

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

FILMED

VOLUME IV OF IV

GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,608

Part 4 of 4

NTS. 104N.12

LATITUDE: 59 deg. 36 min. north

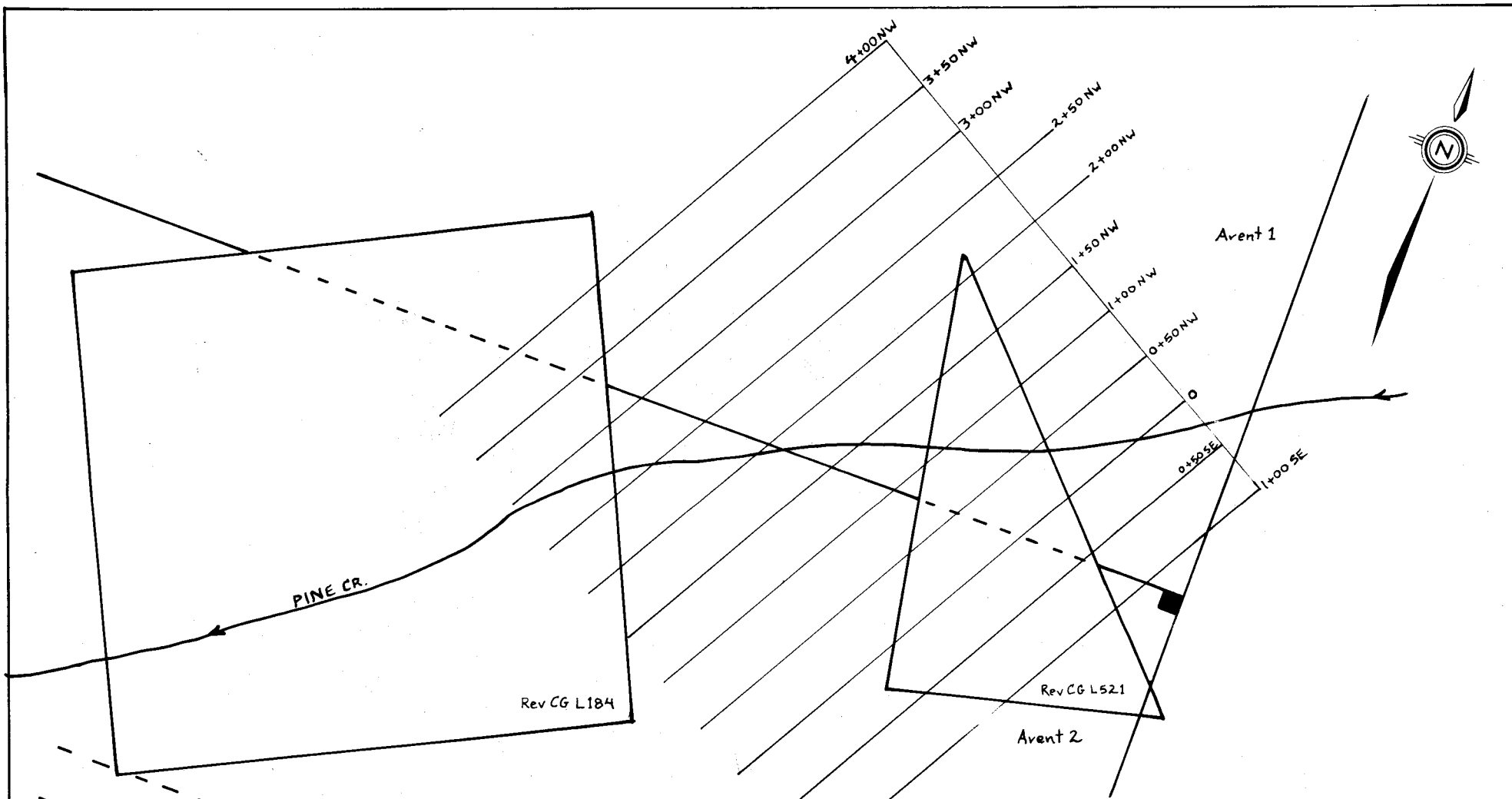
LONGITUDE: 133 deg. 33 min. west

OWNER: HOMESTAKE MINERAL DEVELOPMENT COMPANY
CANOVA RESOURCES LTD.

OPERATOR: HOMESTAKE MINERAL DEVELOPMENT COMPANY

BY: DARCY E. MARUD and PHILLIP SOUTHAM


DATE: DECEMBER, 1988

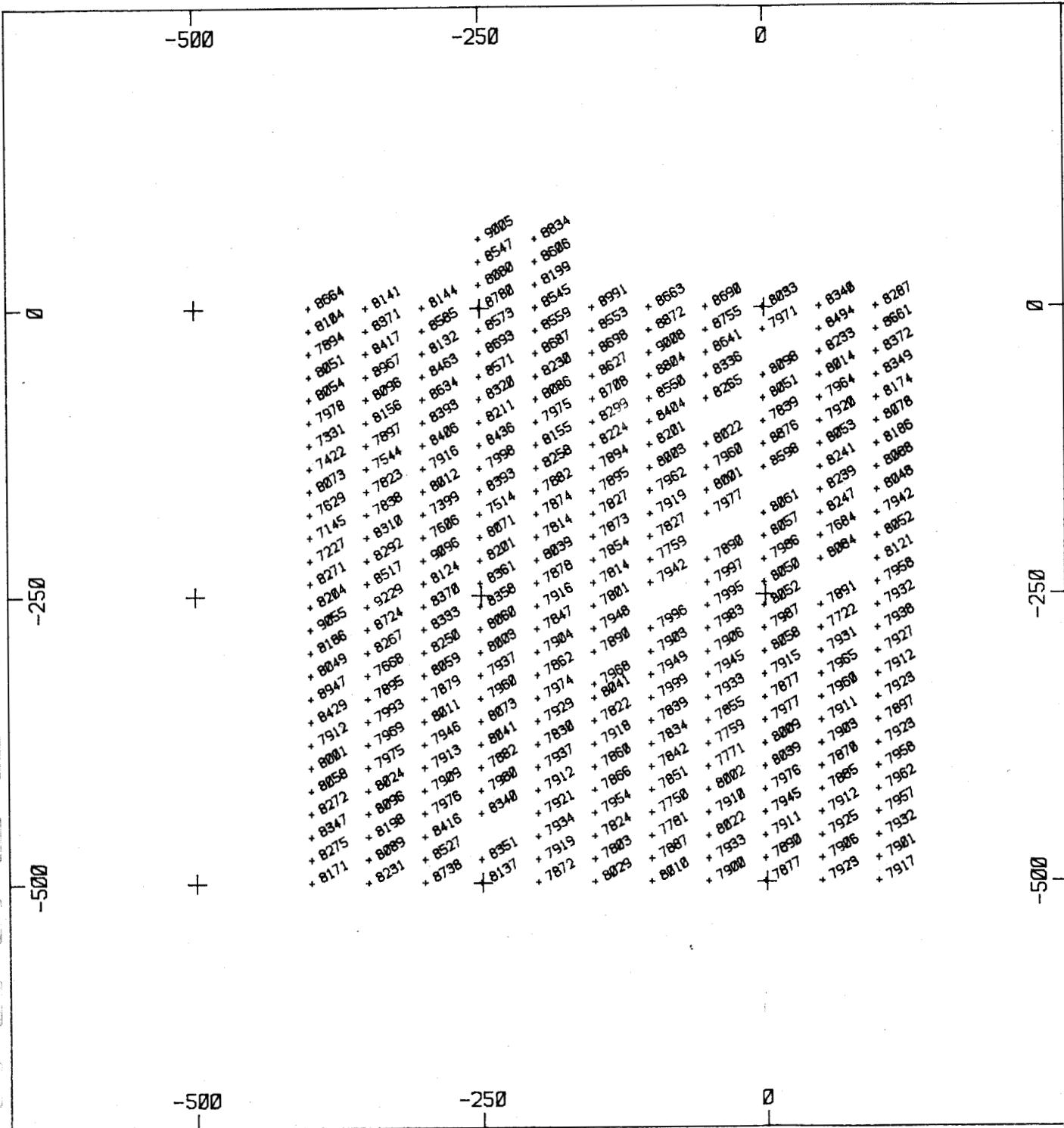


GEOLOGICAL BRANCH
ASSESSMENT REPORT

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| | | | |
|---|-------|-----------|----------|
|  | | | |
| HOMESTAKE MINERAL DEVELOPMENT COMPANY | | | |
| YELLOWJACKET PROPERTY BRITISH COLUMBIA | | | |
| LOCATION MAP 1988 GEOPHYSICS GRID | | | |
| DRAWN | DATE | FILE CODE | FIG. 10a |
| PS | 11/88 | 104N/12 | |
| Revised _____ | | | |



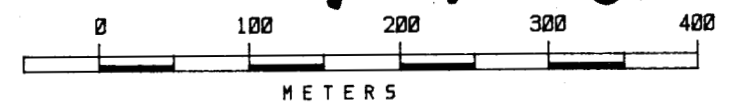
LEGEND:

50000 nT removed from all data

Equipment: IGS (SciIntrex MP-4)

**GEOLOGICAL BRANCH
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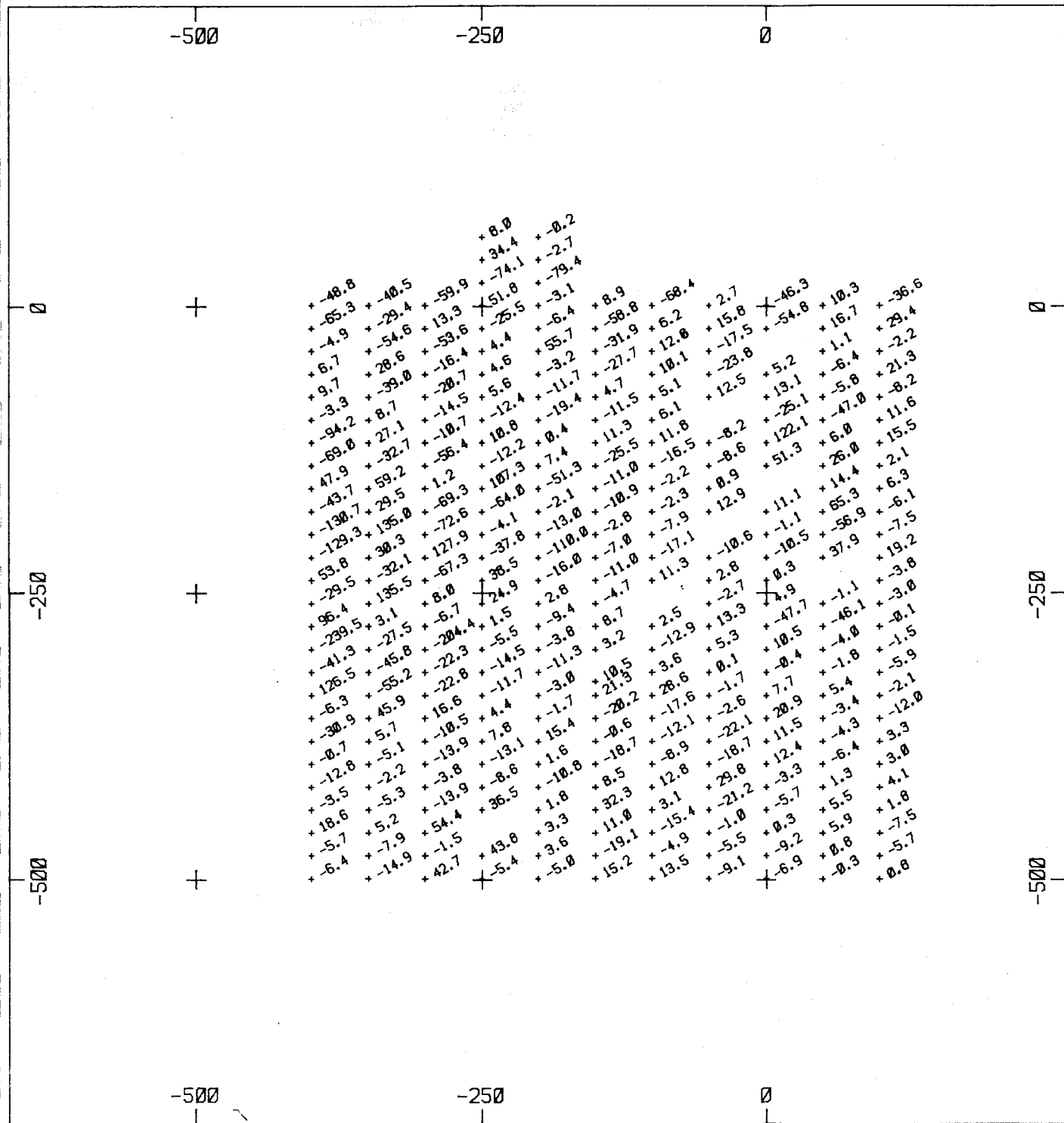
HOMESTAKE MINERAL DEV. CO.

