

REPORT ON  
A MAGNETIC AND ELECTROMAGNETIC SURVEY  
AT ROSE CREEK, YUKON  
(62°17' N, 133°20' W)

FOR  
ANVIL MINING CORPORATION LIMITED

BY

EXPLORATION GEOPHYSICS (YUKON) LTD.

WHITEHORSE, YUKON

APRIL 1966



Report by: R.S. Adamson, B.A.Sc., P.Eng.,  
Chief of Exploration for  
Anvil Mining Corporation Ltd.

April 18th to 24th, 1966.

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GROUND GEOPHYSICAL INVESTIGATIONS

GAL CLAIM GROUP

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MAP FOLDER

Magnetic results and profiles

Electromagnetic results and profiles

Linecutting map

GROUND GEOPHYSICAL INVESTIGATIONS

GAL CLAIM GROUP

INTROUDCTION

Between April 18th and April 24th, 1966, a combined magnetic and electromagnetic geophysical survey was carried out by Exploration Geophysics (Yukon) Limited, for Anvil Mining Corporation Limited. The survey area was covered by 14 mineral claims (GAL 28, 30, 32, and 34 to 44 inclusive) located in the Rose Creek area in the Whitehorse Mining District of the Yukon Territory (62°17'N, 133°20'W).

The geophysical crew was supervised by Mr. Robert Chaplin and Mr. John S. Brock, both of Exploration Geophysics (Yukon) Limited. Survey decisions were made in consultation with Mr. Robert S. Adamson. The geophysical crew consisted of Mr. G. Cannon, Mr. A Rolston, and Mr. G. Grady. Draughting and typing were done in the Whitehorse Office of Anvil Mining Corporation Limited.

The geophysical survey covered 12.8 line miles of magnetometer surveying and 10.0 line miles of electromagnetic surveying.

Considerably more linecutting was done on the GAL 1-44 claim block in order to prepare grids for further geophysical work later on during the 1966 season, should it be deemed necessary in the light of results obtained on this present geophysical survey.

In all, a total of 17,160 feet on base line was cut and surveyed, and 124,500 feet of picket line cut and chained.

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 20 degrees and 1 inch to 333 gammas for electromagnetics and magnetics respectively.

The only available published data of the Rose Creek area is a preliminary 4 mile to the inch map of the regional Geology of the Tay River map sheet done by Mr. J.A. Roddick and Mr. L.H. Green of the Canadian Geological Survey.

#### SURVEY SPECIFICATIONS

##### Grid System

A base line, 17,160 feet long was cut and surveyed for the entire length of the GAL 1-44 claim group. Picket lines were turned off by transit perpendicularly at 400 foot intervals along the base line. Grids were established over areas known to be anomalous as a result of previous airborne magnetic and electromagnetic surveys. Stations were established at 100 foot intervals along the picket lines that were cut and chained over these areas. Picket line cutting and chaining totalled 124,500 feet. Only a portion of the cut grid has been used for geophysical surveys so far.

### Magnetometer Survey

A Sharpe's MF-1 Fluxgate type vertical component magnetometer was used during the entire magnetic survey. The 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 1,000 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 hour as a means of controlling drift and diurnal variations. A total of 12.8 line miles of magnetic survey was run.

### 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 1,800 cps) and may be used either as a vertical or horizontal loop system.

In contrast to the magnetometer survey which was run along the base line 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).

Magnetically there is nothing of any anomalous significance. What little magnetic reflection was revealed occurs on lines 52+00W, 56+00W, 60+00W, and 64+00W from approximately 800 North to 1,500 North (Grid north). Background is about 500 gammas and these small anomalies range from 50 gammas to 300 gammas in magnitude.

### Electromagnetic Survey

The electromagnetic results were plotted using the same scale and grid pattern as used for the magnetics. Profiles were drawn to a standard scale (map folder).

A very well defined zone of highly anomalous conductivity occurs on GAL claims 36 and 38. It is approximately 1,000 feet wide, extends for 1,600 feet northwesterly, and remains open at

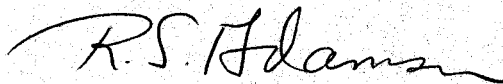
both ends. The resultant dip angle of this very impressive anomaly averages  $-25^{\circ}$ .

