

LOG NO: JAN 31

RD.

ACTION:

FILE NO.

MAPS TO ACCOMPANY
 EXPLORATION REPORT
 of the
HIT/MISS PROPERTY

Geological Mapping, Trenching and Sampling,
 VLF-EM and Magnetometer Surveys,
 and Diamond Drilling Programme

Mishezula Mountain Area
 Similkameen Mining Division, B.C.
 NTS Ref 92H/10E

Latitude: 49°40'27"
 Longitude: 120°30'26"

For:
 Vanco Explorations Ltd.

By:
 I.M. Watson & Associates Ltd.
 #904 - 675 West Hastings Street
 Vancouver, B.C. V6B 1N2

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January, 1992

GEOLOGICAL BR
ASSESSMENT RE

L.A. Westervelt, B.A.Sc.
 I.M. Watson, P.Eng.

22.08

2
 22084



| Trench No. | length (m) | width (m) | depth (m) | vol (m³) |
|----------------|------------|-----------|--------------|----------|
| 91-1 | 70.0 | 1.5 | 7.5 | 788 |
| 91-2 | 8.0 | 1.5 | 7.5 | 90 |
| 91-3 | 9.0 | 1.5 | 5.0 | 68 |
| 91-4 | 25.0 | 1.5 | 7.5 | 281 |
| 91-5 | 100.0 | 1.5 | 2.0 | 300 |
| 91-6 | 80.0 | 1.5 | 2.0 | 240 |
| 91-7 | 24.0 | 1.5 | 1.5 | 54 |
| 91-8A | 26.0 | 1.5 | 7.5 | 293 |
| 91-8B | 24.5 | 1.5 | 7.5 | 276 |
| 91-9 | 20.0 | 1.5 | 7.5 | 225 |
| 91-10 | 39.0 | 1.5 | 1.5 | 88 |
| 91-11 | 44.0 | 1.5 | 6.0 | 396 |
| 91-12 | 16.0 | 1.5 | 1.5 | 36 |
| 91-13 | 37.0 | 1.5 | 5.0 | 270 |
| 91-14A | 10.6 | 1.5 | 7.5 | 111 |
| 91-14B | 11.2 | 1.5 | 7.5 | 126 |
| 91-14C | 8.8 | 1.5 | 7.5 | 99 |
| 91-14D | 10.0 | 1.5 | 7.5 | 113 |
| 91-14E | 13.2 | 1.5 | 7.5 | 149 |
| 91-14F | 10.7 | 1.5 | 7.5 | 120 |
| 91-14G | 8.6 | 1.5 | 7.5 | 97 |
| 91-15A | 11.0 | 1.5 | 7.5 | 124 |
| 91-15B | 8.0 | 1.5 | 7.5 | 90 |
| 91-15C | 8.0 | 1.5 | 7.5 | 90 |
| 91-16A | 17.0 | 1.5 | 7.0 | 179 |
| 91-16B | 7.0 | 1.5 | 7.5 | 79 |
| 91-16C | 9.0 | 1.5 | 9.0 | 122 |
| 91-17A | 29.0 | 1.5 | 3.0 | 131 |
| 91-17B | 10.4 | 1.5 | 7.0 | 109 |
| 91-17C | 10.5 | 1.5 | 5.0 | 79 |
| 91-17D | 12.5 | 1.5 | 2.0 | 38 |
| 91-18A | 45.0 | 1.5 | 3.0 | 203 |
| 91-18B | 27.5 | 1.5 | 3.0 | 124 |
| 91-18C | 18.5 | 1.5 | 3.0 | 83 |
| 91-18D | 48.0 | 1.5 | 3.0 | 360 |
| 91-18E | 66.0 | 1.5 | 2.5 | 248 |
| 91-19 | 53.0 | 1.5 | 5.0 | 398 |
| 91-20 | 110.0 | 1.5 | 2.0 | 330 |
| 91-21 | 70.5 | 1.5 | 1.5 | 159 |
| 91-22A | 11.5 | 1.5 | 7.5 | 129 |
| 91-22B | 7.3 | 1.5 | 7.5 | 82 |
| 91-22C | 220.0 | 1.5 | 7.0 | 2,310 |
| 91-23 | 40.0 | 1.5 | 2.0 | 120 |
| 91-24A | 24.0 | 1.5 | 2.0 | 72 |
| 91-24B | 13.0 | 1.5 | 2.0 | 39 |
| 91-24C | 10.0 | 4.0 | 1.0 | 40 |
| 91-25A | 34.0 | 3.0 | 2.0 | 204 |
| 91-25B | 23.5 | 5.0 | 2.0 | 235 |
| 91-26A | 40.0 | 1.5 | 5.0 | 300 |
| 91-26B | 62.5 | 2.0 | 5.0 | 625 |
| 91-27A | 11.5 | 1.5 | 7.5 | 129 |
| 91-27B | 10.0 | 1.5 | 7.5 | 113 |
| 91-27C | 37.0 | 1.5 | 7.5 | 416 |
| 400N trail | 30.0 | 4.0 | 2.0 | 400 |
| 91-28A | 32.0 | 1.5 | 7.5 | 360 |
| 91-28B | 11.8 | 1.5 | 6.0 | 106 |
| 91-28C | 9.0 | 1.5 | 7.5 | 101 |
| 91-28D | 8.0 | 1.5 | 7.5 | 90 |
| 91-29 | 8.0 | 1.5 | 7.5 | 90 |
| 91-30 | 8.6 | 1.5 | 7.5 | 97 |
| 91-31 | 94.0 | 1.5 | 2.0 | 282 |
| 91-32A | 10.0 | 1.5 | 7.5 | 113 |
| 91-32B | 6.6 | 3.0 | 7.5 | 149 |
| 91-33A | 96.0 | 1.5 | 6.0 | 864 |
| 91-33B | 105.0 | 1.5 | 7.0 | 1,103 |
| 91-33C | 130.0 | 1.5 | 4.0 | 780 |
| 91-34A | 73.0 | 1.5 | 6.0 | 657 |
| 91-34B | 11.6 | 1.5 | 7.5 | 131 |
| 91-34C | 7.3 | 1.5 | 7.5 | 82 |
| 91-34D | 7.6 | 1.5 | 7.5 | 86 |
| 91-34E | 8.5 | 1.5 | 7.5 | 96 |
| 91-34F | 19.5 | 1.5 | 7.5 | 219 |
| 91-23-25 trail | 190.0 | 8.0 | Area 1520 m² | |

- Logging Road, with landing
- Trench (1991)
- Ramp, access trail
- Area of 1991 grid work

GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,084

Scale 0 400 800 metres



Vanco Explorations Ltd.
Hit and Miss Claims
1991 Work
Trenching

I.M. WATSON & ASSOCIATES LTD.

| | |
|---------------------------|-----------------|
| Work by : N.T.S.: 92H/10E | Scale: 1:10,000 |
| Drawn by : LAW | Rev : |
| Date : July 29, 1991 | Fig: 4 |



- LEGEND**
- 1a** Green-grey, green, fine- to medium-grained pyroxene andesite
 - 1a** Green and purple monolithic and polytomic andesitic breccia
 - 1a** Purple polytomic andesite-limestone breccia
 - 1a** Green-grey, purple andesitic tuffs, often bedded
 - 1a** Pale grey-buff calcareous
 - 1a** Pale grey, calcareous sandstone
 - 1a** Pale grey, calcareous sandstone and pyritized, hosts quartz-vein stockworks
 - 1a** Pale grey, fine-grained, massive to finely-bedded limestone
 - 1a** Dark grey to light brown finely-bedded argillites and calcareous sandstone, locally fossiliferous
 - 1a** Purple to maroon augite trachybasalt porphyry
 - 1a** Altered equivalent: silicified, bleached
 - 1a** Rhyolite: pale grey, felsic, variably silicified, clay altered, usually strongly sheared. Possibly intrusive
 - 1a** Strongly altered pyritic and mylonitized diorite to granodiorite; Proterozoic sheared leucocratic pyritic quartz porphyry
 - 1a** Green-grey fine- to medium-grained massive pyroxene diorite and intrusive breccia; pyritic
 - 1a** Grey to grey-green fine- to medium-grained pyroxene diorite
 - 1a** Pink-grey coarsely crystalline biotite diorite-monzonite

- mal Malachite
- PbS Galena
- ep Epidote
- ZnS Sphalerite
- ars Arsenopyrite
- hem Hematite
- qtz Quartz
- Mn Manganese
- py Pyrite
- ccp Chalcopyrite

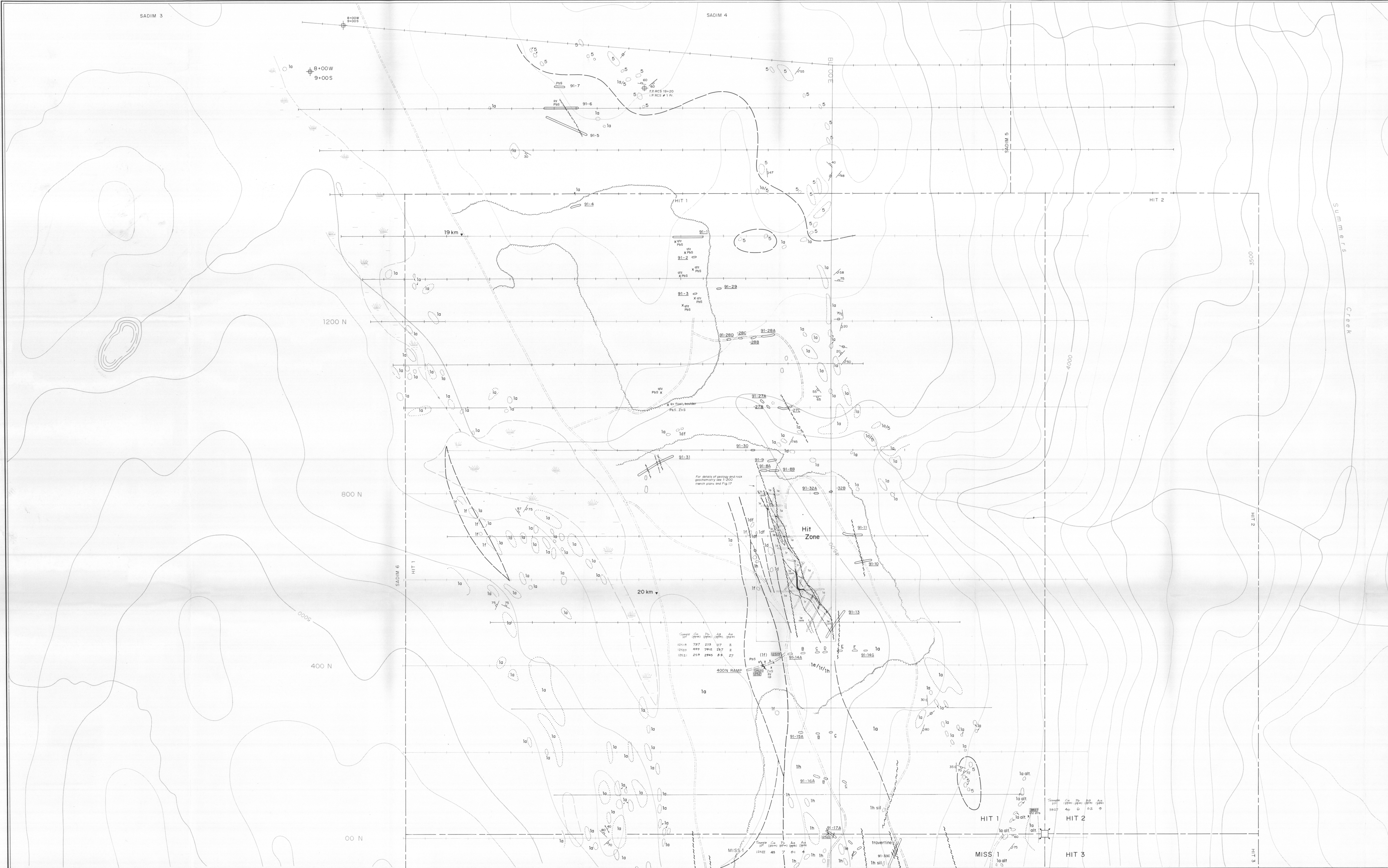
- 15000 x Rock sample site and number; assays as noted
- x Flotation
- Quartz veins, showing attitude
- Bedding inclined, vertical
- Foliation inclined, vertical
- Jointing inclined, vertical
- Shear zone
- Diamond drill hole collar
- Thrust fault, showing downthrow side
- Fault observed, approximate, inferred
- Roads
- Swamp
- Claim boundary, claim name, legal corner post
- 19 km Marker, distance from Highway 5A

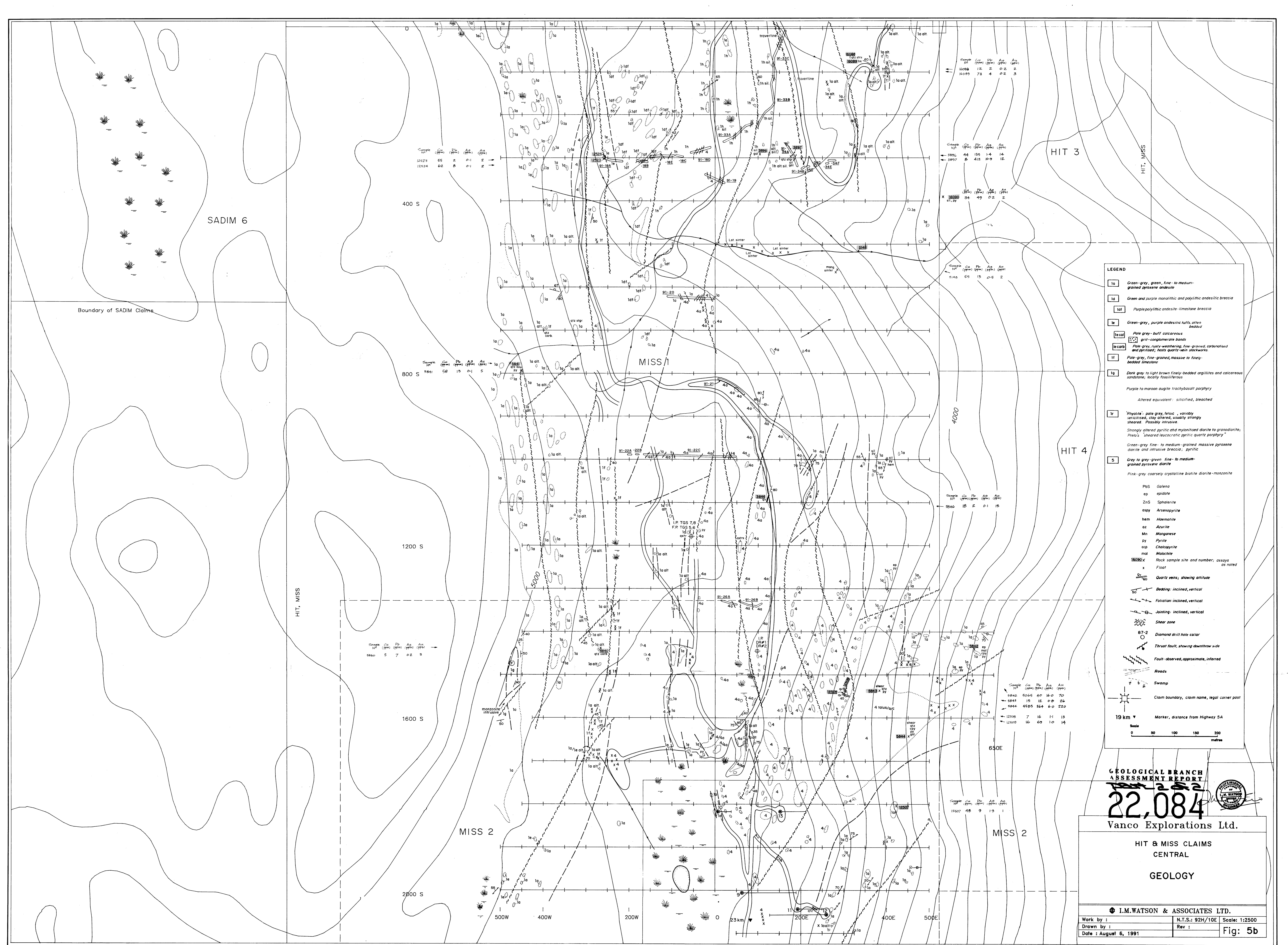
VANCO EXPLORATIONS LIMITED

ASPEN GROVE PROJECT
**HIT & MISS CLAIMS
NORTH
GEOLOGY**

| | | | | |
|----------|----------|-----|-----|------------|
| SCALE | DATE | BY | NTS | FIG. NO. |
| 1:2500 | Oct. '90 | dlp | IMW | 92H/10E |
| Scale 50 | 0 | 50 | 100 | 150 metres |

