

GEOFYSICAL REPORT

on the

AIRBORNE MAGNETOMETER
AIRBORNE ELECTROMAGNETIC
AIRBORNE RADIOACTIVITY

SURVEYS

of the

JAY, HOL and NATIVE CLAIMS

HOLBERG INLET

Nanaimo Mining Division

British Columbia

Latitude 50°37' North; Longitude 127°56' West

92 L / 12 W

HOLBERG MINES LTD. (N.P.L.)

Airborne Surveys by: Waterton Airex Ltd

Interpretation by: Weymark Engineering Ltd

5 June 1972

3771

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3771 MAP

HOLBERG MINES LTD. (N.P.L.)

Jay, Hol and Native Claims

Nanaimo Mining Division

British Columbia

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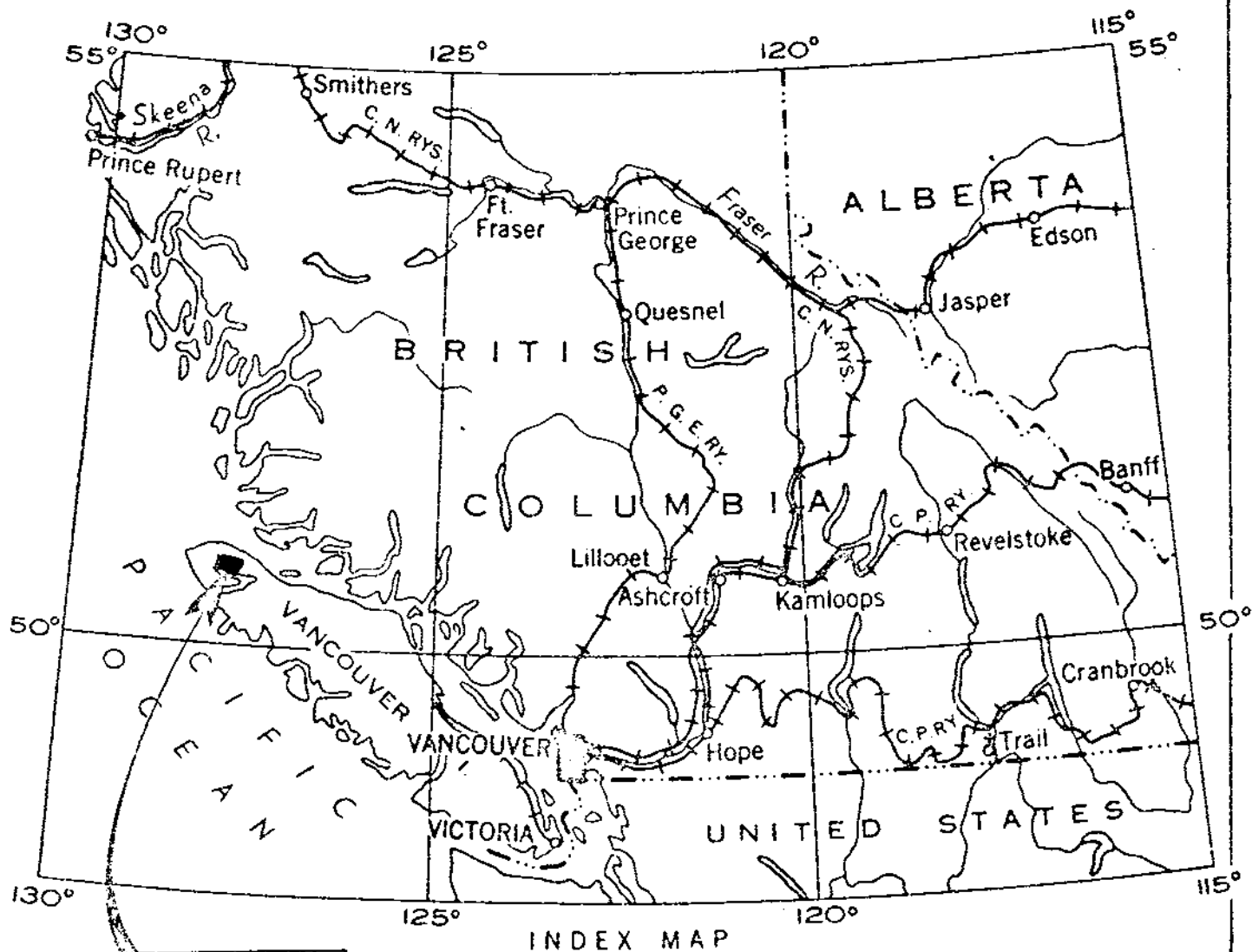
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HOLBERG MINES LTD
NATIVE CREEK DRAINAGE AREA

Location

HOLBERG MINES LTD. (N.P.L.)
NATIVE CREEK DRAINAGE AREA, HOLBERG INLET
NAHALHO MINING DIVISION
BRITISH COLUMBIA

3771 M-1

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 3771 MAP #1

HM 1770

WEYMARK ENGINEERING LTD.

Consulting Engineers

3310 WESTMOUNT ROAD
WEST VANCOUVER, B.C.
CANADA

TELEPHONE
922-1536

5 June 1972

Holberg Mines Ltd (N.P.L.)
709 Dunsmuir Street
Vancouver 1, B.C.

Gentlemen: Re: Aerial Geophysical Surveys
Jay, Hol and Native Claims
Native Creek, Holberg Inlet
Nanaimo Mining Division
British Columbia

I am pleased to submit for your information this Report of the Results of the Aerial Geophysical Surveys completed on the 3rd May 1972 by Waterton Airex Ltd., Sidney British Columbia and the interpretation by W. J. Weymark P. Eng., of the field readings, of the Jay, Hol, Native Claims, Native Creek, Holberg Inlet area, Nanaimo Mining Division, British Columbia.

Background technical references relating to the Jay, Hol, and Native Claims are given in Report entitled Programme of Field Investigation, Native Creek Headwaters Area, Holberg Mineral Property, Nanaimo Mining Division, British Columbia dated 15 May 1970 by Weymark Engineering Ltd. These aerial geophysical surveys were conducted in accordance with the recommended programme of field investigations given in that Report.

1.0 Property:

The area covered by the aerial geophysical surveys involved the Jay, Hol and Native Mineral Claims and adjacent areas.

The following details relate to the mineral claims designations:

<u>Claim Name</u>	<u>Staking Date</u>	<u>Record Number</u>	<u>Record Date</u>
Jay 1-10 incl	26 October 1967	21103 - 12	31 October 67
Hol 1- 6 incl	12 November 1969	30248 - 53	26 Nov. 1969
Native 1-8 incl	19 November 1969	30254 - 61	24 Nov. 1969
Native 9-12 "	20 November 1969	30262 - 65	24 Nov. 1969
Native 13-18 "	21 November 1969	30266 - 71	24 Nov. 1969
Native 19-23 "	22 November 1969	30272 - 76	24 Nov. 1969
Native 25	22 November 1969	30278	24 Nov. 1969

The Jay claims are in good standing until 31 October 1972, the Hol Claims until November 26, 1972 and the Native Claims until 24 th November 1972.

Reference is to Figure 1 for general location.

2.0 Location: The Native Creek Claims are located in the Nanaimo Mining Division, the Rupert Land District, Quatsino Sound, Holberg Inlet, Glerup-Native Creeks area, Vancouver Island, British Columbia. The geographic reference is $127^{\circ}56''$ West and $50^{\circ}37'$ North approximately. The holdings are about 250 air miles North Westerly from Vancouver and 25 miles South-Westerly from Port Hardy. They are reached by way of automobile road from the village of Holberg via Port Hardy by air service or pick-up type transportation via the restricted road connecting Holberg-Port Hardy-Gold River to Provincial Highway No. 19 at Campbell River.

Reference is to Figures 1,2 and 3 for location details.

3.0 Geology: The predominant rock formations in the Native Creek area consist of volcanic flows and beds, medium to dark green-gray in colour, sometimes porphyritic or with amygdaloids of calcite, chlorite, quartz, epidote or the zeolite group. An overcap of limestone prevails from elevations of 350 feet above sea level to 1150 feet, which in places has been eroded. The main zone-formation of interest, from a copper bearing point of view is the dillage porphyry intrusive estending southeasterly from Claims Posts #1 of Hol Nos 1 and 2. The intrusive varies in width from 10-15 feet to over 200 feet, Appearing in other sections are related flat-lying sills, a few feet in thickness, which may be offshoots from the main body. Copper mineralization occurs within this intrusive body as primary bornite and chalcopyrite. Near the contact with the volcanics are zones containing considerable sulphides as well as hematite rich sections. These altered zones extend for some distance from the intrusive and in places, the fractures and joints are copper bearing with native copper and such secondary minerals as azurite, malachite and bornite.

The geological setting is appropriate for geophysical testing methods for the localizing of metallic sulphide containing host rock formations.

4.0 Geophysical Surveys:

In accordance with the programme of investigations recommended in the Report of 15 May 1970, an airborne geophysical survey of the Holberg holdings and adjacent areas was conducted under contract by Waterton Airex Ltd. of Sidney British Columbia in May 1972. It was completed on the 3rd of May 1972. It consisted of combined aeromagnetic, electromagnetic and radioactivity tests.

The survey covered an area of about 3000 acres, involving 16 runs of 16,500 feet in length. These runs were 500 feet apart and were flown to a true bearing of 116° or alternatively 296° . Readings were taken at every 500-foot interval and flight lines were 500 feet above ground cover.

The plane was captained by Claude Waterton, VRS-536 Senior Commercial, the co-pilot was Gerald Jeronen, both of Sidney British Columbia. The flight plan was filed with the D.O.T. Port Hardy. Figure 2 shows the location of the flight lines and Figure 3 gives the readings for each of the surveys.

Appendix 1 contains details relating to the aircraft and instrumentation used.

Figure 4 shows the extent and location of the interpreted anomalous zones referenced to ground mapping and Figure 5 shows the profiles.

Referring to Figs 3 and 5, it will be noted that:-

- the variation in Radioactivity readings ranged from zero to 1/100 MR/HR
- the variation in Electromagnetic readings ranged from zero to 15 (x.1 microamps)
- the variation in magnetometer readings varied from -10 to +12 (x 100) gammas. Differences are recorded referenced to a background of 53, 000 gammas.

For the radioactivity and electromagnetic tests, background was dialed out.

Results:

Referring to Figure 5, it will be noted that there is in general a correlation pattern between the magnetometer and electromagnetic readings. The greatest disparity occurs between low magnetometer and high electromagnetic readings such as on:-

Flight line 1 - Readings	17, 20, 31, 32
Flight line 2 - Readings	nil
Flight line 3 - Readings	16, 27
Flight line 4 - Readings	3, 12, 13
Flight line 5 - Readings	4, 31, 32, 33
Flight line 6 - Readings	5, 17,
Flight line 7 - Readings	11, 15, 17, 29, 30
Flight line 8 - Readings	23, 33
Flight line 9 - Readings	11, 23, 27, 33
Flight line 10- Readings	nil
Flight line 11- Readings	7, 8, 9, 11, 12, 14, 25, 29, 32
Flight line 12- Readings	4, 5, 14
Flight line 13- Readings	5, 7, 12, 22, 26, 27, 31
Flight line 14- Readings	8, 11, 14, 22
Flight line 15- Readings	3, 11, 12, 13, 14, 19, 29, 30, 32

Figure 4 depicts the coincidence of the low magnetometer and the high electromagnetic zone readings. The margins represent sections of steep gradients and therefor zones of anomalous characteristics. With the instrumentation used, low readings for magnetometer indicate paths with magnetic included minerals and high electromagnetic readings depict paths with sulphide mineralization. This pattern is confirmed in the mapped areas, as shown on Fig 4 geology.

The trend of the magnetometer influences to the northwest, whereas that for the electromagnetic is more northerly.

Increased radioactivity appears to trend northeasterly and centers on either side of an indicated influence between reading rows 16 and 25.

Of particular interest are the anomalous zones outlined in the areas capped with limestone, - lines 2-7, reading rows 17-23. Investigation of metallic mineralization opportunities in these areas will require subsurface investigation techniques.

5.0 Summary Conclusions:

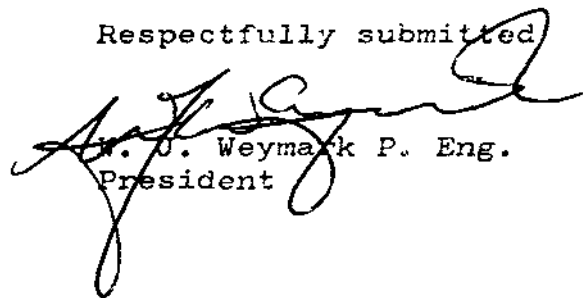
The results of the surveys, as presently interpreted are:

1. There is a coincidence between the known metallic mineralization containing formations and the low-magnetometer and the high-electromagnetometer reading zones.
2. Fault structural zones indicate anomalous patterns
3. Extensions of anomalous zones under limestone capped formations provide areas of interest because of high intensities implied. Further ground geological information is required.

6.0 Recommendations:

On the bases of the results obtained from the relating geophysical surveys referred to in this report, it is considered that further field investigations are warranted and that the next phases of the programme presented in the 5th May 1971 Report be initiated in order to assess the metallic mineral potentialities of the Jay, Hol and Native Claims holdings of Holberg Mines Ltd. (N.P.L.), Nanaimo Mining Division, British Columbia.

Respectfully submitted



W. J. Weymark P. Eng.
President

APPENDICES

CERTIFICATE

I, William James Weymark, P. Eng., Consulting Engineer President of Weymark Engineering Ltd., of the District of West Vancouver, of the Province of British Columbia hereby certify that:

1. I am a graduate of Mining Engineering of Queen's University, Kingston, Ontario, B. Sc., 1940 and have been practising my profession for twenty-five years.
2. I am a practising Consulting Engineer and reside at 3310 Westmount Road, West Vancouver, Province of British Columbia.
3. I am a member of the Association of Professional Engineers of the Province of British Columbia and also of the Consulting Engineers' Division of the Association of Professional Engineers of British Columbia.
4. I am a member of the Canadian Institute of Mining and Metallurgy, of the American Institute of Mining, Metallurgical and Petroleum Engineers and of the American Geophysical Union.
5. I have no direct or indirect interest whatsoever in Holberg Mines Ltd., (N.P.L.) or do I expect to receive any interest, direct or indirect in the properties of Holberg Mines Ltd., (N.P.L.) or any affiliate or any security of the company or affiliate.
6. The findings of the accompanying report are based on my personal examinations of the Jay, Hol and Native Mineral Claims in April 1970 and subsequent review of the available information and of the geophysical readings of the surveys conducted by Waterton Airex Ltd of Sidney, British Columbia.

DATED at West Vancouver, British Columbia this 5th day of June 1972.

William J. Weymark, P. Eng.
President


Weymark Engineering Ltd.

APPENDIX 11

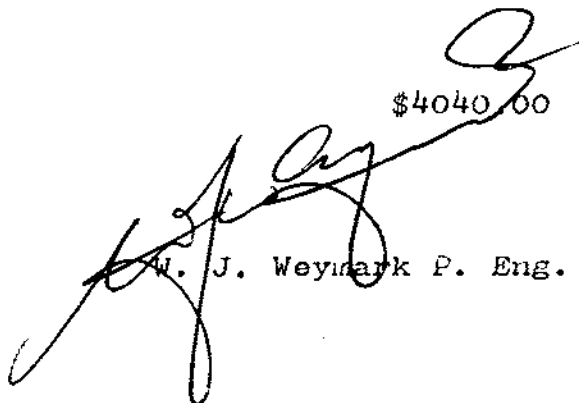
COST DISTRIBUTION

1. Waterton Airex Ltd. conducting airborne magnetometer, electromagnetic and radioactivity readings at 500-ft intervals, 50 miles flight lines Jay, Hol and Native Mineral Claims, Nanaimo Mining Division.....\$ 640.00

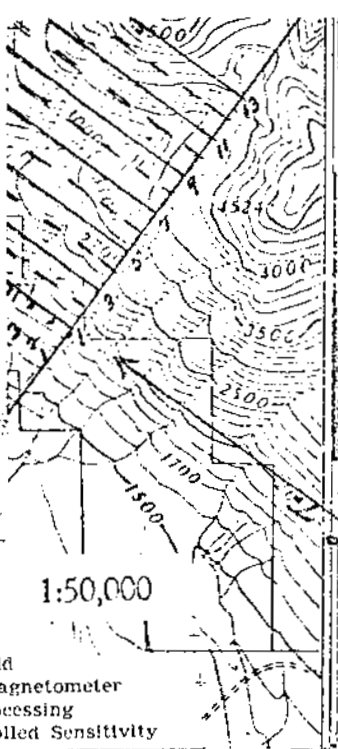
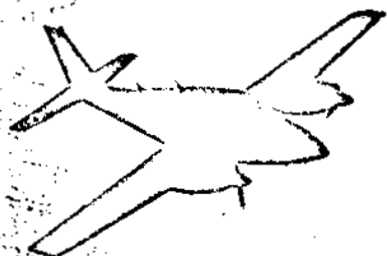
2. Weymark Engineering Ltd. interpretation of geophysical survey readings, correlations and preparation and submission of Report dated 5 June 1972\$3400.00

Total

\$4040.00



W. J. Weymark P. Eng.



			Appendix - 1				
3	05° 02' 07"						
2	05° 02' 07"						
1	05° 02' 07"						
		1	2	3	4	5	6

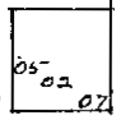
WATERTON AIREX LTD.

AIRBORNE GEOPHYSICS
(Incorporated 1964)

- Patented Combined Method
- Total Radioactivity
- Selective Radioactive Threshold
- Electromagnetic + Magnetometer
- Computer Processing
- Controlled Sensitivity

GRID SCALE: 1000' TO 1 INCH

- HIGH MAG. +
- LOW MAG. -
- ELECTROMAGNETIC
- RADIOACTIVITY



- ELECTROMAGNETIC .7 MICROAMPS
- RADIOACTIVITY .002 MR/HR.
- MAGNETOMETER 500 GAMMAS

VICTORIA INTERNATIONAL AIRPORT BOX 436 SIDNEY, B.C., CANADA PHONE 656-2194

Proven in Western and Northern Canada for the highest degree of accuracy at the lowest cost. \$10. Per lineal mile including base and positioning expenses on average surveys.

A 400 square mile area costing \$10,000. taking three weeks could put your ground party a year or more ahead in their exploration program.

By the use of the combination method ~~and our E.S. indicator~~ 80% of the unproductive anomalies can be calculated out of the survey which results in keeping the ground follow up costs to a minimum.

- Electromagnetic: Waterton quadrature system. Tran. on 1,000 CPS. Rec. in units of .1 Microamps.
- Magnetometer: Sharpe PMF-3 or McPhar M700 modified to our method. Flux-gate in units of 10 to 100 Gammas.
- Radioactivity: Detectron - DR299, 24 tubes. Rec. in units of .001 MR/HR, total count.
- Threshold: McPhar TV-5 Crystal Positions 1.3 - 1.63 - 2.5 Nev.

Grid supplied in scales of 1,000 to 2,000 feet per inch with clear overlays showing the anomalous areas.

Ground checks over mountain areas have found the accuracy to be within 500 feet on a 500 foot grid and capable of disseminated sulphide detection.

Over 15,000 lineal miles of reconnaissance and assessment assistance completed in 40 different areas by the end of 1970.

Operations range up to 400 miles from base.

Aircraft type: Cherokee 235 - Twin Comanche.



Our patented method incorporates the combined readings from a flux-gate magnetometer, a nucliometer and a miniaturized electromagnetic unit. The readings are recorded instantly on film and timed electrically to enable the readings to be entered on a grid of a chosen scale.

To obtain anomalies of most value level lines are flown in a certain plane and a fixed wing aircraft is chosen as the most suitable vehicle for this purpose.

Any inaccuracy in the timed readings due to airspeed error is calculated out before the readings are entered on the grid.

The instruments are set on "0" over a predetermined spot near the survey area and this adjustment is made after each $1\frac{1}{2}$ hours. The survey flying is done in certain conditions and at certain times of the day.

Station-keeping is accomplished by electrical counter, reference to topographical features, directional gyro set from compass or astro compass and a set flying technique. Ground checks from over twenty mountainous areas have found the accuracy of this method to be between 250 feet and 500 feet on a 500 foot grid.

Anomalies are plotted from the grid on to transparent sheets and the resulting overlays give us the combination anomalies which, in our experience, have been the most successful.

Magnetometer: PNF-3 Sharpe or McPhar M-700 is used when adjusted to our method. Readings are in units of 100 gammas for mineral reconnaissance and in units of 10 gammas for oil reconnaissance.

Electromagnetic: Built by our company to a miniature scale to enable us to use small aircraft to keep the cost of survey to our rates. With the sensitivity set at 30%, disseminated sulphides usually read in the 3 to 5 range and heavy sulphides in the 10 to 15 range on a scale division of 25.

The transmitted electrical field is from 200 feet of copper wire attached to the bottom of the aircraft in the horizontal plane and power is taken from the aircraft generator and built up to required strength by the field transmitter which operates in the 1,000 CPS range. A small 10 oz bird is drawn behind the aircraft powered by its own mercury cell and its receiving coil is in the vertical, 90° to the transmitted field. A booster receiver in the aircraft produces the received signal in units of .1 microamperes.

Nucliometer: Detectron - DR299, 24 tubes suited to airborne work to obtain total radioactive readings in units of .001 MR/HR, milliroentgens per hour. Threshold readings are taken from McPhar TV-3B with 3" crystal.

Computer processing is used when requested, but for this the magnetometer average in the areas is set at 3,000 gammas.

ILLUSTRATIONS

MARKER AT RUN 8 READING 13

MAP USED FOR AIRBORNE GEOPHYSICAL
RECONNAISSANCE MAY 3, 1972

RUNS 500' APART 16000' LONG

WATERTON AIREX LTD.

AIRBORNE GEOPHYSICS

EAT. No. 758308 CANADA (1967)

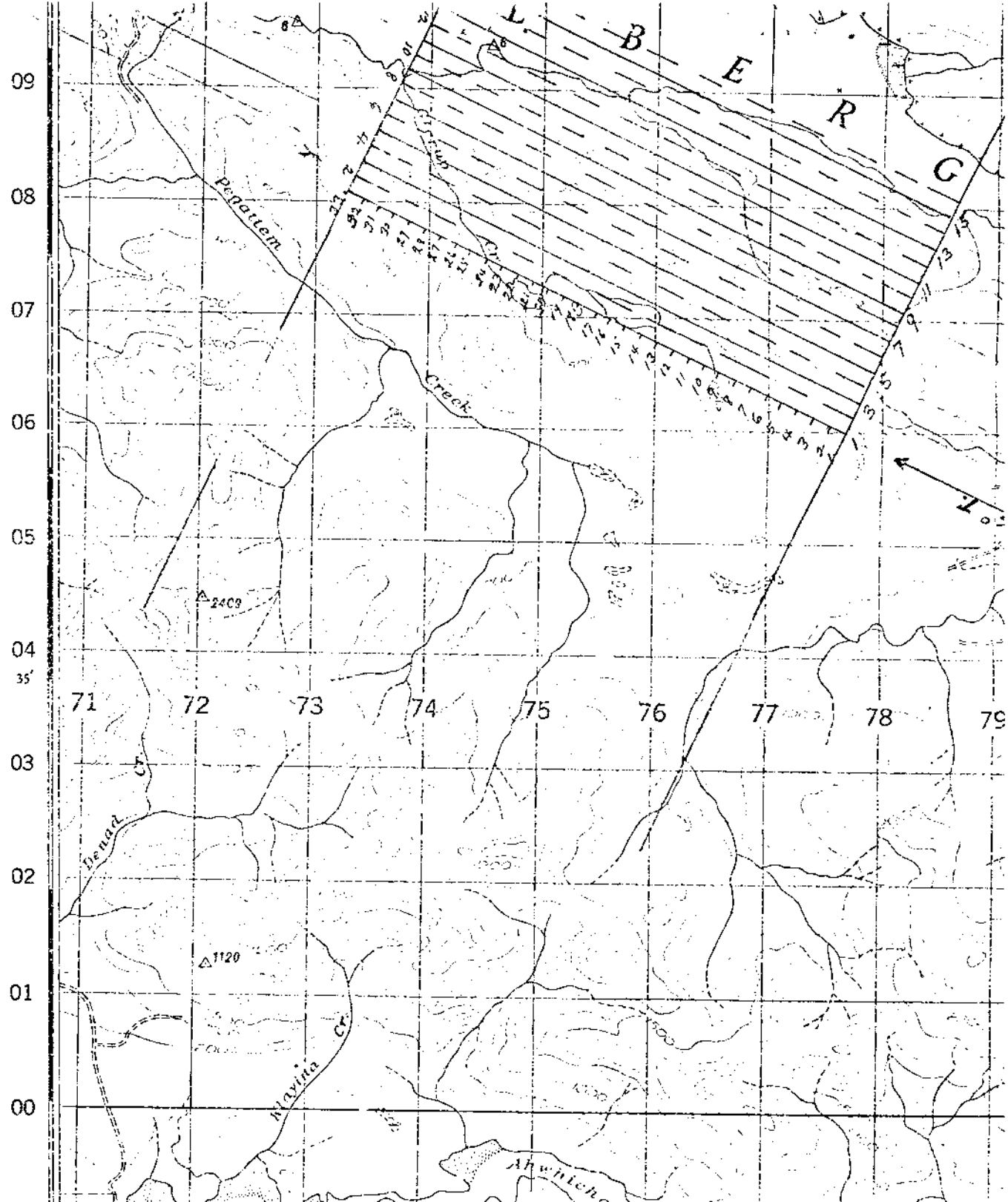
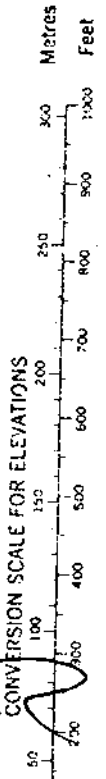
E. J. ...

Department of
Mines and Technical Resources

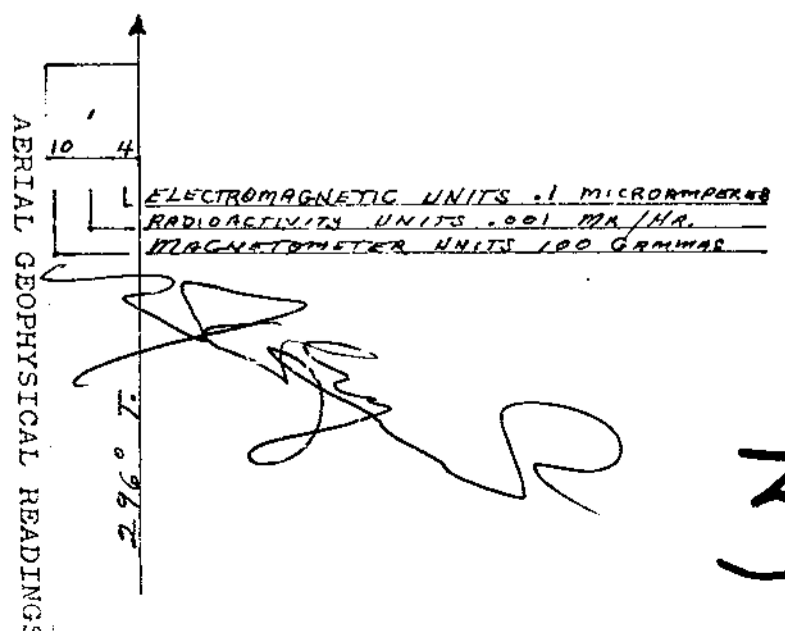
ASSESSMENT REPORT

NO. **3771** MAP #2

HOLDING MINES LTD (N.P.L.)
NATIVE ORDER OF MINES
LOCATION - FIELD MINES
GEOLOGICAL SERVICES



33	0	10	70	32	12	39	15	16	7-2	40	80	3-1	3-1	14	24	110	4	
32	6	7-5	92	30	13	4-5	121	312	85	65	72	7-4	74	28	75	50	6	
31	1	3-5	50	61	41	7-5	60	210	7	73	11	41	35	12	5-2	1010	2-5	2
30	1	15	11	10	5-1	40	62	3-5	2	65	6	50	410	02	28	35	1-5	2
29	5	210	42	46	22	8-5	25	4-5	30	26	51	5-1	100	411	20	1-2	5	
28	9	510	72	67	23	610	07	45	67	24	73	4-1	24	50	16	512	6	
27	10	211	00	1-2	77	714	41	210	00	3-4	92	7-5	11	4-2	69	49	5	
26	5	412	100	12	34	57	10	4-3	06	20	31	31	02	3-5	61	210	3	
25	8	07	21	25	43	712	35	50	11	7-2	24	1-5	51	15	410	50	1	
24	-1	15	65	55	51	72	52	42	65	610	45	25	20	25	510	7-2	0	
23	6	0-4	26	45	4-1	19	48	40	50	4-3	132	40	23	45	45	58	2	
22	1	20	21	11	11	76	12	110	61	3-1	11	61	06	10	76	107	4	
21	-4	0-5	12	19	40	92	41	36	50	45	32	55	52	32	110	110	6	
20	3	4-4	45	23	03	812	11	210	120	52	73	410	02	65	09	60	1	
19	-5	20	55	25	70	45	67	55	13	211	26	71	73	27	46	1-4	7	
18	0	83	33	15	31	21	710	40	76	78	12	5-1	14	510	15	2-3	1	
17	6	10-3	15	124	10	31	5-4	4-5	66	51	51	56	6-1	22	47	110	4	
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14	11	56	15	65	50	512	1510	60	19	80	31	4-5	60	6-10	1-5	5-8	4	
13	-4	37	21	32	40	66	21	11	41	70	50	58	20	30	2-2	1-7	10	
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11	10	86	100	22	16	010	11	6-1	96	5-1	51	60	73	35	3-2	4-8	1	
10	0	00	50	102	31	310	13	75	71	79	42	3-4	12	02	42	10	3	
9	3	10	51	515	110	60	38	100	50	3-1	2-1	4-5	101	41	70	20	6	
8	0	110	55	611	611	22	16	610	33	2-1	30	3-2	102	14	4-1	31	3	
7	0	4-2	11	410	29	11	62	15	55	22	45	7-2	5-1	3-5	91	5-6	1	
6	-5	37	22	15	15	32	17	35	43	55	103	65	40	-1	60	30	2	
5	5	77	35	110	41	10	20	96	72	51	27	711	00	50	71	12	5	
4	5	97	36	40	10	2-1	62	95	75	4-1	10	52	11	70	10	20	0	
3	11	010	811	35	2-1	102	68	55	910	62	41	36	100	38	7-2	1-7	6	
2	2	111	610	27	35	7-1	112	52	1010	51	10	40	10	40	40	44	1	
1	4	20	910	311	09	15	11	35	51	30	30	42	60	45	65	25	4	



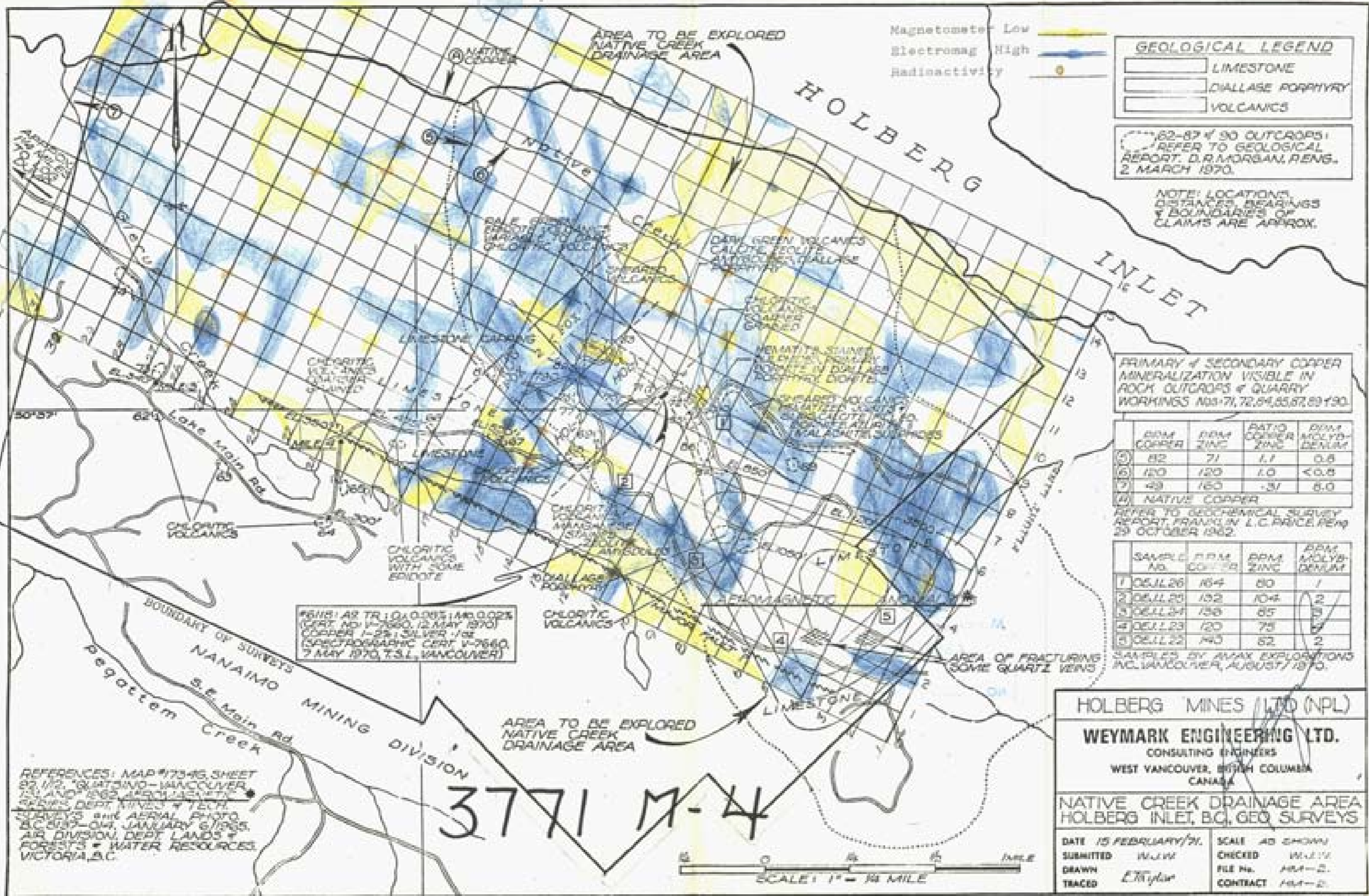
AIRBORNE GEOPHYSICAL RECONNAISSANCE
 NATIVE CREEK, B.C. MAY 3, 1972
 RUNS 500' APART, READINGS 500' APART.
 AVERAGE MAG. SET AT "0"
 GRID SCALE: ONE INCH = 1,000 FEET
 WATERTON AIREX LTD.
 AIRBORNE GEOPHYSICS
 PAT. NO. 750300 CANADA (1967)

3771 M-3

FIG: 3

2111 X-2

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3771 MAP #3



Magnetometer Low
 Electromag High
 Radioactivity

GEOLOGICAL LEGEND

[Yellow Box]	LIMESTONE
[Blue Box]	DALLAS PORPHYRY
[White Box]	VOLCANICS

62-87 & 90 OUTCROPS REFER TO GEOLOGICAL REPORT, D.R. MORSE, P ENG. 2 MARCH 1970.

NOTE: LOCATIONS, DISTANCES, BEARINGS & BOUNDARIES OF CLAIMS ARE APPROX.

PRIMARY & SECONDARY COPPER MINERALIZATION VISIBLE IN ROCK OUTCROPS & QUARRY WORKINGS Nos 71, 72, 84, 85, 87, 89 & 90.

	PPM COPPER	PPM ZINC	RATIO COPPER/ZINC	PPM MOLYB-DENAT
③	82	71	1.1	0.8
⑥	120	120	1.0	<0.8
⑦	48	165	.31	6.0
⑩	NATIVE COPPER			

REFER TO GEOCHEMICAL SURVEY REPORT, FRANK IV L.C. PRICE, P ENG 29 OCTOBER 1962.

SAMPLE NO.	DATE	PPM COPPER	PPM ZINC	PPM MOLYB-DENAT
1	DEC 26	164	80	1
2	DEC 29	132	104	2
3	DEC 24	136	85	3
4	DEC 23	120	75	4
5	DEC 25	145	82	2

SAMPLES BY AVAX EXPLORATIONS INC. VANCOUVER, AUGUST 1970.

REVIS: AS TR 10, 0, 0, 0, 1, 1, 0, 0, 0, 2, 5
 (CERT. NO. V-7660, 12 MAY 1970)
 COPPER 1-24 SILVER 1/02
 (SPECTROGRAPHIC CERT V-7660,
 7 MAY 1970, T.S.L. VANCOUVER)

HOLBERG MINES LTD (NPL)
WEYMARK ENGINEERING LTD.
 CONSULTING ENGINEERS
 WEST VANCOUVER, BRITISH COLUMBIA
 CANADA

NATIVE CREEK DRAINAGE AREA
 HOLBERG INLET, B.C. GEO SURVEYS

DATE 15 FEBRUARY/71.	SCALE AS SHOWN
SUBMITTED W.J.W.	CHECKED W.J.W.
DRAWN E.Taylor	FILE No. HMA-2.
TRACED	CONTRACT HMA-2.

REFERENCES: MAP #173-46, SHEET 82, 1/2, "GLATSWAY-VANCOUVER, B.C. AND 1962, GEOLOGICAL SURVEY, DEPT MINES & TECH. SURVEYS and AERIAL PHOTO, B.C. 5157-04, JANUARY 6/1965, AIR DIVISION, DEPT LANDS & FORESTS & WATER RESOURCES, VICTORIA, B.C.

SCALE 1" = 1/4 MILE

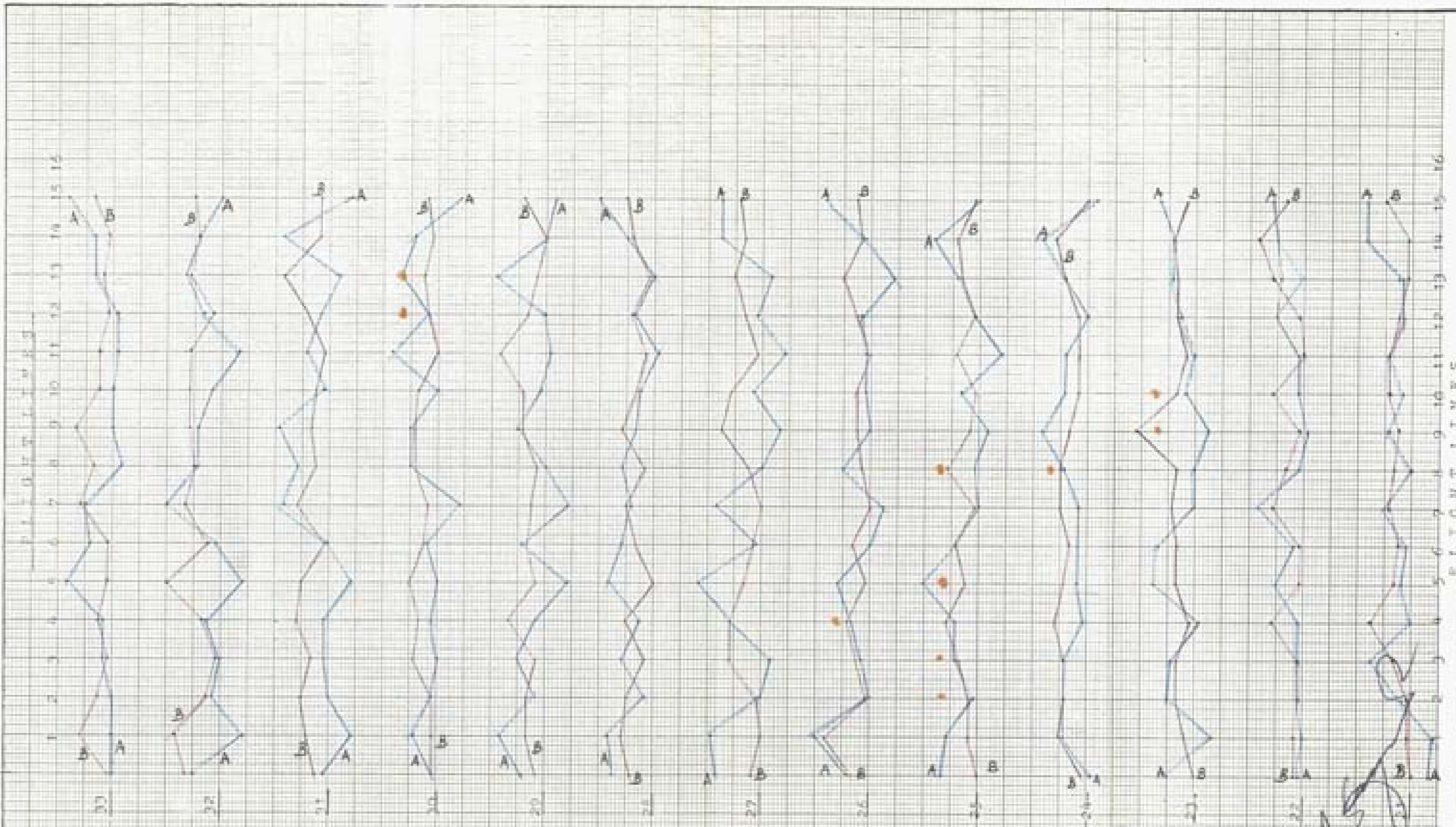
3771 M-4

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3771 MAP #4

4 7 1770

GP-174
0.03 Gauss per centimeter per 50 meters
scale indicated

Electromagnetic



MAGNETOMETER A ELECTROMAGNETIC B INCREASED RADIOACTIVITY ●

Location of Flight Lines Shown on Fig: 4

3771 M-5

HOLBERG MINES LTD. (N.P.L.)
FOX-HOL-NATIVE CLAIMS

GEOPHYSICAL-GEOLOGICAL PROFILES
June 1972 Scale: As Shown

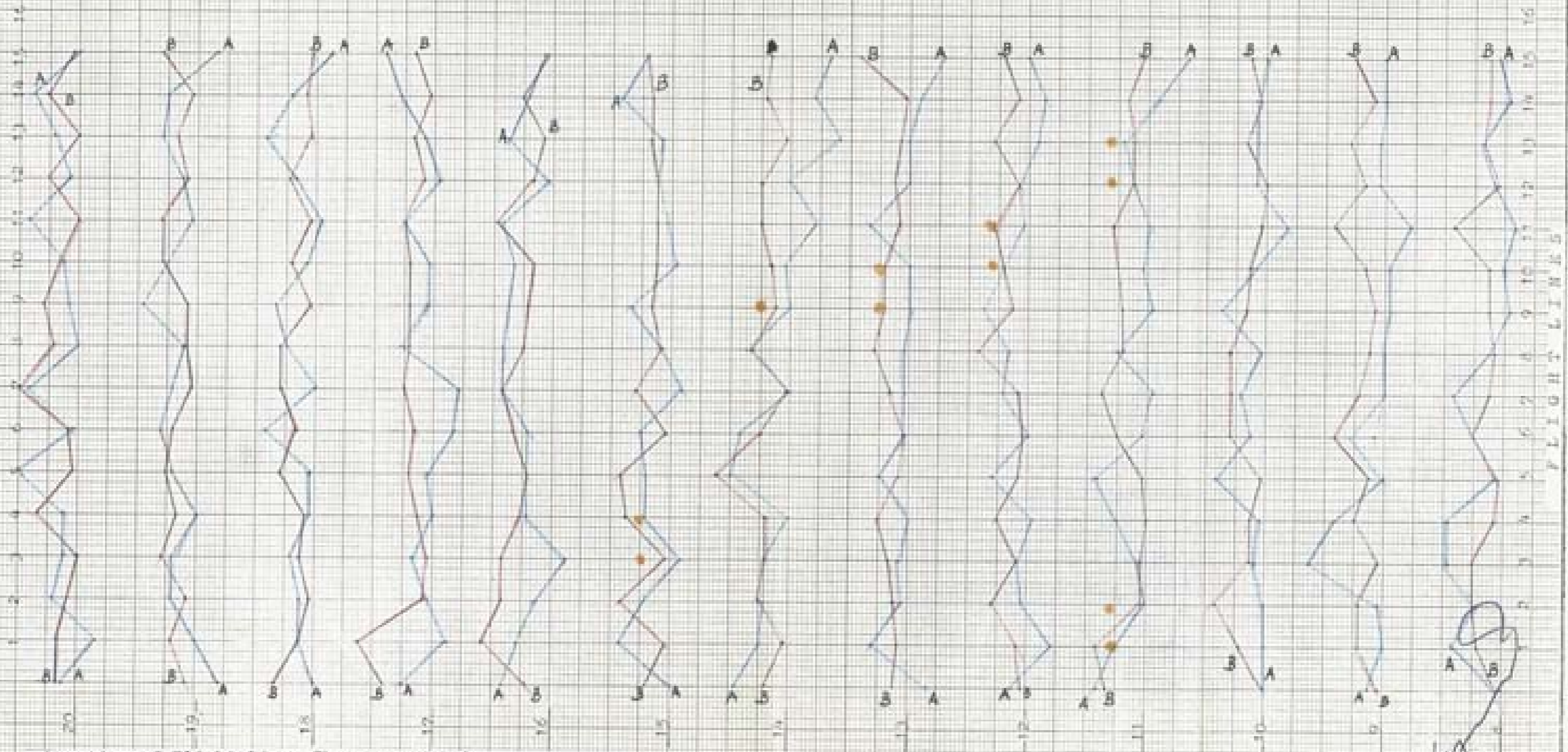
FIG: 5

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3771 MAP #5

2171 M-2

GB-171.
3 x 3 inches per approximately 100 feet
width of track

Electrom



Location of Flight Lines Shown on Fig: 4

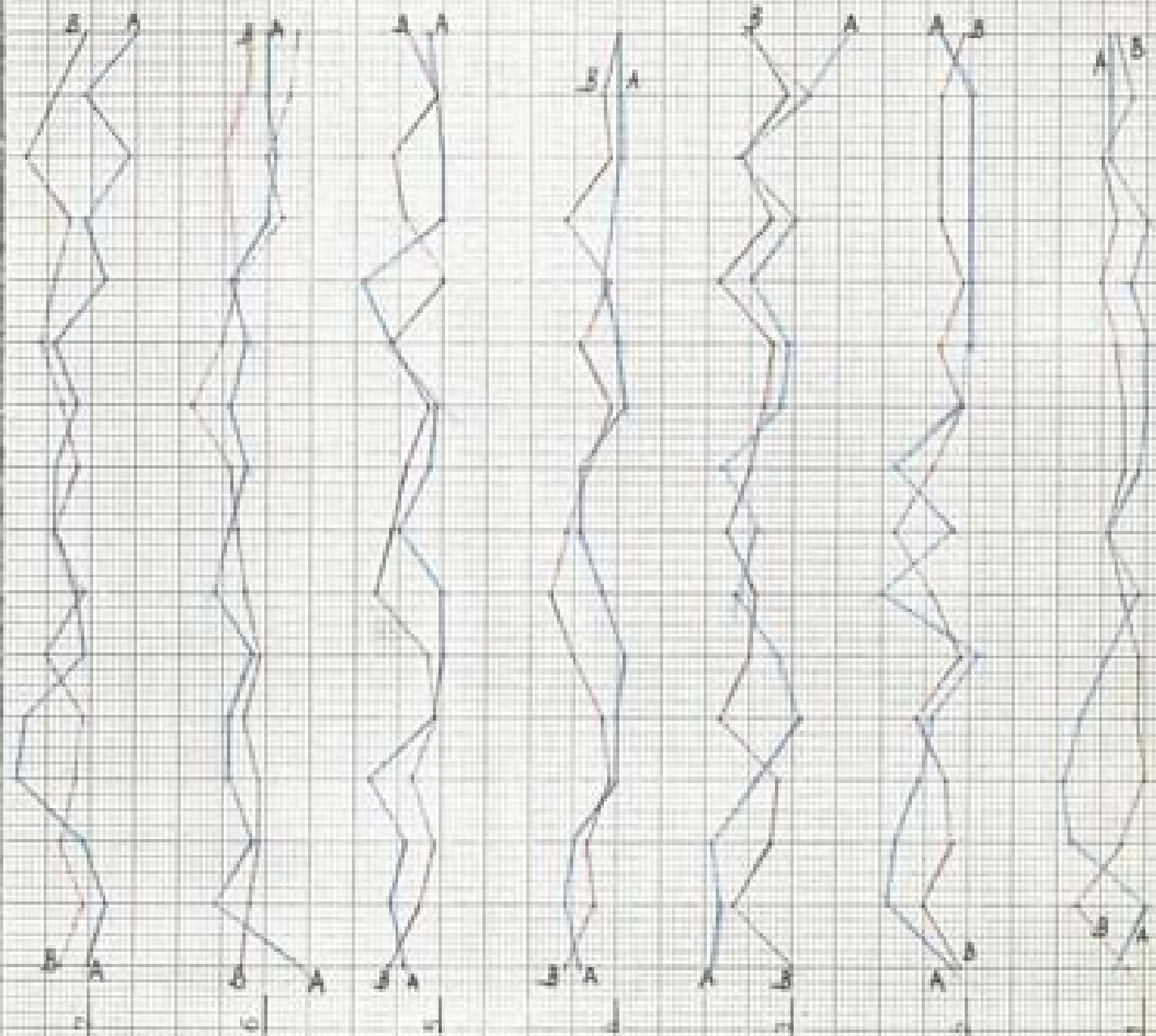
MAUNSTUNTER A ELECTROMAGNETIC B INCREASED RADIOACTIVITY -●-

3771 M-6

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3771 MAP #6

GP-17L
6 x 8 divisions per unit - history given 50 units
width 10 inches

5000 Gauss



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
FLIGHT LINES

AIRBORNE MAGNETOMETER
Anomaly
Low A
High
AIRBORNE ELECTROMAGNETIC
Low
High B

REFERENCES:
FIG-3A4- Flight Lines and Readings
FIG: 4 - Geological Formations
 Mineral Zones

3771 M-7

HOLBERG MINES LTD. (N.P.L.)
FOX-HOL-NATIVE CLAIMS
GEOPHYSICAL-GEOLOGICAL PROFILES
June 1972 Scale: As Shown

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 377L MAP #7