Yellowjacket Property
Atlin, B.C.

Ground Mag Survey
Total Field Data

DRAWN BY: Jmt DATE: April 1988

SCOTT GEOPHYSICS LTD. FIG. 10b



LEGEND:

Sensor separation: 1 meter

Equipment: IGS (SciIntrex MP-4)
GEOLOGICAL BRANCH
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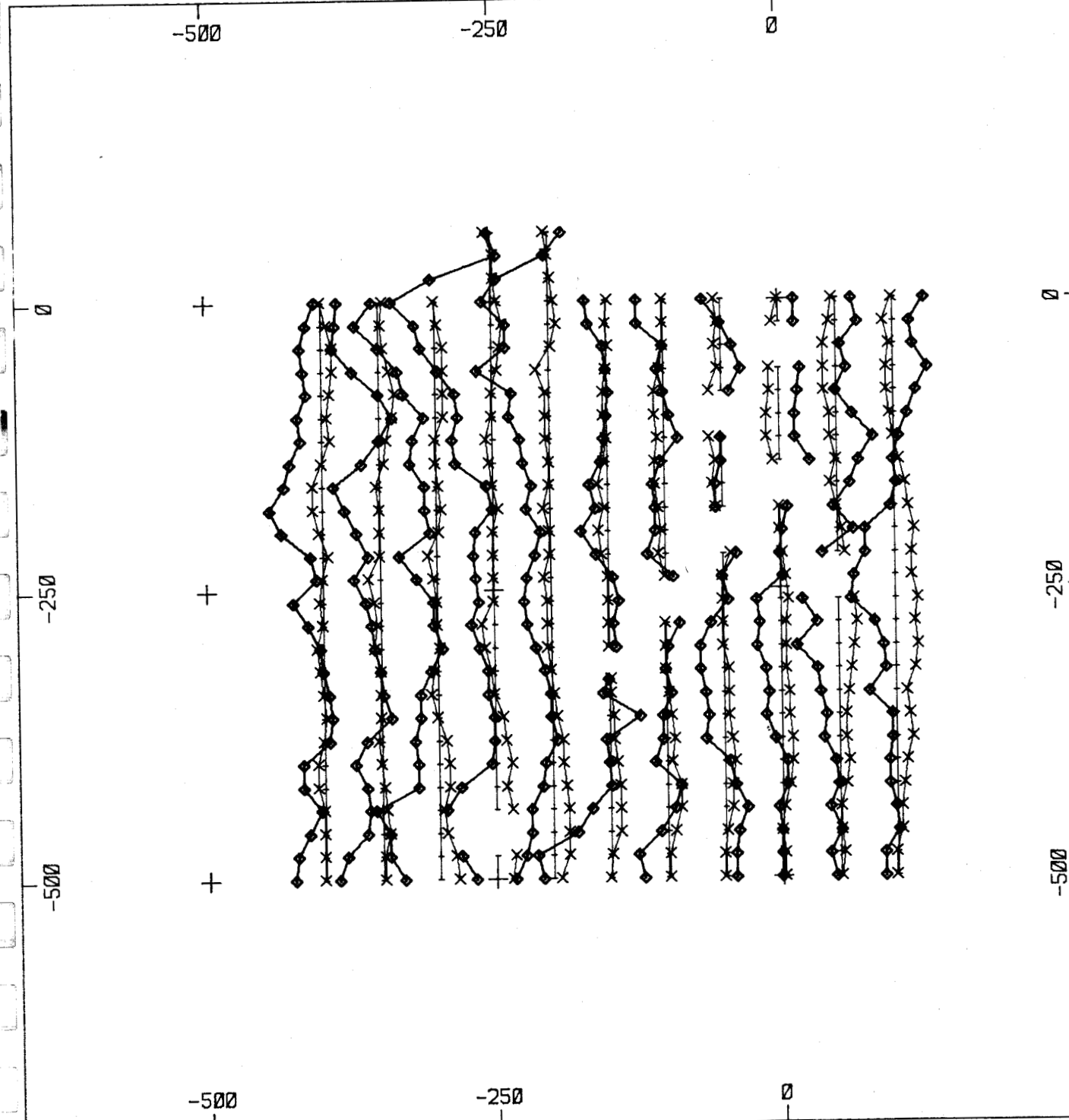
HOMESTAKE MINERAL DEV. CO.

Yellowjacket Property
 Atlin, B.C.

Ground Mag Survey
 Vertical Gradient Data

DRAWN BY: jmt DATE: Apr 11 1988

SCOTT GEOPHYSICS LTD. FIG. 10c

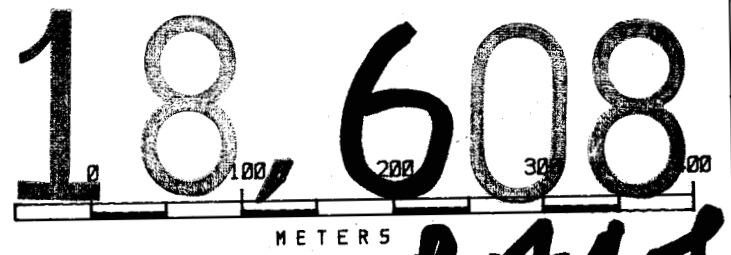


LEGEND:

- Station NLK (Seattle) 24.8 kHz
- ◇ . In Phase - 20% / cm
- × . Quadrature - 20% / cm

Positive values: to west
 Anomaly locn: point of max slope

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HOMESTAKE MINERAL DEV. CO.

Yellowjacket Property
 Atlin, B.C.

VLF-EM Survey
 Stacked Profiles (IP & Quad)

DRAWN BY: Jmt DATE: April 1988

SCOTT GEOPHYSICS LTD. FIG. 10d

GEOLOGICAL BRANCH
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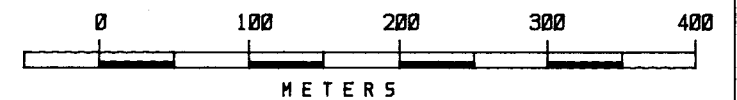
LEGEND:

Station: NLK (Seattle) 24.8 KHz

Equipment: IGS2 - SciIntrex

Contours: 0, 5, 10, 20, 30, 40

Note: Data re-sampled at 15 meter intervals before computing values



HOMESTAKE MINERAL DEV. CO.

Yellowjacket Property
Atlin B.C.

VLF-EM Survey
Fraser Filter Contour Plan

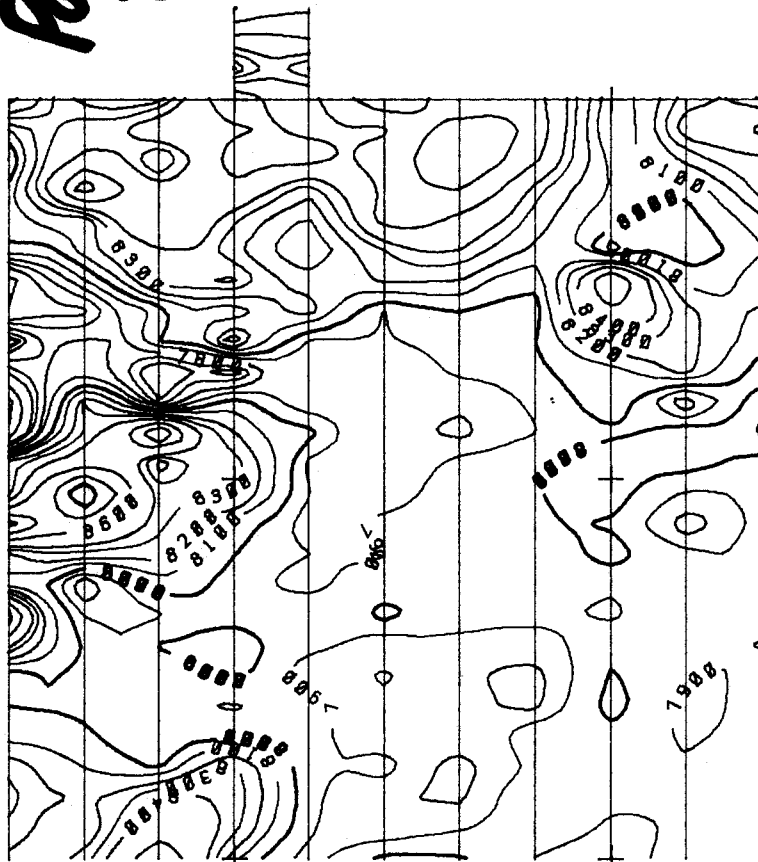
DRAWN BY: Jmt DATE: April 1988

SCOTT GEOPHYSICS LTD. FIG. 10e

GEOLOGICAL BRANCH
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LEGEND:

50000 nT removed from all data

Contour Interval: 100 nT

Equipment: IGS (SciIntrex MP-4)



HOMESTAKE MINERAL DEV. CO.

Yellowjacket Property
Atlin B.C.

Ground Mag Survey
Total Field Contour Plan

DRAWN BY:

Jmt

DATE:

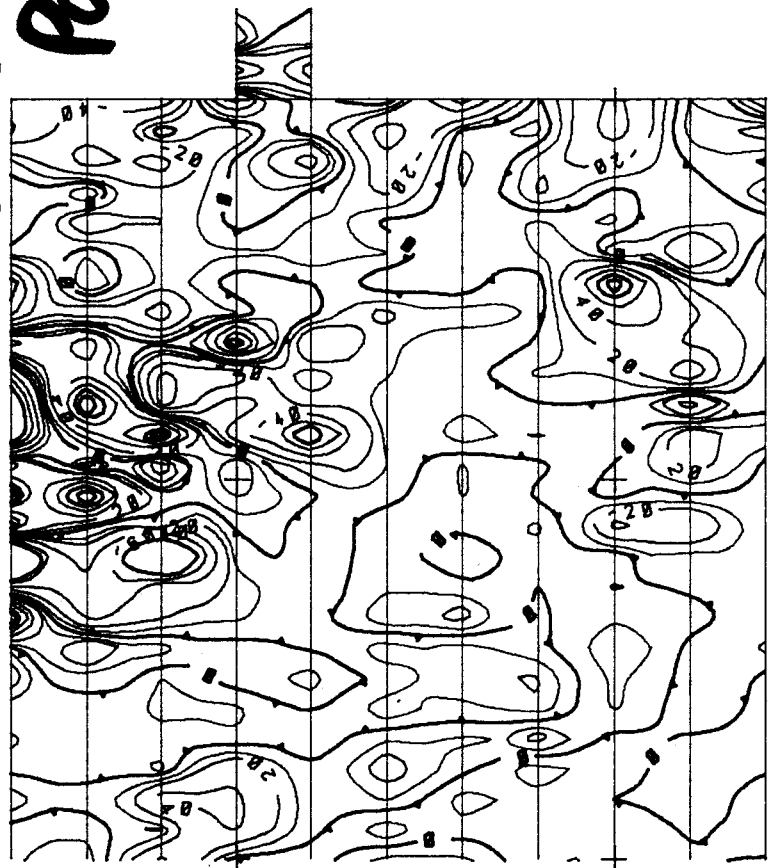
Apr 11 1988

SCOTT GEOPHYSICS LTD. FIG. 10f

GEOLOGICAL BRANCH
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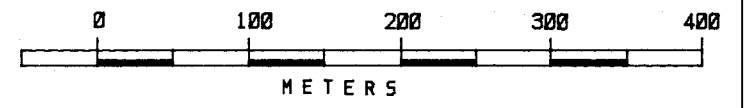
Part 4
of 4



LEGEND:

Sensor separation: 1 meter

Equipment: IGS (SciIntrex MP-4)



HOMESTAKE MINERAL DEV. CO.