I. M. WATSON & ASSOCIATES LTD.





LEGEND

- la Green-grey, green, fine- to medium-grained pyroxene andesite
- ld Green and purple monolithic and polytuffic andesitic breccia
- lar Purple polytuffic andesite-limestone breccia
- le Green-grey, purple andesitic tuffs, often bedded
- lecal Pale grey-buff calcareous grit-conglomerate bands
- lecarb Pale grey, buff weathering, fine-grained, carbonaceous and pyritic, hosts quartz vein stockworks
- lf Pale grey, fine-grained, massive to finely-bedded limestone
- lg Dark grey to light brown finely-bedded argillites and calcareous sandstones, locally fossiliferous

Purple to maroon augite-trachybasalt porphyry
Altered equivalent: silicified, bleached

- lr Rhyolite: pale grey, felsic, variably sericitized, clay altered, usually strongly sheared. Possibly intrusive.
- Strongly altered pyritic and mylonitized diorite to granodiorite. Preo's "sheared leucocratic pyritic quartz porphyry"
- Green-grey fine- to medium-grained massive pyroxene diorite and intrusive breccia, pyritic
- 5 Grey to grey-green fine- to medium-grained pyroxene diorite
- Pink-grey coarsely crystalline biotite diorite-monzonite

PbS Galena
ep epidote
ZnS Sphalerite
aspy Arsenopyrite
hem Hematite
az Azurite
Mn Manganese
py Pyrite
ccp Chalcocite
mal Malachite

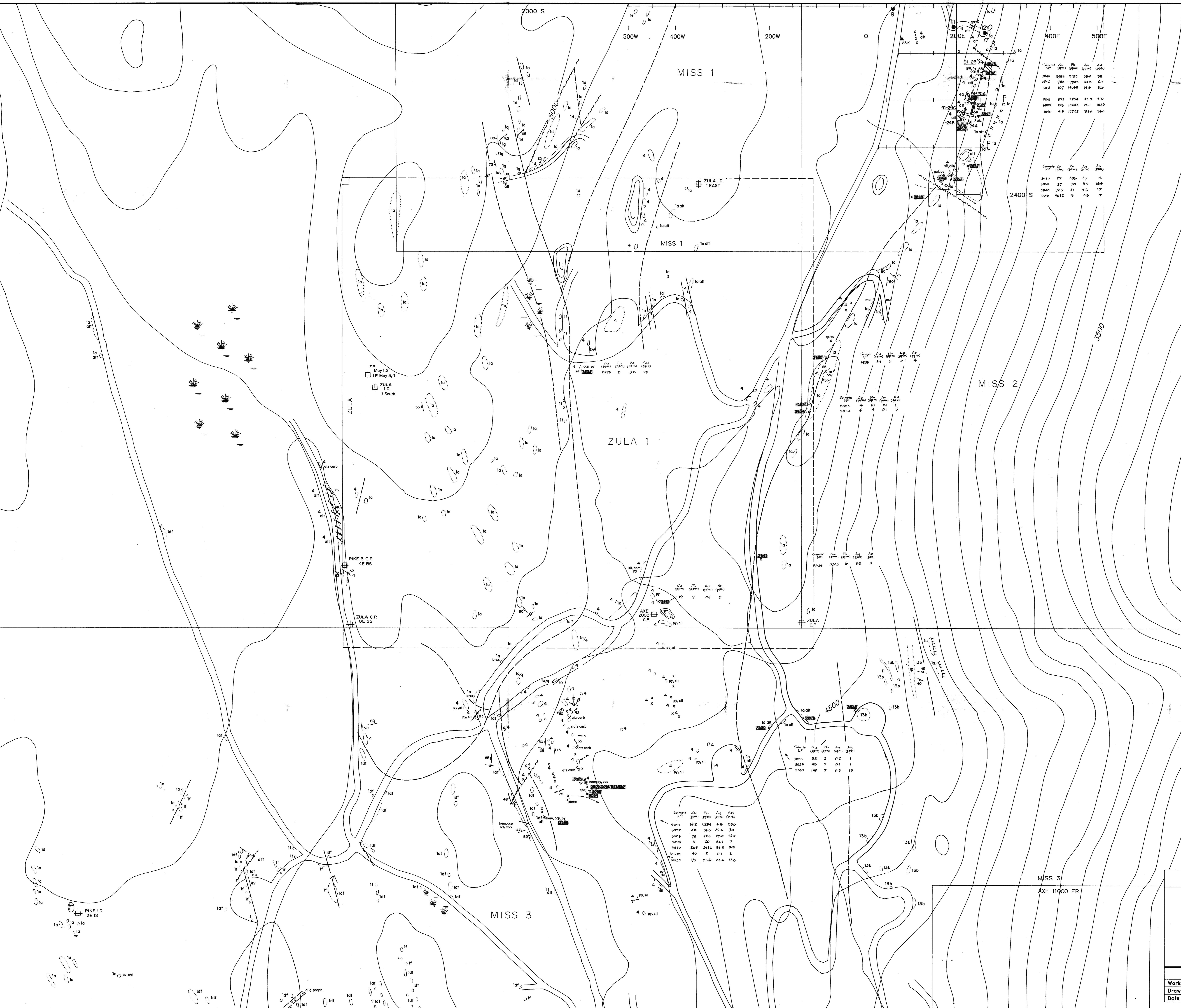
16000 x Rock sample site and number; assays as noted
x Float
Qz Quartz veins; showing attitude
50° Bedding: inclined, vertical
Foliation inclined, vertical
Jointing: inclined, vertical
Shear zone
87-2 Diamond drill hole collar
Thrust fault, showing downthrow side
Fault: observed, approximate, inferred
Roads
Swamp
Claim boundary, claim name, legal corner post

19 km Scale
0 50 100 150 200 metres

GEOLOGICAL BRANCH ASSESSMENT REPORT
22,084

Vanco Explorations Ltd.
 HIT & MISS CLAIMS CENTRAL
 GEOLOGY

I.M. WATSON & ASSOCIATES LTD.
 Work by: N.T.S.: 92H/10E Scale: 1:2500
 Drawn by: Rev: Fig: 5b
 Date: August 6, 1991



LEGEND

- 1a Green-grey, green, fine- to medium-grained pyroxene andesite
- 1b Green and purple monolithic and polythitic breccia
- 1c Purple polythitic andesite-limestone breccia
- 1e Green-grey, purple andesitic tuffs, often bedded
- 1eall Pale grey-buff calcareous grit-conglomerate bands
- 1ecarb Pale grey, buff weathering, fine-grained carbonised and pyritic, mass quartz vein stockworks
- 1f Pale-grey, fine-grained, massive to finely-bedded limestone
- 1g Dark grey to light brown finely-bedded argillites and calcareous sandstone, locally fossiliferous
- 1h Purple to maroon augite trachyandesite porphyry
- 1hsl/all Altered equivalent: silicified, bleached
- 1r Rhyolite: pale grey, felsic, variably silicified, clay infilled, usually strongly sheared. Possibly intrusive.
- 4 Strongly altered pyritic and mylonitised diorite to granodiorite; Preto's "sheared leucocratic pyritic quartz porphyry"
- 4a Green-grey fine- to medium-grained massive pyroxene diorite and intrusive breccia, pyritic
- 5 Grey to grey-green fine- to medium-grained pyroxene diorite
- 13b Pink-grey coarsely crystalline biotite diorite-monzonite

Mineral Symbols:

- PbS Galena
- ep epidote
- ZnS Sphalerite
- aspy Arsenopyrite
- hem Hematite
- az Azurite
- Mn Manganese
- py Pyrite
- ccp Chalcopyrite
- mal Malachite

Other Symbols:

- 16000 x Rock sample site and number; assays as noted
- x Float
- Quartz veins; showing attitude
- 50° Bedding: inclined, vertical
- Foliation inclined, vertical
- Jointing: inclined, vertical
- Shear zone
- 87-2 Diamond drill hole collar
- Thrust fault, showing downthrow side
- Fault: observed, approximate, inferred
- Roads
- Swamp
- Claim boundary, claim name, legal corner post

19 km

Vanco Explorations Ltd.

HIT & MISS CLAIMS SOUTH

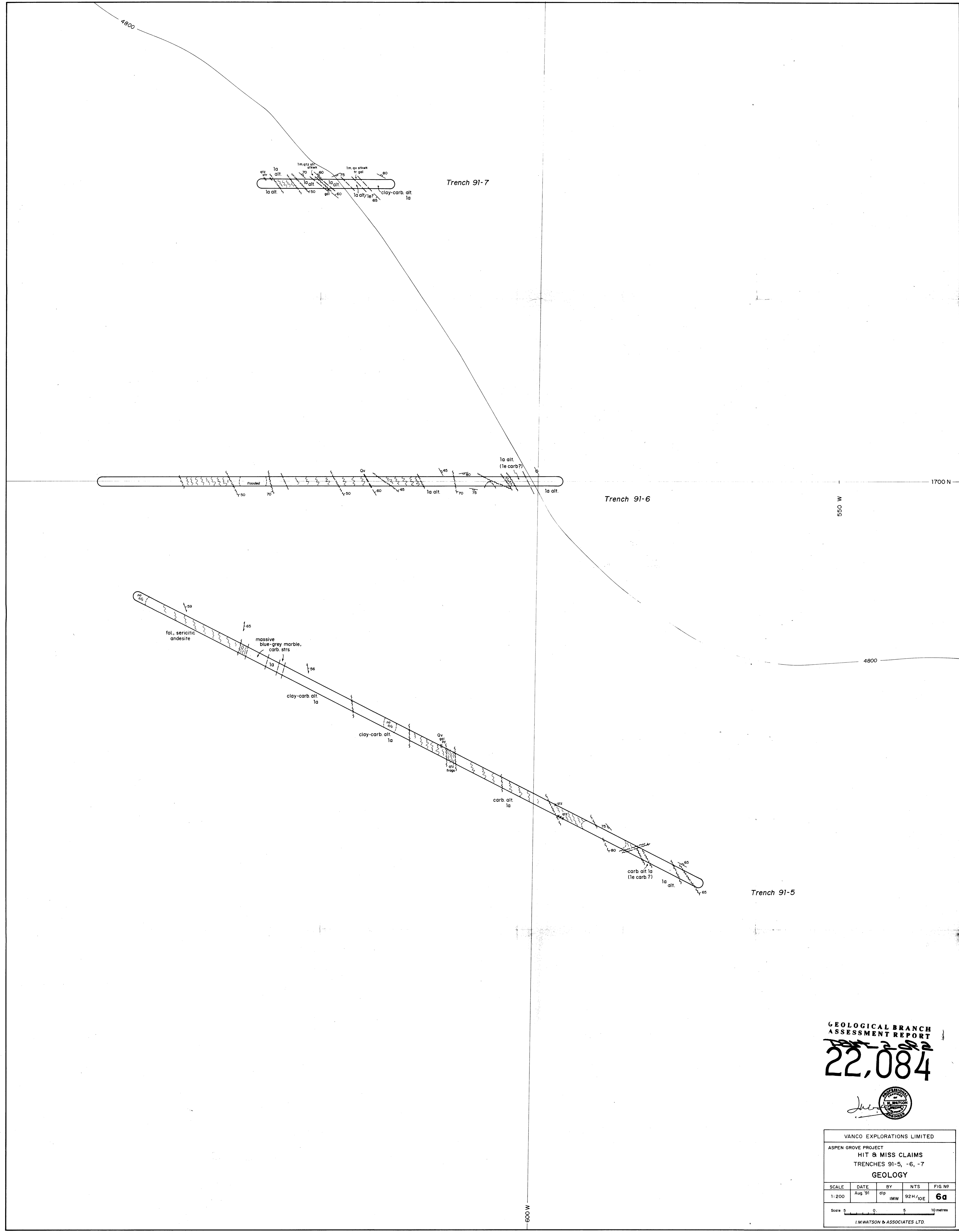
GEOLOGY

I.M. WATSON & ASSOCIATES LTD.