#### CONCLUSIONS AND RECOMMENDATIONS

In that no positive magnetics coincides with the highly conductive anomaly the conclusion is that if this reflects sulphide mineralization then the sulphides would be pyrrhotite- (or magnetite)-barren. However, known sulphide bodies discovered in the Anvil camp to date all contain pyrrhotite; hence have usually some positive magnetic reflection.

It may be, however, that massive ore bodies do occur with pyrite rather than pyrrhotite so that significant electromagnetic anomalies should not be totally negated on a magnetic basis.

It is recommended that, rather than drill this anomaly, which is probably a graphitic schist formation, a soil sampling survey be carried out over the anomalous area to see if potentially economic sulphides do occur in the area's vicinity. ✓



Robert S. Adamson, B.A.Sc., P.Eng.  
Chief of Exploration for  
Anvil Mining Corporation Limited.

APPENDIX I (i)

STATEMENT OF COSTS:-

Ground Geophysical Surveys,  
GAL 1-44 Mineral Claims.

(A) Contract Linecutting:

- 1) Baseline cut and surveyed 17,160 ft  
(80 W to 92 E)  
Cost at \$250 per line mile . . . . . \$ 812.00
- 2) Picket lines cut and chained 124,500 ft.  
Cost at \$77.50 per line mile . . . . . 1,828.00

TOTAL Linecutting (contract) cost . . . . . \$ ~~2,630.00~~<sup>4</sup>

(B) Contract Geophysics:

(Combined magnetics and electromagnetics)

Invoice submitted . . . . . \$ 859.00

(C) Geophysical Crew Maintenance

4 men for 7 days at <sup>high</sup> \$8 per day . . . . . \$ 224.00

(D) Reduction of data and preparation of report . . . . \$ 200.00

(E) Camp Erection . . . . . \$ 300.00

(F) Transportation

Helicopter, bombardier, truck . . . . . \$ 300.00

TOTAL . . . . \$ ~~4,513.00~~<sup>2</sup>

APPENDIX I (ii)

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

D. Nielsen	-	Party Chief,	Box 1188,	Whitehorse,	Yukon.
F. Charlie	-	Linecutter,	"	"	"
M. Ladue	-	"	"	"	"
M. Shorty	-	"	"	"	"
J. Ollie	-	"	"	"	"
L. Johnny	-	"	"	"	"
V. Johnny	-	"	"	"	"
M. Johnny	-	Cook,	"	"	"

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

R. Chaplin	-	Supervisor,	Box 1188,	Whitehorse,	Yukon.
G. Cannon	-	E.M. Operator,	"	"	"
A. Rolston	-	E.M. Operator,	"	"	"
G. Grady	-	Magnetometer,	"	"	"

(C) E. Gray - Cook, Box 2470, Whitehorse, Yukon.

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

(E) F. Foran - Field Expeditor,  
Box 2470, Whitehorse, Yukon.

N. McCreesh - Labourer, Box 2470, Whitehorse, Yukon.

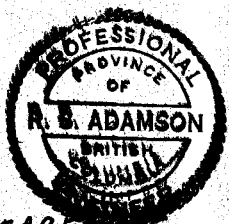
APPENDIX I (iii)

A F F I D A V I T

Supporting Statement of Costs,  
Geophysical Surveys,  
GAL 1-44 Mineral Claims -  
April 18th to 24th, 1966.

I, ROBERT S. ADAMSON, Chief of Exploration for ANVIL MINING CORPORATION LIMITED, have compiled the statement of costs as presented in this report "Magnetic and Electromagnetic Survey of the GAL 1-44 Mineral Claims", 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 representation work on the GAL 1-44 mineral claims.



