVEY DATE : JULY 18 - JULY 30 1966	
OPERATORS : LUND, WALSH, GEHRING	
PROFILE SCALE : 1"=40' DIP	
RDG INTERVAL : 100'	
INST. SPACING : 400'	
DATE : SEPT 20 1966	DWG No.
SCALE : 1"=400' CRONE HORIZONTAL LOOP SURVEY	EWA-21
DRN : W. CANNON.	FILE