Work by : N.T.S.: 92H/10E Scale: 1:2500
 Drawn by : Rev :
 Date : August 6, 1991 Fig: 5c

GEOLOGICAL BRANCH
 ASSESSMENT REPORT
 22,084

3000

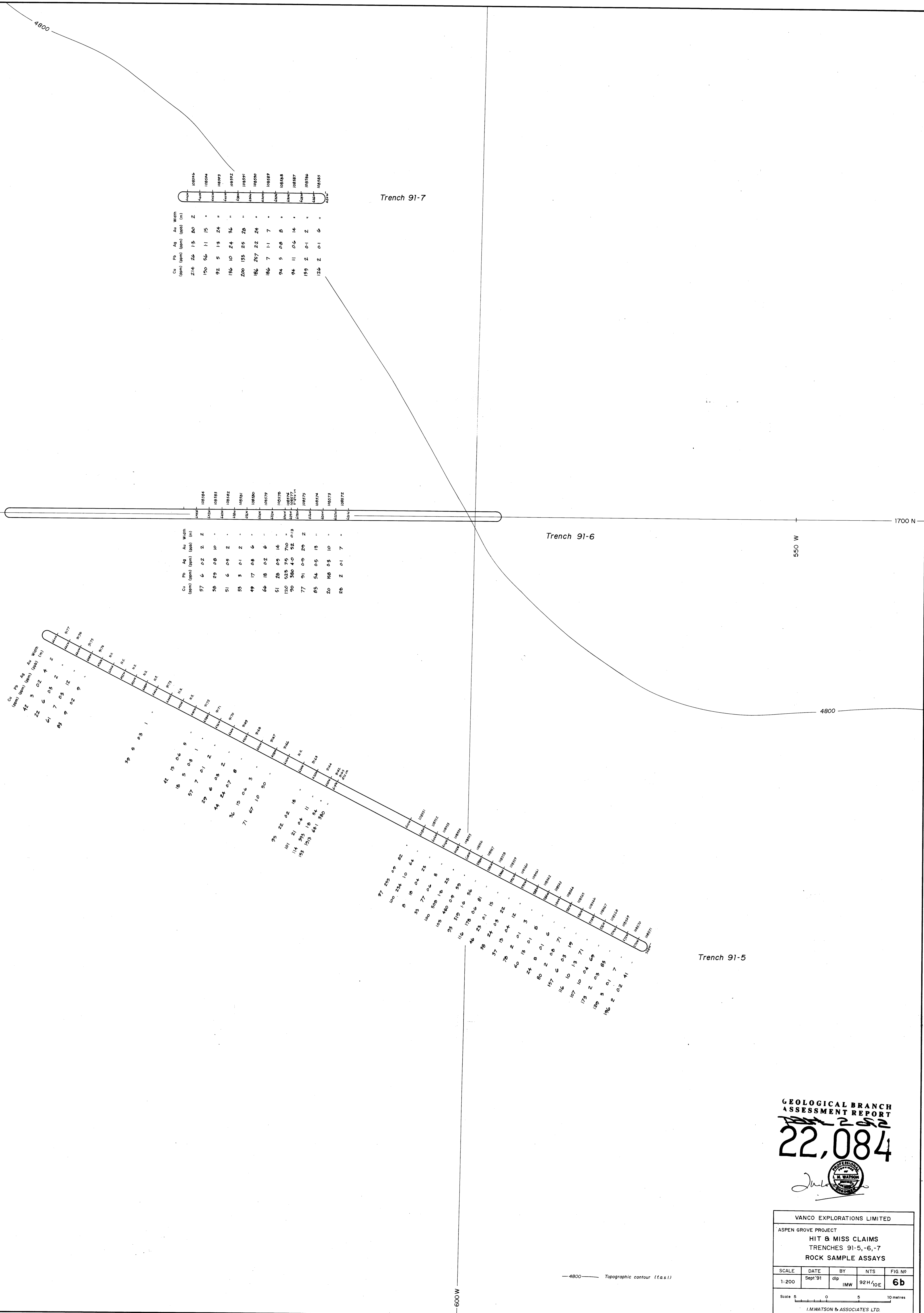


GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,084

J. M. Watson

| | | | | |
|-------------------------------|--------|-----|-----|------------|
| VANCO EXPLORATIONS LIMITED | | | | |
| ASPEN GROVE PROJECT | | | | |
| HIT & MISS CLAIMS | | | | |
| TRENCHES 91-5, -6, -7 | | | | |
| GEOLOGY | | | | |
| SCALE | DATE | BY | NTS | FIG. NO. |
| 1:200 | Aug 91 | dip | IMW | 92H/10E 6a |
| Scale 0 5 10 metres | | | | |
| I.M. WATSON & ASSOCIATES LTD. | | | | |



Trench 91-7

| Sample No. | Cu (ppm) | Pb (ppm) | Ag (ppm) | Au (ppm) | Width (m) |
|------------|----------|----------|----------|----------|-----------|
| 08594 | 214 | 24 | 15 | 80 | 2 |
| 08594 | 150 | 56 | 11 | 15 | - |
| 08599 | 92 | 5 | 18 | 24 | - |
| 08592 | 186 | 10 | 24 | 34 | - |
| 08591 | 200 | 155 | 25 | 28 | - |
| 08590 | 186 | 257 | 22 | 24 | - |
| 08589 | 186 | 7 | 11 | 7 | - |
| 08588 | 94 | 5 | 0.8 | 8 | - |
| 08587 | 94 | 11 | 0.6 | 14 | - |
| 08586 | 159 | 2 | 0.1 | 2 | - |
| 08585 | 126 | 2 | 0.1 | 6 | - |

Trench 91-6

| Sample No. | Cu (ppm) | Pb (ppm) | Ag (ppm) | Au (ppm) | Width (m) |
|------------|----------|----------|----------|----------|-----------|
| 08584 | 87 | 6 | 0.2 | 2 | 2 |
| 08583 | 56 | 29 | 0.8 | 10 | - |
| 08582 | 51 | 6 | 0.9 | 2 | - |
| 08581 | 35 | 3 | 0.1 | 2 | - |
| 08580 | 49 | 17 | 0.8 | 6 | - |
| 08579 | 66 | 18 | 0.2 | 6 | - |
| 08578 | 51 | 28 | 0.9 | 14 | - |
| 08576 | 120 | 523 | 75 | 710 | - |
| 08574 | 90 | 380 | 4.0 | 52 | 0.13 |
| 08573 | 77 | 91 | 0.20 | 20 | 2 |
| 08572 | 85 | 54 | 0.5 | 13 | - |
| 08571 | 20 | 188 | 0.5 | 10 | - |
| 08570 | 26 | 2 | 0.1 | 7 | - |

Trench 91-5

| Sample No. | Cu (ppm) | Pb (ppm) | Ag (ppm) | Au (ppm) | Width (m) |
|------------|----------|----------|----------|----------|-----------|
| 82 | 42 | 3 | 0.2 | 4 | 2 |
| 81 | 22 | 6 | 0.3 | 4 | 2 |
| 80 | 41 | 7 | 0.3 | 2 | 2 |
| 79 | 9 | 9 | 0.2 | 2 | 2 |
| 78 | 39 | 8 | 0.3 | 1 | - |
| 77 | 42 | 15 | 0.6 | 5 | - |
| 76 | 18 | 5 | 0.3 | 1 | - |
| 75 | 57 | 7 | 0.1 | 2 | - |
| 74 | 29 | 6 | 0.3 | 2 | - |
| 73 | 44 | 4 | 0.7 | 8 | - |
| 72 | 36 | 15 | 0.4 | 3 | - |
| 71 | 71 | 65 | 1.0 | 20 | - |
| 70 | 93 | 22 | 0.2 | 18 | - |
| 69 | 101 | 21 | 0.4 | 11 | - |
| 68 | 114 | 393 | 1.8 | 24 | - |
| 67 | 153 | 193 | 6.1 | 280 | - |
| 66 | 97 | 229 | 0.9 | 82 | - |
| 65 | 100 | 234 | 1.0 | 54 | - |
| 64 | 8 | 18 | 0.4 | 22 | - |
| 63 | 35 | 77 | 0.6 | 8 | - |
| 62 | 100 | 509 | 1.8 | 25 | - |
| 61 | 109 | 480 | 0.9 | 29 | - |
| 60 | 93 | 219 | 1.5 | 26 | - |
| 59 | 116 | 178 | 0.6 | 81 | - |
| 58 | 46 | 23 | 0.1 | 15 | - |
| 57 | 37 | 15 | 0.4 | 22 | - |
| 56 | 70 | 2 | 0.1 | 3 | - |
| 55 | 60 | 13 | 0.1 | 8 | - |
| 54 | 24 | 8 | 0.1 | 6 | - |
| 53 | 80 | 2 | 0.6 | 71 | - |
| 52 | 157 | 6 | 0.3 | 19 | - |
| 51 | 116 | 10 | 1.3 | 71 | - |
| 50 | 107 | 10 | 0.4 | 69 | - |
| 49 | 173 | 2 | 0.3 | 85 | - |
| 48 | 129 | 3 | 0.1 | 7 | - |
| 47 | 196 | 2 | 0.2 | 41 | - |

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

22,084

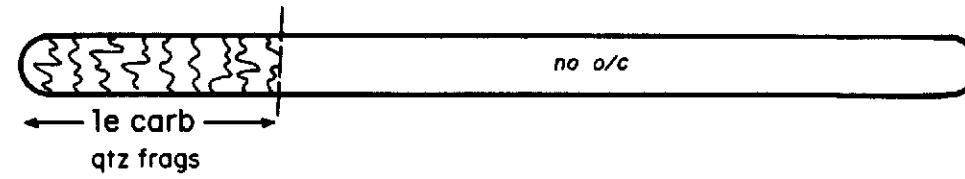
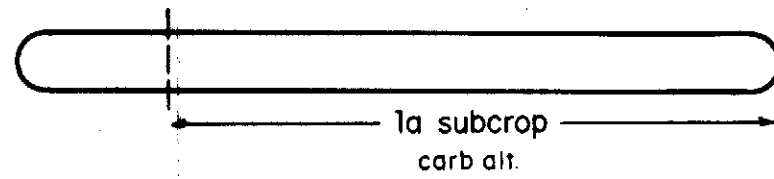
John Watson

| | | | | |
|-------------------------------|----------|------------|--------|-----------|
| VANCO EXPLORATIONS LIMITED | | | | |
| ASPEN GROVE PROJECT | | | | |
| HIT & MISS CLAIMS | | | | |
| TRENCHES 91-5, -6, -7 | | | | |
| ROCK SAMPLE ASSAYS | | | | |
| SCALE | DATE | BY | NTS | FIG. NO. |
| 1:200 | Sept '91 | dip IMW | 92H/0E | 6b |
| Scale 0 5 10 metres | | | | |
| I.M. WATSON & ASSOCIATES LTD. | | | | |

—4800— Topographic contour (f.a.s.)

600W

Trench 8A



Trench 8B

Trench 91-8A - Assays

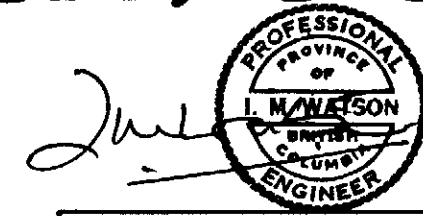
| Sample ID | Cu (ppm) | Pb (ppm) | Ag (ppm) | Au (ppb) | Width (m) |
|-----------|----------|----------|----------|----------|-----------|
| 163N | 180 | 42 | 0.5 | 26 | 2 |
| 161W | 96 | 10 | 0.2 | 1 | " |
| 159N | 164 | 21 | 0.1 | 9 | " |
| 157W | 150 | 11 | 0.1 | 8 | " |
| 155N | 186 | 14 | 0.2 | 27 | " |
| 153N | 121 | 11 | 0.7 | 26 | " |
| 151W | 32 | 34 | 4.1 | 36 | " |
| 149N | 96 | 183 | 4.1 | 71 | " |

Trench 91-8B - Assays

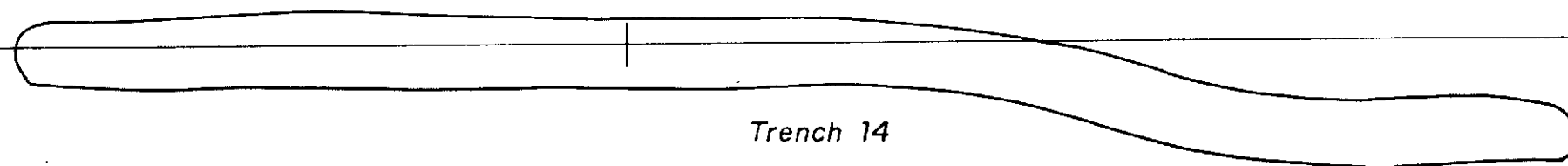
| Sample ID | Cu (ppm) | Pb (ppm) | Ag (ppm) | Au (ppb) | Width (m) |
|-----------|----------|----------|----------|----------|-----------|
| 108605 | 112 | 291 | 48.6 | 2200 | " |
| 145W | 41 | 22 | 1.6 | 77 | " |
| 141W | 60 | 27 | 1.4 | 22 | " |
| 139W | | | | | |

GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,084



800N



Trench 14

VANCO EXPLORATIONS LIMITED

ASPEN GROVE PROJECT
HIT & MISS CLAIMS
TRENCHES 91-8A, 91-8B
GEOLOGY & ROCK SAMPLE ASSAYS

| SCALE | DATE | BY | NTS | FIG. N ^o |
|-------|-----------|------------|----------|---------------------|
| 1:200 | Sept. '91 | dip IMW | 92 H/10E | 7 |

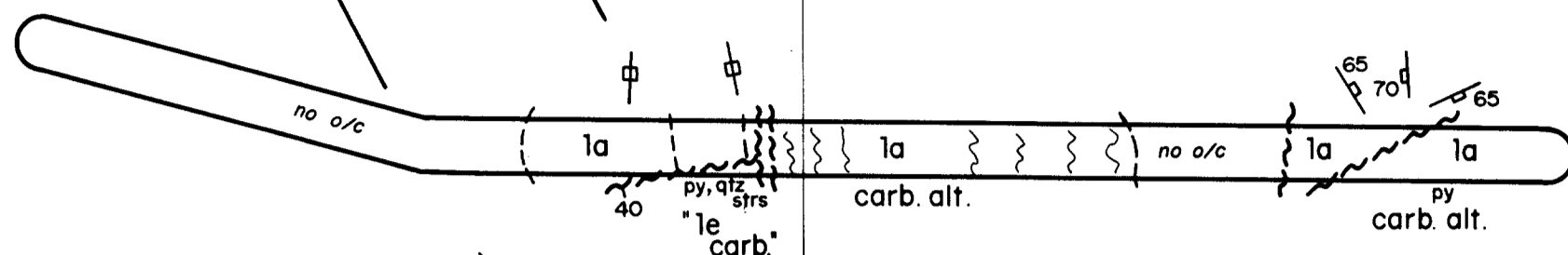


I.M. WATSON & ASSOCIATES LTD.