*R. S. Adamson*

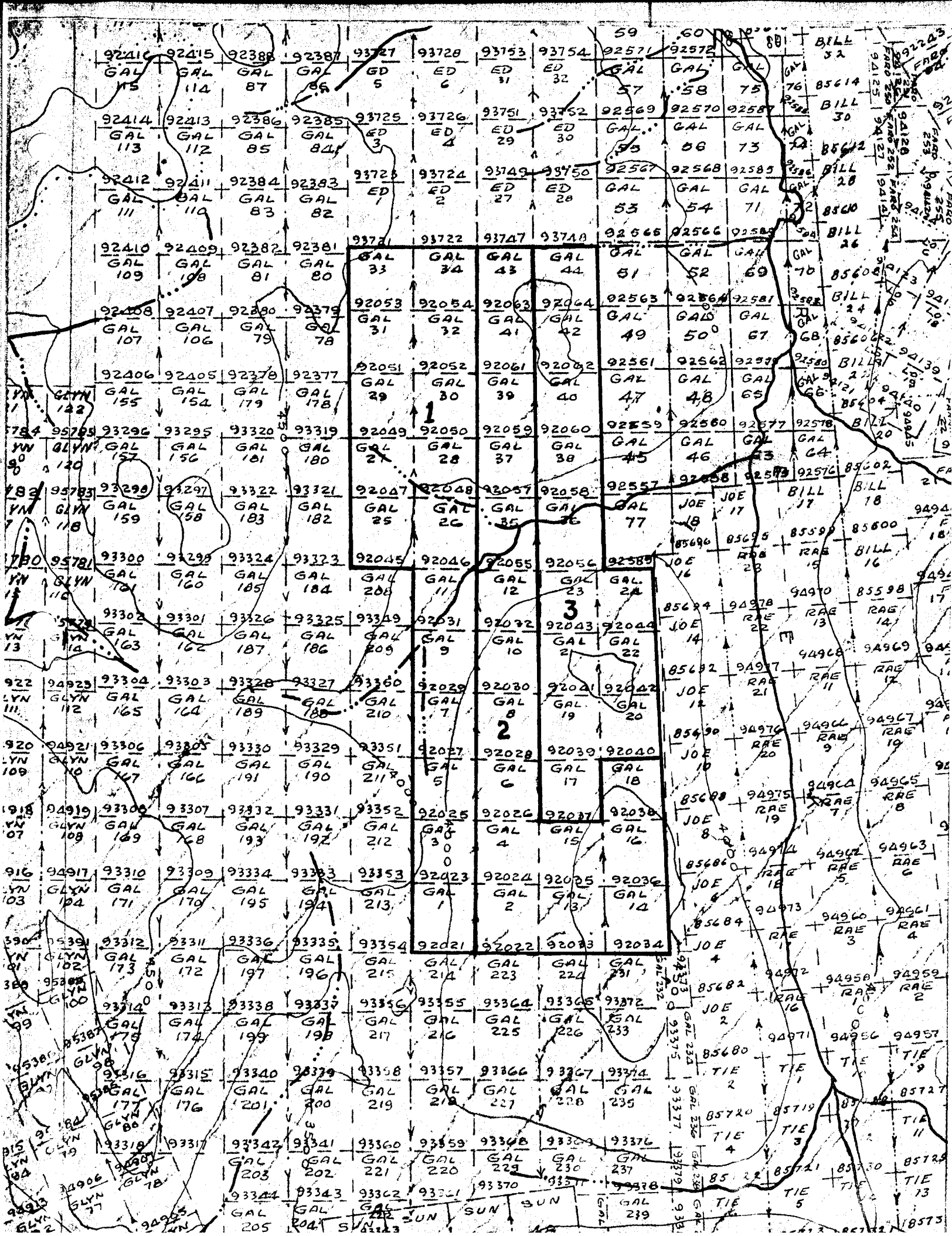
Robert S. Adamson, B.A.Sc., P.Eng.,  
Chief of Exploration for  
Anvil Mining Corporation Limited.

SWORN BEFORE ME

~~DATE~~ this . 30 . day of MAY, 1966, in the City of Whitehorse  
in the Yukon Territory.