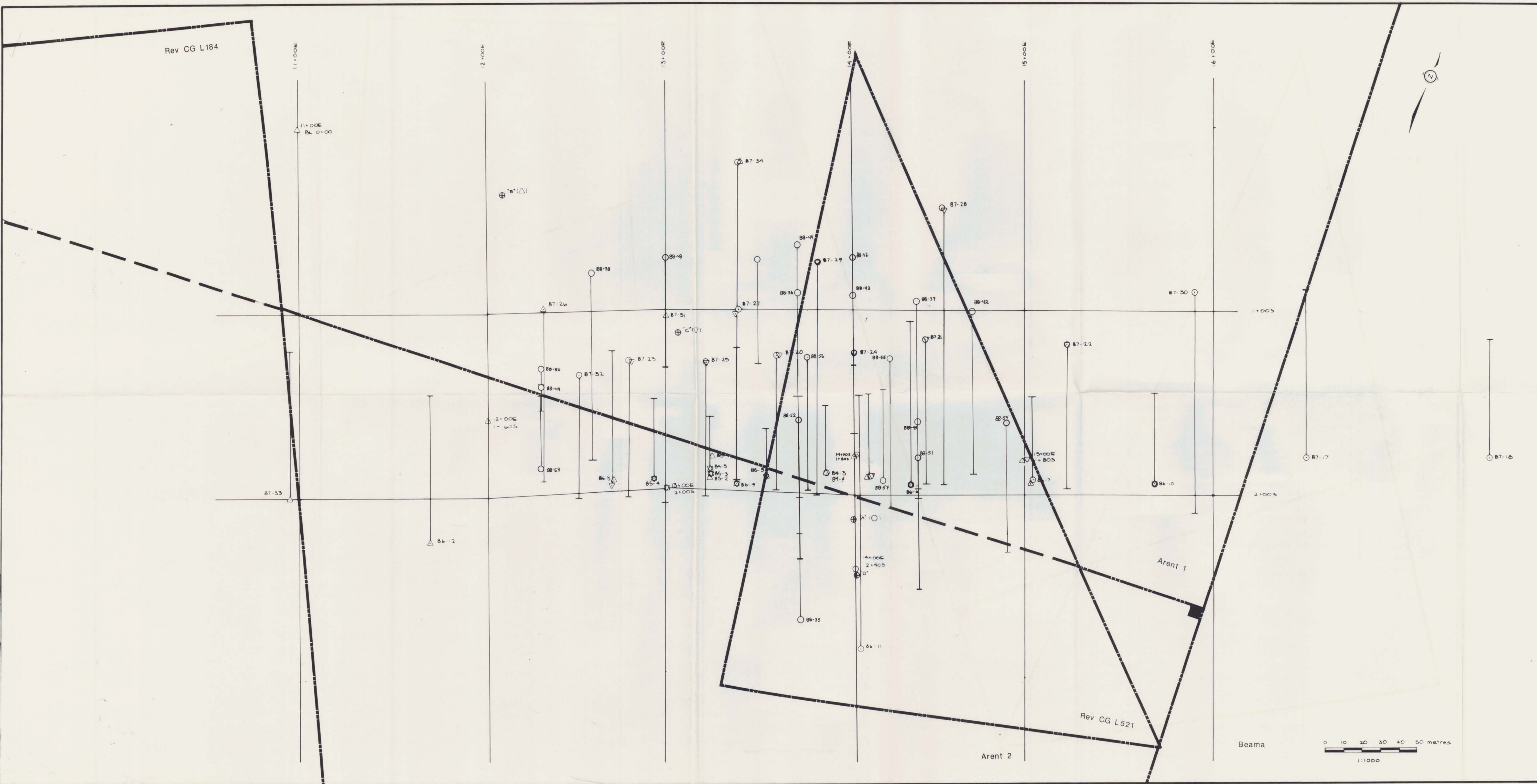
Yellowjacket Property
Atlin B.C.

Ground Mag Survey
Vertical Gradient Plan

DRAWN BY: Jmt DATE: April 1988

SCOTT GEOPHYSICS LTD. FIG. 10g

Rev CG L184



- ⊕ SURVEY POST
- SURVEY POINT FROM A
- △ SURVEY POINT FROM B
- ▽ SURVEY POINT FROM C

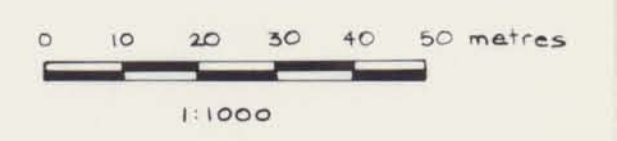
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HOMESTAKE
MINERAL DEVELOPMENT COMPANY
YELLOWJACKET PROPERTY
BRITISH COLUMBIA

DIAMOND DRILL HOLE PLAN

| | | | |
|-------------|---------------|----------------------|--------|
| DRAWN MA | DATE 08/85 | FILE CODE 104M/12 | FIG. 4 |
|-------------|---------------|----------------------|--------|





LEGEND

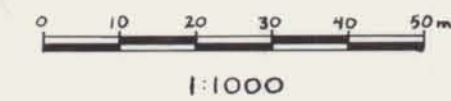
- 1 BASALT
- 2 SERPENTINITE
- 3 QUARTZ CARBONATE MARIPOSITE
- ALTERED SERP.
- 4a DIABASE
- 4b GABBRO
- 9 ANDESITE

- OUTCROP
- CONTACT (inferred)
- CONTACT (measured)
- ~ ~ ~ FAULT

GEOLOGICAL BRANCH
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| | | | |
|---|------------------|---------------------|---------|
| HOMESTAKE MINERAL DEVELOPMENT COMPANY YELLOWJACKET PROJECT ATLIN, BRITISH COLUMBIA BEDROCK SURFACE GEOLOGY 870 Meter Level | | | |
| DRAWN DM | DATE 12/12/88 | FILE CODE 104N12 | FIG. 6a |
| REVISED RBV. 1 | | | |

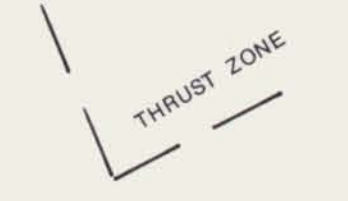


LEGEND

- 1 BASALT
- 2 SERPENTINITE
- 3 QUARTZ CARBONATE MARIPOSITE
- ALTERED SERP.
- 4a DIABASE
- 4b GABBRO
- 9 ANDESITE

- - - CONTACT(inferred)
- - - CONTACT(measured)
- ~ ~ ~ FAULT

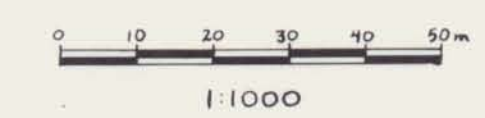
MINERALIZED ZONE BOUNDARIES



GEOLOGICAL BRANCH
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West Zone projected down onto plane.

| | | | |
|---|------------------|---------------------|---------|
| HOMESTAKE MINERAL DEVELOPMENT COMPANY | | | |
| YELLOWJACKET PROJECT ATLIN, BRITISH COLUMBIA | | | |
| GEOLOGY PLAN 800 Meter Level | | | |
| DRAWN DM | DATE 12/12/88 | FILE CODE 104N12 | FIG. 6b |
| Revised Rev. 1 | | | |

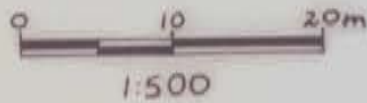
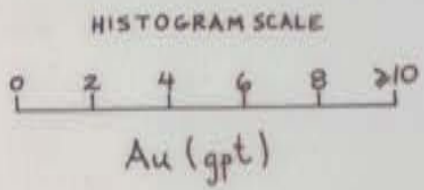
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86-48

87-31

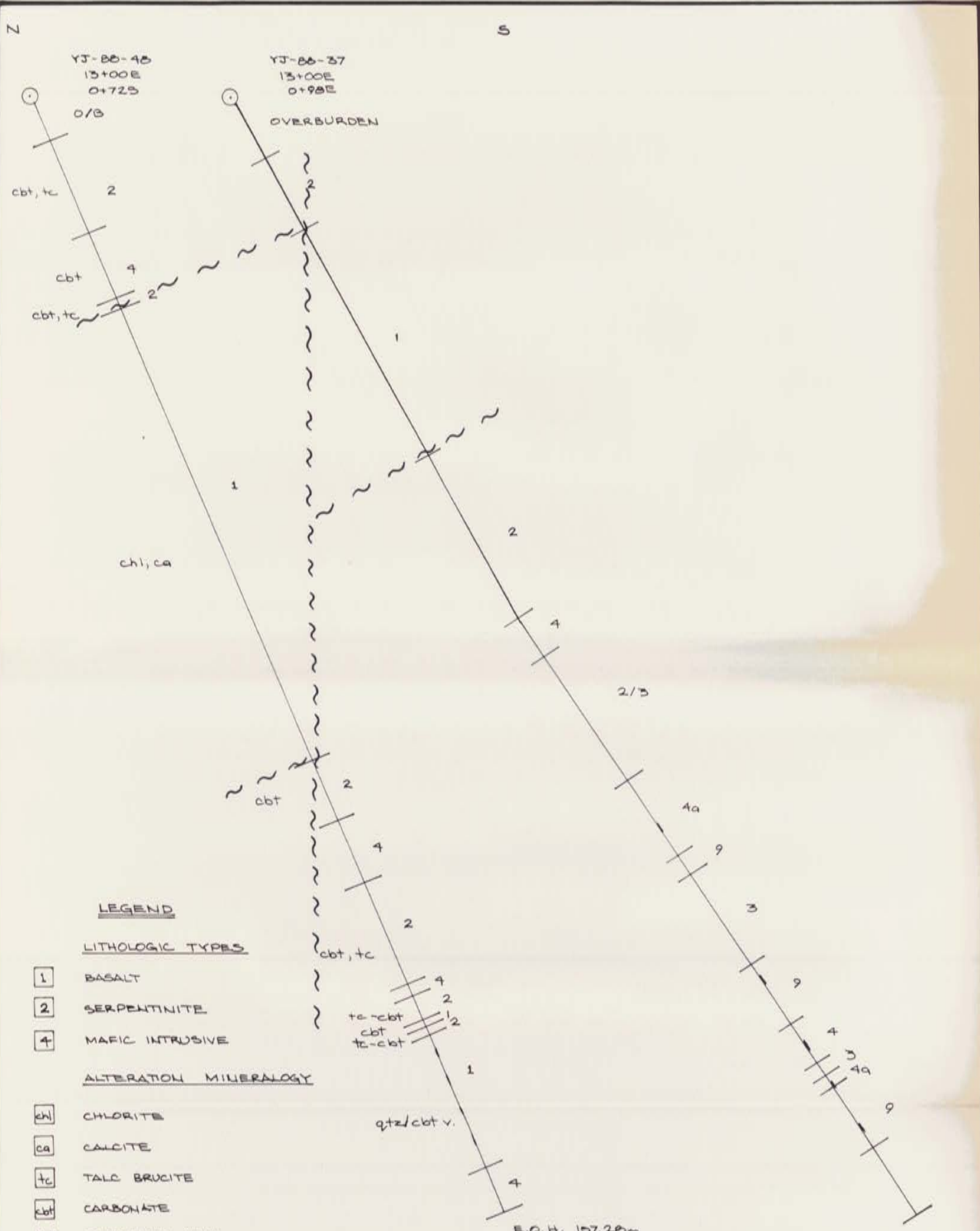
MAIN ZONE



YELLOWJACKET PROPERTY
BRITISH COLUMBIA

SECTION PLANE 13+00E
LOOKING EAST

Au GEOCHEMISTRY



LEGEND

LITHOLOGIC TYPES

- 1 BASALT
- 2 SERPENTINITE
- 4 MAFIC INTRUSIVE

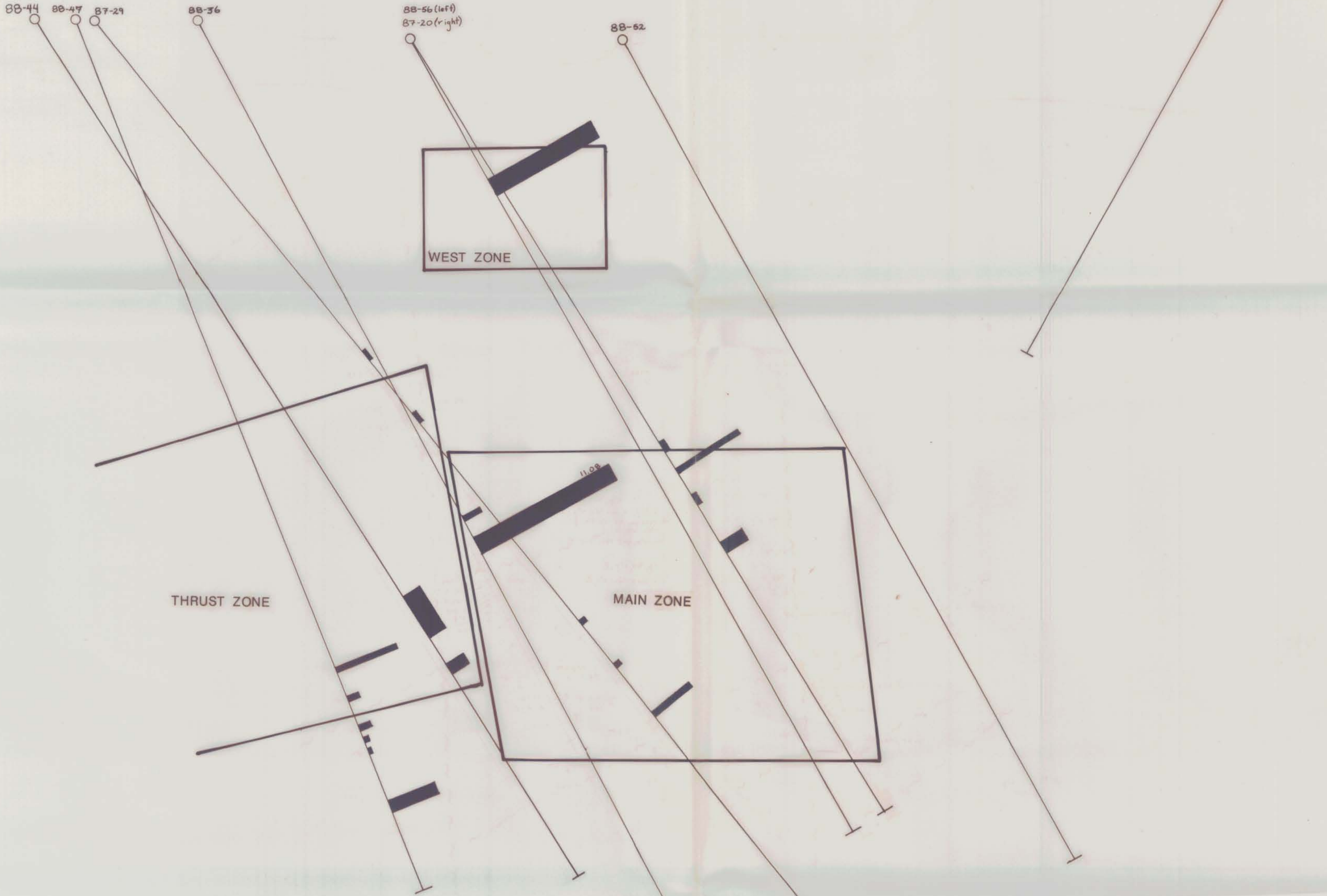
ALTERATION MINERALOGY

- chl CHLORITE
- ca CALCITE
- tc TALC BRUCITE
- cbt CARBONATE
- cbt v. CARBONATE VEIN
- qtz v. QUARTZ VEIN



AZIMUTH: 160°
DIP: -68°

| | | | |
|---|---------------|----------------------|---------|
| HOMESTAKE MINERAL DEVELOPMENT COMPANY YELLOWJACKET PROPERTY BRITISH COLUMBIA | | | |
| SECTION PLANE 13+00E GEOLOGY AND ALTERATION | | | |
| DRAWN MJD | DATE 10/88 | FILE CODE 104N/12 | Fig. 7a |



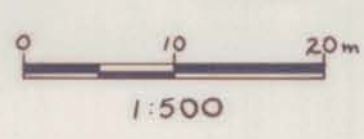
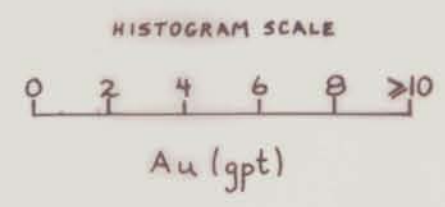
GEOLOGICAL BRANCH
ASSESSMENT REPORT

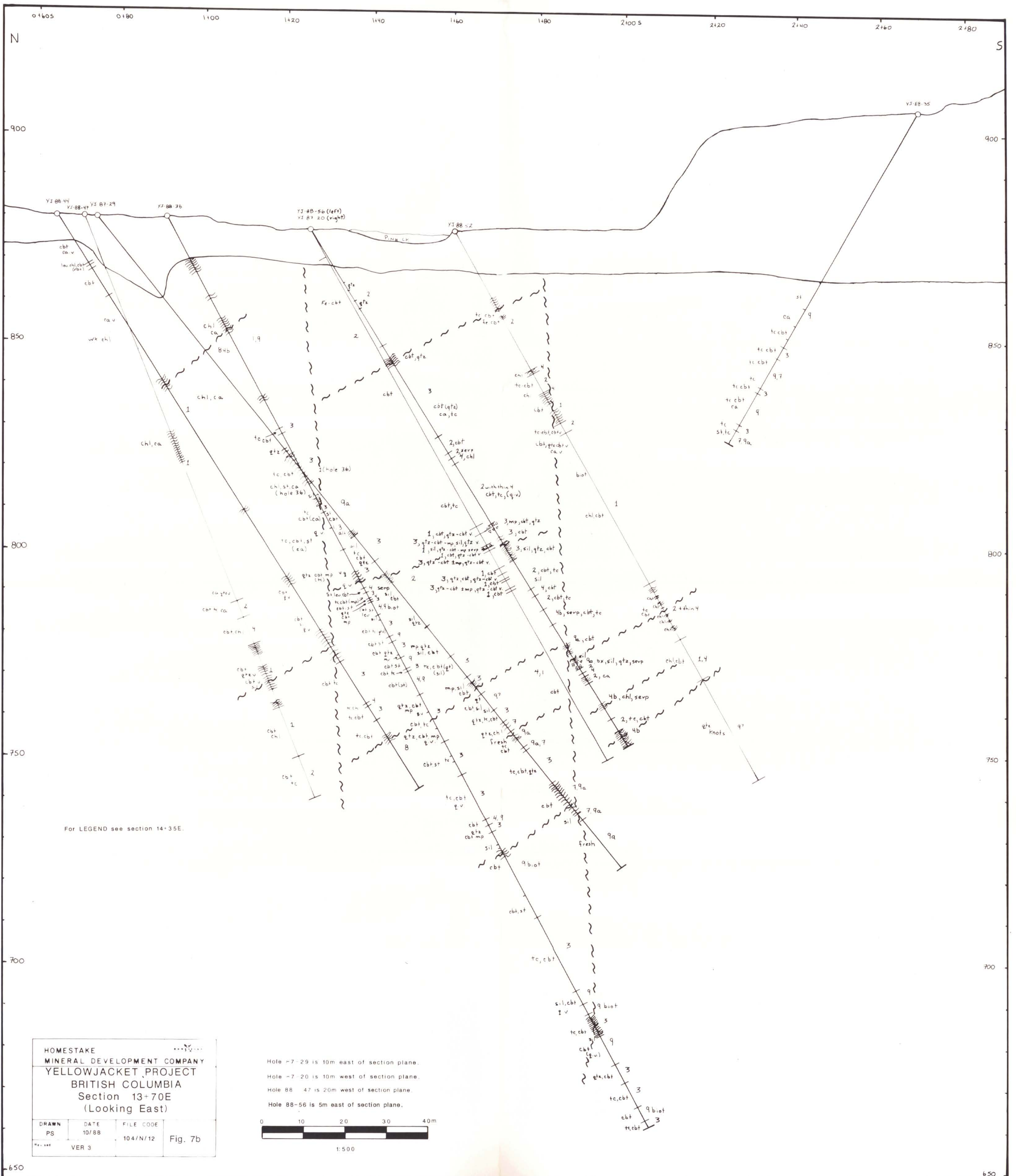
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YELLOWJACKET PROPERTY
BRITISH COLUMBIA
SECTION PLANE 13+70E
LOOKING EAST

Au GEOCHEMISTRY

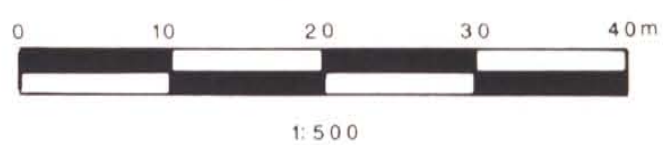


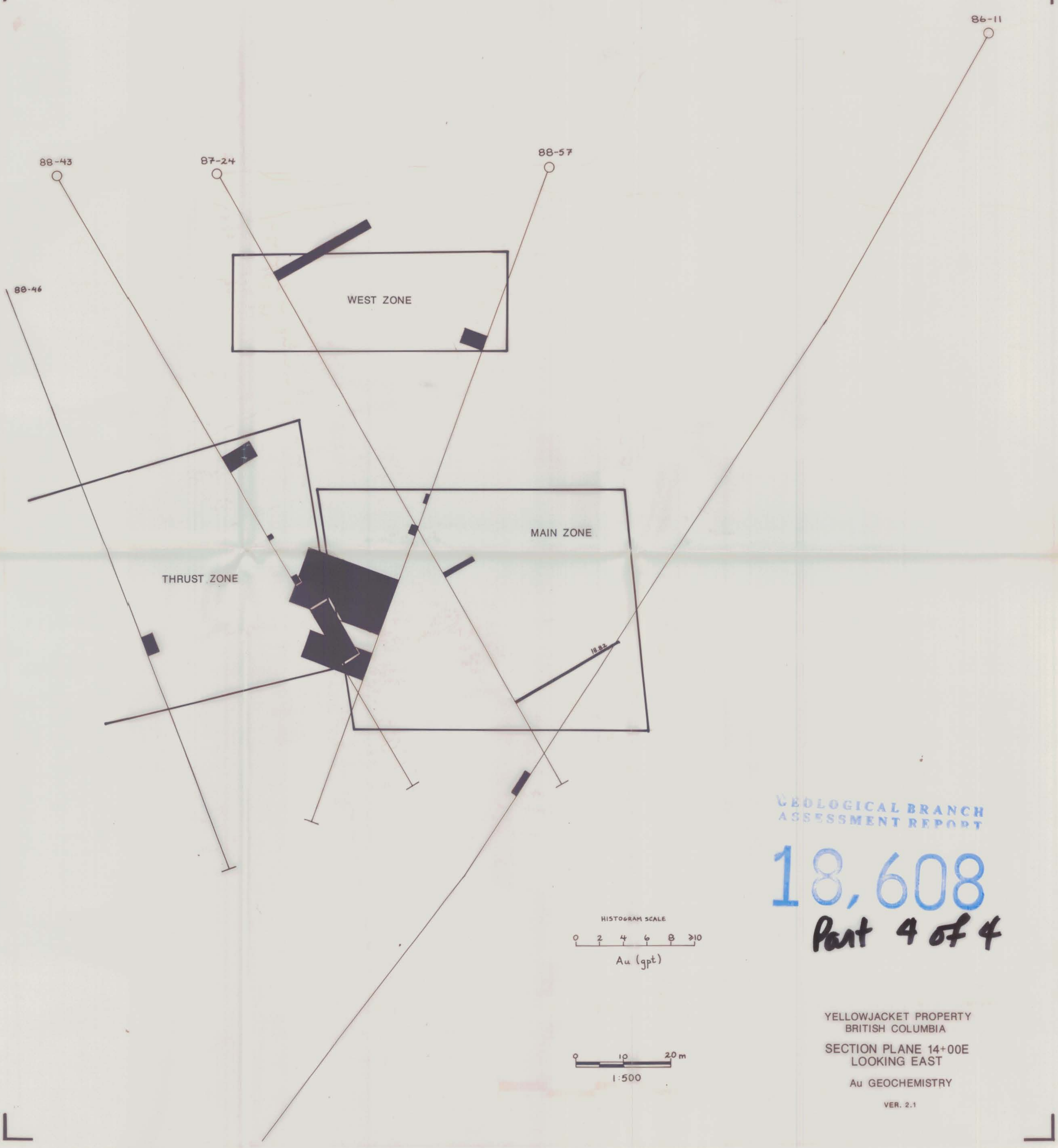


For LEGEND see section 14+35E.

| | | | |
|--|---------------|-----------------------|---------|
| HOMESTAKE MINERAL DEVELOPMENT COMPANY YELLOWJACKET PROJECT BRITISH COLUMBIA Section 13+70E (Looking East) | | | |
| DRAWN PS | DATE 10/88 | FILE CODE 104/N/12 | Fig. 7b |
| VER 3 | | | |

Hole -7-29 is 10m east of section plane.
 Hole -7-20 is 10m west of section plane.
 Hole 88-47 is 20m west of section plane.
 Hole 88-56 is 5m east of section plane.





GEOLOGICAL BRANCH
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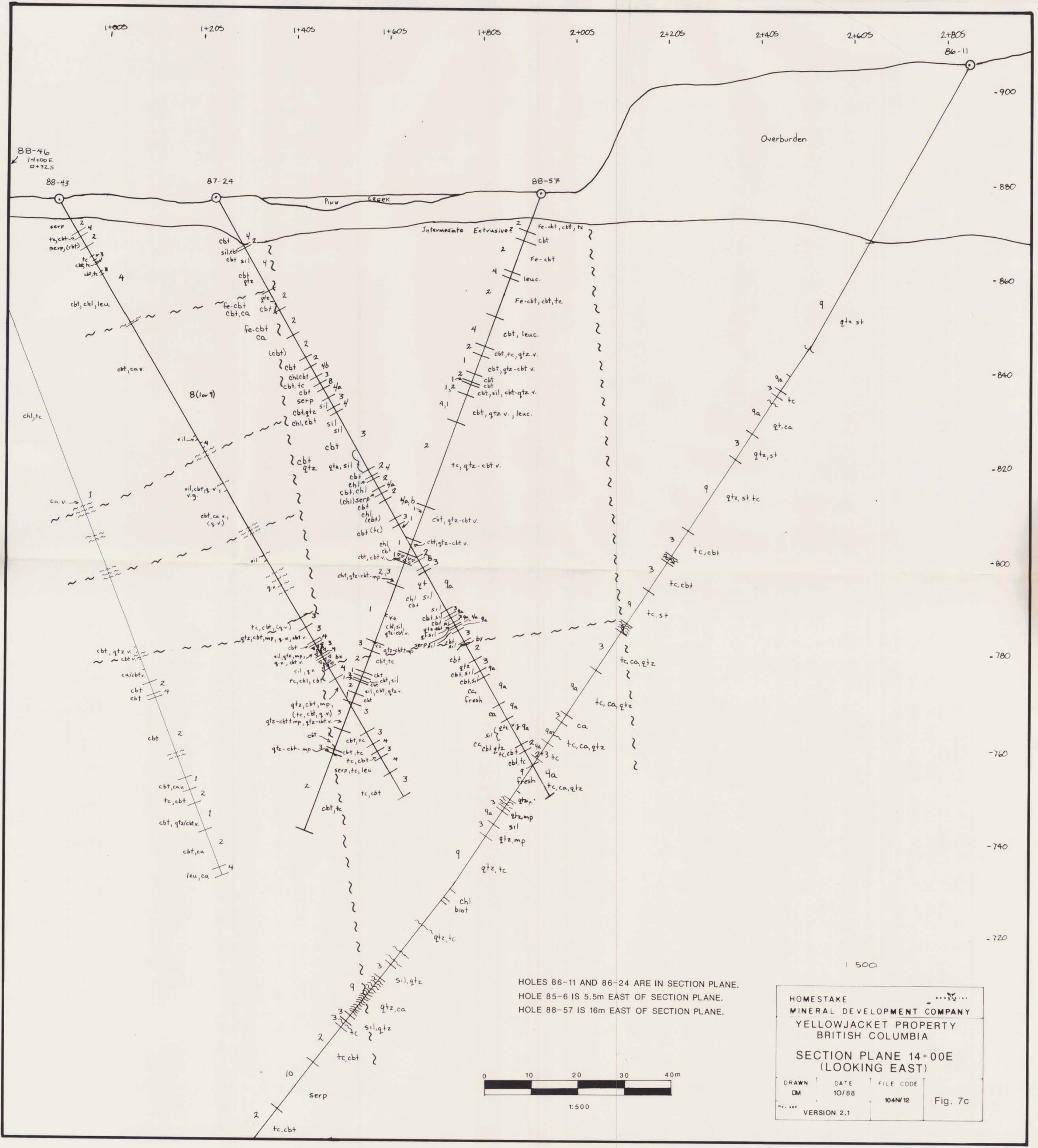
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YELLOWJACKET PROPERTY
BRITISH COLUMBIA

SECTION PLANE 14+00E
LOOKING EAST

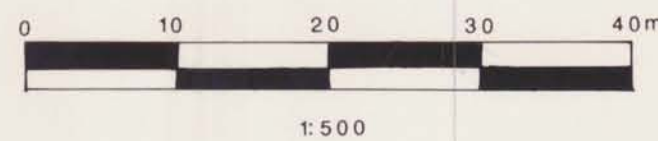
Au GEOCHEMISTRY

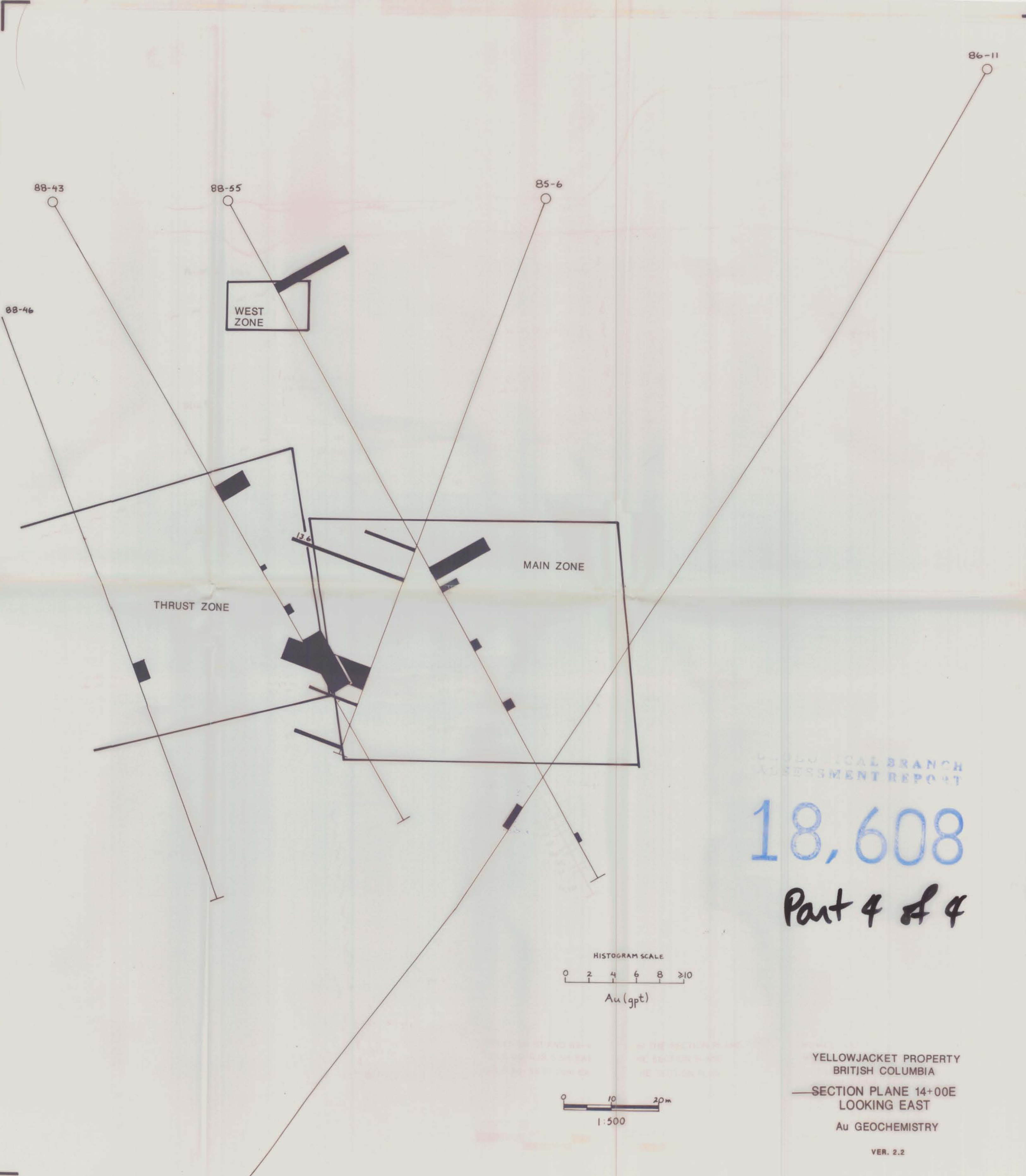
VER. 2.1



HOLES 86-11 AND 86-24 ARE IN SECTION PLANE.
 HOLE 85-6 IS 5.5m EAST OF SECTION PLANE.
 HOLE 88-57 IS 16m EAST OF SECTION PLANE.

| | | | |
|---|---------------|----------------------|---------|
| HOMESTAKE MINERAL DEVELOPMENT COMPANY YELLOWJACKET PROPERTY BRITISH COLUMBIA | | | |
| SECTION PLANE 14+00E (LOOKING EAST) | | | |
| DRAWN DM | DATE 10/88 | FILE CODE 104N/12 | Fig. 7c |
| VERSION 2.1 | | | |





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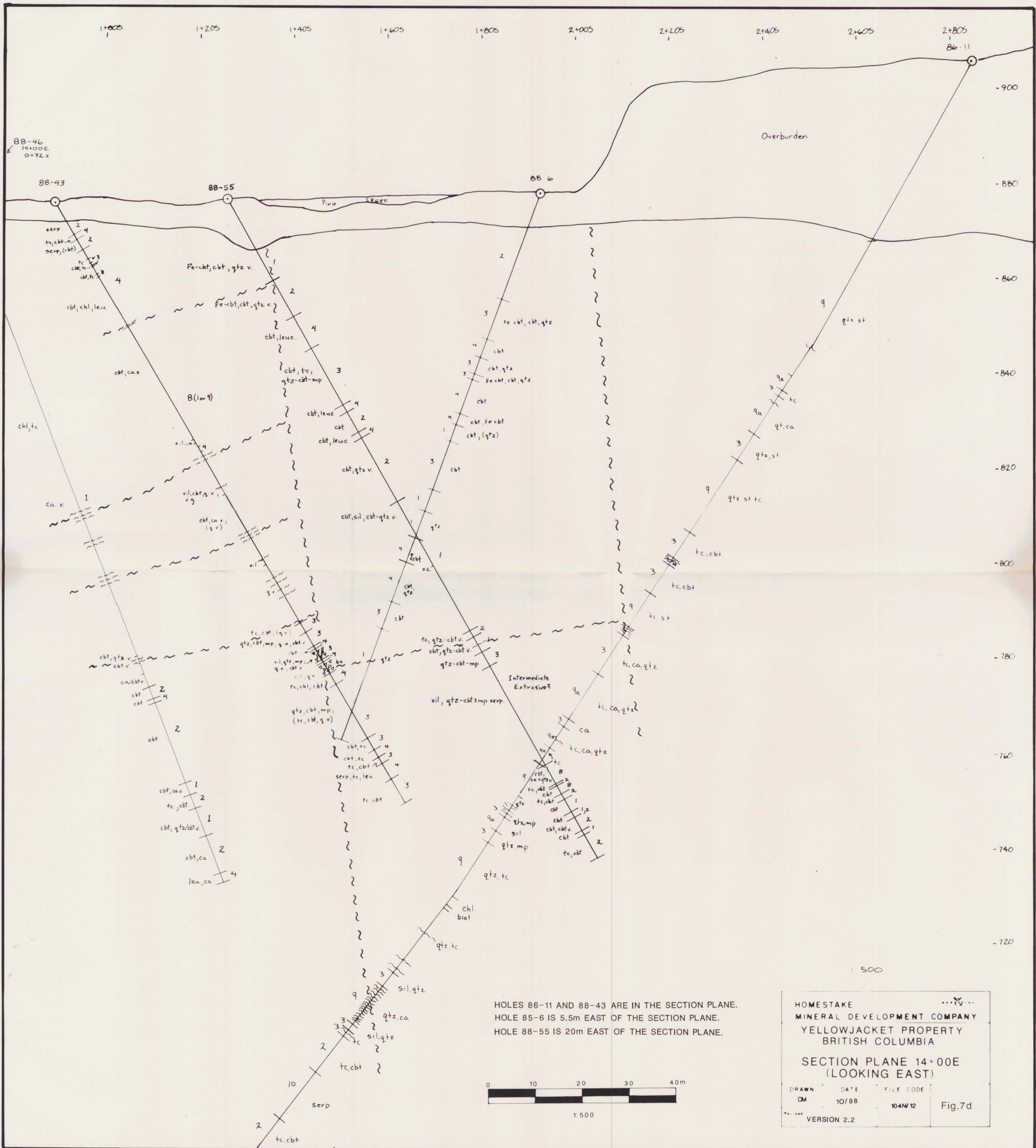
Part 4 of 4

YELLOWJACKET PROPERTY
BRITISH COLUMBIA

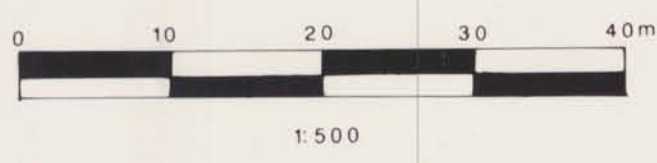
SECTION PLANE 14+00E
LOOKING EAST

Au GEOCHEMISTRY

VER. 2.2



HOLES 86-11 AND 88-43 ARE IN THE SECTION PLANE.
 HOLE 85-6 IS 5.5m EAST OF THE SECTION PLANE.
 HOLE 88-55 IS 20m EAST OF THE SECTION PLANE.



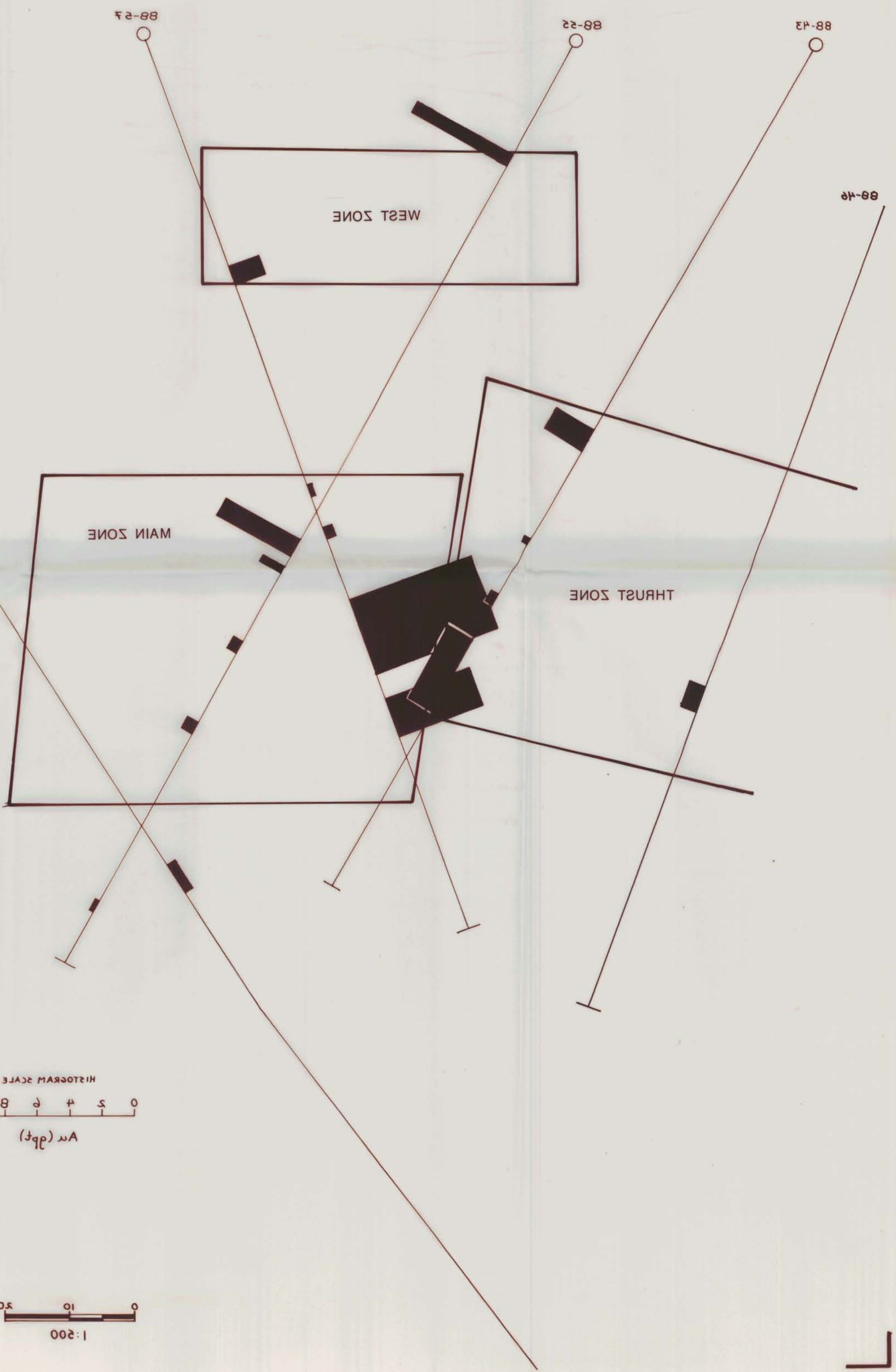
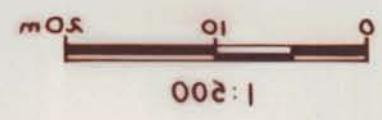
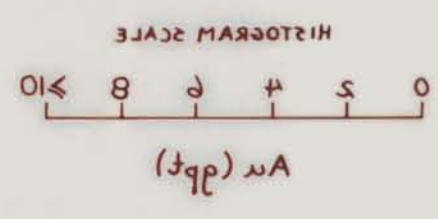
| | | | |
|---|-------|-----------|--------|
| HOMESTAKE MINERAL DEVELOPMENT COMPANY YELLOWJACKET PROPERTY BRITISH COLUMBIA | | | |
| SECTION PLANE 14+00E (LOOKING EAST) | | | |
| DRAWN | DATE | FILE CODE | Fig.7d |
| DM | 10/88 | 104N12 | |
| VERSION 2.2 | | | |

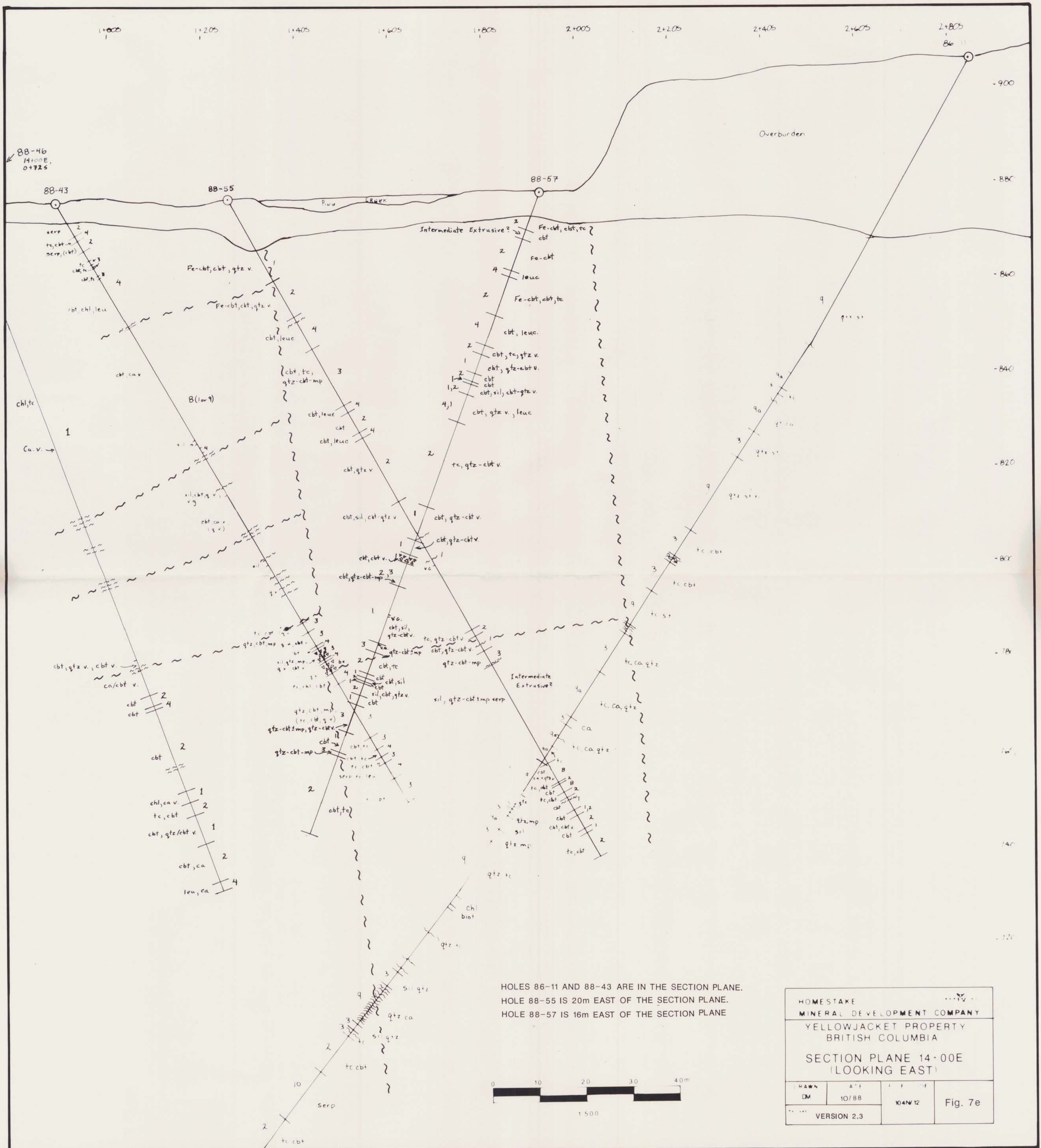
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AN GEOCHEMISTRY
SECTION PLANE 14+00E
LOOKING EAST
BRITISH COLUMBIA
YELLOWJACKET PROPERTY

VER. 2.8





88-46

88-43

87-24

85-6

86-11

WEST ZONE

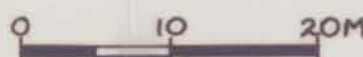
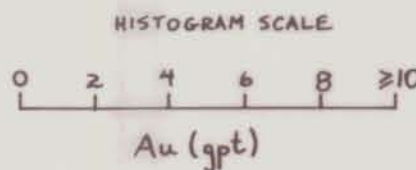
MAIN ZONE

THRUST ZONE

GEOLOGICAL BRANCH
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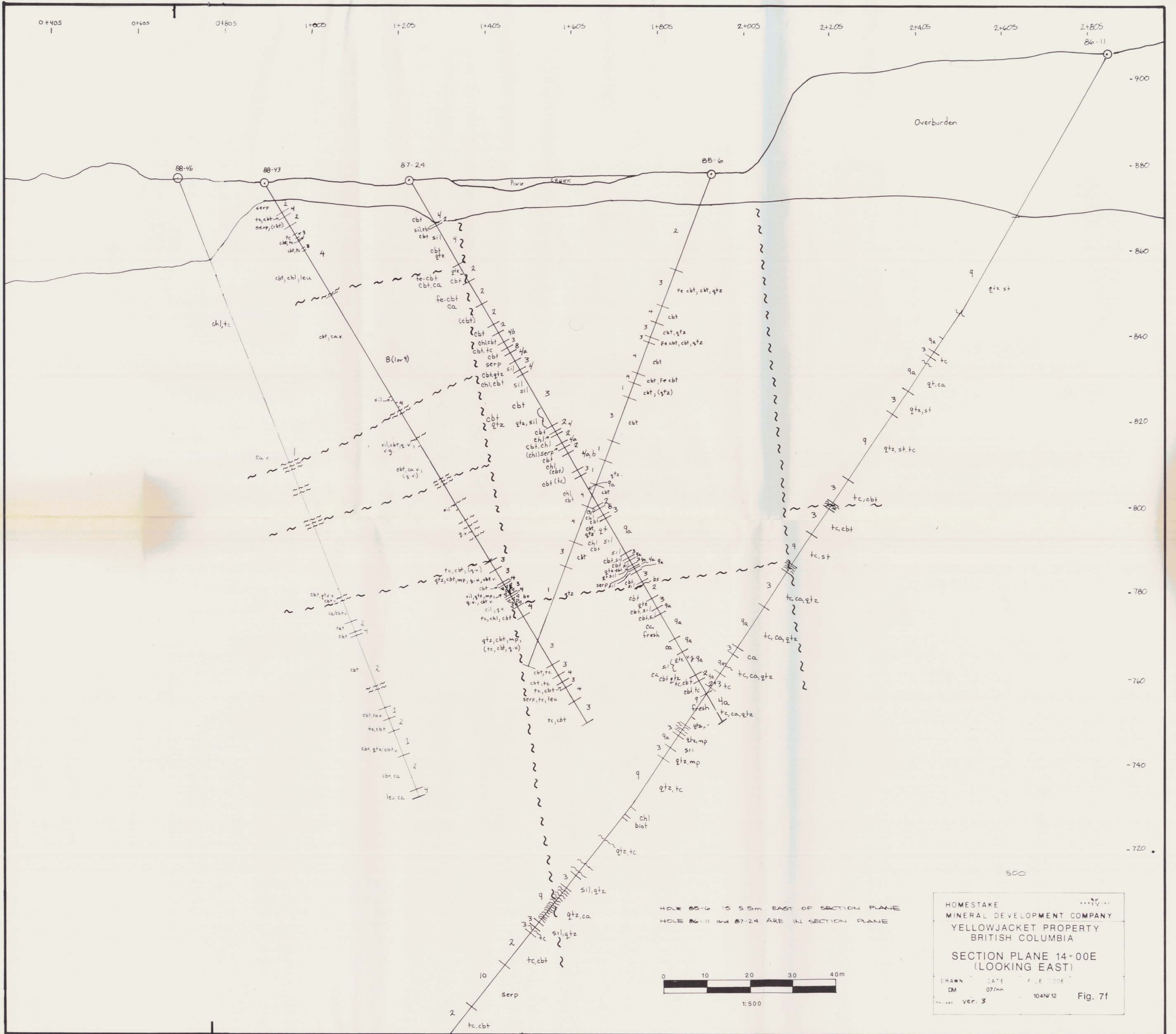


YELLOWJACKET PROPERTY
BRITISH COLUMBIA

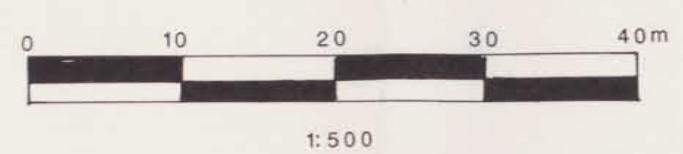
SECTION PLANE 14+00E
LOOKING EAST

Au GEOCHEMISTRY

VER. 2.0



HOLE 85-6 IS 5.5m EAST OF SECTION PLANE
 HOLE 86-11 AND 87-24 ARE IN SECTION PLANE



HOMESTAKE
 MINERAL DEVELOPMENT COMPANY
 YELLOWJACKET PROPERTY
 BRITISH COLUMBIA
 SECTION PLANE 14-00E
 (LOOKING EAST)
 DRAWN: DM DATE: 07/88 FILE CODE: 104N/12
 Ver. 3 Fig. 7f

N

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87-28

88-37

87-21

88-55

88-45

88-51

86-6



GEOLOGICAL BRANCH
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HISTOGRAM SCALE

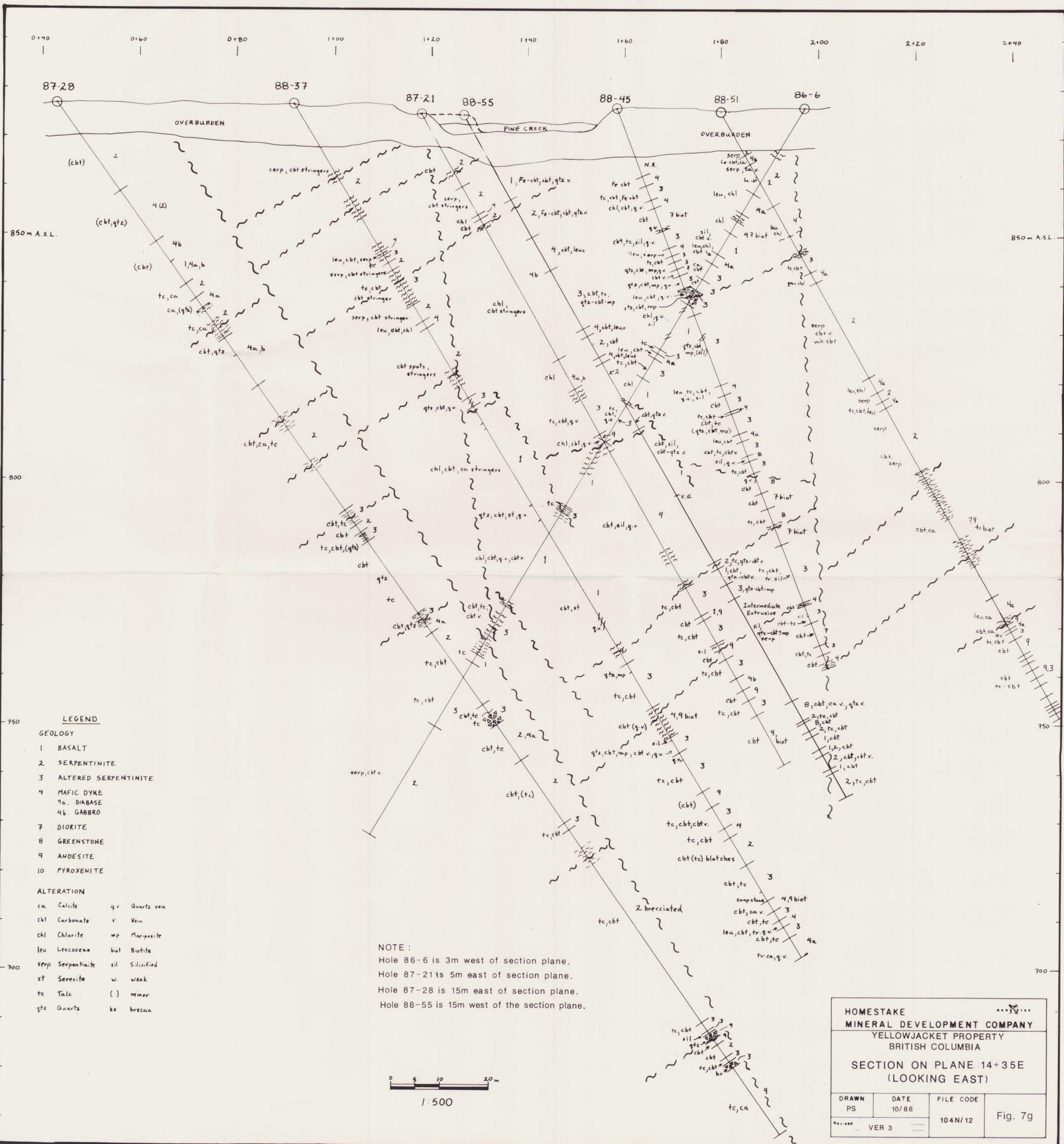
0 2 4 6 8 >10

Au (gpt)

0 10 20m

1:500

YELLOWJACKET PROPERTY
BRITISH COLUMBIA
SECTION PLANE 14+35E
LOOKING EAST
Au GEOCHEMISTRY



0+40 0+60 0+80 1+00 1+20 1+40 1+60 1+80 2+00 2+20 2+40

87-28 88-37 87-21 88-55 88-45 88-51 86-6

OVERBURDEN

PINE CREEK

OVERBURDEN

850 m A.S.L. 850 m A.S.L.

800 800

750 750

700 700

LEGEND

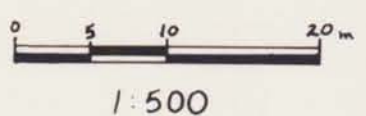
GEOLOGY

- 1 BASALT
- 2 SERPENTINITE
- 3 ALTERED SERPENTINITE
- 4 MAFIC DYKE
 - 4a. DIABASE
 - 4b. GABBRO
- 7 DIORITE
- 8 GREENSTONE
- 9 ANDESITE
- 10 PYROXENITE

ALTERATION

- | | | | |
|------|------------|------|-------------|
| ca | Calcite | q.v. | Quartz vein |
| cbt | Carbonate | v | Vein |
| chl | Chlorite | mp | Mariposite |
| leu | Leucosene | biot | Biotite |
| serp | Serpentine | sil | Silicified |
| st | Sericite | w. | weak |
| tc | Talc | () | minor |
| qtz | Quartz | bx | breccia |

NOTE:
 Hole 86-6 is 3m west of section plane.
 Hole 87-21 is 5m east of section plane.
 Hole 87-28 is 15m east of section plane.
 Hole 88-55 is 15m west of the section plane.



| | | | |
|---|---------------|----------------------|---------|
| HOMESTAKE MINERAL DEVELOPMENT COMPANY YELLOWJACKET PROPERTY BRITISH COLUMBIA | | | |
| SECTION ON PLANE 14+35E (LOOKING EAST) | | | |
| DRAWN PS | DATE 10/88 | FILE CODE 104N/12 | Fig. 7g |
| REVISION VER 3 | | | |

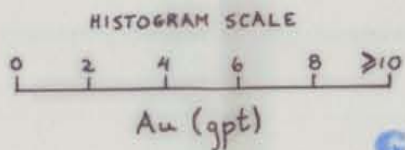
N

S

YJ-88-42

YJ-88-54

YJ-86-7



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YELLOWJACKET PROPERTY
BRITISH COLUMBIA

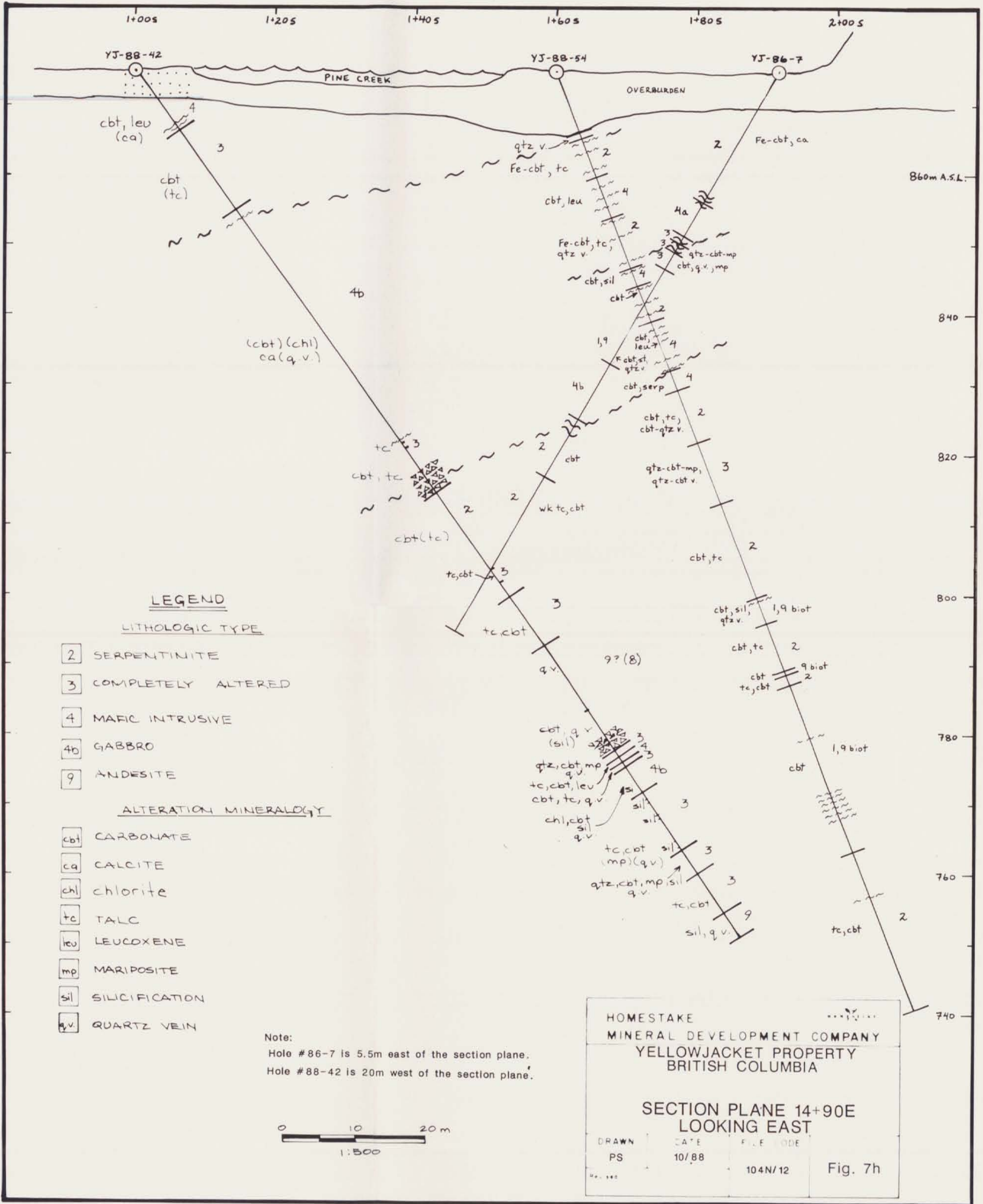
SECTION PLANE 14+90E
LOOKING EAST

Au GEOCHEMISTRY



1:500

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LEGEND

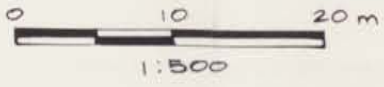
LITHOLOGIC TYPE

- 2 SERPENTINITE
- 3 COMPLETELY ALTERED
- 4 MAFIC INTRUSIVE
- 4b GABBRO
- 9 ANDESITE

ALTERATION MINERALOGY

- cbt CARBONATE
- ca CALCITE
- chl chlorite
- tc TALC
- leu LEUCOXENE
- mp MARIPOSITE
- sil SILICIFICATION
- q.v. QUARTZ VEIN

Note:
 Hole #86-7 is 5.5m east of the section plane.
 Hole #88-42 is 20m west of the section plane.

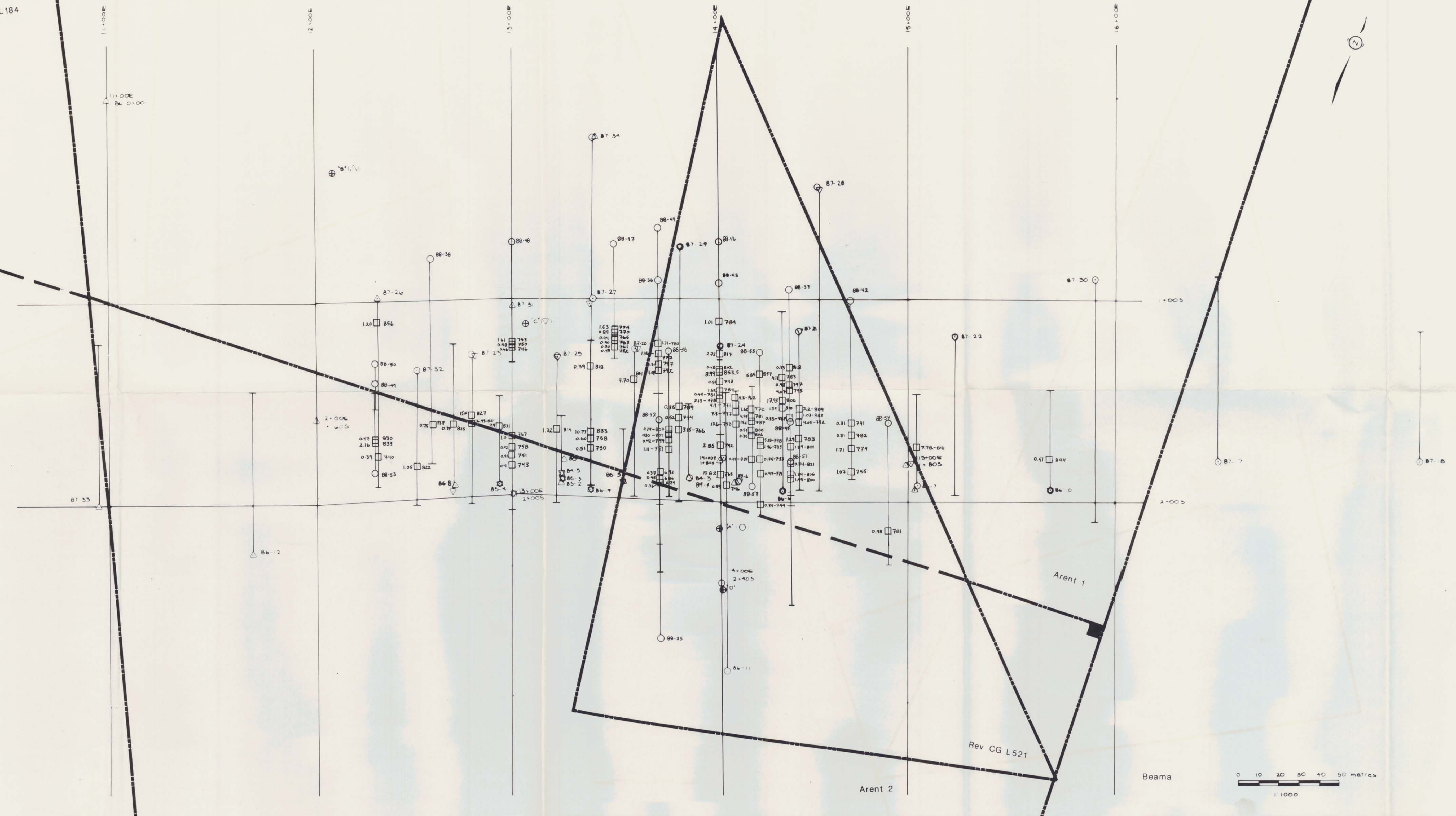


HOMESTAKE
 MINERAL DEVELOPMENT COMPANY
 YELLOWJACKET PROPERTY
 BRITISH COLUMBIA

SECTION PLANE 14+90E
 LOOKING EAST

| | | |
|-------------|---------------|----------------------|
| DRAWN PS | DATE 10/88 | FILE CODE 104N/12 |
| | | Fig. 7h |

Rev CG L184



□ 788-842
gpt Au / Elevation m ASL

- ⊕ SURVEY POST
- SURVEY POINT FROM A
- △ SURVEY POINT FROM B
- ▽ SURVEY POINT FROM C

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

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HOMESTAKE
MINERAL DEVELOPMENT COMPANY
YELLOWJACKET PROPERTY
BRITISH COLUMBIA
DDH Au INTERSECTION PLAN
(projected to surface)

| | | | |
|-------|-------|-----------|--------|
| DRAWN | DATE | FILE CODE | |
| MA | 08/88 | 104M/12 | FIG. 8 |
| | 10/88 | | |