4500

100 W

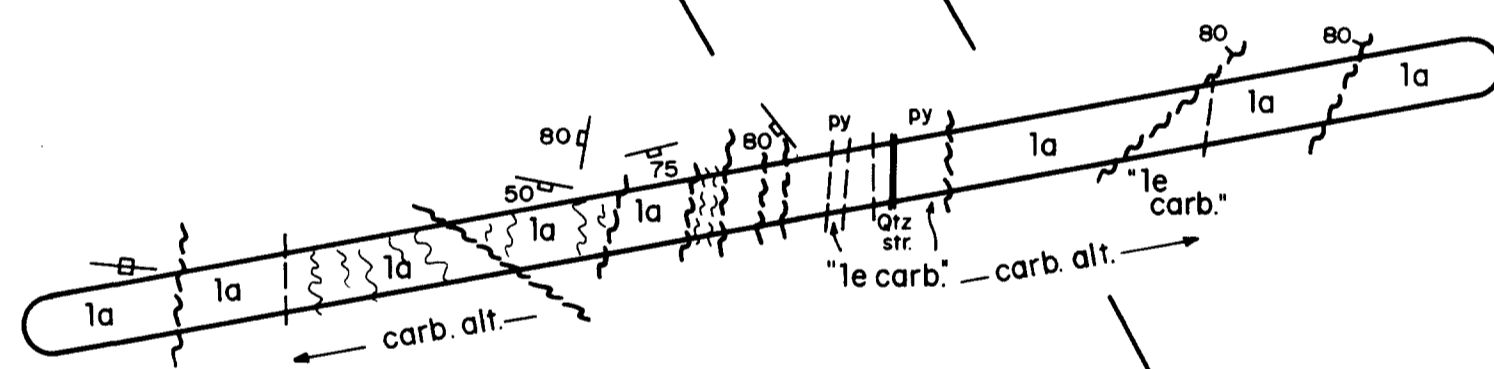
Trench 91-11



Trench 91-11 - Assays

| Cu (ppm) | Pb (ppm) | Ag (ppm) | Au Width (ppb) | Au Width (m) | Sample ID |
|----------|----------|----------|----------------|--------------|-----------|
| 57 | 8 | 0.3 | 7 | 1 | 411 |
| 47 | 8 | 0.2 | 25 | 2 | 438 |
| 25 | 6 | 0.1 | 1 | " | 451 |
| 38 | 8 | 0.1 | 2 | " | 471 |
| 34 | 10 | 0.1 | 3 | " | 491 |
| 36 | 11 | 0.1 | 1 | " | 511 |
| 41 | 4 | 0.1 | 1 | " | 531 |
| 89 | 5 | 0.1 | 3 | " | 551 |
| 116 | 11 | 0.2 | 7 | " | 571 |

Trench 91-10



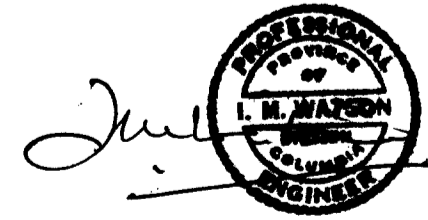
Trench 91-10 - Assays

| Cu (ppm) | Pb (ppm) | Ag (ppm) | Au Width (ppb) | Au Width (m) | Sample ID |
|----------|----------|----------|----------------|--------------|-----------|
| 68 | 4 | 0.2 | 19 | 2 | 81E |
| 93 | 6 | 0.1 | 25 | " | 77E |
| 67 | 7 | 0.2 | 210 | " | 75E |
| 56 | 12 | 0.1 | 86 | " | 73E |
| 29 | 9 | 0.1 | 8 | " | 71E |

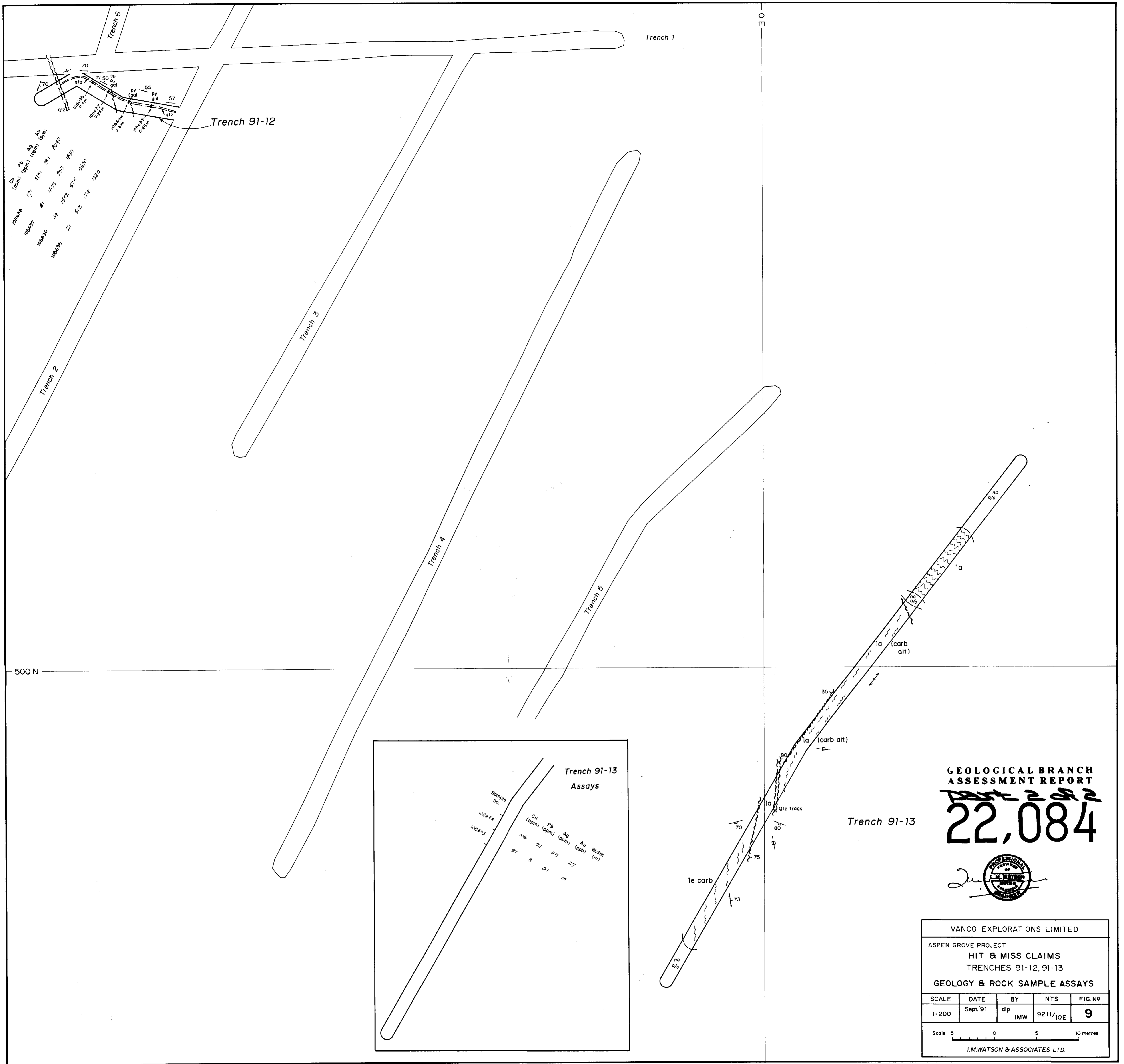
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**
22,084

Sample number indicates side of trench sampled, except where shown otherwise by arrow

—4500— Topographic contour (f.a.s.l.)



| | | | | |
|-------------------------------|----------|-----|-----|-----------|
| VANCO EXPLORATIONS LIMITED | | | | |
| ASPEN GROVE PROJECT | | | | |
| HIT & MISS CLAIMS | | | | |
| TRENCHES 91-10, 91-11 | | | | |
| GEOLOGY & ROCK SAMPLE ASSAYS | | | | |
| SCALE | DATE | BY | NTS | FIG. NO. |
| 1:200 | Sept. 91 | dip | IMW | 92H/10E 8 |
| Scale 5 0 5 10 metres | | | | |
| I.M. WATSON & ASSOCIATES LTD. | | | | |

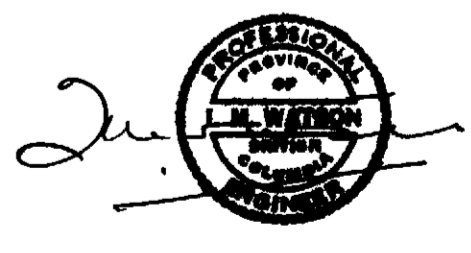


| Sample no. | Cu (ppm) | Pb (ppm) | Ag (ppm) | Au (ppb) |
|------------|----------|----------|----------|----------|
| 108636 | 171 | 1.23 | 23.1 | 80-140 |
| 108637 | 81 | 16.73 | 23.3 | 1830 |
| 108638 | 49 | 1532 | 57.5 | 2570 |
| 108639 | 21 | 572 | 172 | 1520 |

Trench 91-13 Assays

| Sample no. | Cu (ppm) | Pb (ppm) | Ag (ppm) | Au (ppb) | Width (m) |
|------------|----------|----------|----------|----------|-----------|
| 108634 | 106 | 21 | 0.5 | 27 | |
| 108633 | 91 | 3 | 0.1 | 15 | |

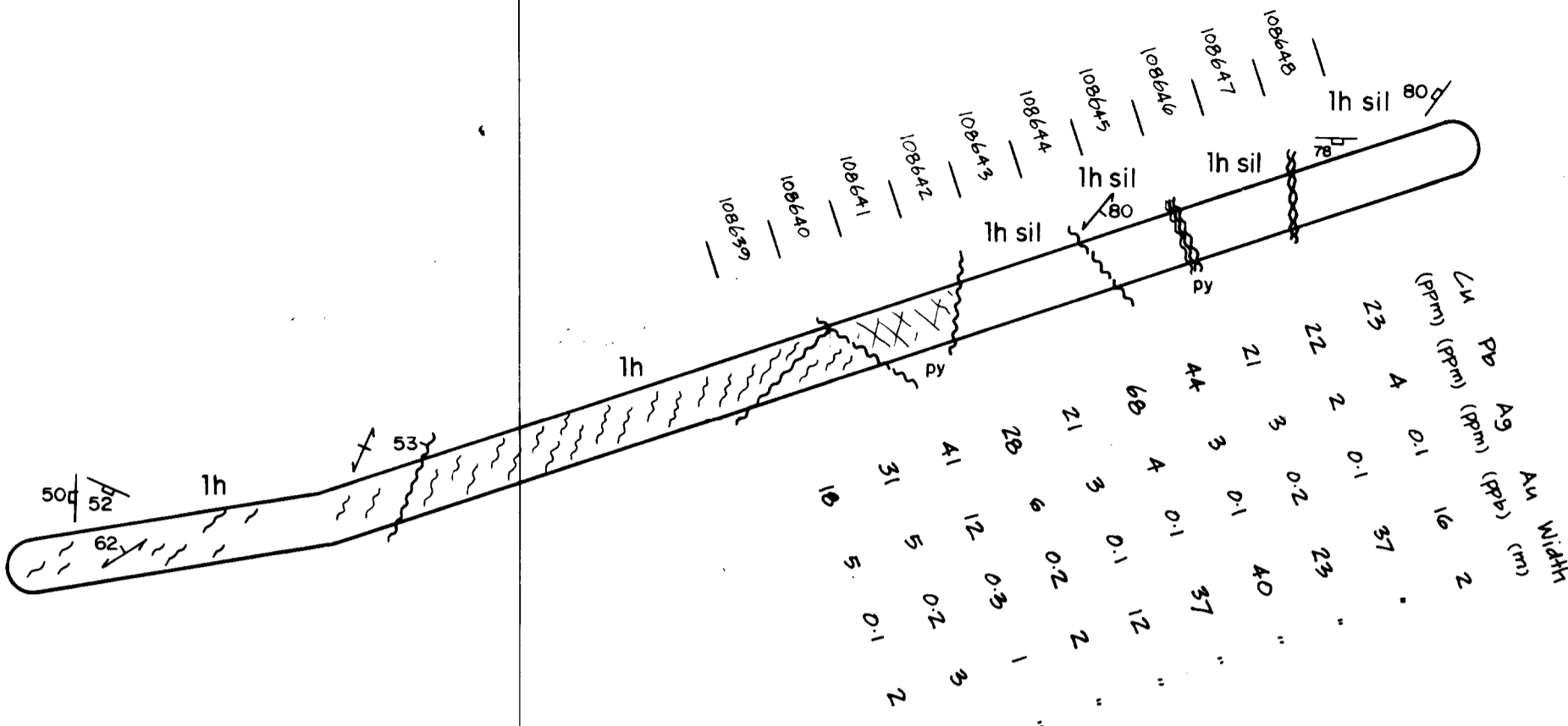
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**
~~22,084~~
22,084



| VANCO EXPLORATIONS LIMITED | | | | |
|-------------------------------|-----------|------------|----------|----------|
| ASPEN GROVE PROJECT | | | | |
| HIT & MISS CLAIMS | | | | |
| TRENCHES 91-12, 91-13 | | | | |
| GEOLOGY & ROCK SAMPLE ASSAYS | | | | |
| SCALE | DATE | BY | NTS | FIG. NO. |
| 1:200 | Sept. '91 | dip IMW | 92 H/10E | 9 |
| Scale 5 0 5 10 metres | | | | |
| I.M. WATSON & ASSOCIATES LTD. | | | | |

50 W

0 E



Trench 91-18D

GEOLOGICAL BRANCH ASSESSMENT REPORT

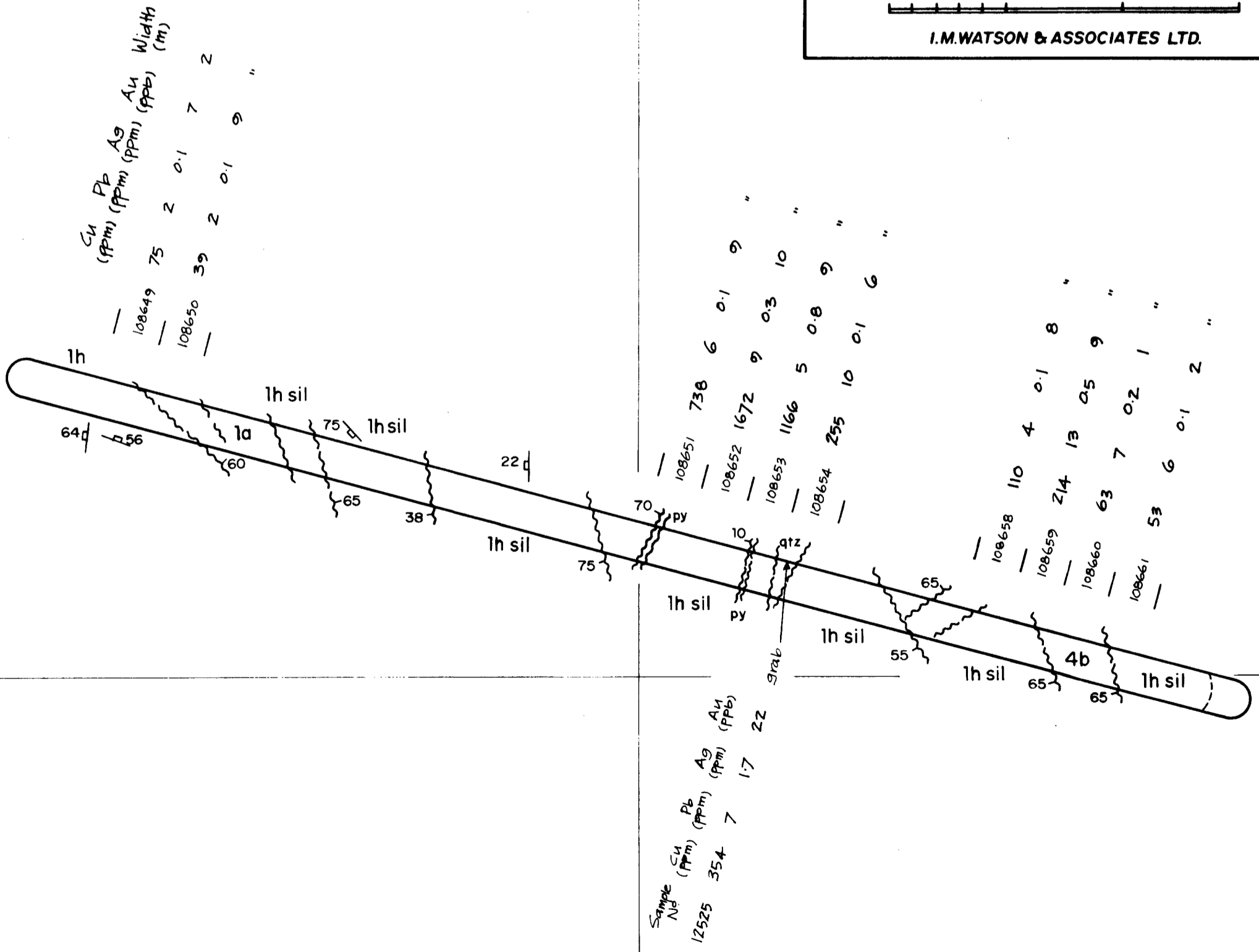
22,084



| VANCO EXPLORATIONS LIMITED | | | | |
|------------------------------|-----------|------------|----------|---------|
| ASPEN GROVE PROJECT | | | | |
| HIT & MISS CLAIMS | | | | |
| TRENCHES 91-18D, 91-19 | | | | |
| GEOLOGY & ROCK SAMPLE ASSAYS | | | | |
| SCALE | DATE | BY | NTS | FIG. NO |
| 1:200 | Sept. '91 | dip IMW | 92 H/10E | 10 |
| Scale 5 0 5 10 metres | | | | |
| I.M.WATSON & ASSOCIATES LTD. | | | | |