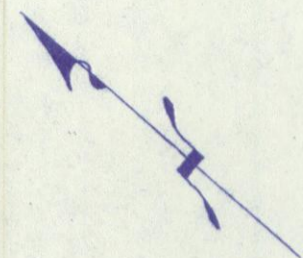
*[Signature]*

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



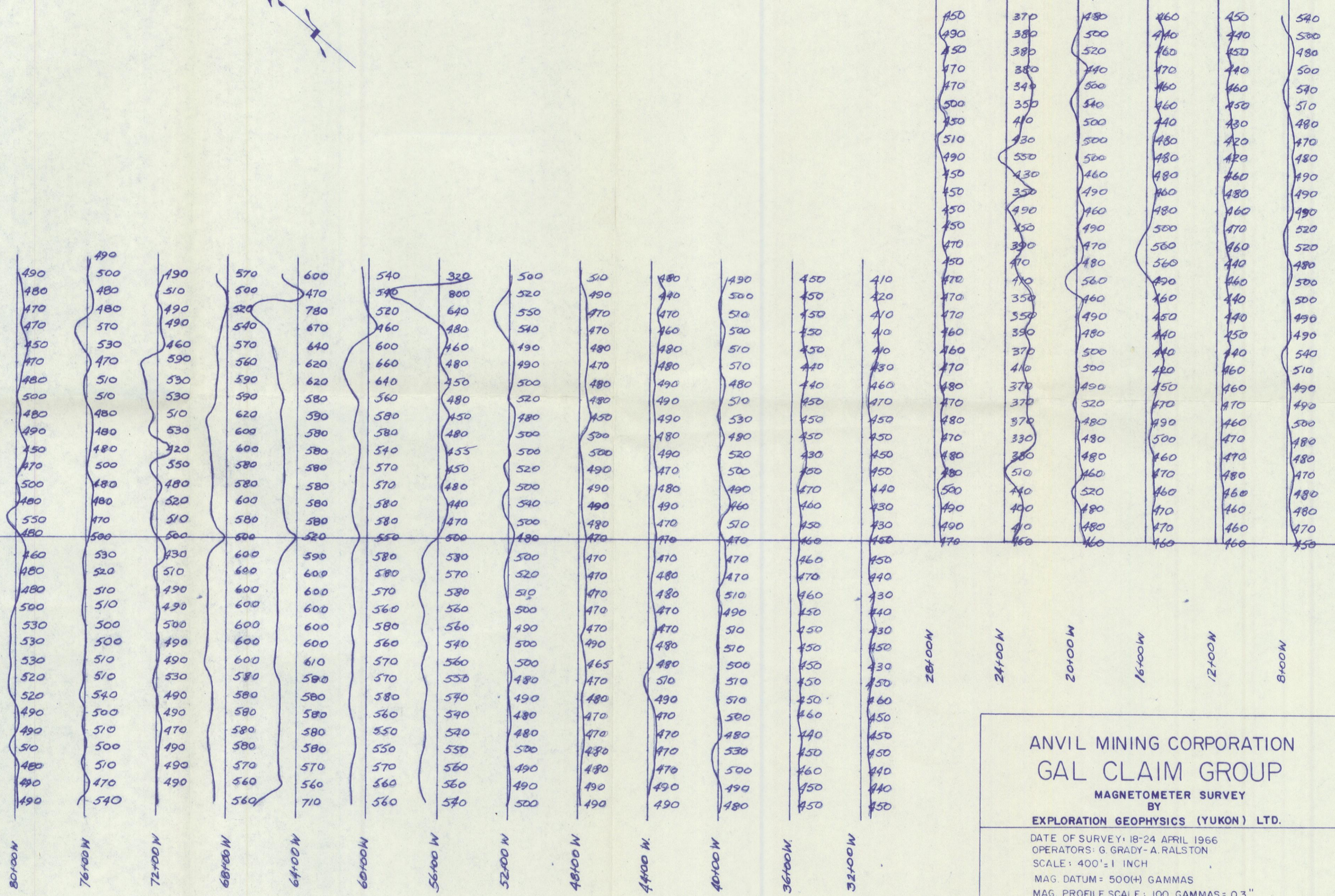
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92414 GAL 113	92413 GAL 112	92386 GAL 85	92385 GAL 84	93725 ED 3	93726 ED 4	93751 ED 29	93752 ED 30	92569 GAL 55	92570 GAL 56	75	BILL 30
92412 GAL 111	92411 GAL 110	92384 GAL 83	92383 GAL 82	93723 ED 1	93724 ED 2	93749 ED 27	93750 ED 28	92567 GAL 53	92568 GAL 54	72	BILL 28
92410 GAL 109	92409 GAL 108	92382 GAL 81	92381 GAL 80	93721 GAL 33	93722 GAL 34	93747 GAL 43	93748 GAL 44	92565 GAL 51	92566 GAL 52	69	BILL 26
92408 GAL 107	92407 GAL 106	92380 GAL 79	92379 GAL 78	92053 GAL 31	92054 GAL 32	92063 GAL 41	92064 GAL 42	92563 GAL 49	92564 GAL 50	67	BILL 24
92406 GAL 155	92405 GAL 154	92378 GAL 179	92377 GAL 178	92051 GAL 29	92052 GAL 30	92061 GAL 39	92062 GAL 40	92561 GAL 47	92562 GAL 48	65	BILL 22
92404 GAL 157	92403 GAL 156	92396 GAL 181	92395 GAL 180	92049 GAL 27	92050 GAL 28	92059 GAL 37	92060 GAL 38	92559 GAL 45	92560 GAL 46	63	BILL 20
92402 GAL 159	92401 GAL 158	92398 GAL 183	92397 GAL 182	92047 GAL 25	92048 GAL 26	92057 GAL 35	92058 GAL 36	92557 GAL 77	JOE 18	JOE 17	BILL 18
