

46-1027 - 15683

SUMMARY REPORT  
DIAMOND DRILLING AND GEOPHYSICAL WORK  
ARENT 1, AARENT 2, BEAMA  
AND  
ADJACENT CLAIMS  
NORTH AND SOUTH CLAIM GROUPS  
YELLOWJACKET PROPERTY  
ATLIN MINING DIVISION

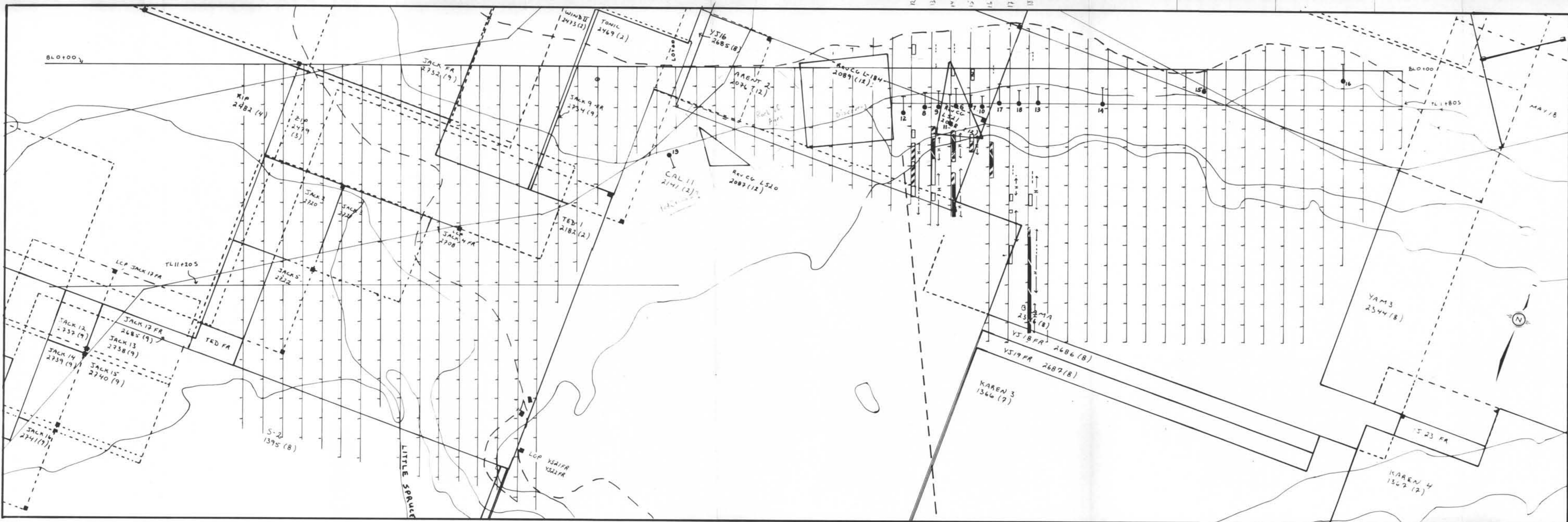
Volume II

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12/87 PT 2 OF 2

GEOLOGICAL BRANCH  
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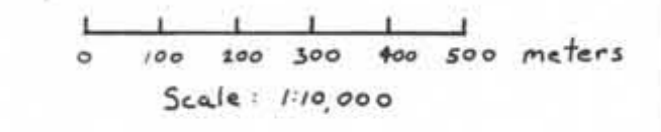
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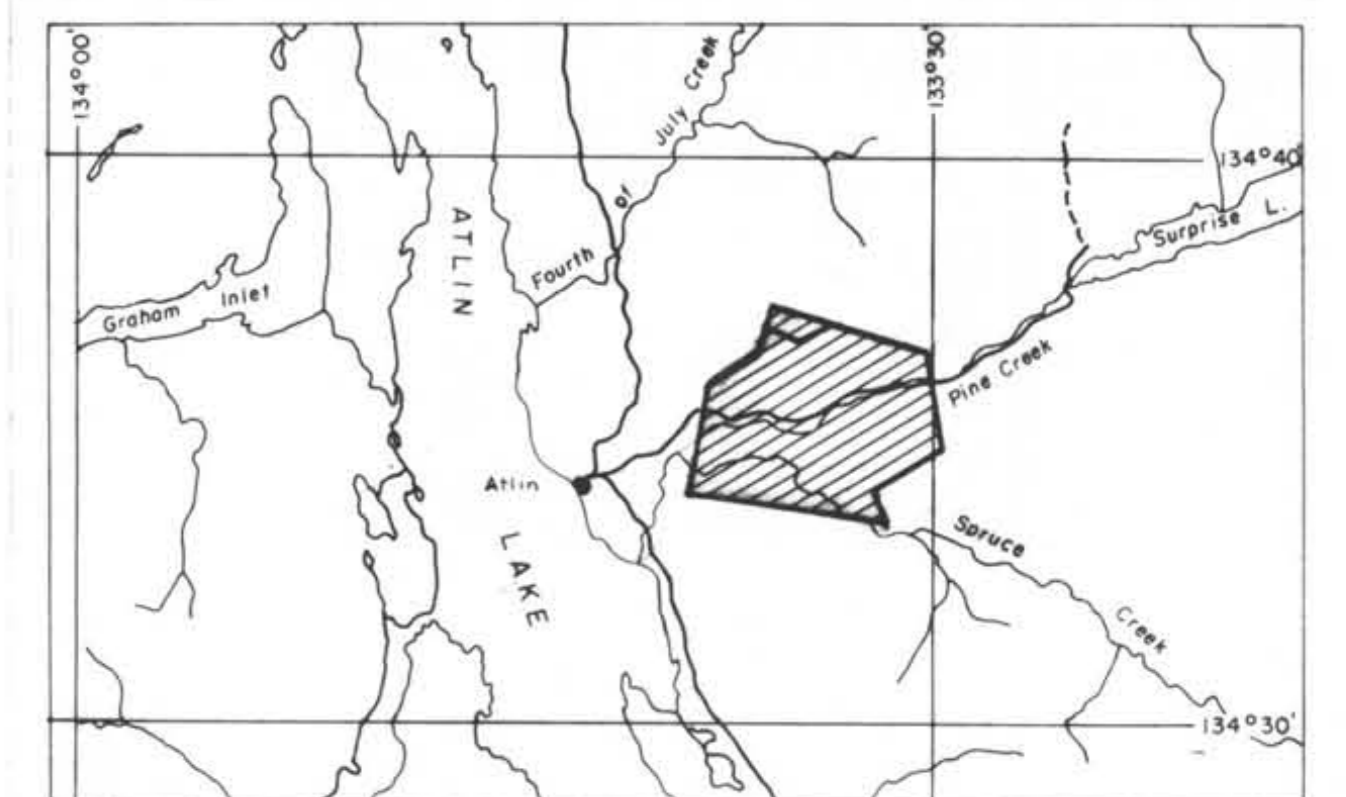
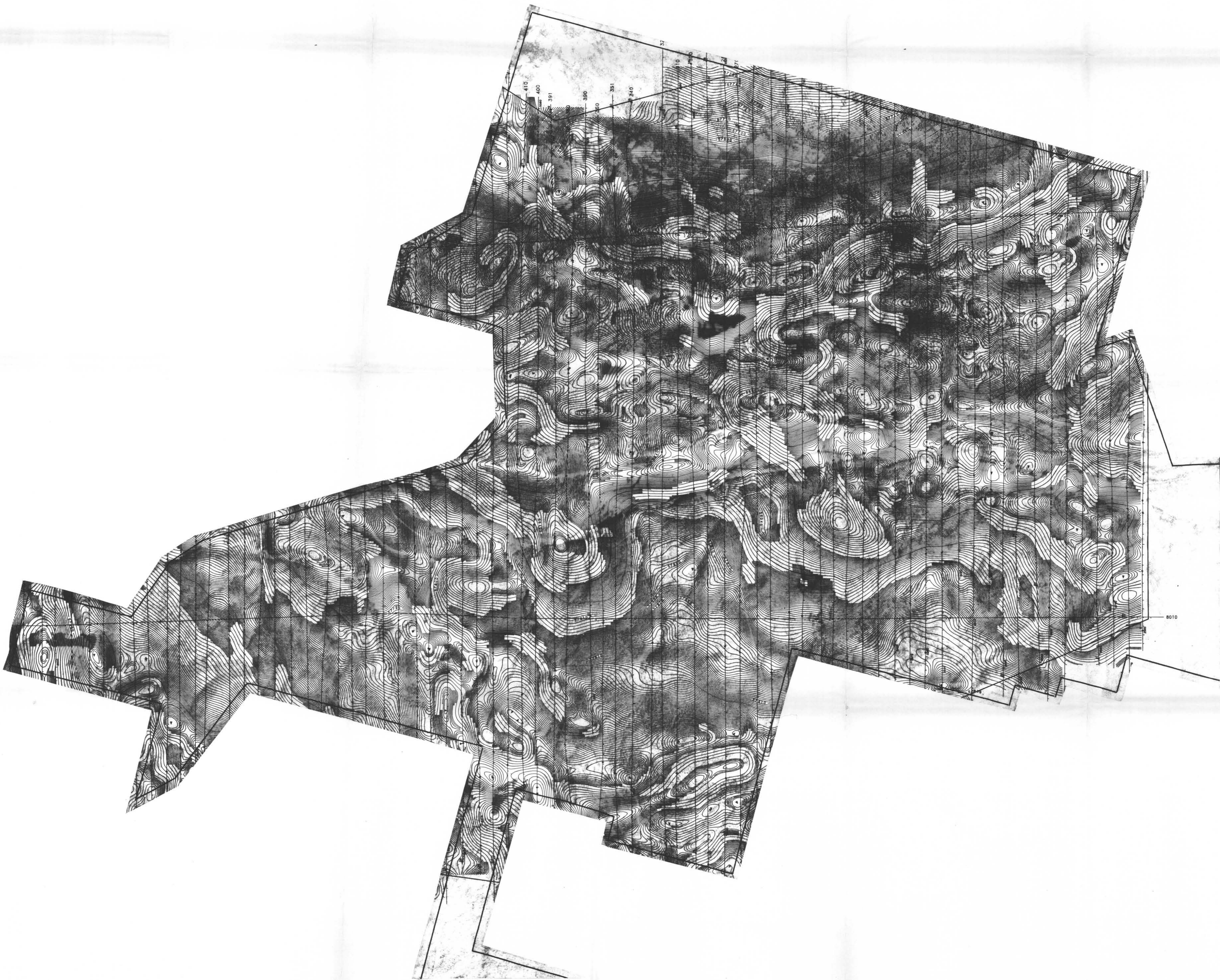
- IP: Chargeability
- strong
  - moderate
  - weak
  - weak, poorly defined
- Resistivity
- high
- VLF: conductor

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HOMESTAKE MINERAL DEVELOPMENT COMPANY			
YELLOWJACKET PROPERTY BRITISH COLUMBIA			
DRILL HOLE LOCATION MAP			
DRAWN MOD	DATE 11/86	FILE CODE 104N/12	FIGURE 4



Positioning 35mm camera  
 Mean Mag/VLF sensor 63 metres  
 Mean flight line spacing 125 metres

**TOTAL FIELD MAGNETIC CONTOURS**

MEAN MAGNETOMETER 48 metres  
 SENSOR ELEVATION 2 gammas  
 CONTOUR INTERVAL

200 gammas  
 50 gammas  
 2 gammas



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 ASSOCIATE REPORT

HOMESTAKE MINERAL DEVELOPMENT COMPANY

**TOTAL FIELD MAGNETIC CONTOURS**

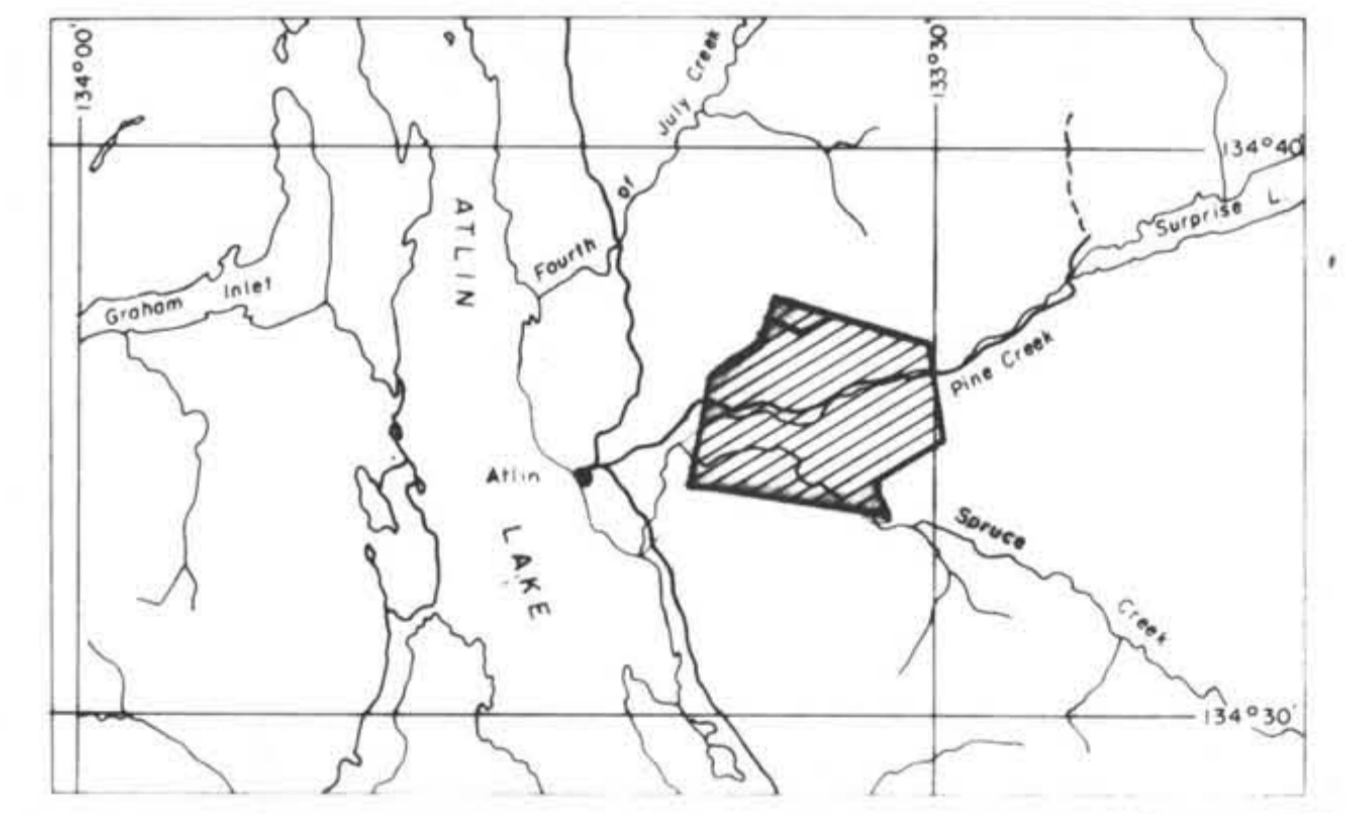
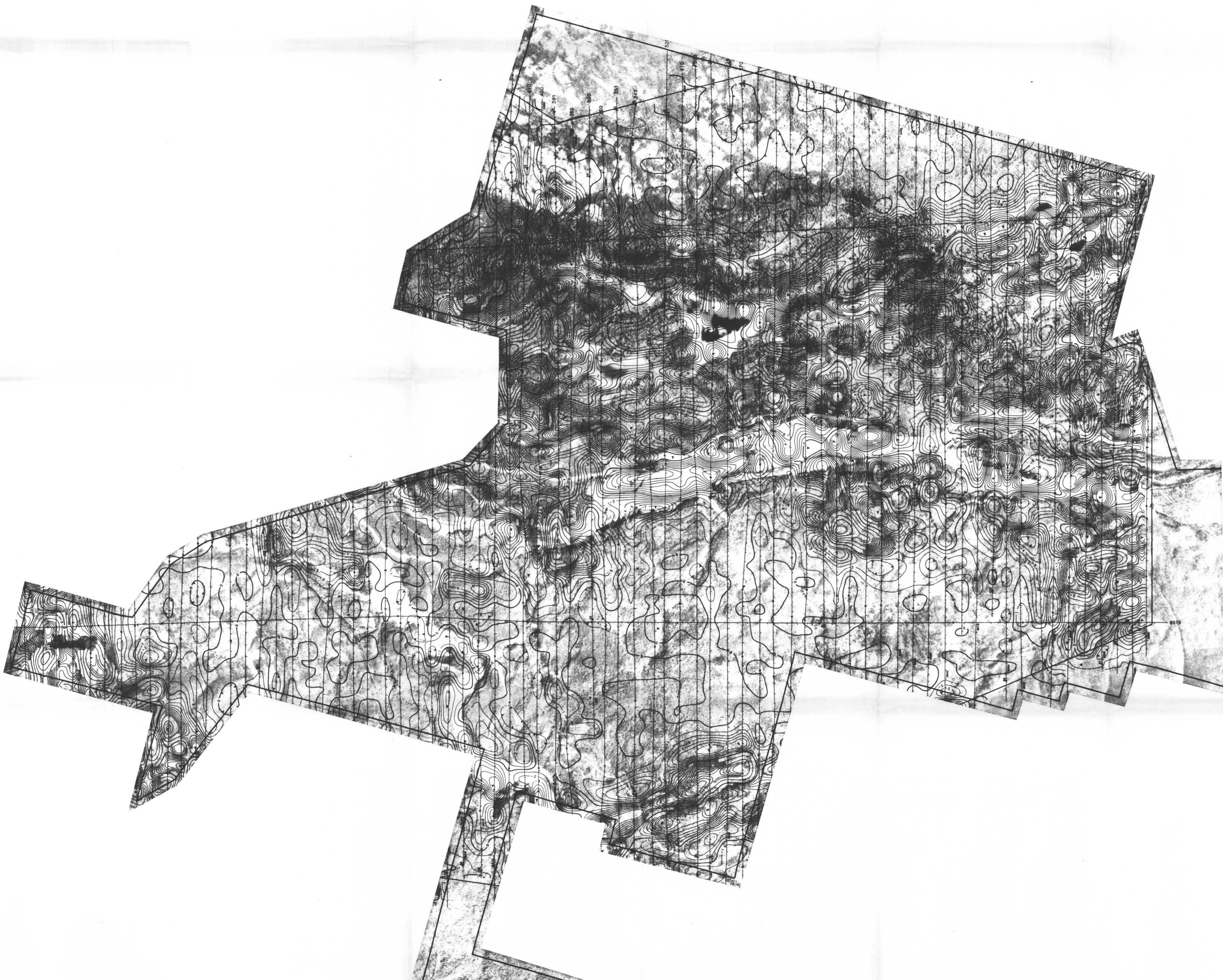
ATLIN  
 BRITISH COLUMBIA

SCALE 1/10,000  
 0 250 500 metres  
 0 320 feet

**AERODAT LIMITED**

DATE: August, 1986  
 N.T.S. No: 104 N

FIGURE 0a



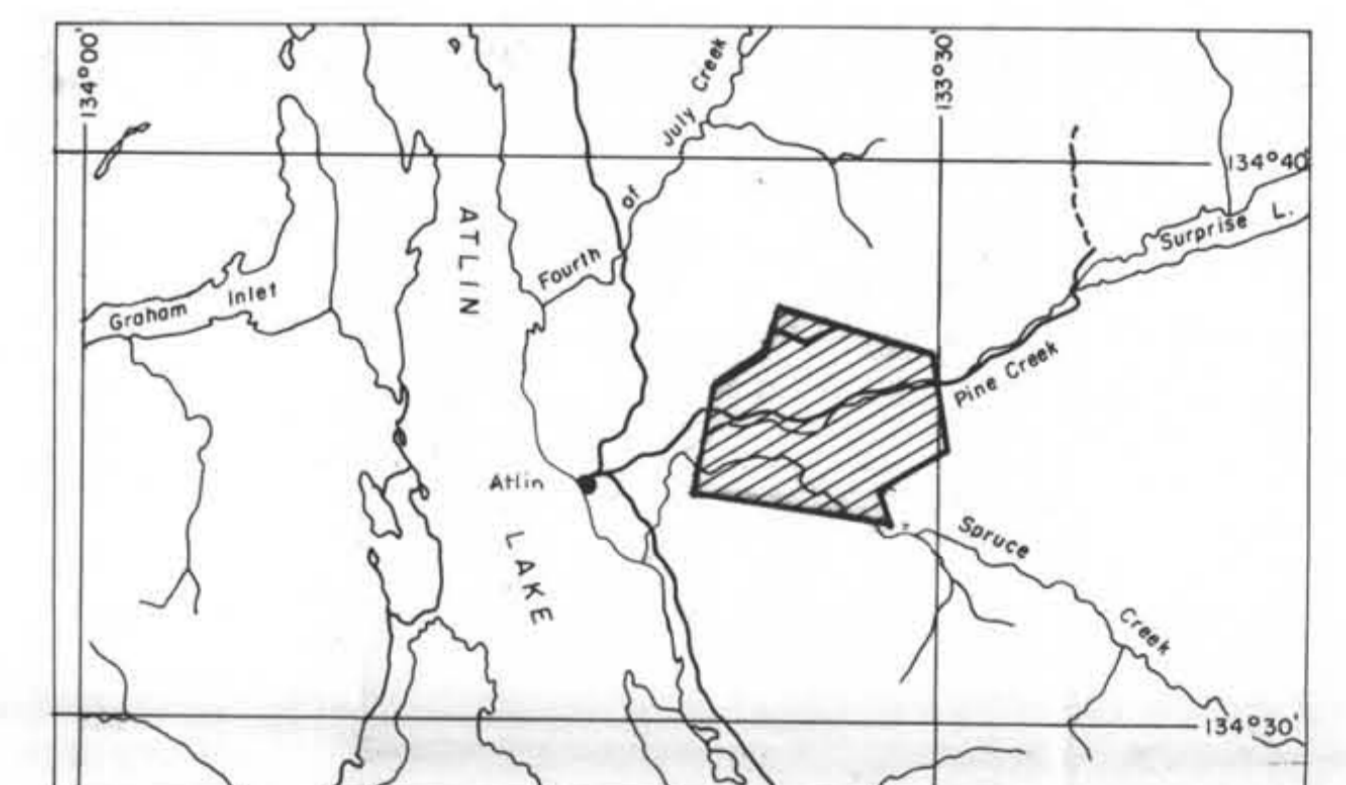
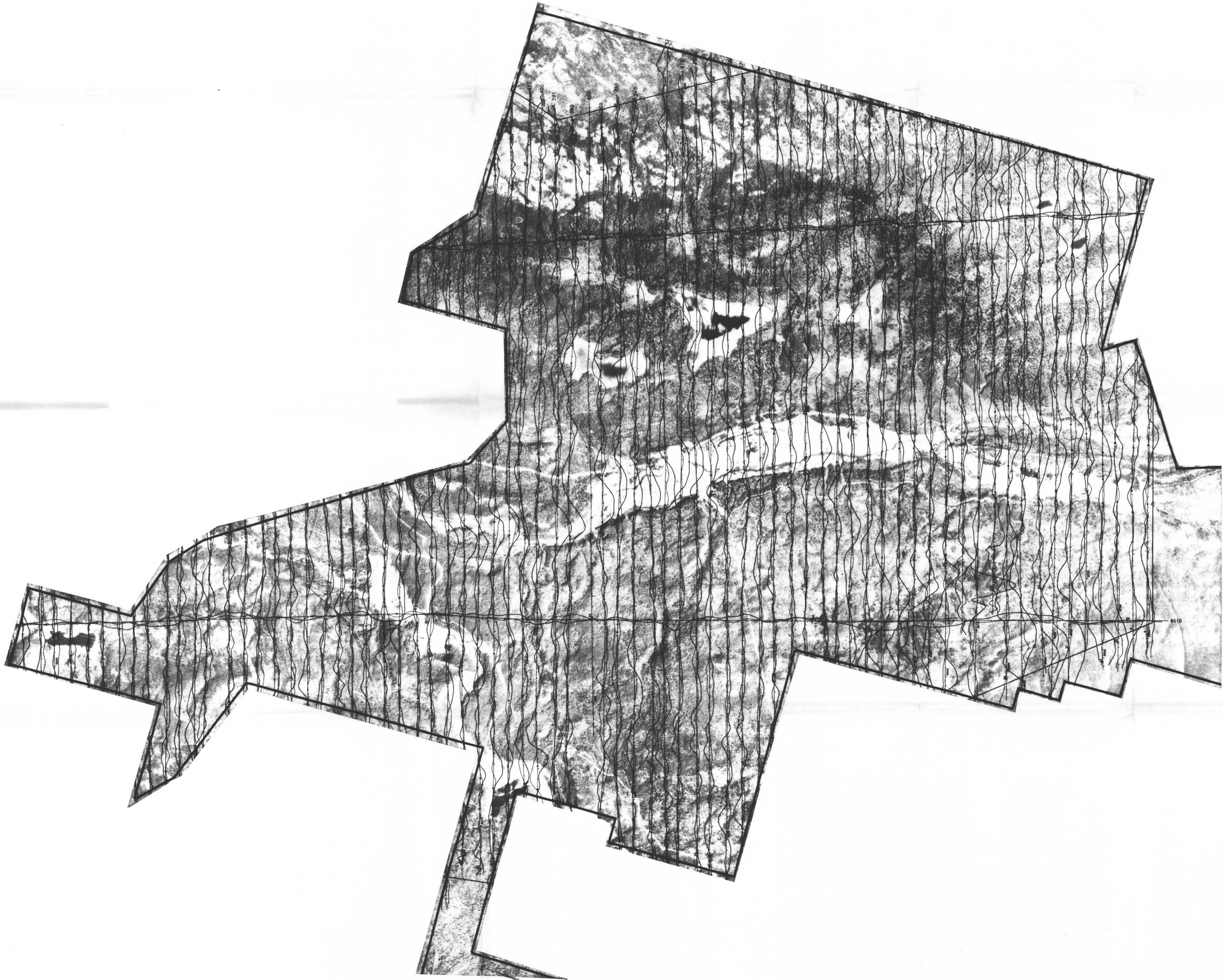
Positioning 35mm camera  
 Mean Mag/VLF Sensor 50 metres  
 Mean flight line spacing 125 metres

VERTICAL MAGNETIC GRADIENT  
 (CALCULATED FROM TOTAL MAGNETIC FIELD)  
 CONTOUR INTERVAL  
 20 gammas / metre  
 5 gammas / metre  
 1 gamma / metre

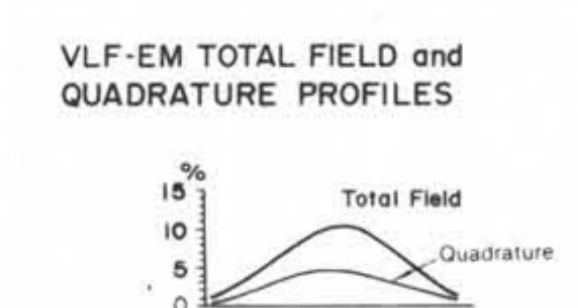
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HOMESTAKE MINERAL DEVELOPMENT COMPANY	
COMPUTED VERTICAL MAGNETIC GRADIENT CONTOURS	
ATLIN BRITISH COLUMBIA	
SCALE 1/10,000 250 0 500 metres 800 0 1320 feet	
AERODAT LIMITED	DATE August, 1986
	N.T.S. No. 104 N
	FIGURE 6b



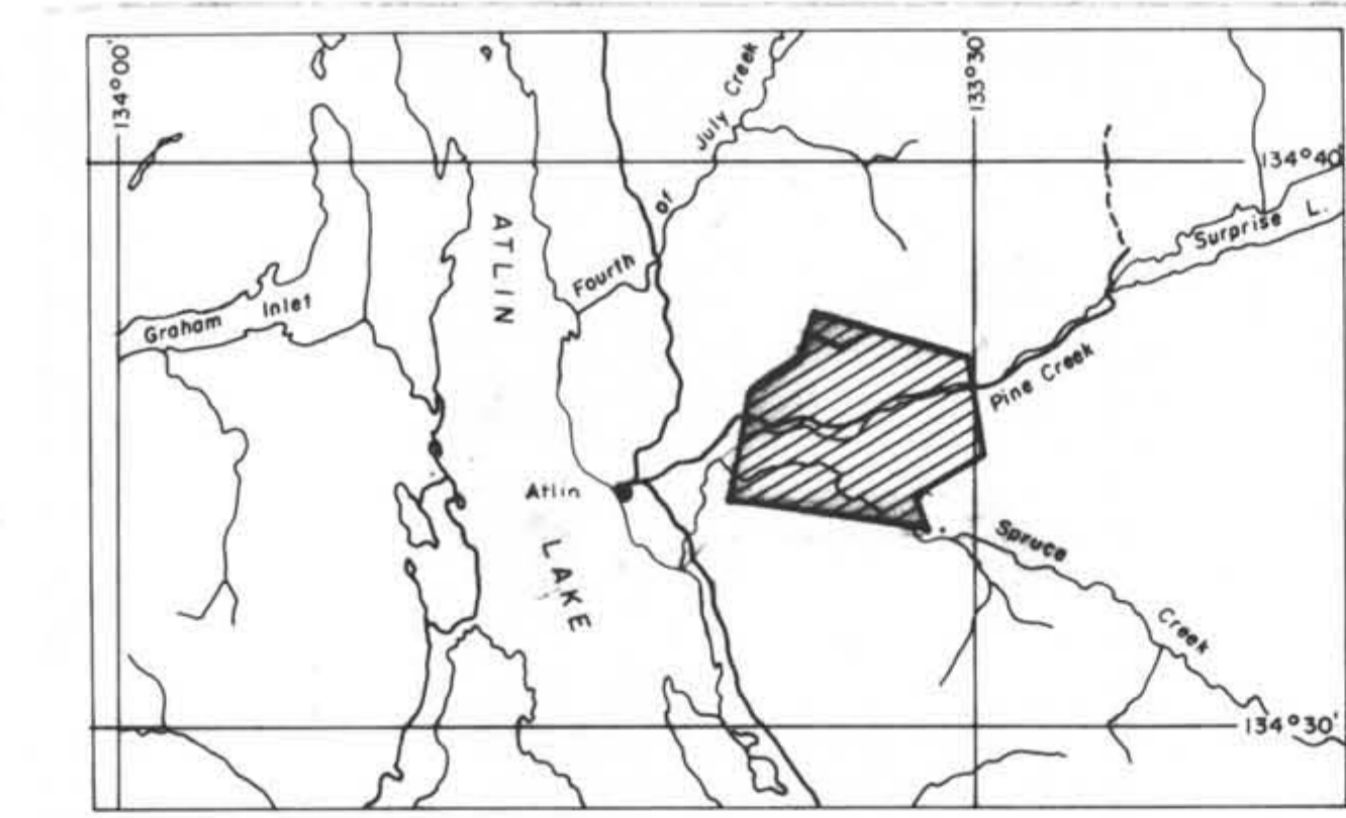
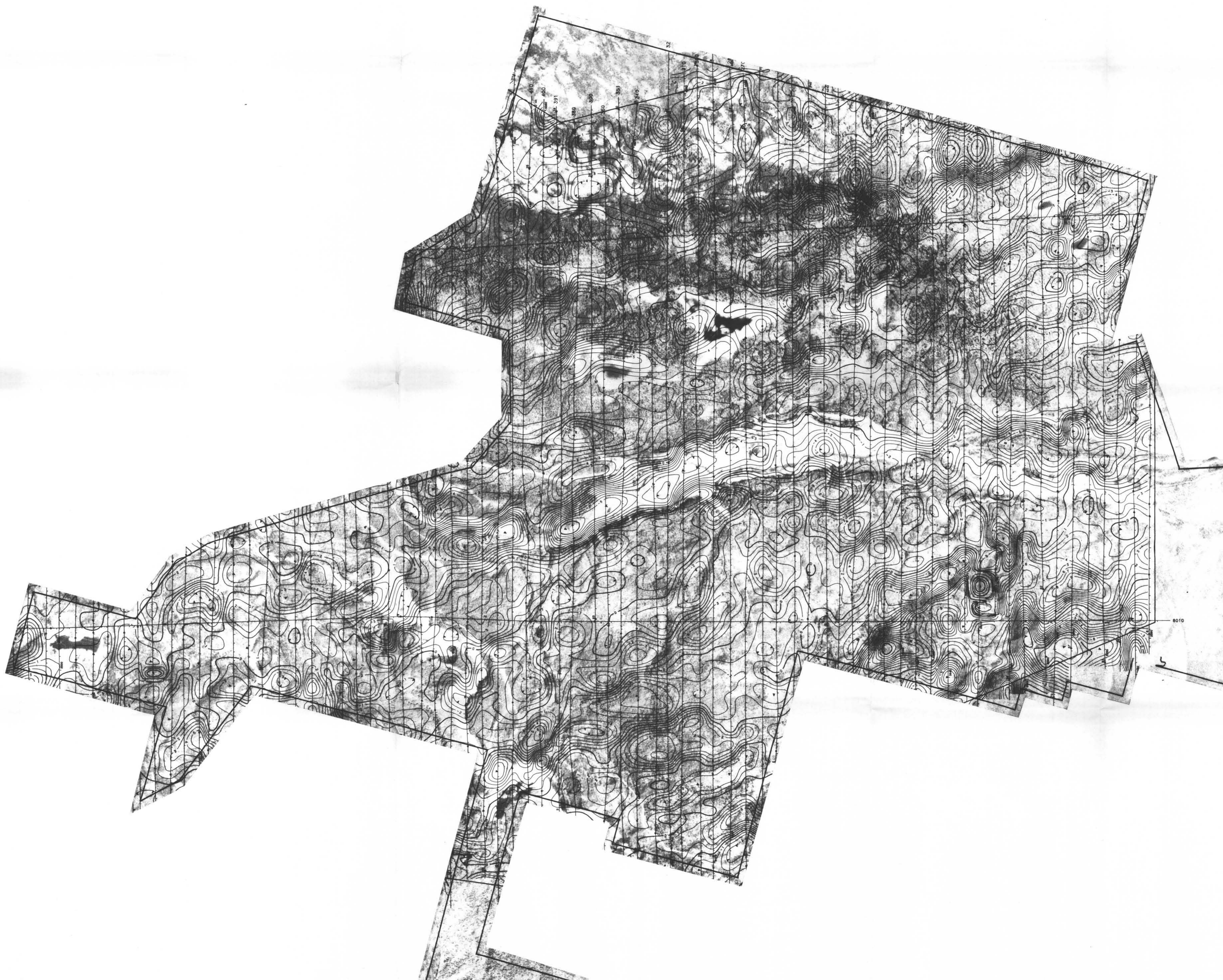
Positioning 35mm camera  
 Mean Mag/VLF Sensor 50 metres  
 Mean flight line spacing 125 metres



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 APPENDIX REPORT

HOMESTAKE MINERAL DEVELOPMENT COMPANY	
VLF-EM TOTAL FIELD AND QUADRATURE PROFILES	
ATLIN BRITISH COLUMBIA	
SCALE 1/10,000 	
AERODAT LIMITED	DATE: August, 1986
	N.T.S. No. 104 N
	FIGURE 6c



Positioning 35mm camera  
 Mean Mag/VLF Sensor 50 metres  
 Mean flight line spacing 125 metres

**VLF-EM TOTAL FIELD CONTOURS**

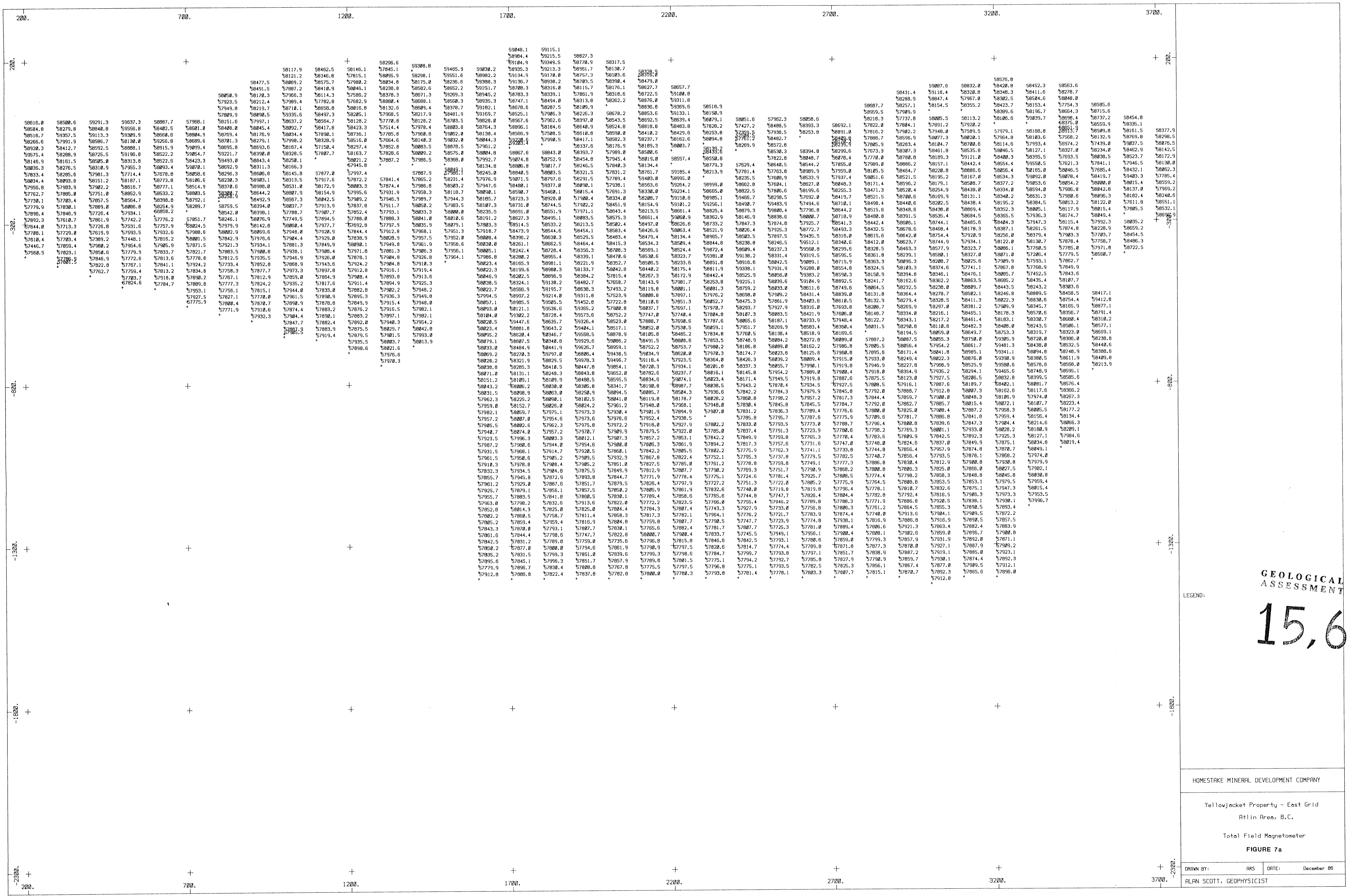
VLF STATION NPM (Lubbock, Howell) 23.4 kHz  
 MEAN VLF EM 0  
 SENSOR ELEVATION 48 metres  
 CONTOUR INTERVAL 10 %  
 5 %  
 1 %



HOMESTAKE MINERAL DEVELOPMENT COMPANY	
<b>VLF-EM TOTAL FIELD CONTOURS</b>	
ATLIN BRITISH COLUMBIA	
SCALE 1/10,000 	
	DATE: August, 1986
	N.T.S. No: 104 N
	FIGURE 6d

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Yellowjacket Property - East Grid  
 Atlin Area, B.C.

Total Field Magnetometer

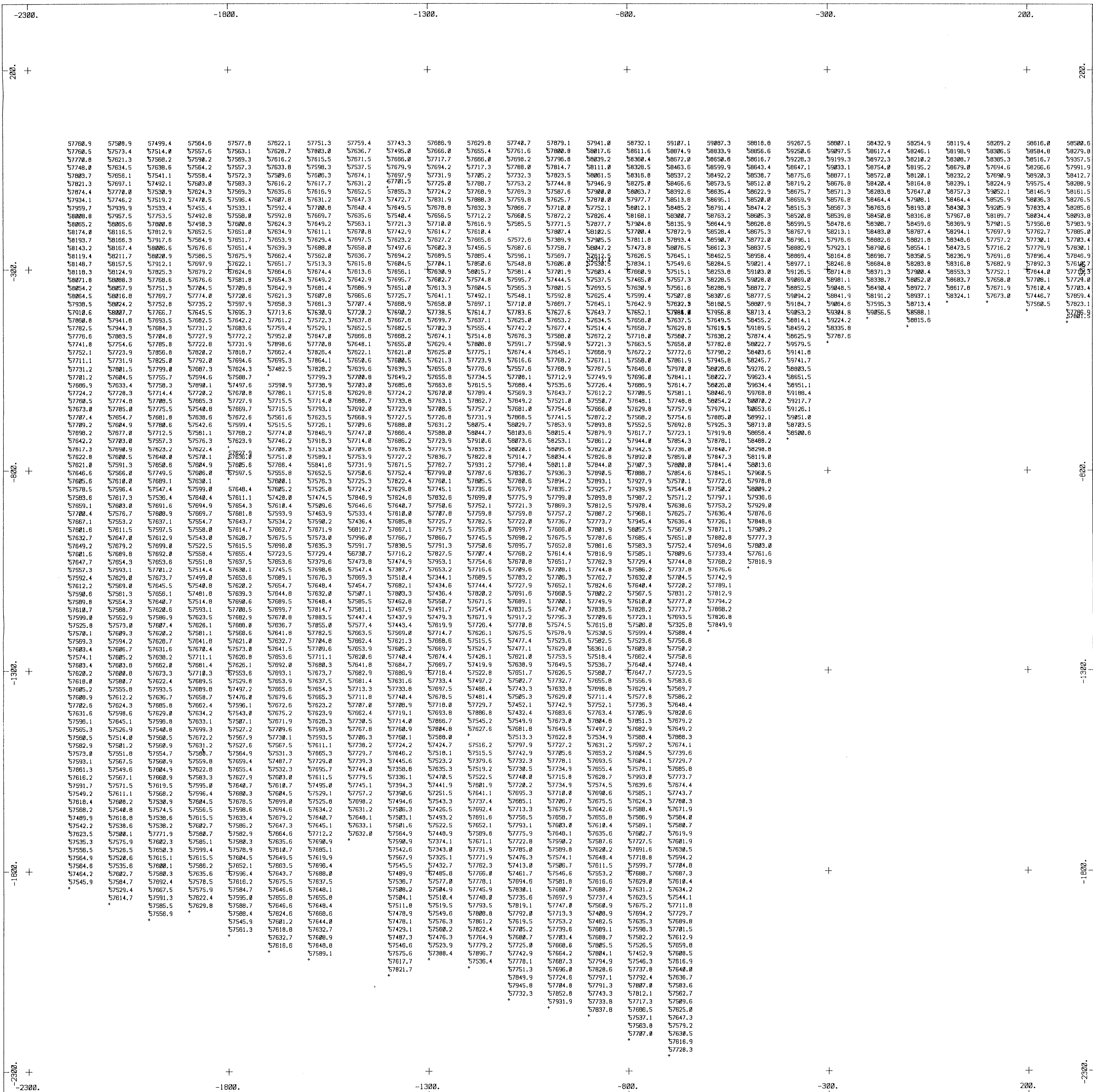
FIGURE 7a

DRAWN BY: RRS DATE: December 86

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LEGEND:

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HOMESTAKE MINERAL DEVELOPMENT COMPANY

Yellowjacket Property - West Grid  
Atlin Area, B.C.

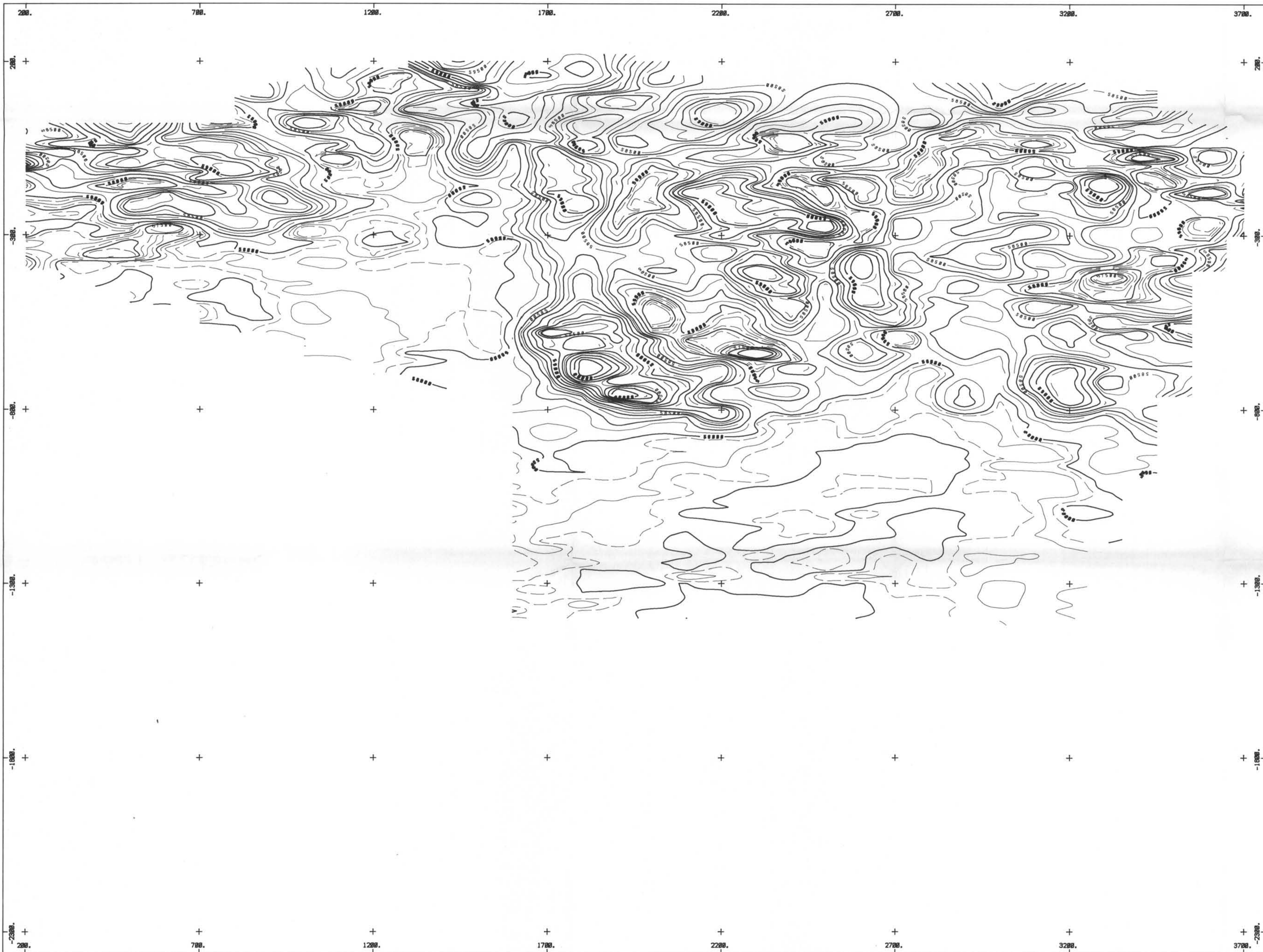
Total Field Magnetometer

**FIGURE 7b**

DRAWN BY: ARS DATE: December 86

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LEGEND:

- Heavy solid contours = 200 gamma
- Light solid contours = 100 gamma
- Light dashed contours = 50 gamma
- (5700 to 5000 range only)

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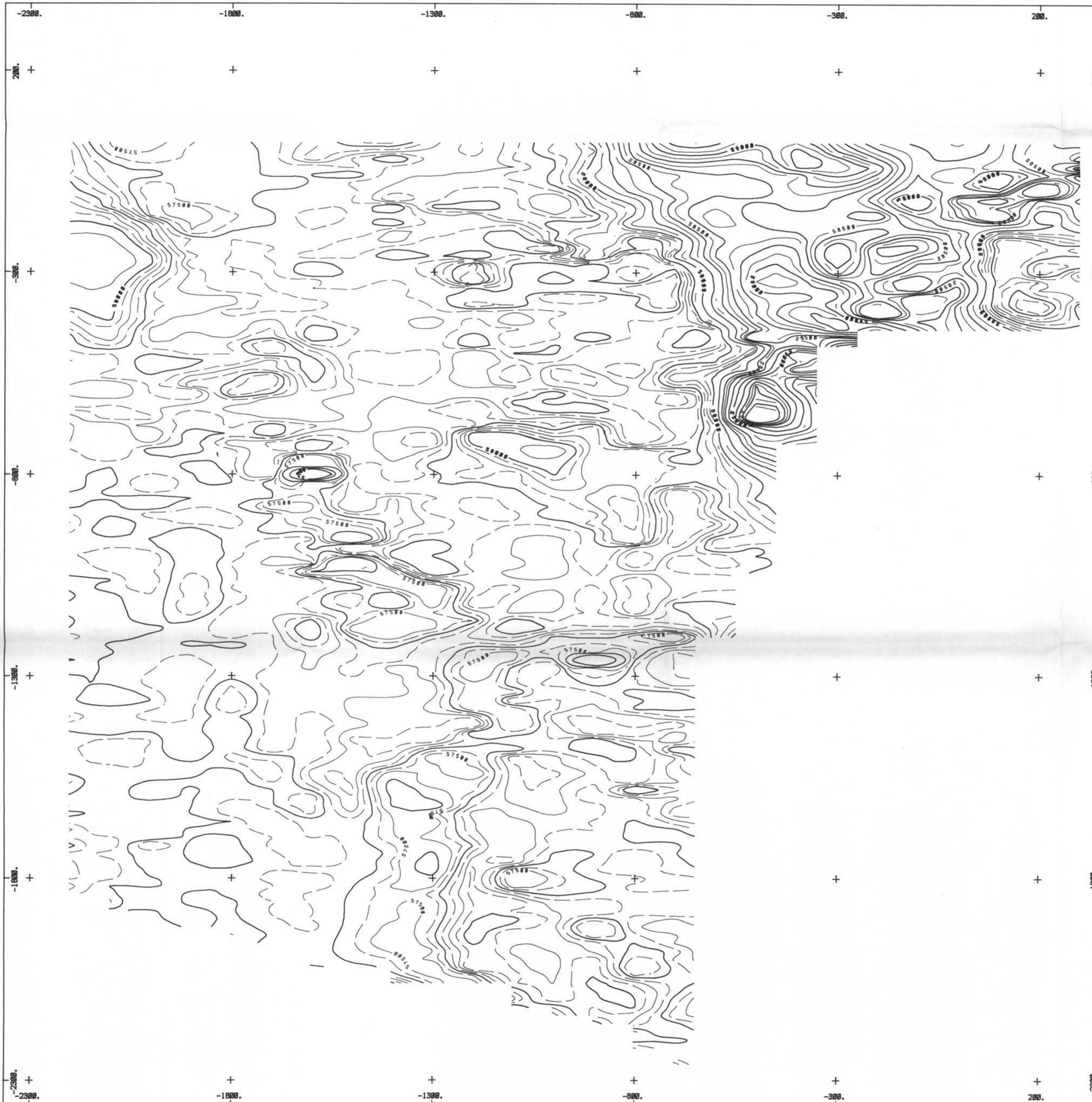
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HOMESTAKE MINERAL DEVELOPMENT COMPANY

Yellowjacket Property - East Grid  
Atlin Area, B.C.

Total Field Magnetometer  
FIGURE 7c

DRAWN BY:	ARS	DATE:	December 86
ALAN SCOTT, GEOPHYSICIST			



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LEGEND:

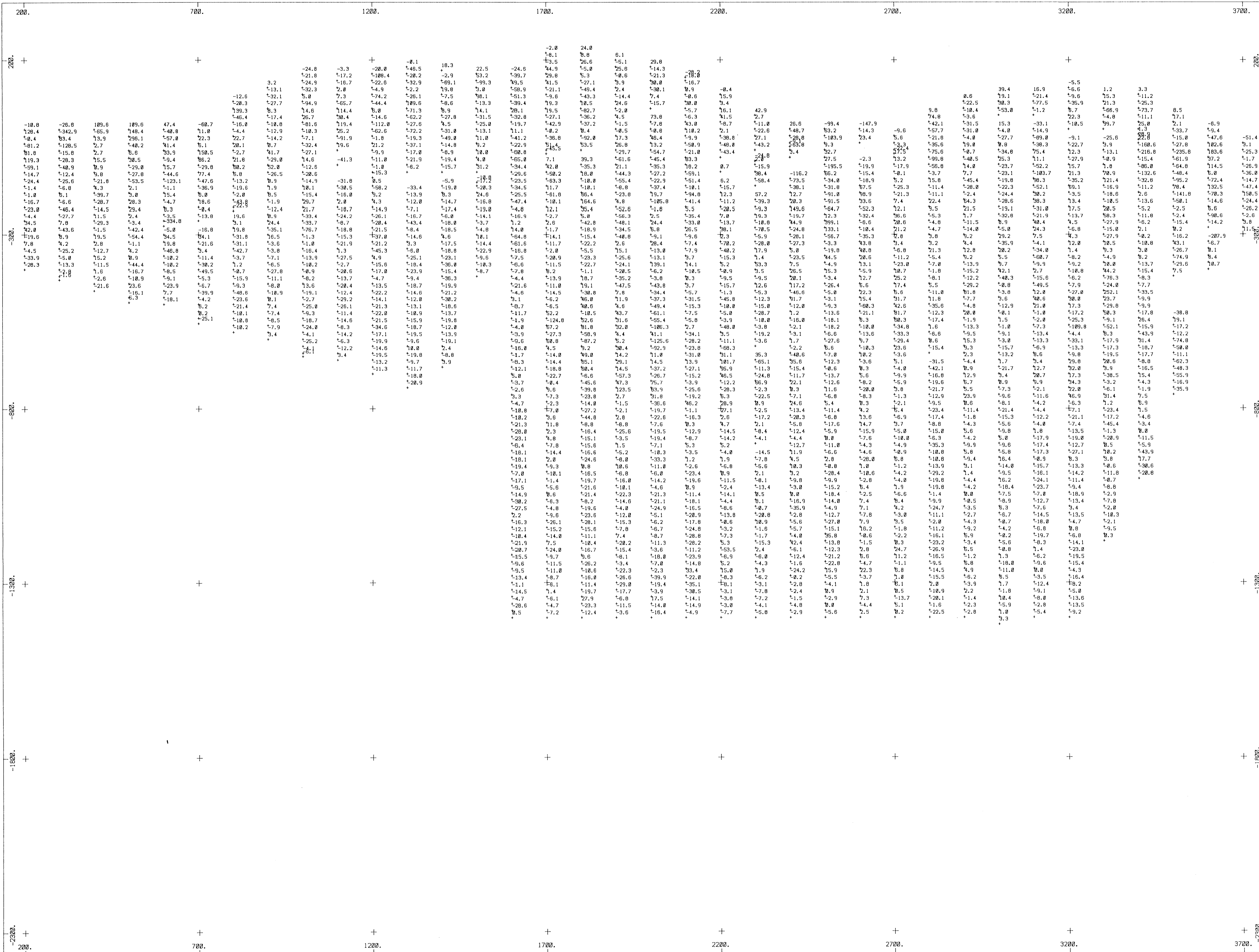
- Heavy solid contours @ 200 gammas
- Light solid contours @ 100 gammas
- Light dashed contours @ 50 gammas
- (57500 to 58000 range only)

HOMESTAKE MINERAL DEVELOPMENT COMPANY

Yellowjacket Property - West Grid  
 Atlin Area, B.C.

Total Field Magnetometer  
 FIGURE 7d

DRAWN BY: AFS    DATE: December 86  
 ALAN SCOTT, GEOPHYSICIST



LEGEND:  
Units: gauss/meter

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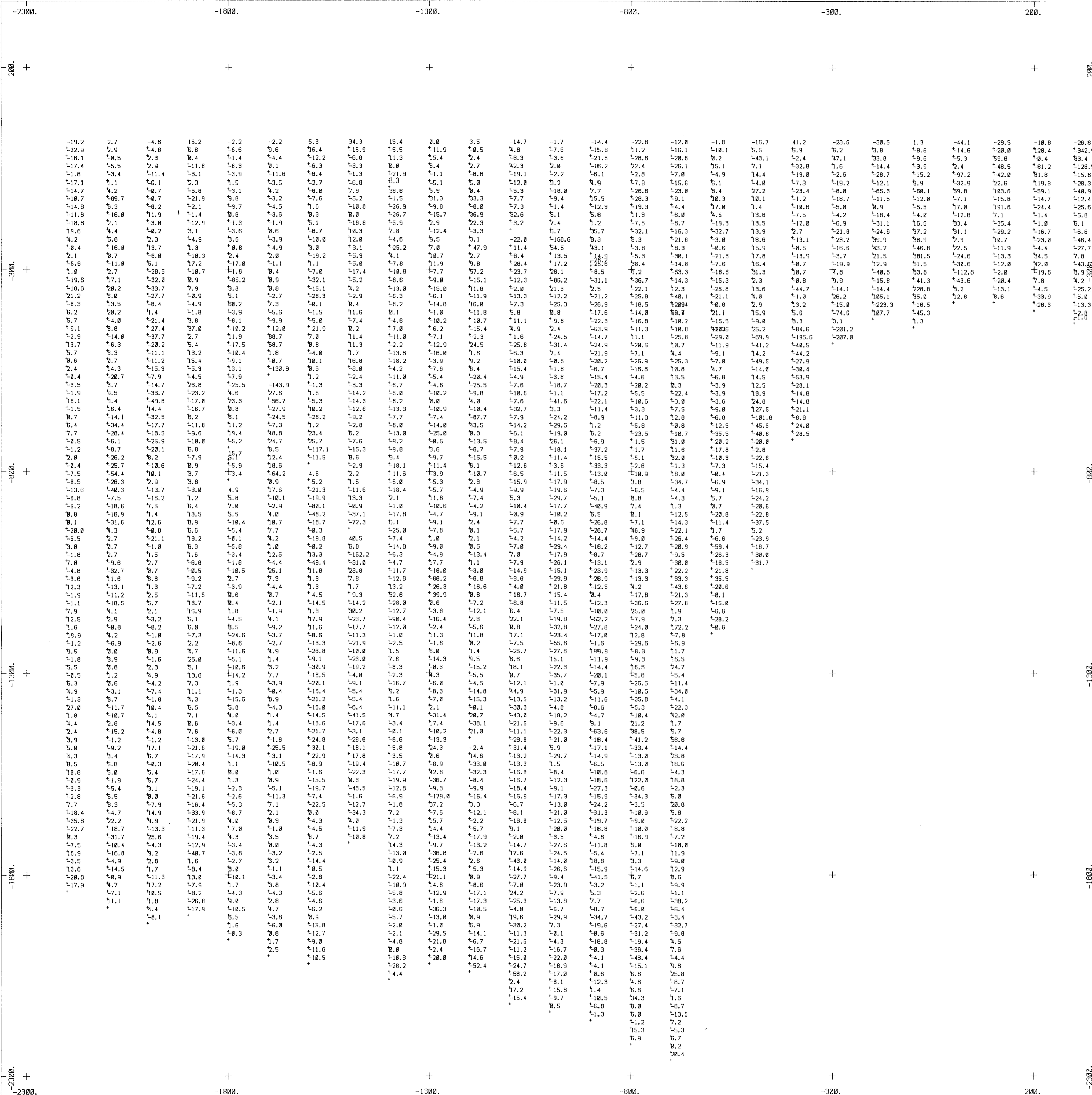
HOMESTAKE MINERAL DEVELOPMENT COMPANY

Yellowjacket Property - East Grid  
Atlin Area, B.C.

Vertical Gradient Magnetometer

FIGURE 7e

DRAWN BY: ARS DATE: December 1986  
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LEGEND:

Units: gauss/meter

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ASSESSMENT REPORT

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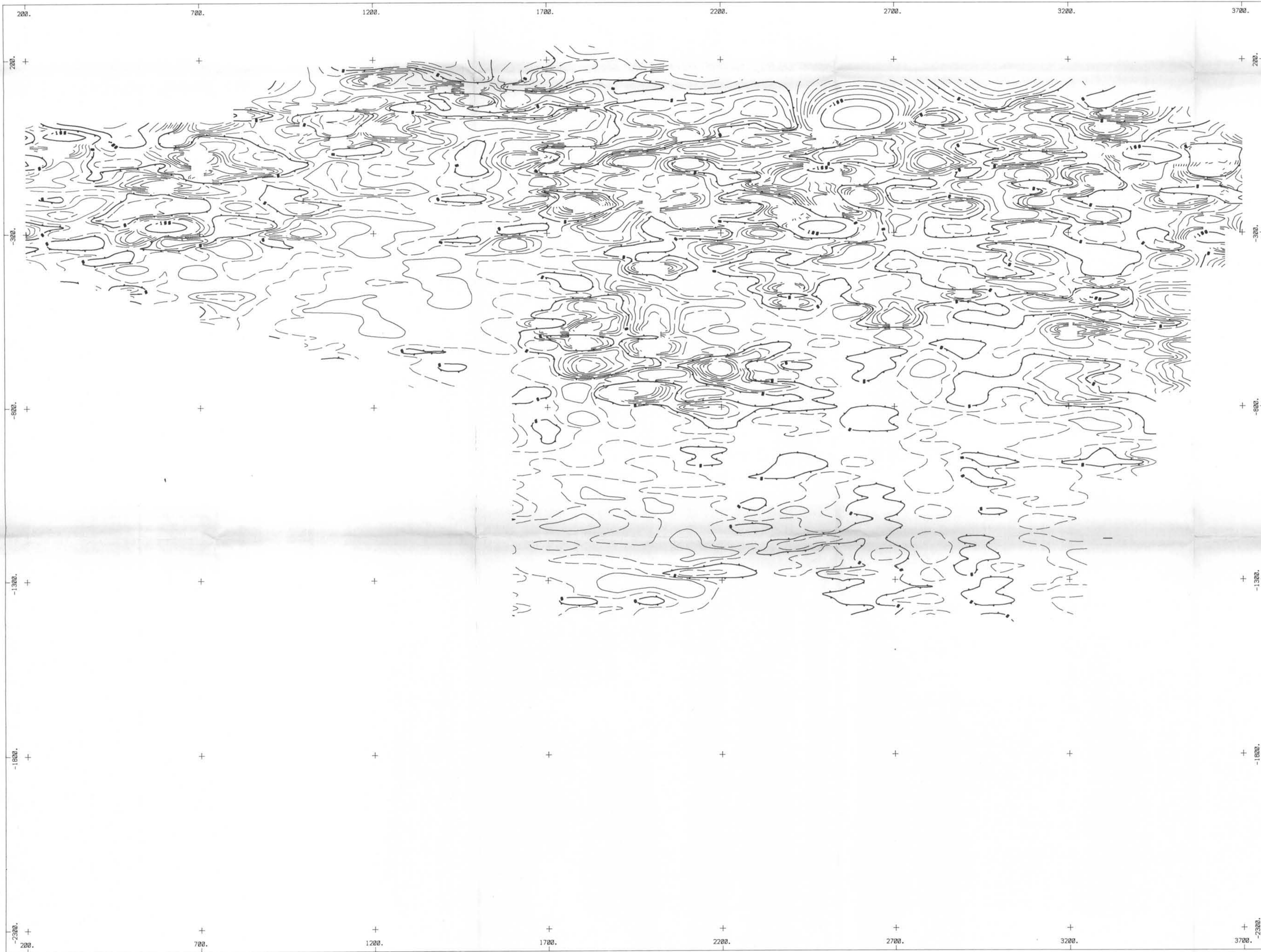
HOMESTAKE MINERAL DEVELOPMENT COMPANY

Yellowjacket Property - West Grid  
Atlin Area, B.C.

Vertical Gradient Magnetometer

FIGURE 71

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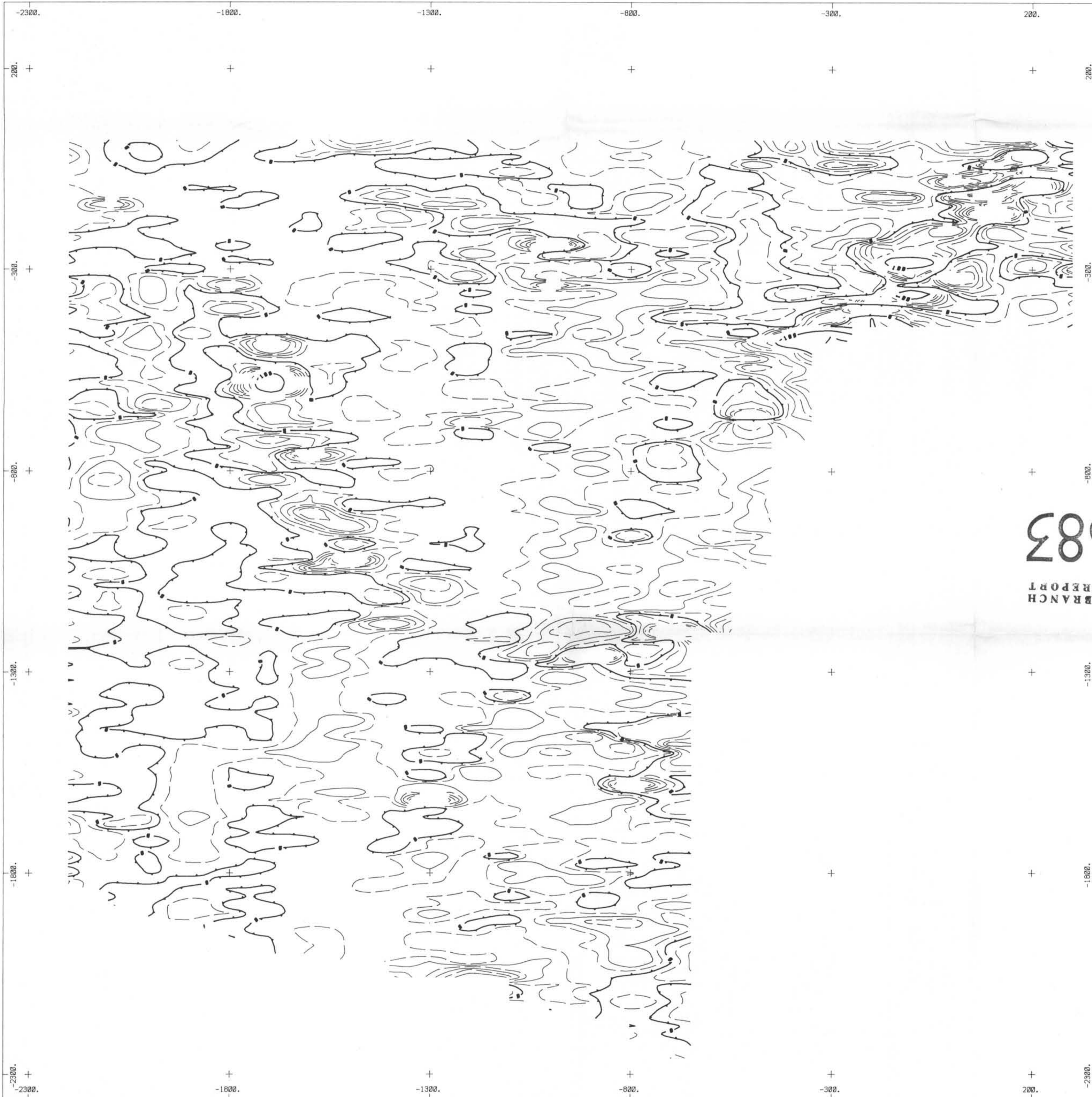
LEGEND:  
Units: gammas/ester  
Heavy solid contours: +/- 100, 200, 300, 400  
Light solid contours: +/- 20, 40, 60, 80, 140  
Dashed light contours: +/- 10, 30, 50  
ticks indicate depression side of B contour

HOMESTAKE MINERAL DEVELOPMENT COMPANY

Yellowjacket Property - East Grid  
Atlin Area, B.C.

Vertical Gradient Magnetometer  
FIGURE 7g

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 ASSESSMENT REPORT

LEGEND:

Units: gammas/meter

Heavy solid contours: +/- 100, 200, 300, 400

Light solid contours: +/- 20, 40, 60, 80, 140

Dashed light contours: +/- 10, 30, 50

ticks indicate depression side of B contour

HOMESTAKE MINERAL DEVELOPMENT COMPANY

Yellowjacket Property - West Grid  
 Atlin Area, B.C.

Vertical Gradient Magnetometer

FIGURE 7h

DRAWN BY: ARS DATE: December 1986  
 ALAN SCOTT, GEOPHYSICIST

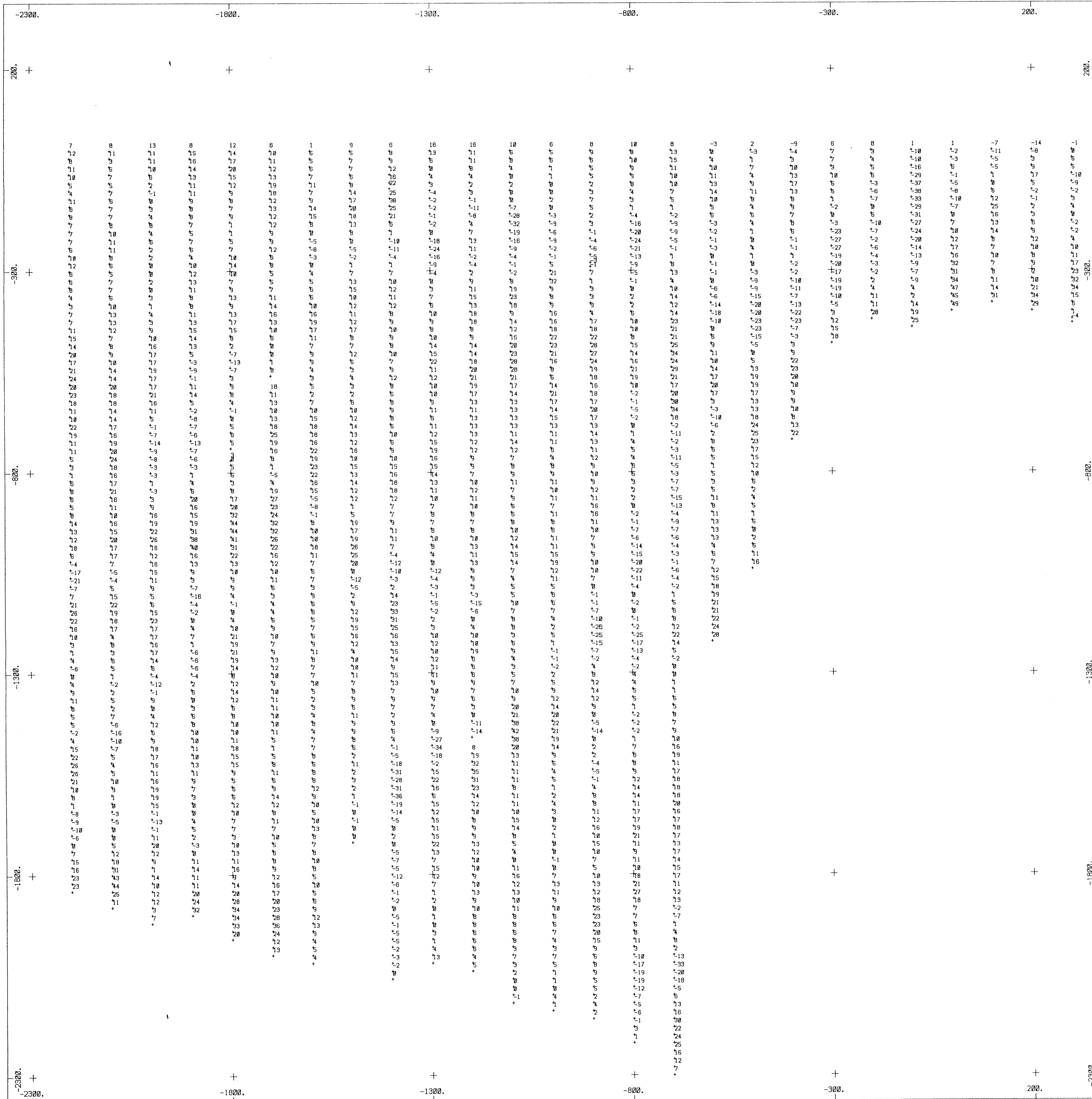


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LEGEND:

HOMESTAKE MINERAL DEVELOPMENT COMPANY  
Yellowjacket Property - East Grid  
Atlin Area, B.C.  
WLF Station NPM (Hawaii)  
In Phase Readings -  $\gamma$   
FIGURE 71  
DRAWN BY: ARS DATE: December 1986  
ALAN SCOTT, GEOPHYSICIST



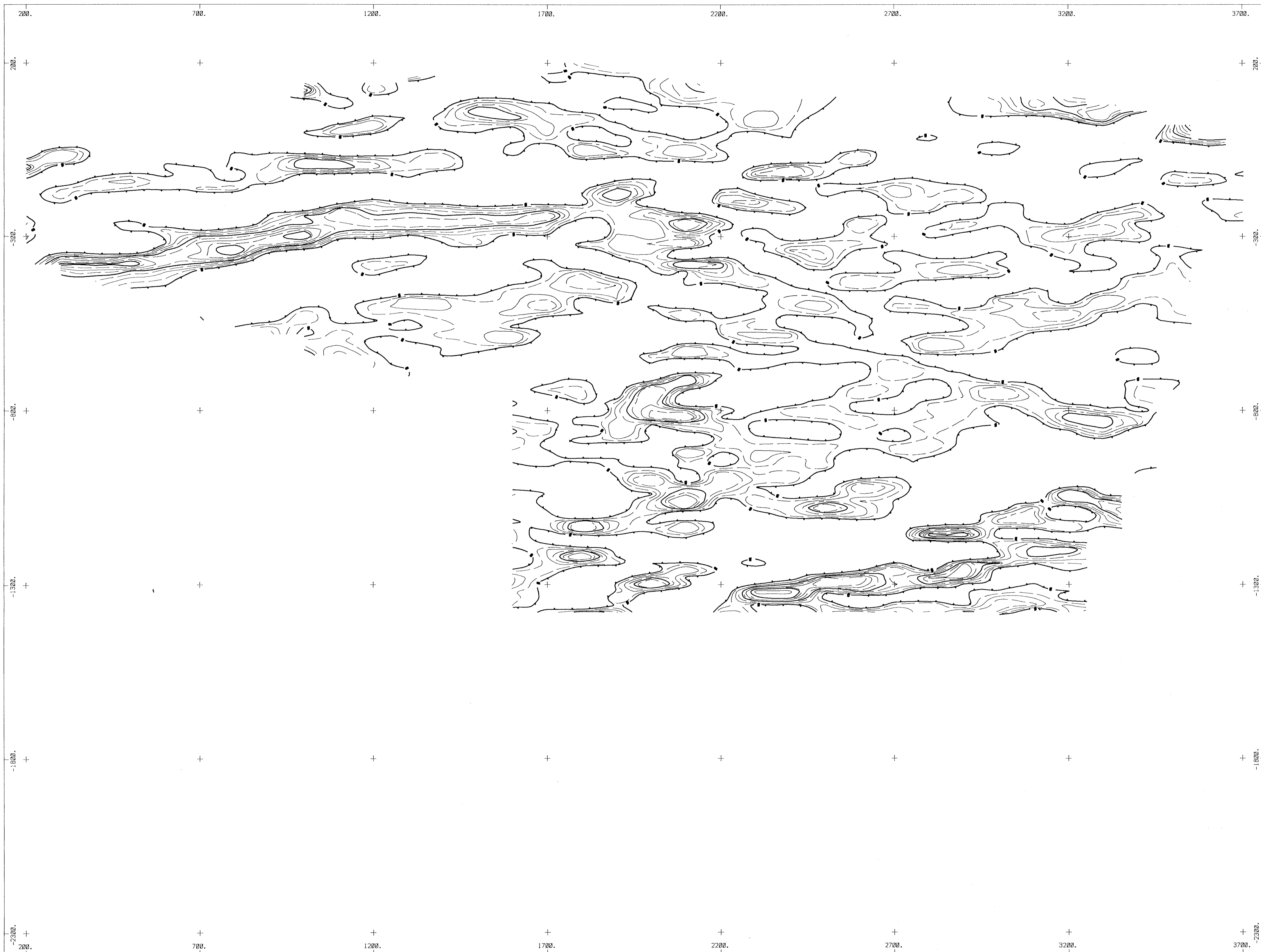
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LEGEND:

HOMESTAKE MINERAL DEVELOPMENT COMPANY	
YellowJacket Property - West Grid Atlin Area, B.C.	
VLF Station NPM (Howell) In Phase Readings - Z FIGURE 7]	
DRAWN BY:	ARS DATE: December 1986
ALAN SCOTT, GEOPHYSICIST	

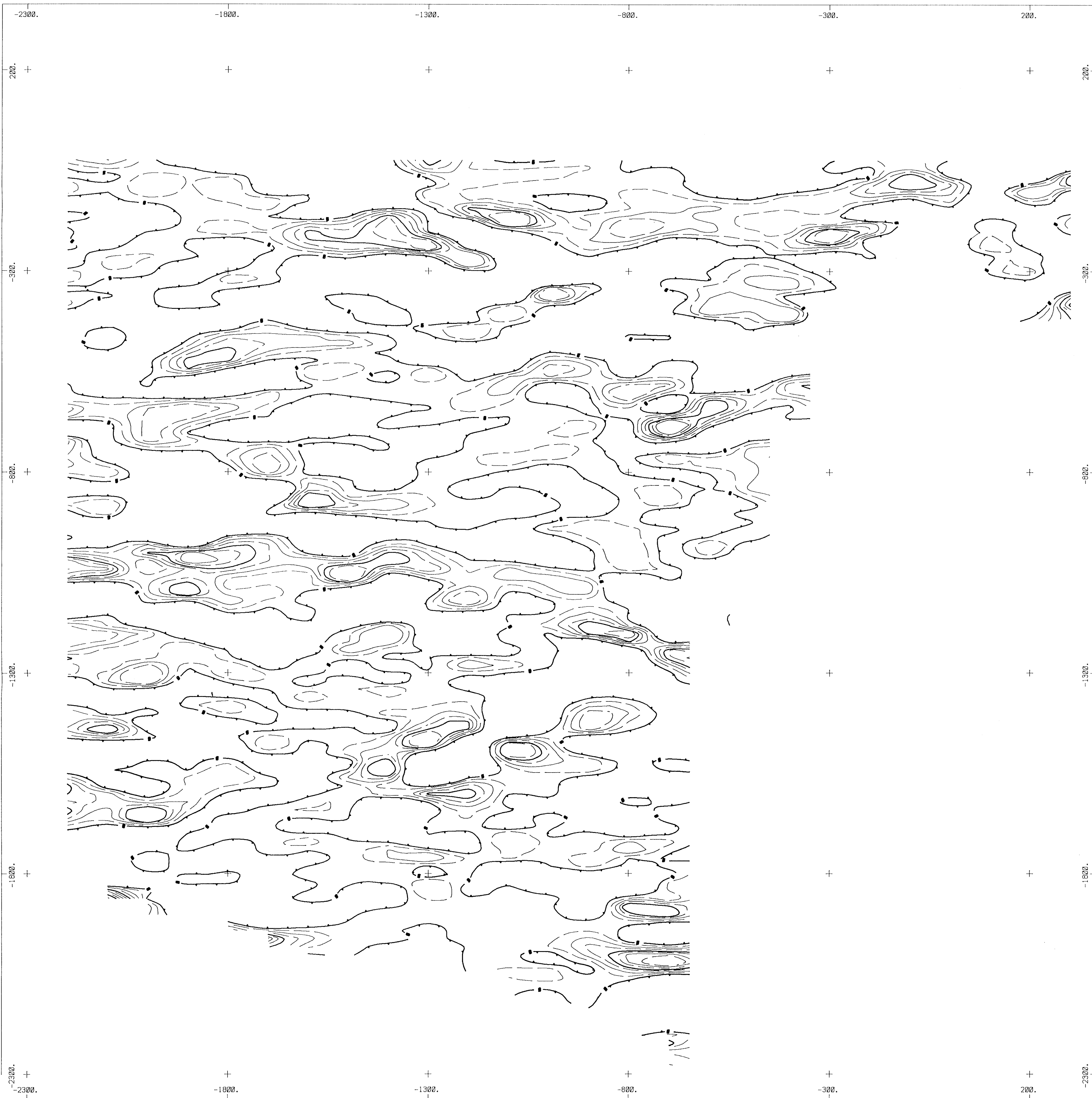




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LEGEND:  
 In Phase values Filtered at 15 m Interval  
 Heavy solid contour Interval    20 m  
 Light solid contour Interval    10 m  
 Light dashed contour Interval   5 m  
 ticks indicate depression side of B contour

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 YellowJacket Property - East Grid  
 Atlin Area, B.C.  
  
 VLF Station NPM (Howell)  
 Fraser Filter Contour Plan  
**FIGURE 7K**  
 DRAWN BY:    ARS    DATE:    December 1986  
 ALAN SCOTT, GEOPHYSICIST



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LEGEND:  
 In Phase values filtered at 15 m interval  
 Heavy solid contour interval    20 m  
 Light solid contour interval    10 m  
 Light dashed contour interval   5 m  
 ticks indicate depression side of 0 contour

HOMESTAKE MINERAL DEVELOPMENT COMPANY

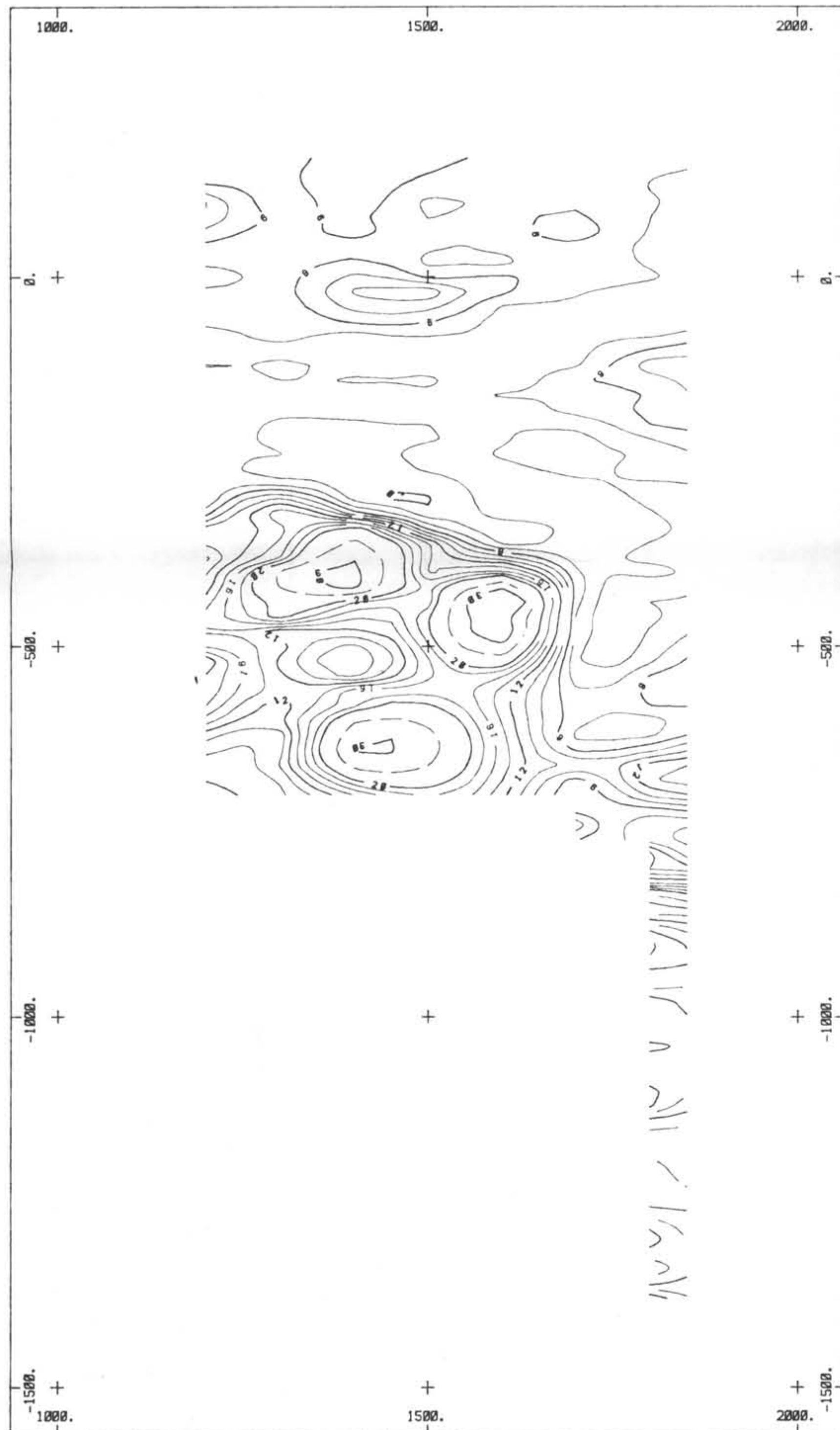
YellowJacket Property - West Grid  
 Atlin Area, B.C.

VLF Station NPM (Hawaii)  
 Fraser Filter Contour Plan

**FIGURE 71**

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ALAN SCOTT, GEOPHYSICIST



LEGEND:

Pole dipole array  $a=28$  meters  $n=1$

Current electrode N of potentials  $av/v$

Heavy contour lines: 8, 8, 12, 28, 38, 48, 58

Light contour lines: 2, 4, 8, 18, 14, 16, 18

Dashed contour lines: 25, 35, 45, 55

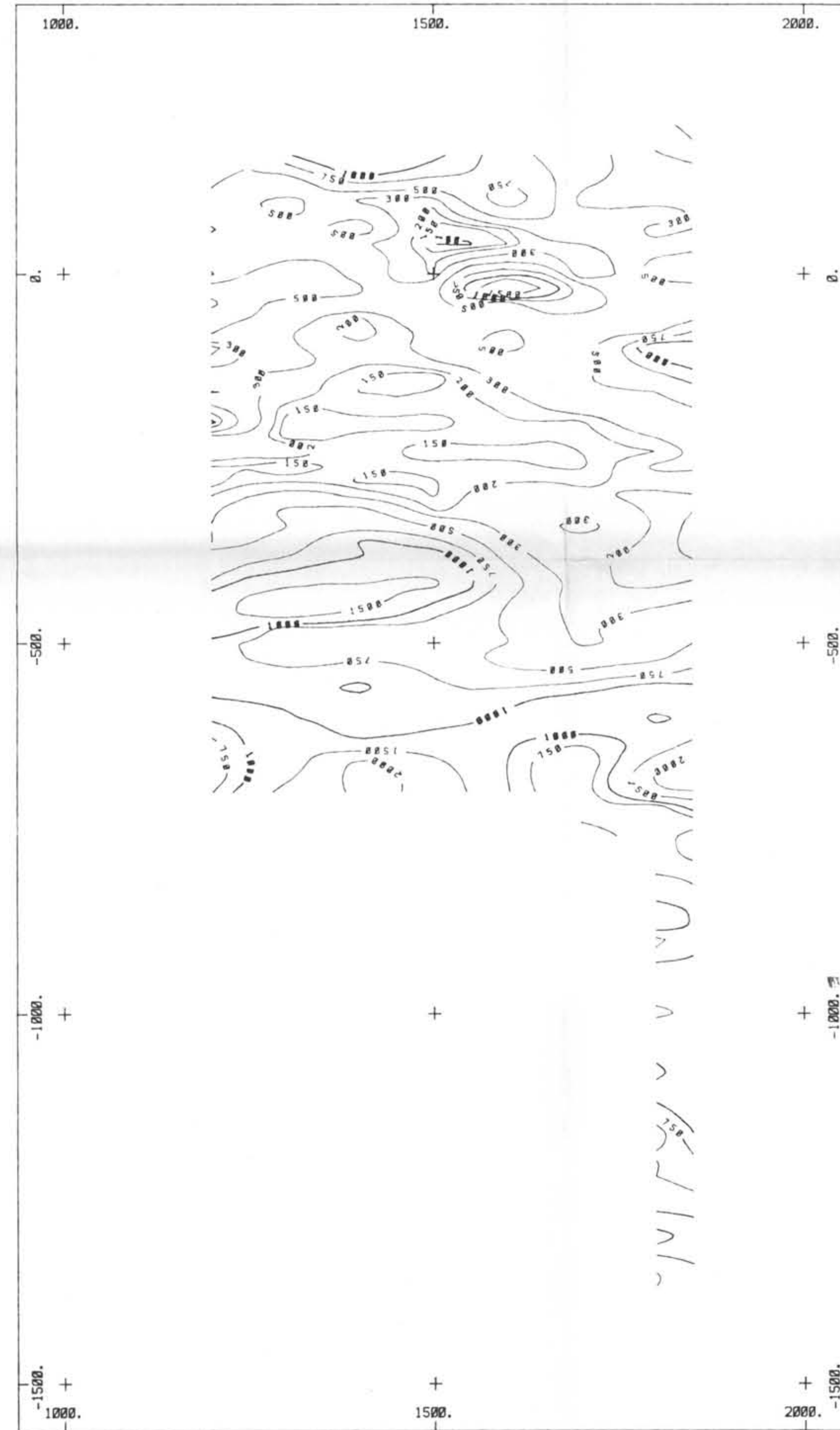
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Yellowjacket Property  
Atlin Area, B.C.

IPR11 Survey - Chargeability Contour Plan  
M7 (698 to 1058 milliseconds)

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ALAN SCOTT, GEOPHYSICIST



LEGEND:

Pole dipole array  $a=28$  meters  $n=1$

Current electrode N of potentials  $av/v$

Logarithmic contours: 50, 75, 100, 150, 200, 300, 500, 750, 1000, 1500, 2000, 3000

Heavy contours: 100 and 1000 intervals

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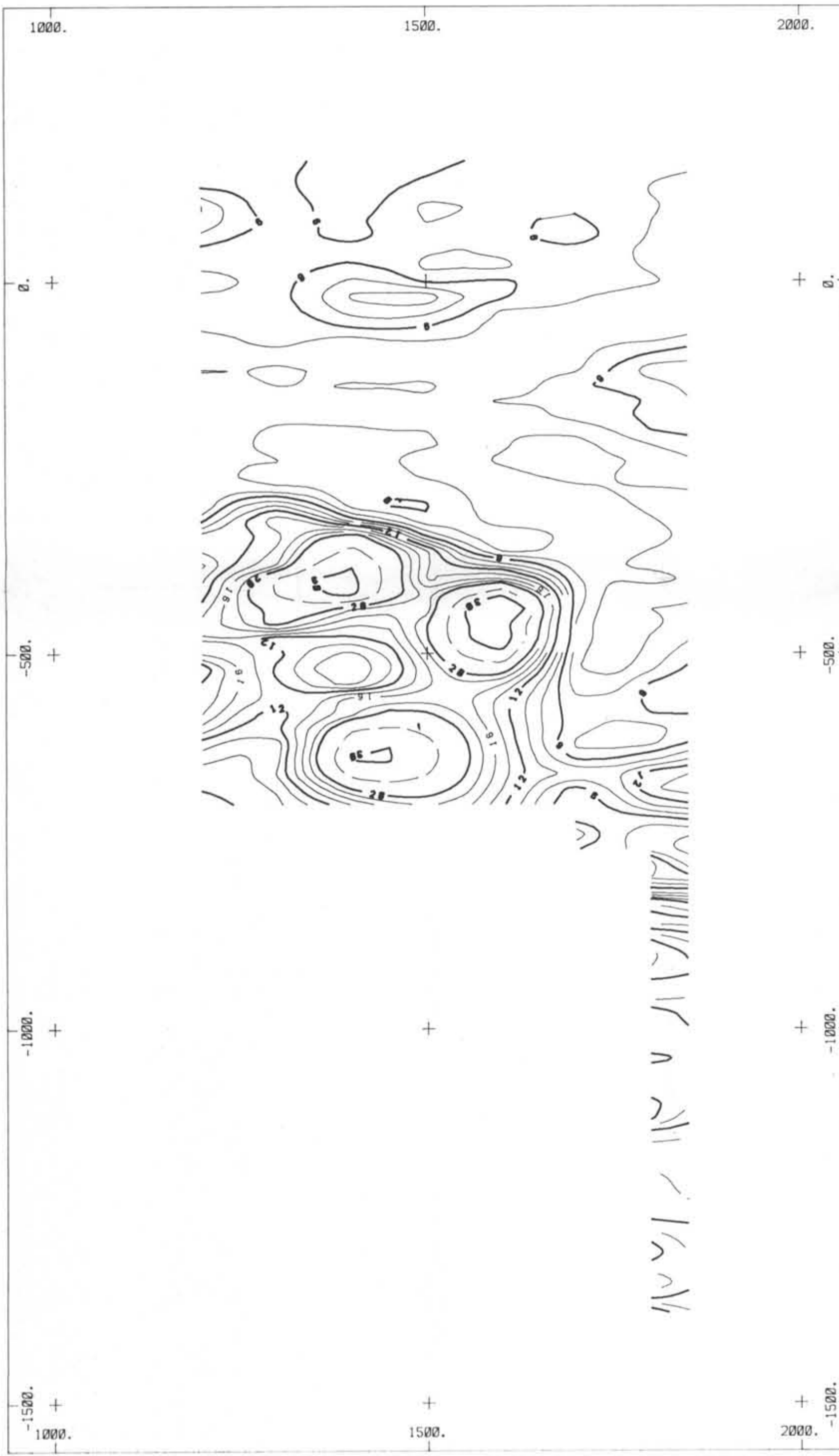
Yellowjacket Property  
Atlin Area, B.C.

IPR11 Survey - Resistivity Contour Plan

**FIGURE 7m**

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ALAN SCOTT, GEOPHYSICIST



LEGEND:

Pole dipole array  $a=20$  meters  $n=1$

Current electrode N of potentials  $mV/V$

Heavy contour lines: 8, 6, 12, 20, 30, 40, 50

Light contour lines: 2, 4, 8, 10, 14, 16, 18

Dashed contour lines: 25, 35, 45, 55

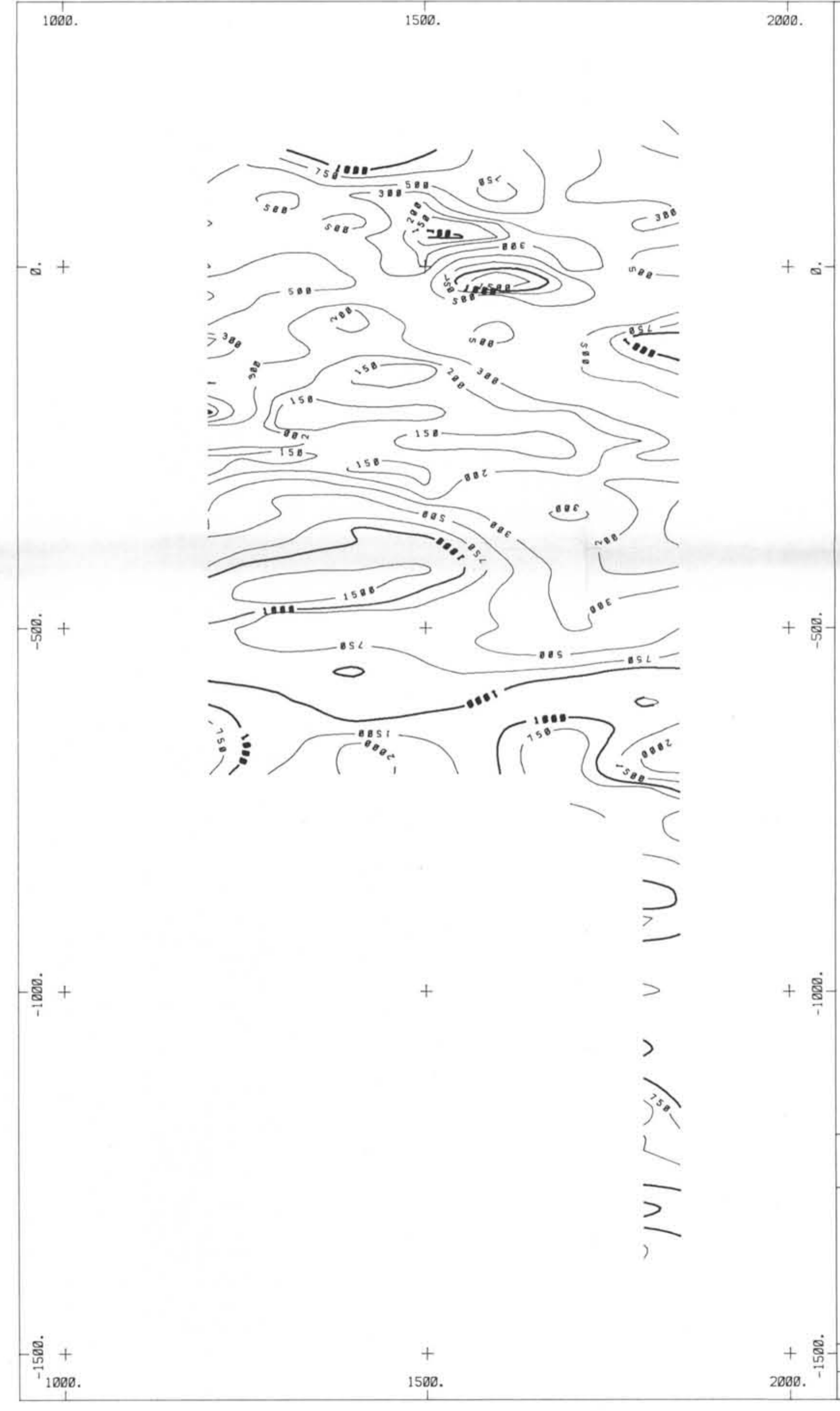
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Yellowjacket Property  
Atlin Area, B.C.

IPR11 Survey - Chargeability Contour Plan  
M7 (690 to 1050 milliseconds)

DRAWN BY: ARS    DATE: December, 1986

ALAN SCOTT, GEOPHYSICIST



LEGEND:

Pole dipole array  $a=20$  meters  $n=1$

Current electrode N of potentials  $ohm m$

Logarithmic contours: 50, 75, 100, 150, 200, 300, 500, 750, 1000, 1500, 2000, 3000

Heavy contour lines: 100 and 1000 intervals

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Yellowjacket Property  
Atlin Area, B.C.

IPR11 Survey - Resistivity Contour Plan

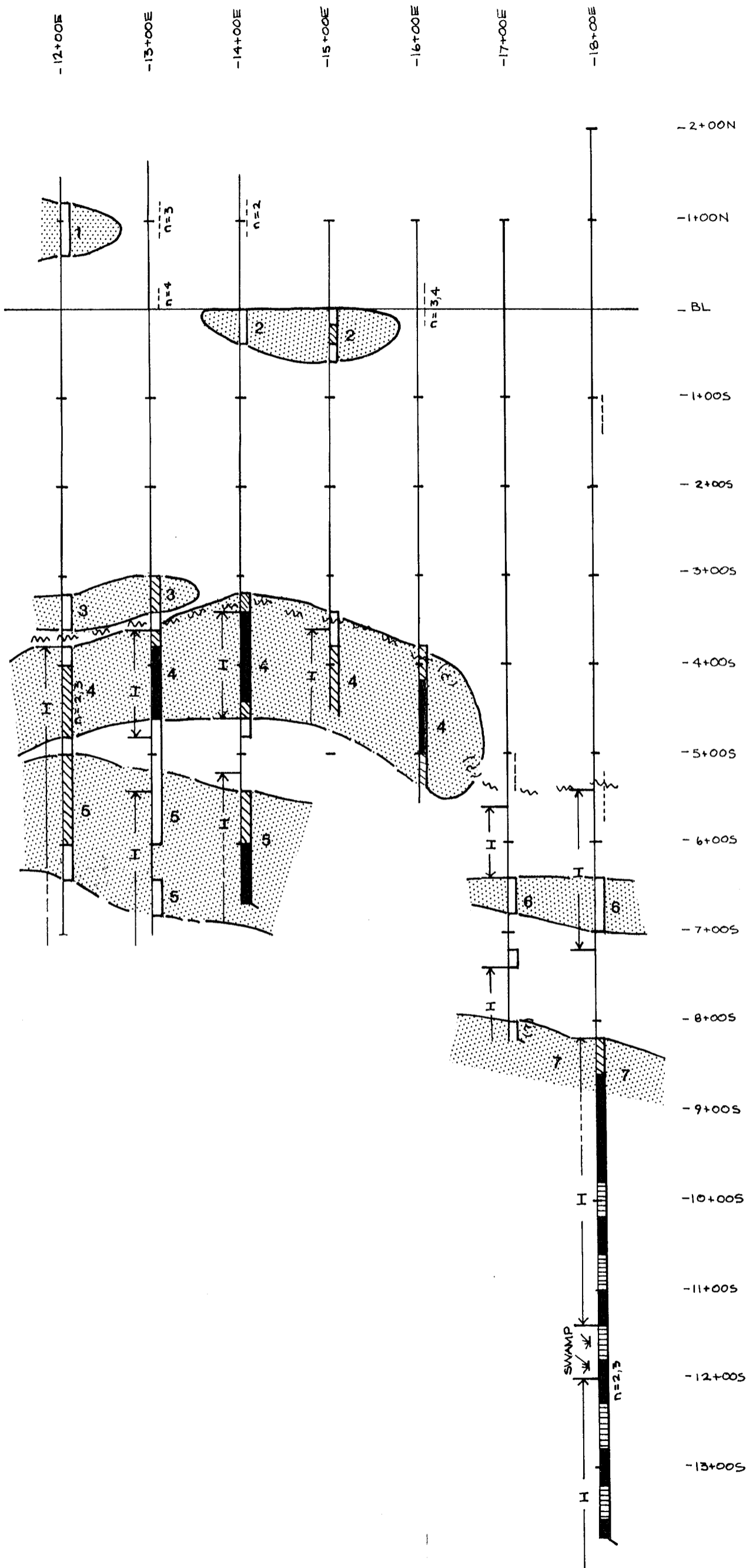
**FIGURE 7n**

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**GEOLOGICAL BRANCH  
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**LEGEND**

- STRONG CHARGEABILITY HIGH
- MODERATE CHARGEABILITY HIGH
- WEAK CHARGEABILITY HIGH
- CHARGEABILITY ANOMALY
  
- 1, 2 WEAK TO MODERATE CHARGEABILITY HIGH WITH SHORT TIME CONSTANT AND MODERATELY HIGH RESISTIVITY.
- 3 WEAK TO MODERATE CHARGEABILITY WITH VARIABLE TIME CONSTANT AND MODERATELY HIGH RESISTIVITY.
- 6 MODERATE TO STRONG CHARGEABILITY WITH LONG TIME CONSTANTS, COINCIDENT WITH MODERATE TO HIGH RESISTIVITY. POSSIBLE FLAT LYING SOURCE.
- 4, 5, 7 LOW AMPLITUDE CHARGEABILITY ANOMALY WITH HIGH RESISTIVITY AND SHORT TIME CONSTANTS.
  
- MAJOR LITHOLOGIC CHANGE

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0 100 200m  
SCALE 1:5000

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YELLOWJACKET PROPERTY BRITISH COLUMBIA			
<b>IP INTERPRETATION MAP</b>			
Interpretation by Alan Scott, geophysicist			
DRAWN MA	DATE 08/86	FILE CODE 104N/12	<b>FIGURE 8</b>
Revised _____			