300 S

Trench 91-19



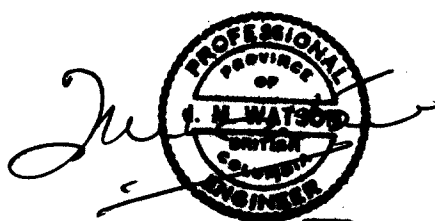
350 S

50 W

0 E

Trench 91-21

Cu (ppm) 21
 Pb (ppm) 57
 Ag (ppm) 12
 Au Width (m) 13
 0.3
 0.3
 0.5
 0.8
 14
 15
 2
 108694
 108695
 108696



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 ASPEN GROVE
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108700 53 9 0.2 10 2
 108705 43 4 0.1 3 2
 108706 44 5 0.1 5
 108709 37 8 0.2 7
 108713 23 7 0.1 3 2
 850 S

| | | | | |
|--|-----------|------------|----------|---------|
| VANCO EXPLORATIONS LIMITED | | | | |
| ASPEN GROVE PROJECT | | | | |
| HIT & MISS CLAIMS | | | | |
| TRENCH 91-21 | | | | |
| ROCK SAMPLE ASSAYS | | | | |
| SCALE | DATE | BY | NTS | FIG. NO |
| 1:200 | Sept. '91 | dip IMW | 92 H/10E | 11 |
| Scale 5 0 5 10 metres I.M. WATSON & ASSOCIATES LTD. | | | | |

Trench 91-22C

| Sample No | Cu (ppm) | Pb (ppm) | Ag (ppm) | Au (ppb) | Width (m) |
|-----------|----------|----------|----------|----------|-----------|
| 108761 | 9 | 6 | 0.1 | 2 | 2 |
| 108762 | 16 | 9 | 0.2 | 2 | " |
| 108763 | 10 | 3 | 0.1 | 2 | " |
| 108764 | 23 | 10 | 0.1 | 5 | " |

| Sample No | Cu (ppm) | Pb (ppm) | Ag (ppm) | Au (ppb) | Width (m) |
|-----------|----------|----------|----------|----------|-----------|
| 108740 | 6 | 21 | 0.1 | 12 | 2 |
| 108741 | 5 | 10 | 0.1 | 4 | " |
| 108742 | 14 | 18 | 0.1 | 1 | " |

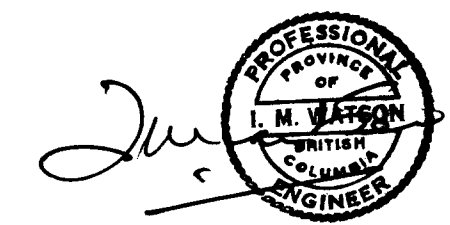
| Sample No | Cu (ppm) | Pb (ppm) | Ag (ppm) | Au (ppb) | Width (m) |
|-----------|----------|----------|----------|----------|-----------|
| 108760 | 61 | 6 | 0.1 | 3 | 2 |

| Sample No | Cu (ppm) | Pb (ppm) | Ag (ppm) | Au (ppb) | Width (m) |
|-----------|----------|----------|----------|----------|-----------|
| 108765 | 15 | 6 | 0.1 | 1 | 2 |
| 108766 | 29 | 11 | 0.1 | 3 | " |
| 108767 | 29 | 18 | 0.2 | 4 | " |
| 108768 | 36 | 14 | 0.2 | 4 | " |

| Sample No | Cu (ppm) | Pb (ppm) | Ag (ppm) | Au (ppb) | Width (m) |
|-----------|----------|----------|----------|----------|-----------|
| 108771 | 21 | 5 | 0.1 | 2 | 2 |
| 108772 | 24 | 6 | 0.1 | 5 | " |
| 108775 | 30 | 9 | 0.2 | 2 | " |
| 108776 | 32 | 7 | 0.1 | 7 | " |
| 108777 | 20 | 9 | 0.1 | 4 | " |
| 108778 | 34 | 6 | 0.1 | 4 | " |
| 108779 | 110 | 7 | 0.1 | 15 | " |
| 108780 | 109 | 571 | 4.6 | 18 | " |

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| | | | | |
|--|------|-----|---------|---------|
| VANCO EXPLORATIONS LTD. | | | | |
| CLAIMS, B.C. | | | | |
| HIT & MISS CLAIMS TRENCH 91-22C ROCK SAMPLE ASSAYS | | | | |
| SCALE | DATE | BY | N.T.S. | FIG. N° |
| 1:500 | | IMW | 92H/IOE | 12 |
| Scale _____ metres | | | | |
| I.M. WATSON & ASSOCIATES LTD. | | | | |



200 W

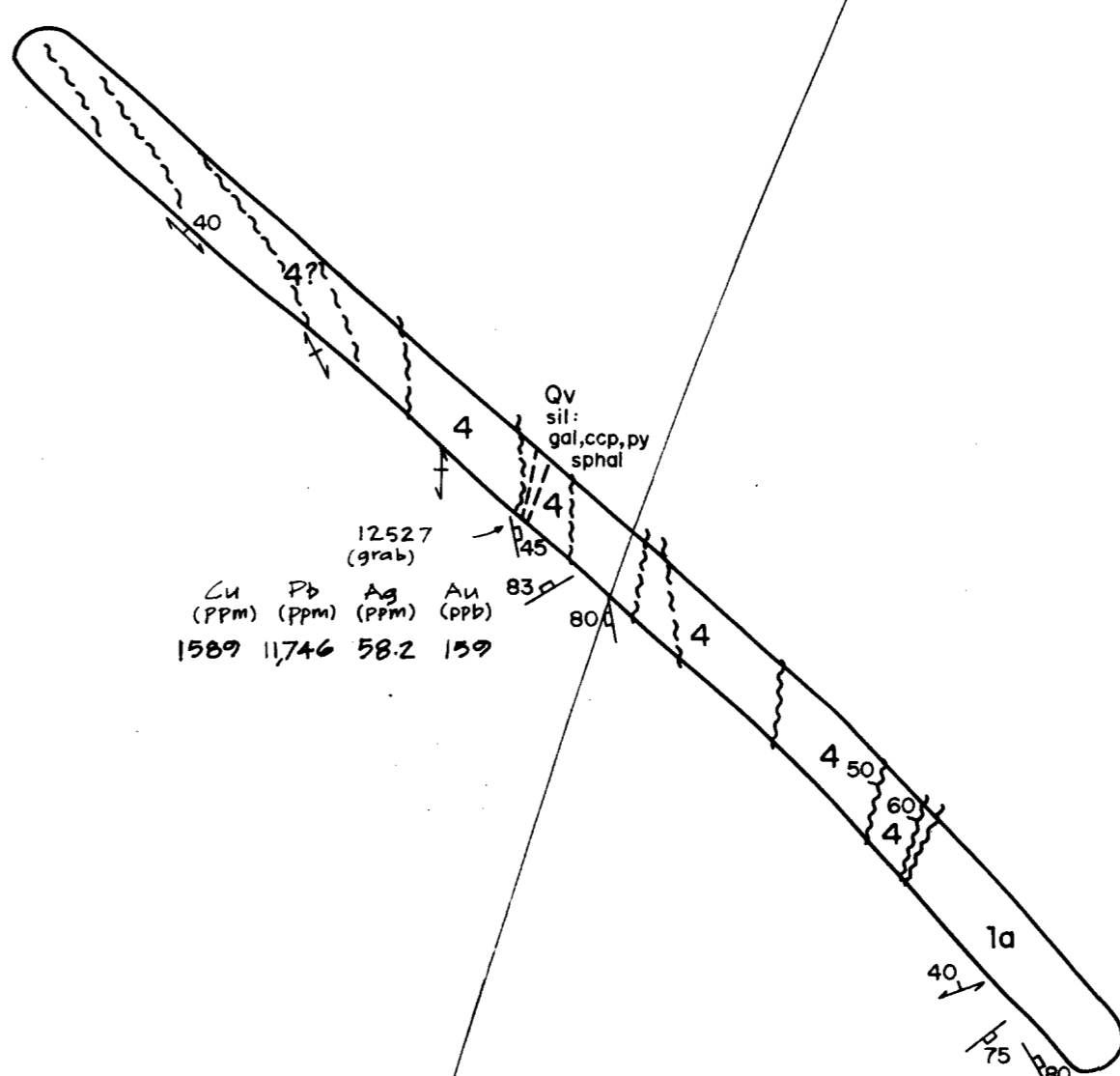
100 W

0 E

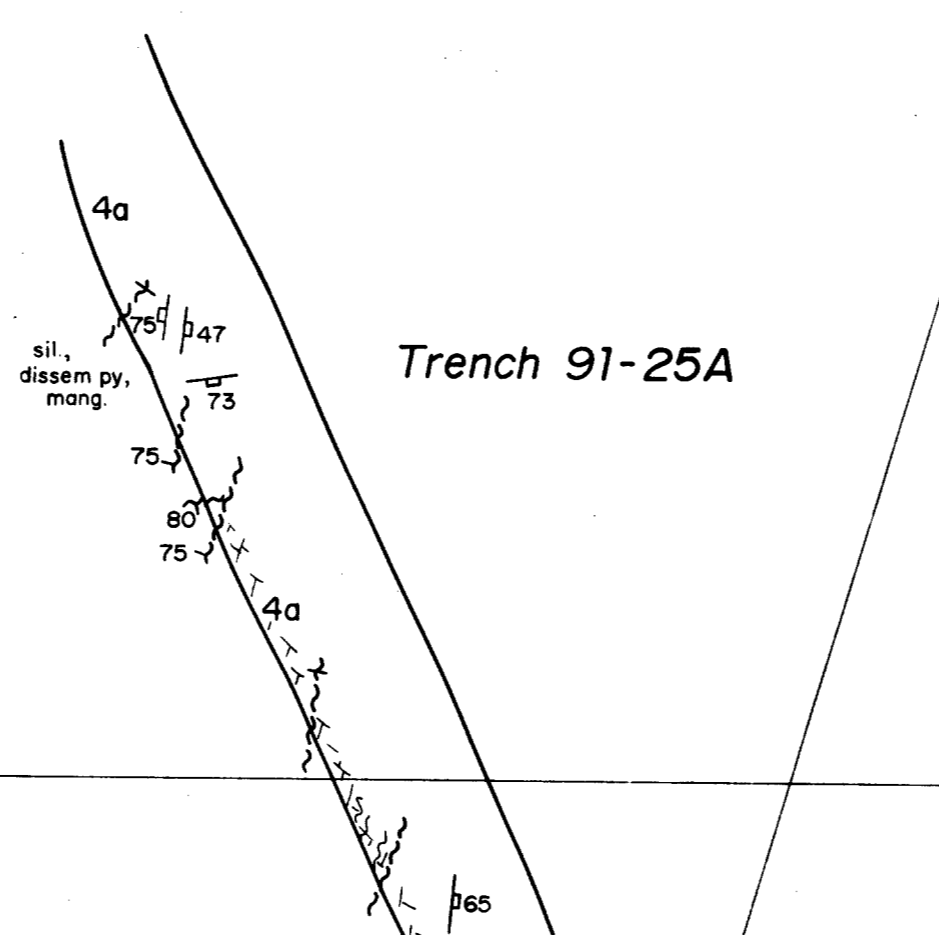
1000 S

Trench 91-23 - Assays

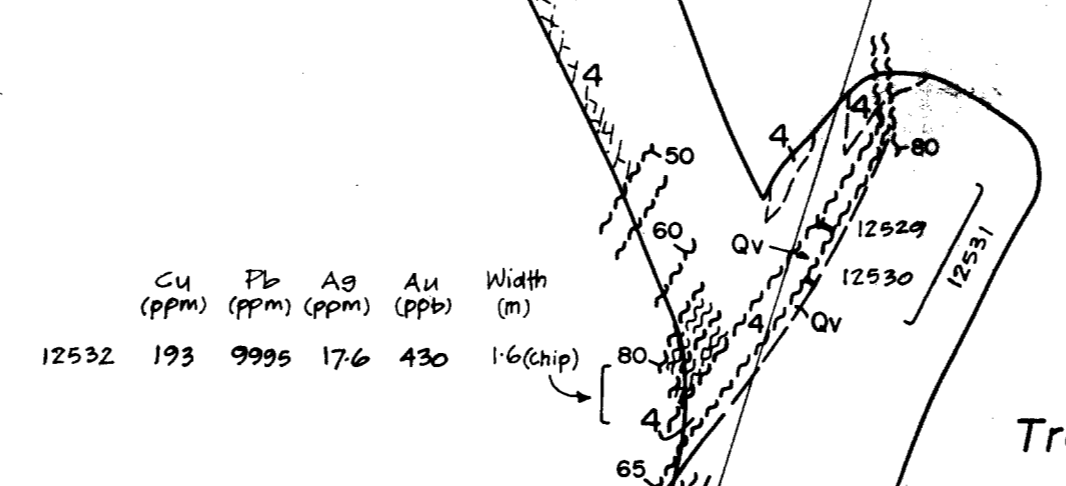
| Sample No. | Cu (ppm) | Pb (ppm) | Ag (ppm) | Au (ppb) | Width (m) |
|------------|----------|----------|----------|----------|-----------|
| 108730 | 76 | 621 | 27 | 1046 | 2 |
| 108728 | 77 | 1050 | 24 | 114 | + |
| 108727 | 62 | 293 | 11 | 46 | + |
| 108726 | 29 | 177 | 1.4 | 76 | + |
| 108725 | 7 | 170 | 2.6 | 147 | + |
| 108724 | 46 | 1701 | 10.1 | 178 | + |
| 108723 | 37 | 969 | 2.0 | 85 | + |
| 108722 | 41 | 591 | 2.7 | 31 | + |
| 108721 | 1048 | 8384 | 26.1 | 32.0 | + |
| 108720 | 110 | 1053 | 4.4 | 41 | + |
| 108719 | 62 | 104 | 1.2 | 21 | + |
| 108718 | 21 | 114 | 1.9 | 66 | + |
| 108717 | 22 | 134 | 4.2 | 82 | + |
| 108716 | 11 | 429 | 13.6 | 93 | + |
| 108715 | 6 | 124 | 8.8 | 87 | + |
| 108714 | 85 | 91 | 2.8 | 27 | + |



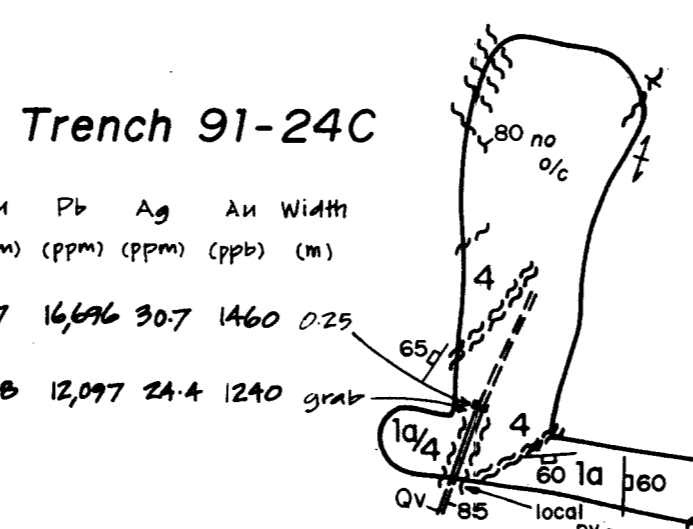
Trench 91-23



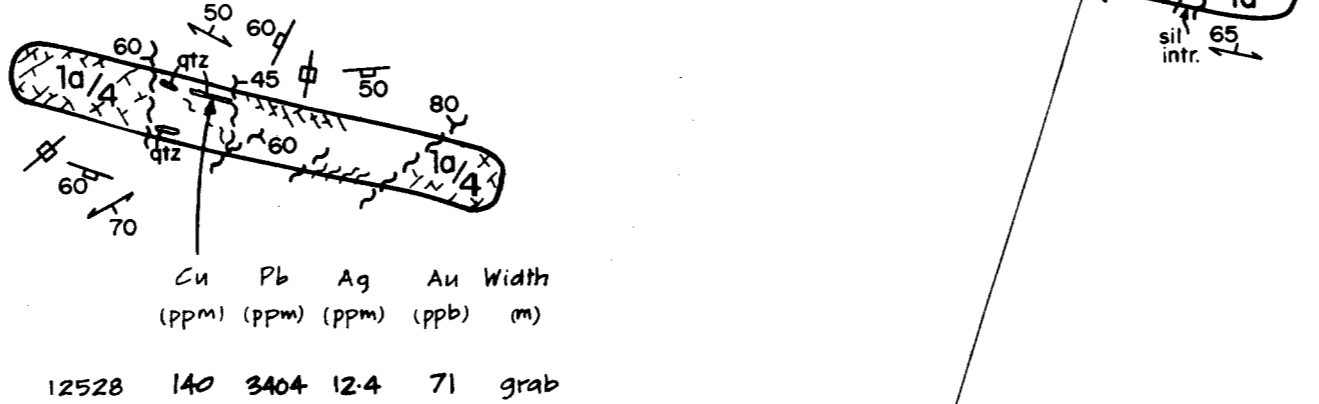
Trench 91-25A



Trench 91-25B



Trench 91-24C



Trench 91-24A

Trench 91-24B

| Sample No. | Cu (ppm) | Pb (ppm) | Ag (ppm) | Au (ppb) | Width (m) |
|------------|----------|----------|----------|----------|------------|
| 12529 | 425 | 7429 | 19.7 | 1660 | 0.3(chip) |
| 12530 | 765 | 4350 | 19.0 | 1560 | 0.25(chip) |
| 12531 | 1473 | 9556 | 74.9 | 1050 | 4(grab) |

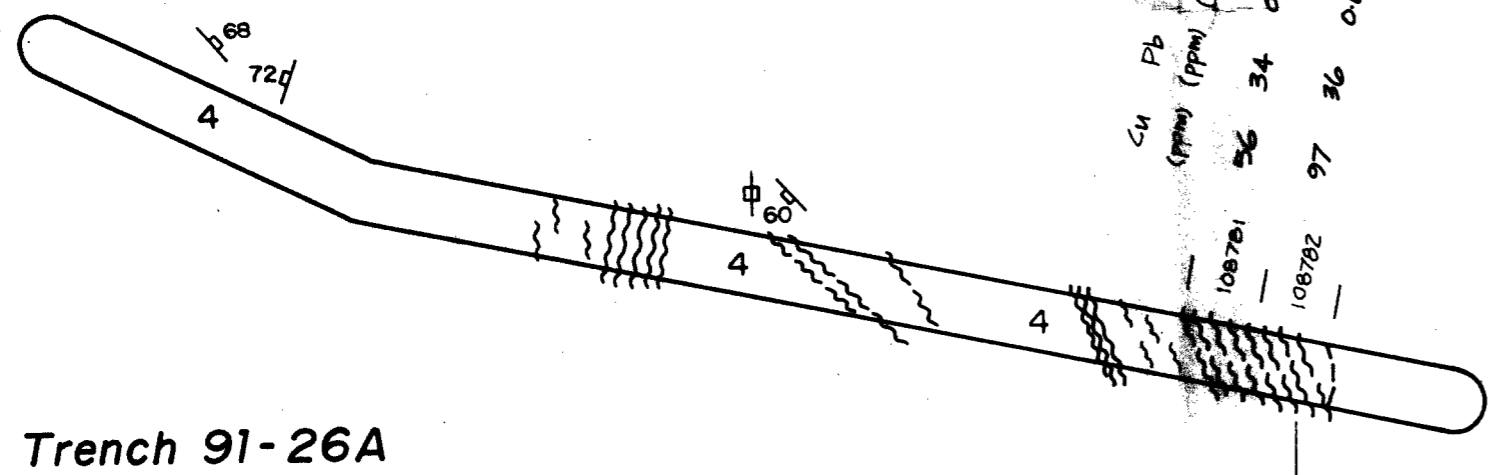
| Sample No. | Cu (ppm) | Pb (ppm) | Ag (ppm) | Au (ppb) | Width (m) |
|------------|----------|----------|----------|----------|-----------|
| 12532 | 193 | 9995 | 17.6 | 430 | 1.6(chip) |

| Sample No. | Cu (ppm) | Pb (ppm) | Ag (ppm) | Au (ppb) | Width (m) |
|------------|----------|----------|----------|----------|-----------|
| 12534 | 117 | 1696 | 30.7 | 1460 | 0.25 |
| 12535 | 568 | 15,977 | 24.4 | 1240 | grab |

| Sample No. | Cu (ppm) | Pb (ppm) | Ag (ppm) | Au (ppb) | Width (m) |
|------------|----------|----------|----------|----------|-----------|
| 12528 | 140 | 3404 | 12.4 | 71 | grab |

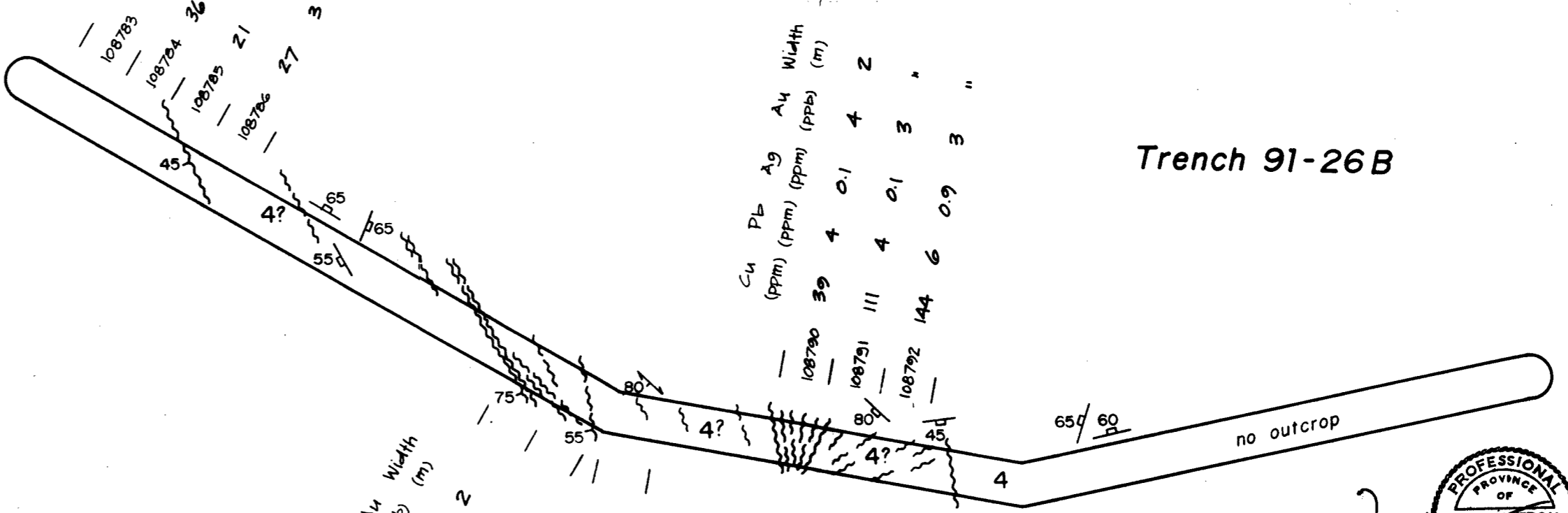
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| | | | | |
|----------------------------------|---------|-----|-----|-----------|
| VANCO EXPLORATIONS LIMITED | | | | |
| ASPEN GROVE PROJECT | | | | |
| HIT & MISS CLAIMS | | | | |
| TRENCHES 91-23, -24A,B,C, -25A,B | | | | |
| GEOLOGY & ROCK SAMPLE ASSAYS | | | | |
| SCALE | DATE | BY | NTS | FIG. NO. |
| 1:200 | Aug '91 | dip | IMW | 92H/0E 13 |
| Scale 0 5 10 metres | | | | |
| I.M. WATSON & ASSOCIATES LTD. | | | | |



Trench 91-26A

| Cu (ppm) | Pb (ppm) | Ag (ppm) | Au Width (m) |
|----------|----------|----------|--------------|
| 36 | 34 | 0.5 | 14 |
| 97 | 36 | 0.6 | 17 |



Trench 91-26B

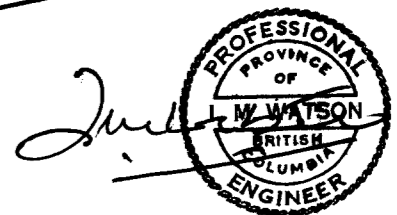
| Cu (ppm) | Pb (ppm) | Ag (ppm) | Au Width (m) |
|----------|----------|----------|--------------|
| 45 | 37 | 0.3 | 6 |
| 36 | 8 | 0.1 | 5 |
| 21 | 2 | 0.1 | 5 |
| 27 | 3 | 0.1 | 2 |

| Cu (ppm) | Pb (ppm) | Ag (ppm) | Au Width (m) |
|----------|----------|----------|--------------|
| 39 | 4 | 0.1 | 4 |
| 111 | 4 | 0.1 | 3 |
| 144 | 6 | 0.9 | 3 |

| Cu (ppm) | Pb (ppm) | Ag (ppm) | Au Width (m) |
|----------|----------|----------|--------------|
| 17 | 5 | 0.1 | 5 |
| 19 | 3 | 0.1 | 16 |
| 39 | 2 | 0.3 | 4 |

1350S

50E



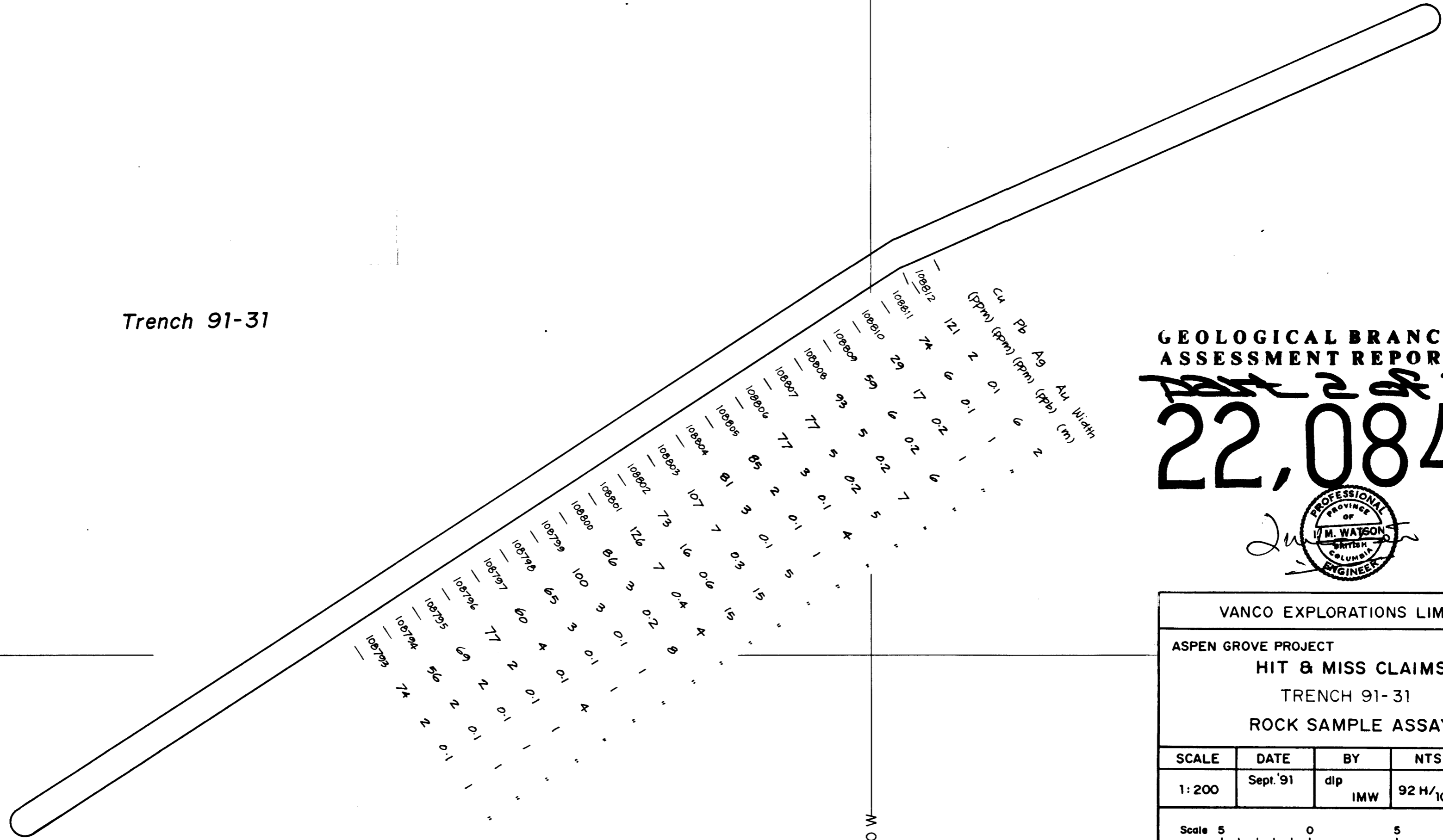
22,084
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 ASSESSMENT REPORT

| | | | | |
|-------------------------------|-----------|------------|----------|---------|
| VANCO EXPLORATIONS LIMITED | | | | |
| ASPEN GROVE PROJECT | | | | |
| HIT & MISS CLAIMS | | | | |
| TRENCHES 91-26A, 91-26B | | | | |
| GEOLOGY & ROCK SAMPLE ASSAYS | | | | |
| SCALE | DATE | BY | NTS | FIG. NO |
| 1:200 | Sept. '91 | dip IMW | 92 H/10E | 14 |
| Scale 5 0 5 10 metres | | | | |
| I.M. WATSON & ASSOCIATES LTD. | | | | |

Trench 91-31

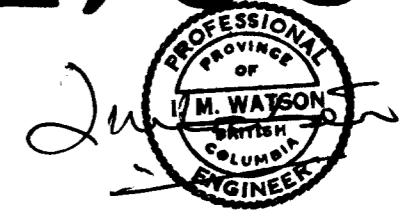
850 N

400 W

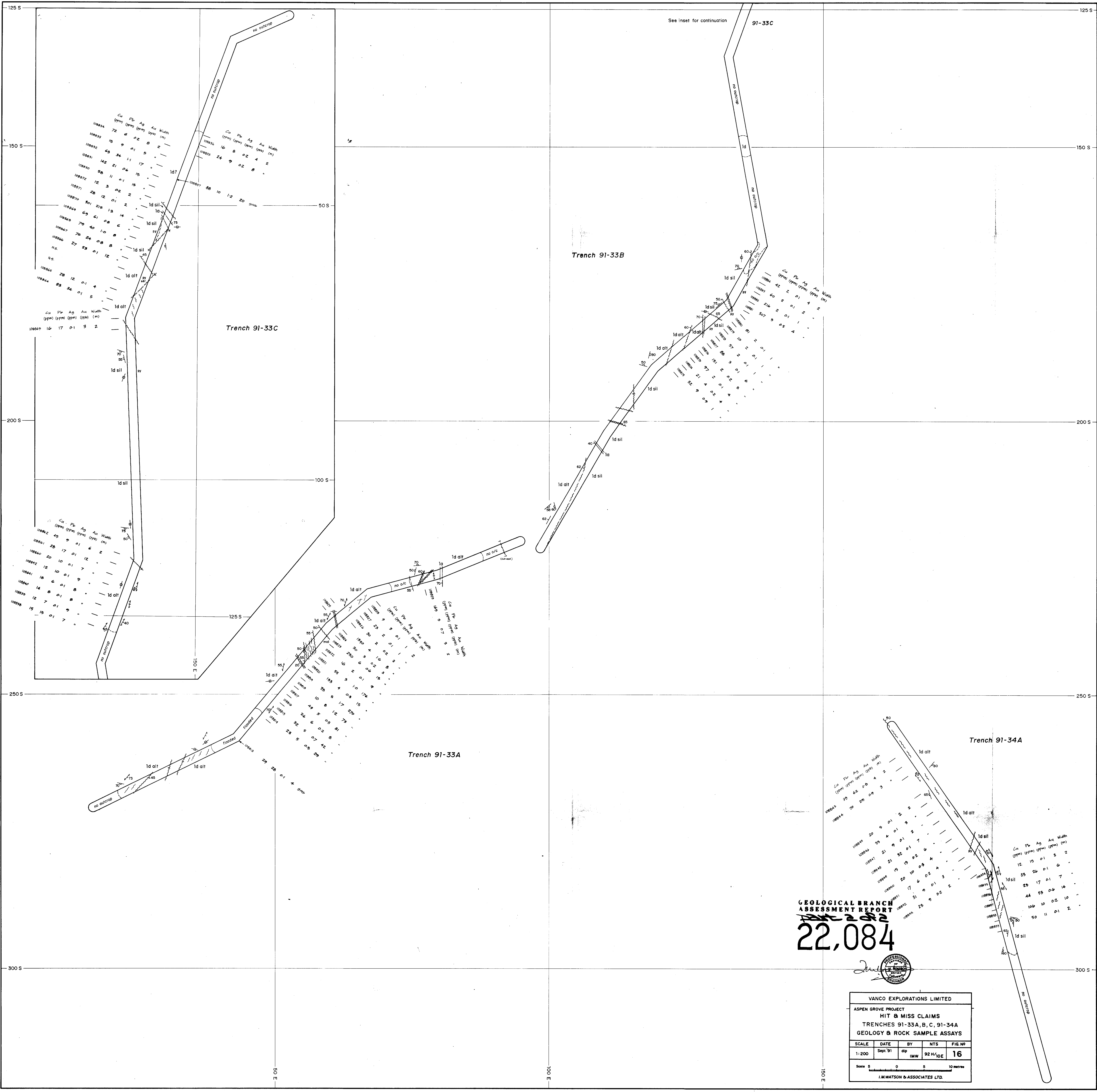


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| | | | | |
|------------------------------|-----------|------------|----------|-----------|
| VANCO EXPLORATIONS LIMITED | | | | |
| ASPEN GROVE PROJECT | | | | |
| HIT & MISS CLAIMS | | | | |
| TRENCH 91-31 | | | | |
| ROCK SAMPLE ASSAYS | | | | |
| SCALE | DATE | BY | NTS | FIG. NO |
| 1:200 | Sept. '91 | dip IMW | 92 H/10E | 15 |
| Scale 5 0 5 10 metres | | | | |
| I.M.WATSON & ASSOCIATES LTD. | | | | |



See inset for continuation 91-33C

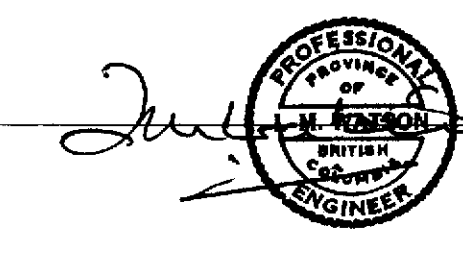
Trench 91-33B

Trench 91-33C

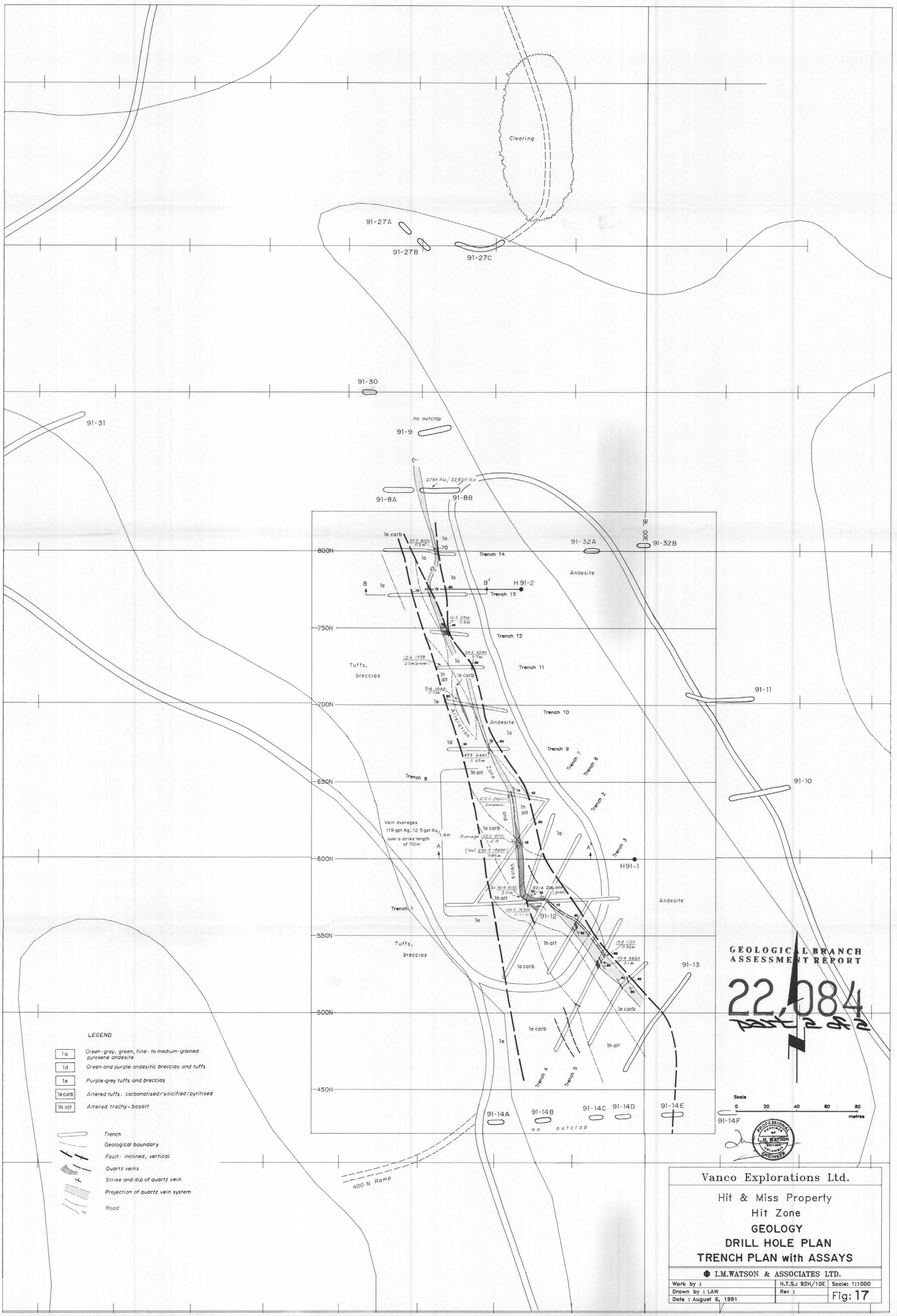
Trench 91-33A

Trench 91-34A

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| | | | | |
|-------------------------------|----------|-----|-----|-------------|
| VANCO EXPLORATIONS LIMITED | | | | |
| ASPEN GROVE PROJECT | | | | |
| HIT & MISS CLAIMS | | | | |
| TRENCHES 91-33A, B, C, 91-34A | | | | |
| GEOLOGY & ROCK SAMPLE ASSAYS | | | | |
| SCALE | DATE | BY | NTS | FIG. NO. |
| 1:200 | Sept '91 | dip | IMW | 92 H/10E 16 |
| Scale 5 0 5 10 metres | | | | |
| J.M. WATSON & ASSOCIATES LTD. | | | | |

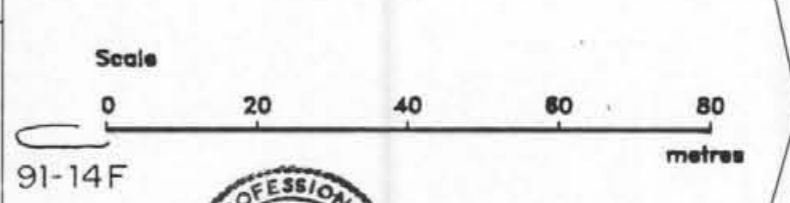


- LEGEND**
- 1a Green-grey, green, fine- to medium-grained pyroxene andesite
 - 1d Green and purple andesitic breccias and tuffs
 - 1e Purple-grey tuffs and breccias
 - 1ecarb Altered tuffs: carbonatised/silicified/pyritised
 - 1halt Altered trachy-basalt

- Trench
- Geological boundary
- Fault: inclined, vertical
- Quartz veins
- Strike and dip of quartz vein
- Projection of quartz vein system
- Road

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AUG 2 1991

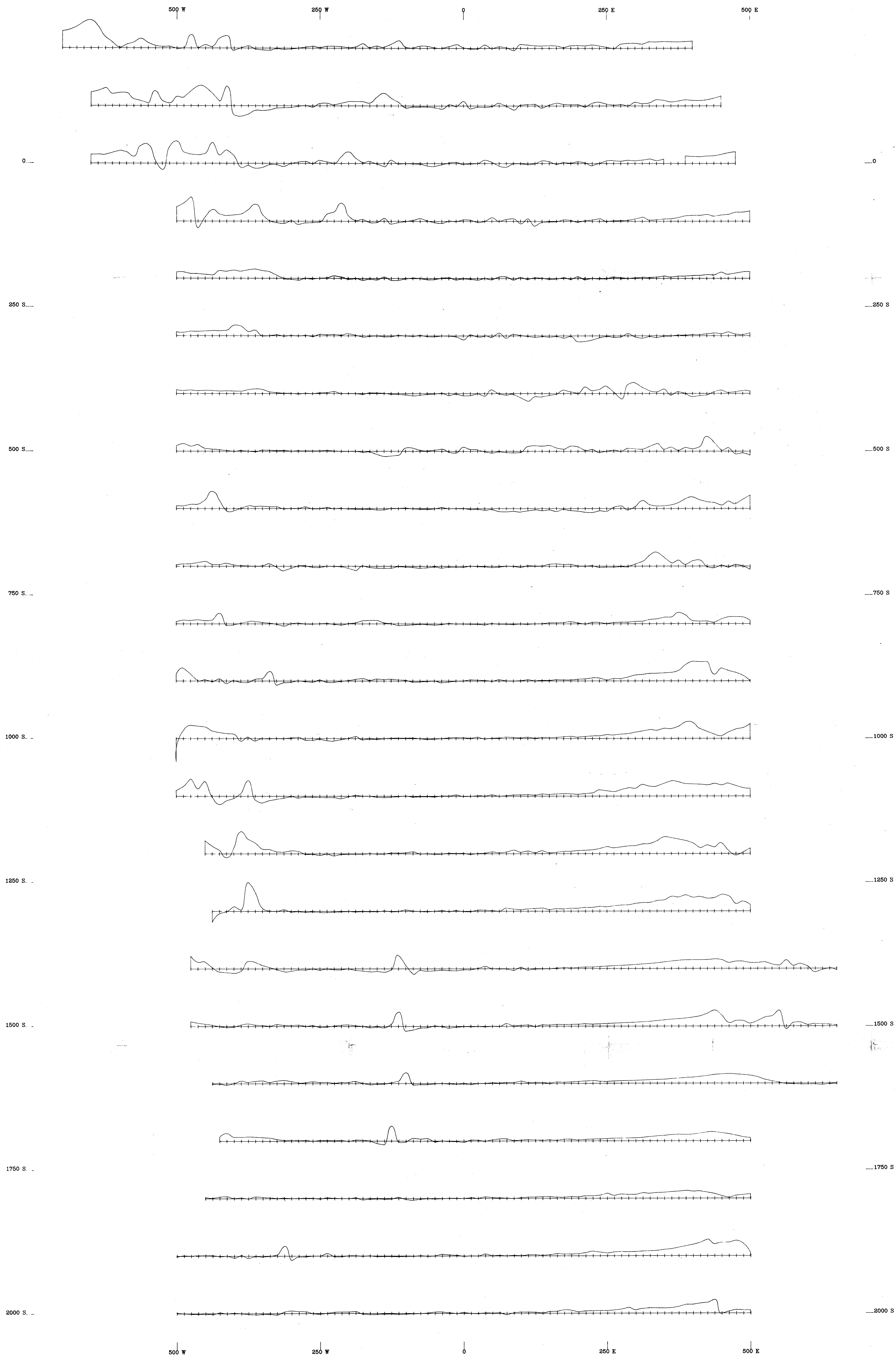


Vanco Explorations Ltd.

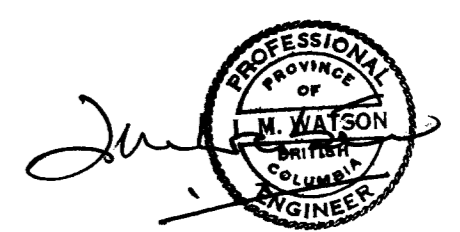
Hit & Miss Property
Hit Zone
GEOLOGY
DRILL HOLE PLAN
TRENCH PLAN with ASSAYS

I.M.WATSON & ASSOCIATES LTD.

| | | |
|-----------------------|-----------------|---------------|
| Work by : | N.T.S.: 92H/10E | Scale: 1:1000 |
| Drawn by : LAW | Rev : | Fig: 17 |
| Date : August 6, 1991 | | |



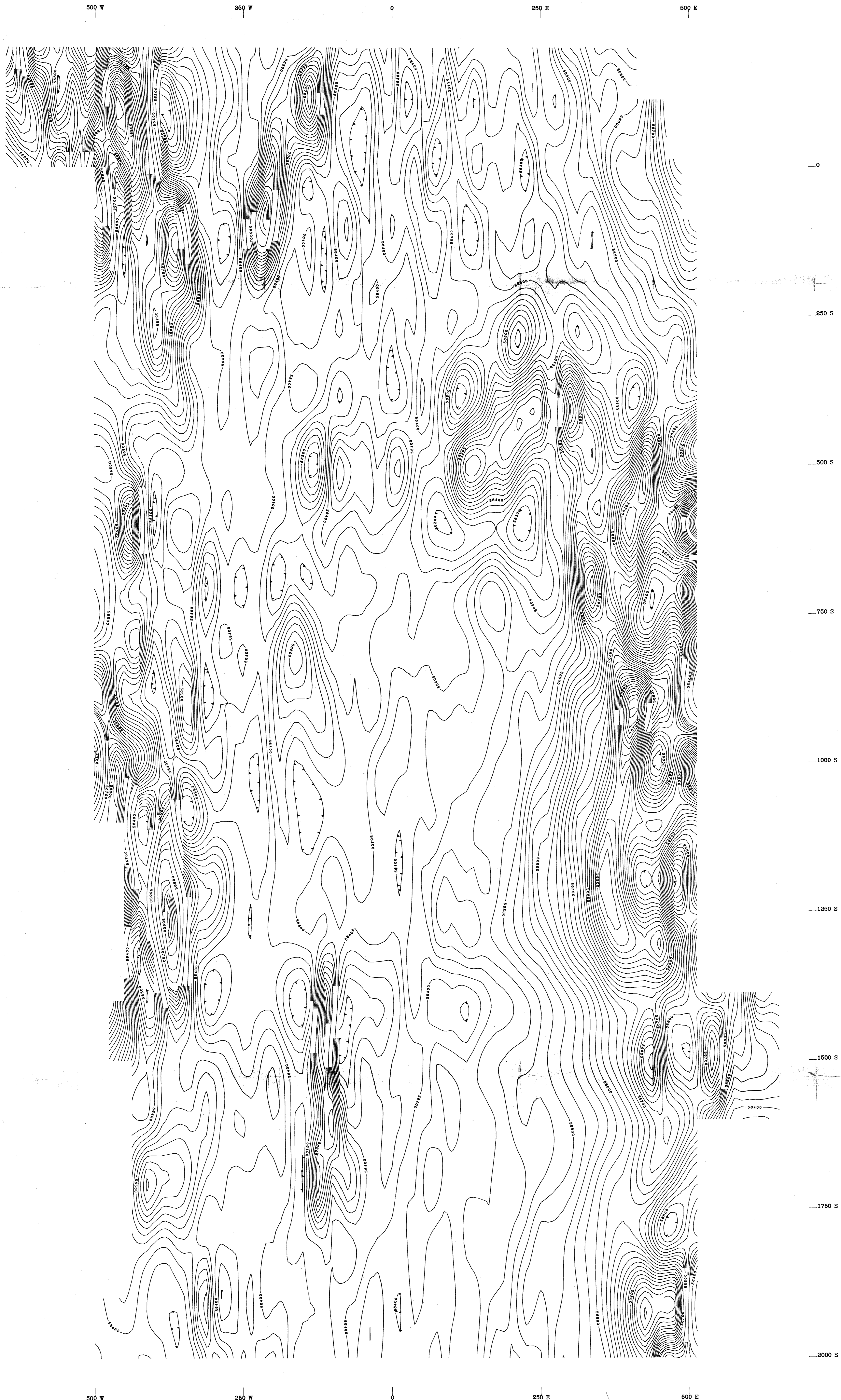
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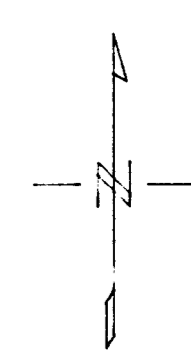
Scale 1:2500
50 100 150
(metres)

Fig. 18

VANCO EXPLORATIONS LTD
HIT and MISS CLAIMS
TOTAL FIELD MAGNETIC PROFILES, South sheet
1 cm = 500 mt, base 58400 nt
Scintrex Instruments
Fall 1990 & Spring 1991 surveys
Delta Geoscience Limited



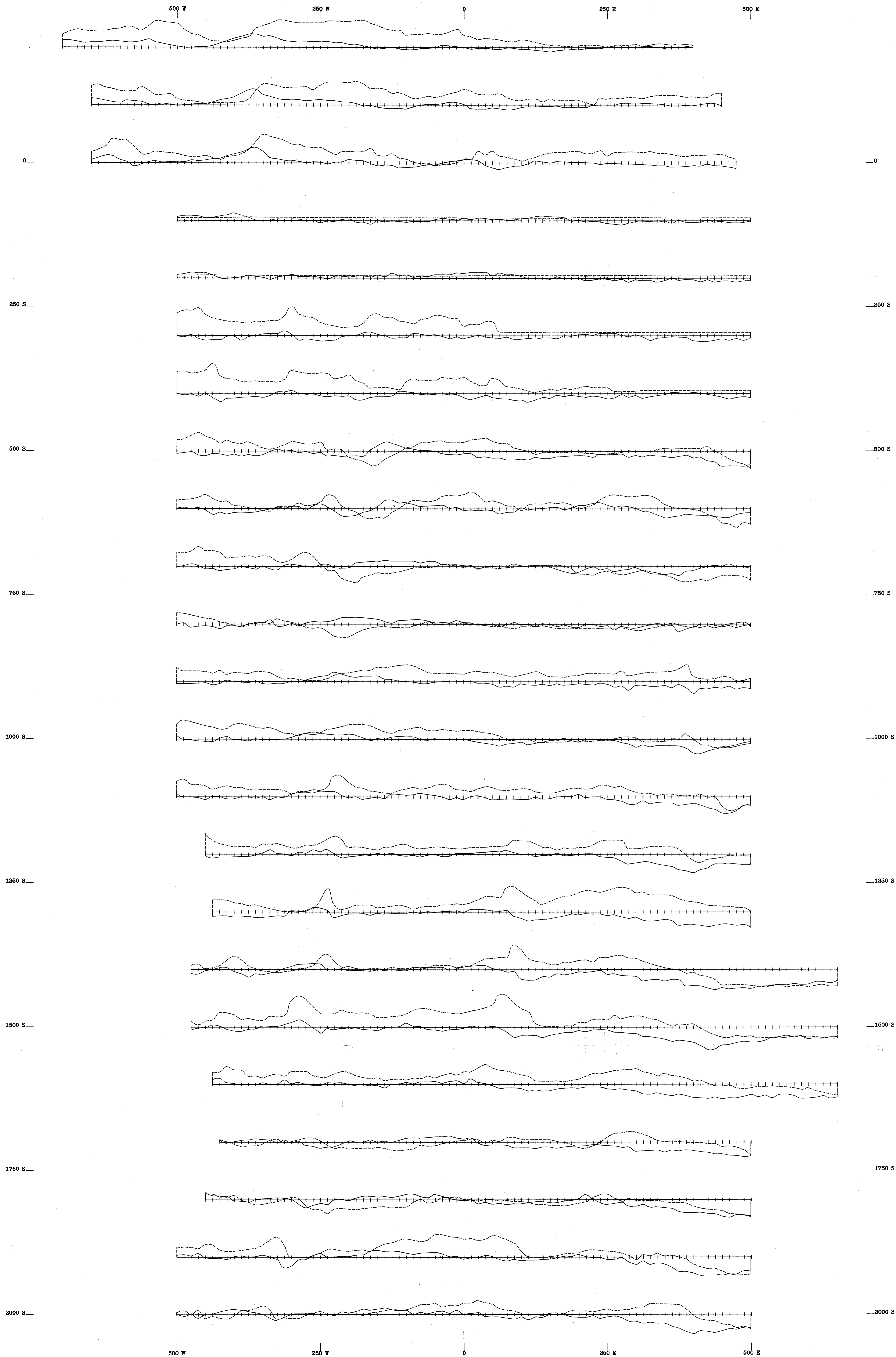
GEOLOGICAL BRANCH
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22,084
John



Scale 1:2500
0 50 100
meters

Fig.19

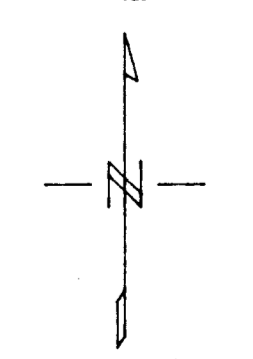
VANCO EXPLORATIONS LTD
HIT and MISS CLAIMS
TOTAL FIELD MAGNETIC PLAN, South sheet
contour interval 20 nT
Scintrex Instruments
Fall 1990 & Spring 1991 surveys
Delta Geoscience Limited



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2002

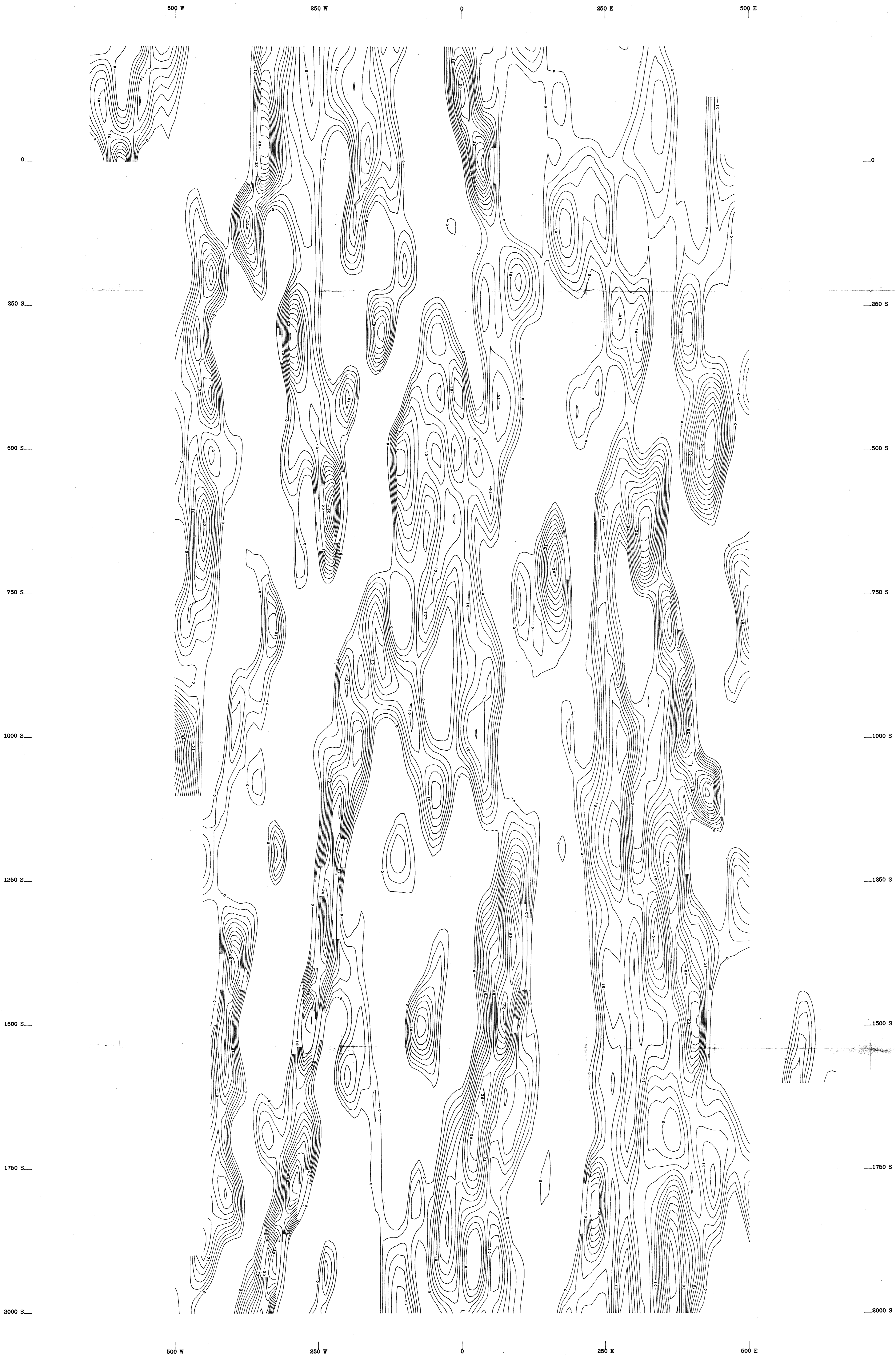
Ju
PROFESSIONAL
M. WALTON
GEOLOGICAL
ENGINEER



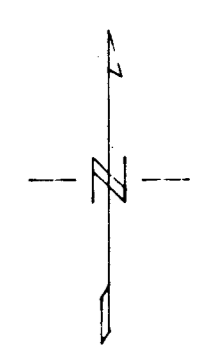
Scale 1:2500
0 50 100 150
(metres)

Fig. 20

VANCO EXPLORATIONS LTD
HIT and MISS CLAIMS
VLF-EM PROFILES, 24.8 khz & 23.4 khz, South sheet
Inphase solid line @ 1 cm = 40%, base 15%
horizontal field strength dash line @ 1 cm = 50, base 200
Fall 1990 & Spring 1991 surveys
Delta Geoscience Limited



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Scale 1:2500
0 50 100
(metres)

Fig. 21

| |
|--|
| VANCO EXPLORATIONS LTD |
| HIT and MISS CLAIMS |
| FRASER FILTERED T1-M PLAT, 24.8 km x 23.4 km, South sheet |
| contour interval 2 % Scintrex 10S system Fall 1990 & Spring 1991 surveys |
| Delta Geoscience Limited |