92400 GAL 161	92399 GAL 160	92324 GAL 185	92323 GAL 184	92045 GAL 208	92046 GAL 11	92055 GAL 12	92056 GAL 23	92555 GAL 24	JOE 16	JOE 23	BILL 16
92398 GAL 163	92397 GAL 162	92326 GAL 187	92325 GAL 186	92043 GAL 209	92044 GAL 9	92072 GAL 10	92043 GAL 22	92044 GAL 22	JOE 14	JOE 22	BILL 14
92396 GAL 165	92395 GAL 164	92328 GAL 189	92327 GAL 188	92041 GAL 210	92039 GAL 7	92030 GAL 8	92041 GAL 19	92042 GAL 20	JOE 12	JOE 21	BILL 12
92394 GAL 167	92393 GAL 166	92330 GAL 191	92329 GAL 190	92039 GAL 211	92037 GAL 5	92028 GAL 6	92039 GAL 17	92040 GAL 18	JOE 10	JOE 20	BILL 10
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92386 GAL 175	92385 GAL 174	92338 GAL 199	92337 GAL 198	92031 GAL 217	92029 GAL 216	92034 GAL 225	92035 GAL 226	92036 GAL 233	JOE 2	JOE 16	BILL 2
92384 GAL 177	92383 GAL 176	92340 GAL 201	92339 GAL 200	92029 GAL 219	92027 GAL 218	92036 GAL 227	92037 GAL 228	92038 GAL 235	TIE 2	TIE 1	BILL 2
92382 GAL 179	92381 GAL 178	92342 GAL 203	92341 GAL 202	92027 GAL 221	92025 GAL 220	92038 GAL 229	92039 GAL 230	92040 GAL 237	TIE 4	TIE 3	BILL 4
92380 GAL 181	92379 GAL 180	92344 GAL 205	92343 GAL 204	92025 GAL 223	92023 GAL 222	92039 GAL 231	92040 GAL 232	92041 GAL 239	TIE 2	TIE 5	BILL 2

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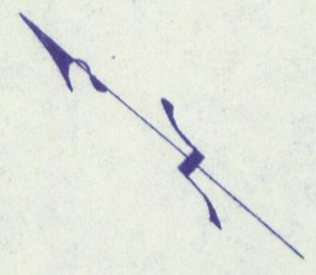


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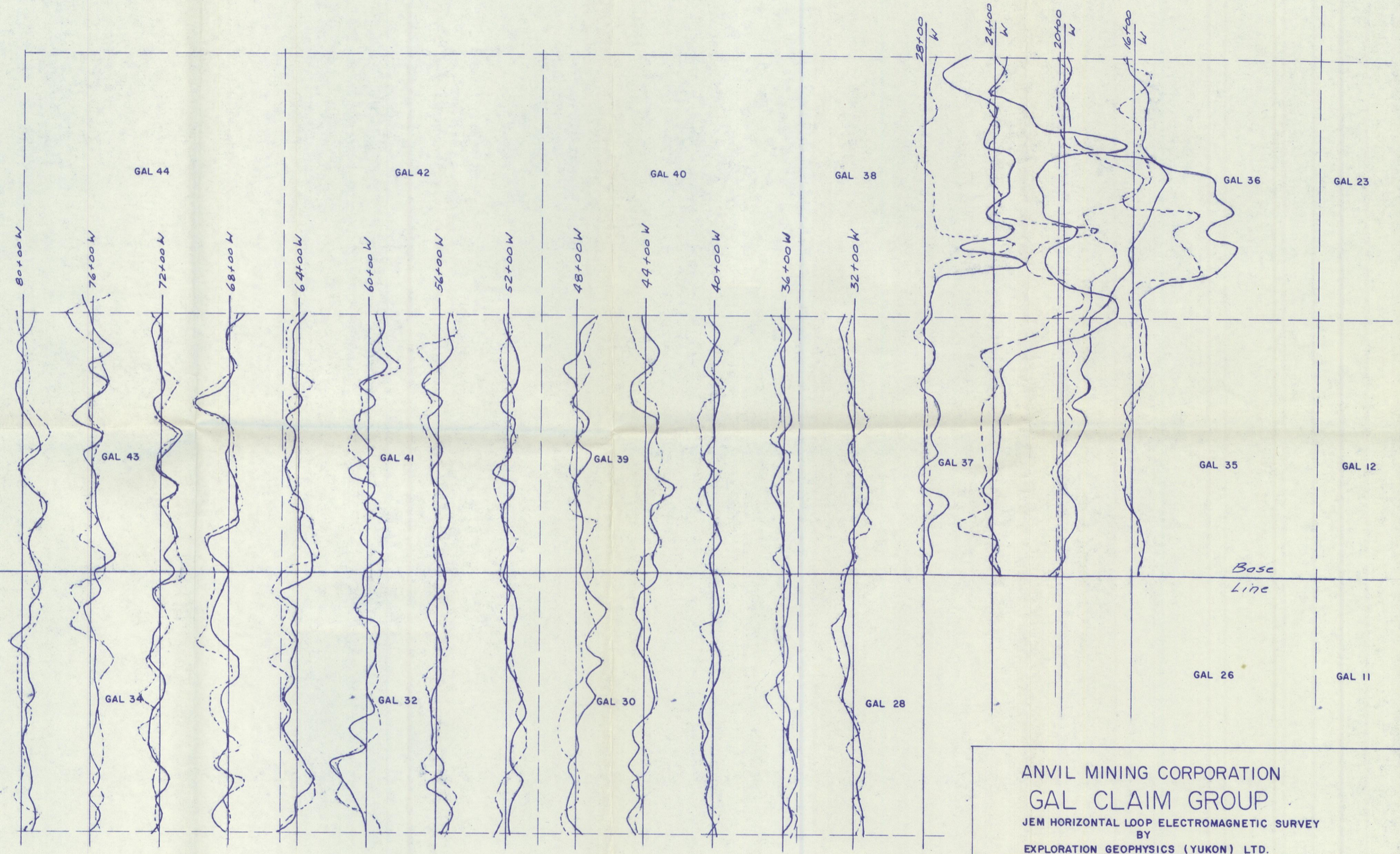
Base Line



ANVIL MINING CORPORATION  
 GAL CLAIM GROUP  
 MAGNETOMETER SURVEY  
 BY  
 EXPLORATION GEOPHYSICS (YUKON) LTD.  
 DATE OF SURVEY: 18-24 APRIL 1966  
 OPERATORS: G. GRADY - A. RALSTON  
 SCALE: 400' = 1 INCH  
 MAG. DATUM = 500(+) GAMMAS  
 MAG. PROFILE SCALE: 100 GAMMAS = 0.3"

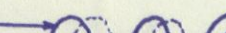



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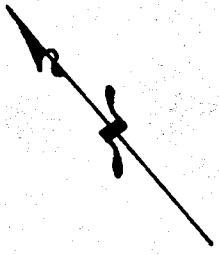


ANVIL MINING CORPORATION  
**GAL CLAIM GROUP**  
 JEM HORIZONTAL LOOP ELECTROMAGNETIC SURVEY  
 BY  
 EXPLORATION GEOPHYSICS (YUKON) LTD.

DATE OF SURVEY: 18-24 APRIL 1966  
 OPERATORS: G. CANNON - A. RALSTON  
 SCALE: 400' = 1 INCH  
 E.M. PROFILE SCALE: 1" = 20° RES. DIP

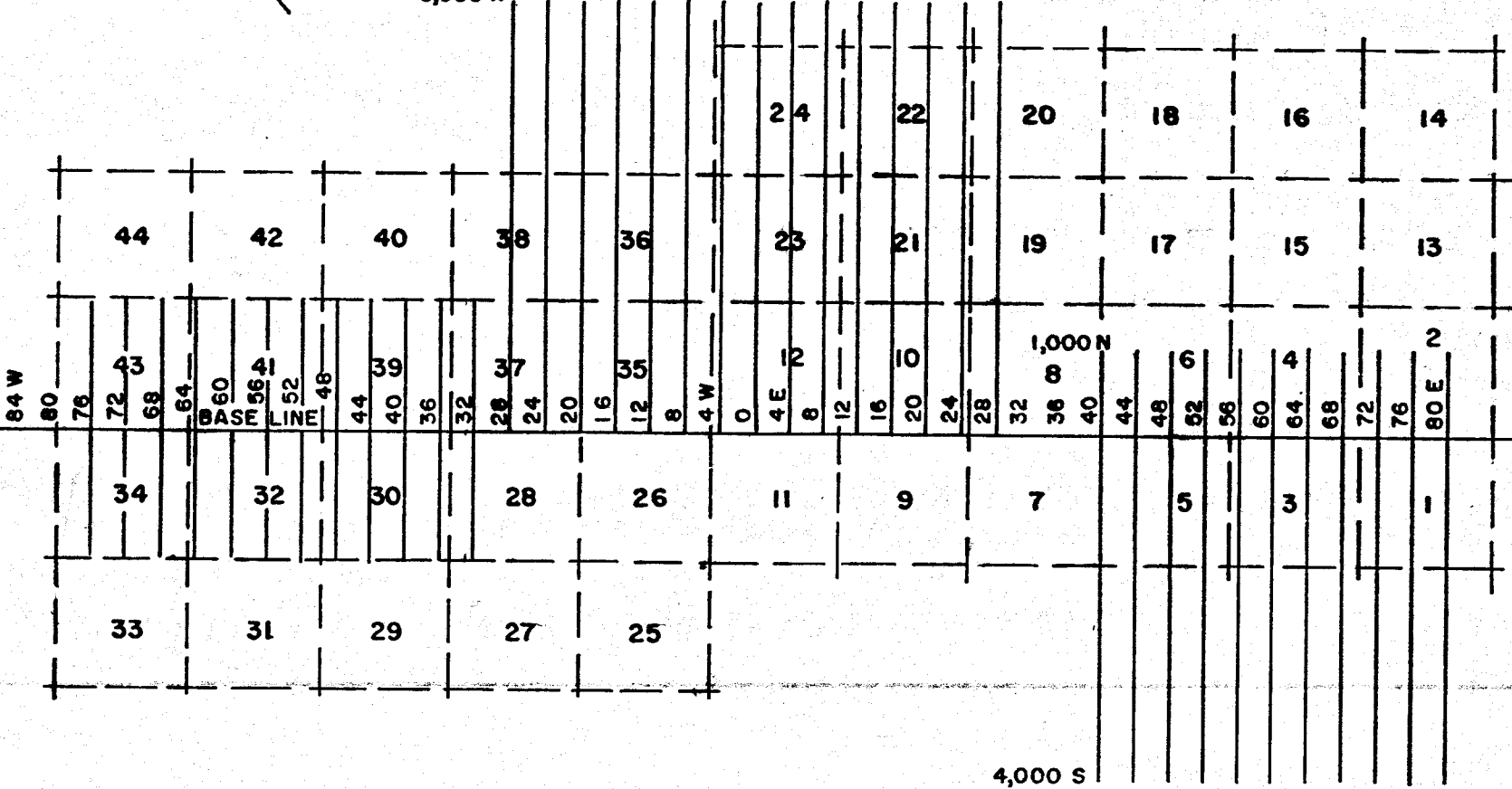
HIGH (1800 C.P.S.) FREQUENCY  + res. dip  
 LOW (480 C.P.S.) FREQUENCY  - res. dip

PSW



**GAL GROUP**

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4,000 S

<b>ANVIL MINING CORP.</b>	
<b>WHITE HORSE</b>	
LINE CUTTING GRID	
DATE: 5-4-66	DRAWING NO
SCALE: 1"=2,000'	<b>WD-6</b>
DRAWN BY: <i>SM</i>	FILE: