

Tasmanian Mineral Exploration Company Report

Title: RGC Exploration, Moina 1988, including historic plans
Company: PlacerDome

Plans from archive store in Zeehan

Compiled by David Green 4 June 2003.

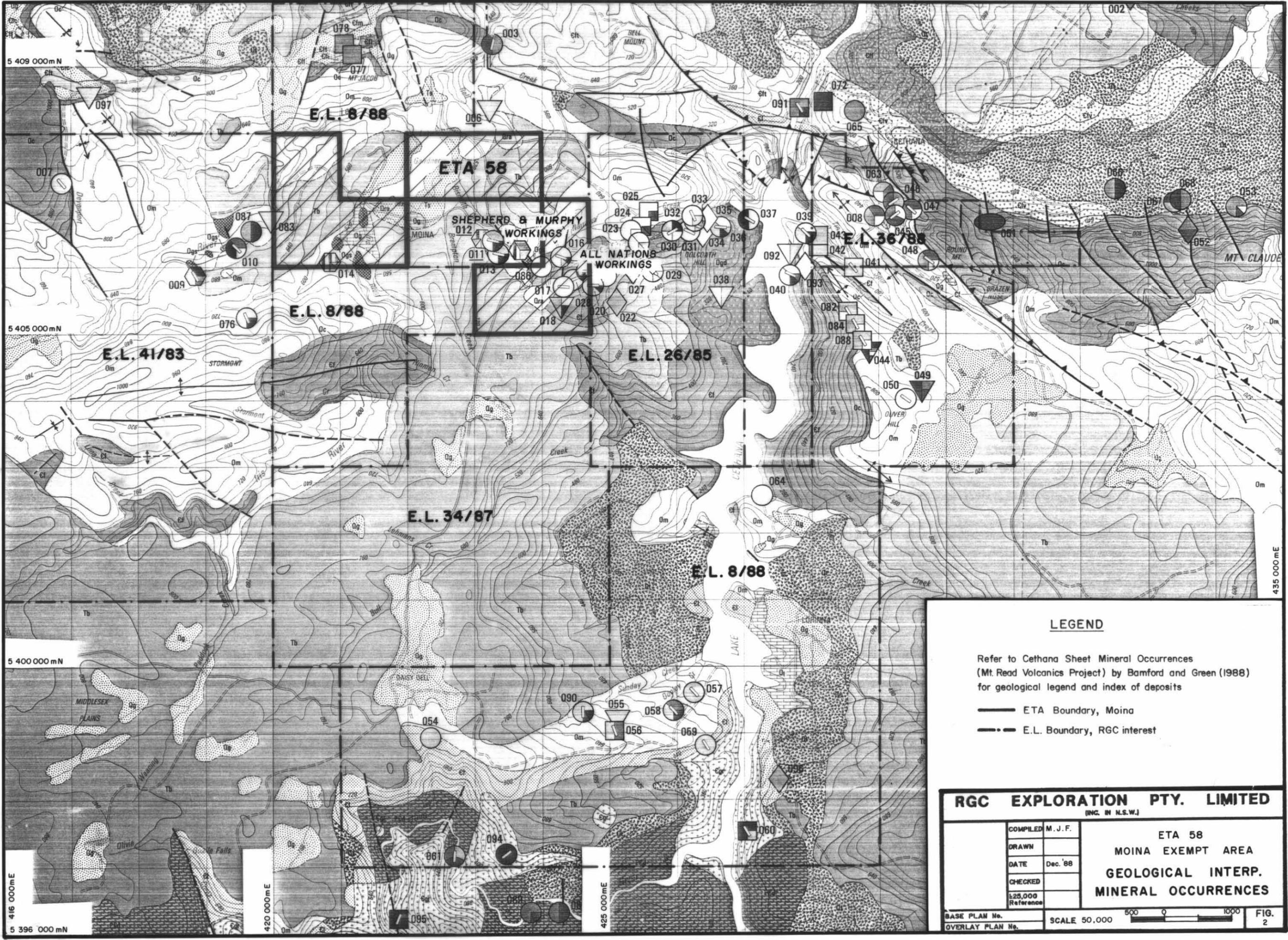
03_4931

RGC Exploration, Moina 1988, including historic plans

Placer Dome Asia Pacific*
Green, D.

03_4931

5 cm



LEGEND

Refer to Cethana Sheet Mineral Occurrences (Mt. Read Volcanics Project) by Bamford and Green (1988) for geological legend and index of deposits

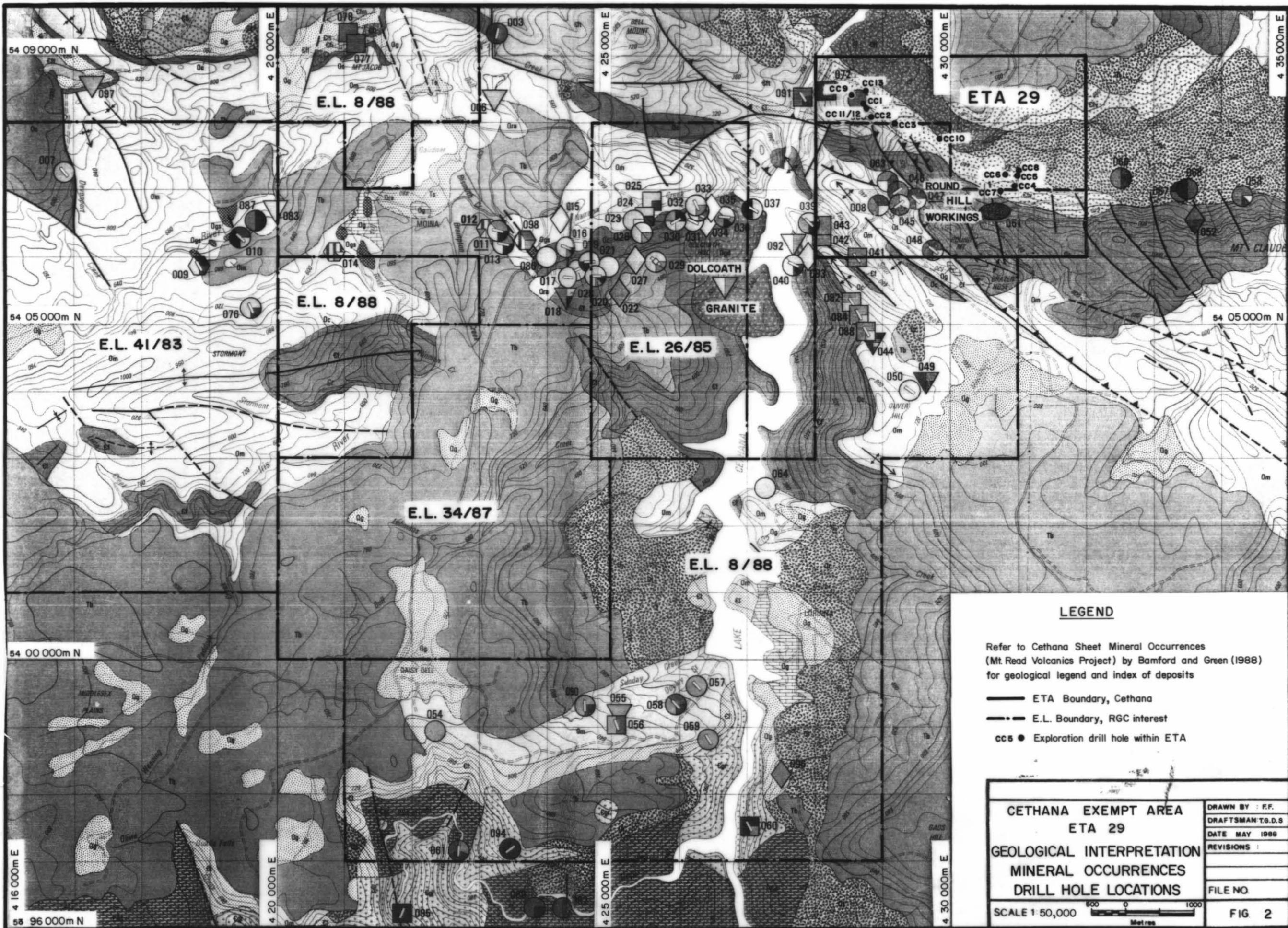
- ETA Boundary, Moina
- - - E.L. Boundary, RGC interest

RGC EXPLORATION PTY. LIMITED
(INC. IN N.S.W.)

| | | |
|--------------------|--------------|--|
| COMPILED | M. J. F. | ETA 58 MOINA EXEMPT AREA GEOLOGICAL INTERP. MINERAL OCCURRENCES |
| DRAWN | | |
| DATE | Dec. '88 | |
| CHECKED | | |
| 1:25,000 Reference | | |
| BASE PLAN No. | SCALE 50,000 | |
| OVERLAY PLAN No. | | |

03 4931

5 cm



LEGEND

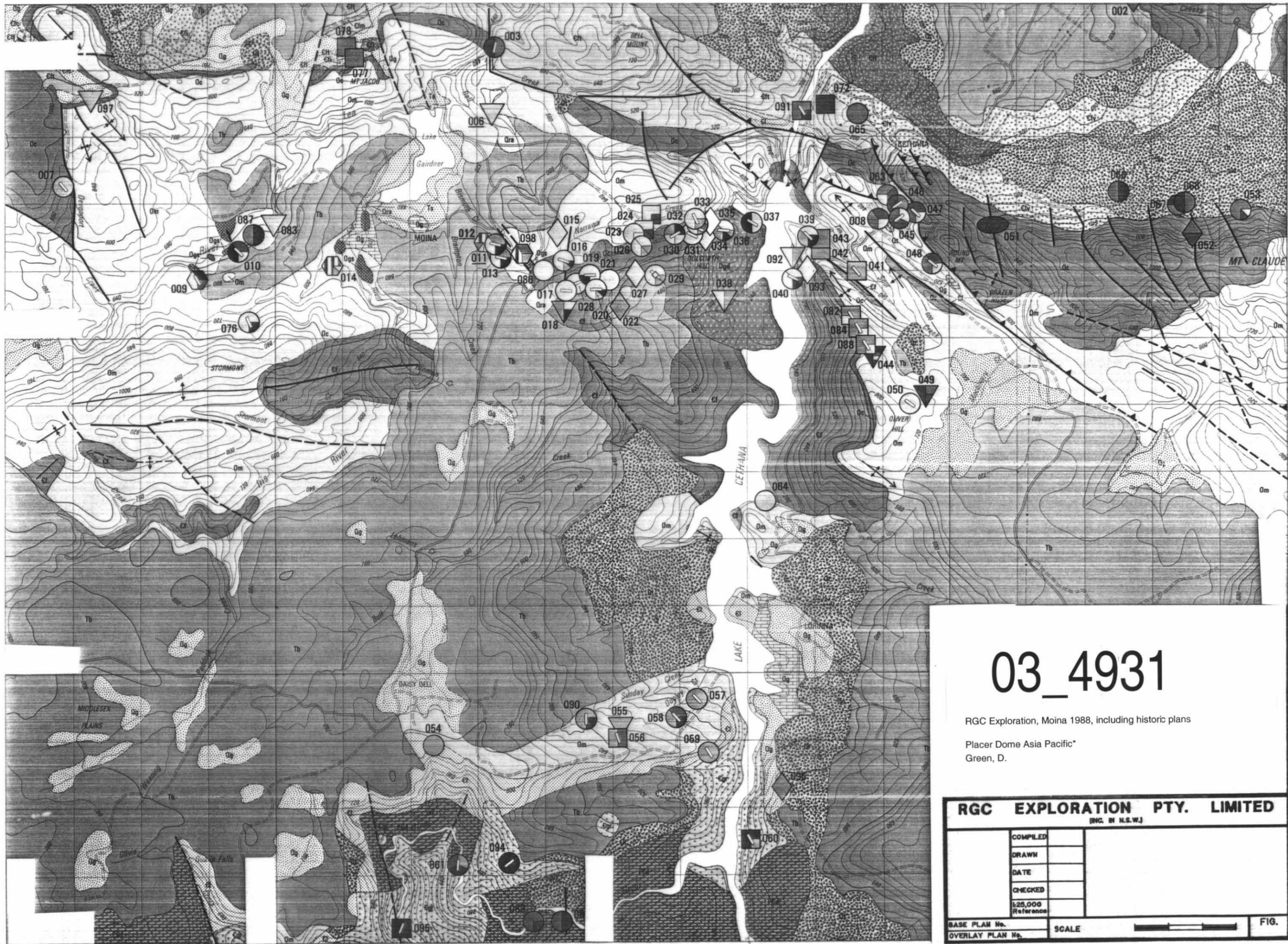
Refer to Cethana Sheet Mineral Occurrences (Mt Read Volcanics Project) by Bamford and Green (1988) for geological legend and index of deposits

- ETA Boundary, Cethana
- - - E.L. Boundary, RGC interest
- cc ● Exploration drill hole within ETA

**CETHANA EXEMPT AREA
ETA 29
GEOLOGICAL INTERPRETATION
MINERAL OCCURRENCES
DRILL HOLE LOCATIONS**

SCALE 1:50,000 METRES

| |
|--------------------|
| DRAWN BY : F.F. |
| DRAFTSMAN: T.G.D.S |
| DATE MAY 1988 |
| REVISIONS : |
| FILE NO. |
| FIG 2 |



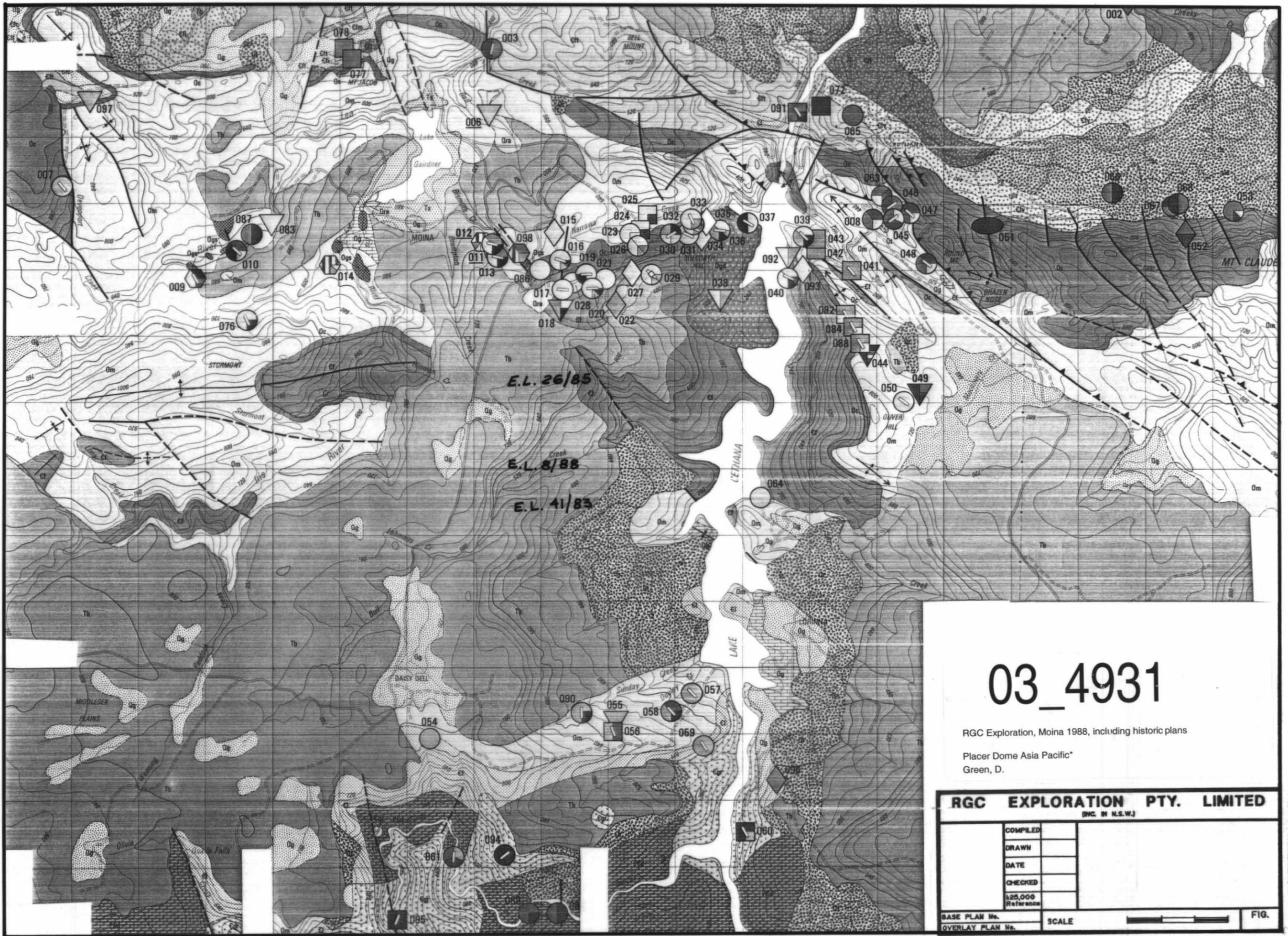
5 cm

03_4931

RGC Exploration, Moina 1988, including historic plans

Placer Dome Asia Pacific*
Green, D.

| RGC EXPLORATION PTY. LIMITED | |
|---------------------------------|-------|
| <small>(INC. IN N.S.W.)</small> | |
| COMPILED | |
| DRAWN | |
| DATE | |
| CHECKED | |
| 1:25,000 Reference | |
| BASE PLAN No. | SCALE |
| OVERLAY PLAN No. | FIG. |

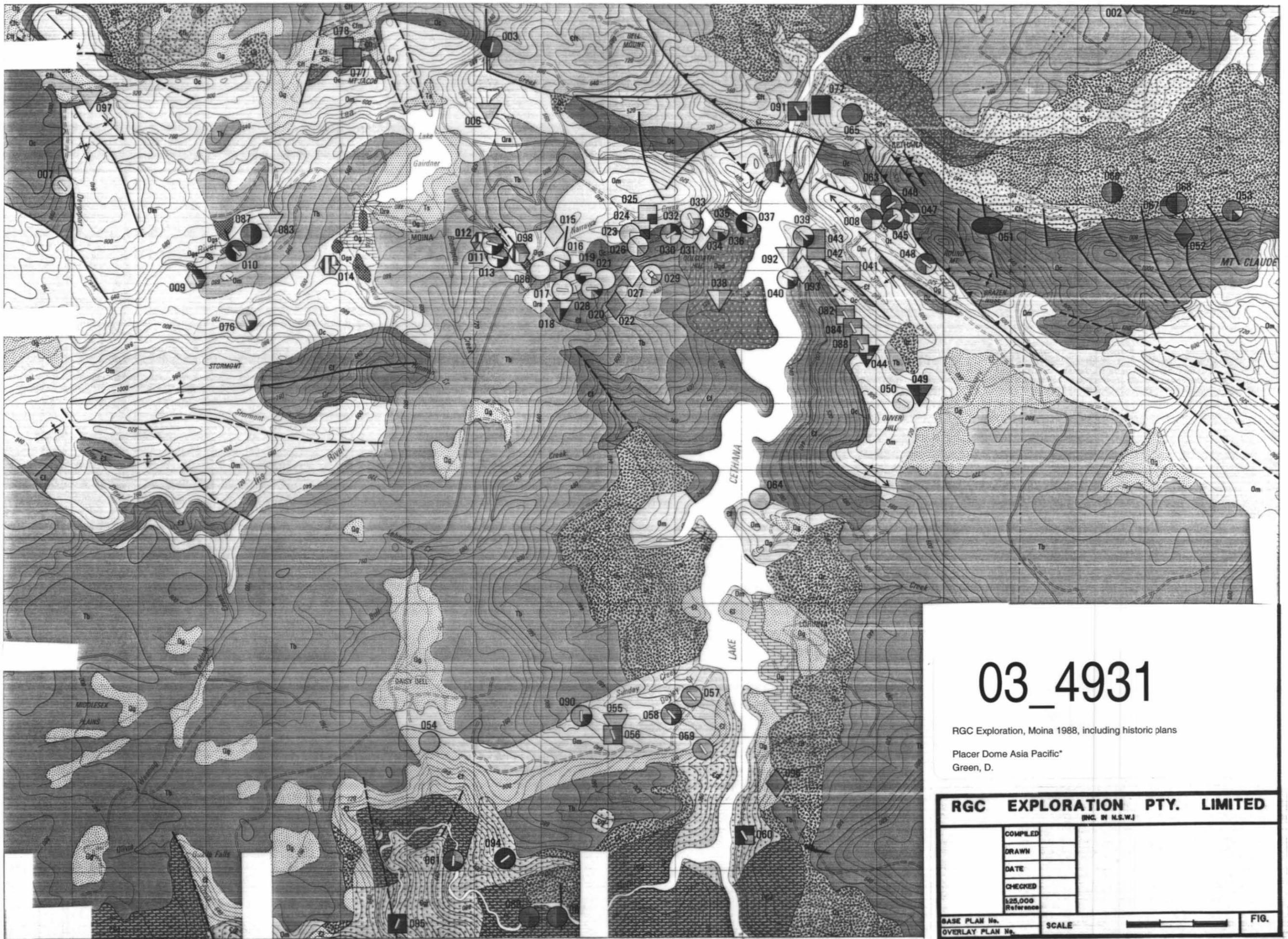


5 cm

03_4931

RGC Exploration, Moina 1988, including historic plans
 Placer Dome Asia Pacific*
 Green, D.

| RGC EXPLORATION PTY. LIMITED | |
|---------------------------------|-------|
| <small>(INC. IN N.S.W.)</small> | |
| COMPILED | |
| DRAWN | |
| DATE | |
| CHECKED | |
| 1:25,000 Reference | |
| BASE PLAN No. | SCALE |
| OVERLAY PLAN No. | FIG. |



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RGC Exploration, Moina 1988, including historic plans

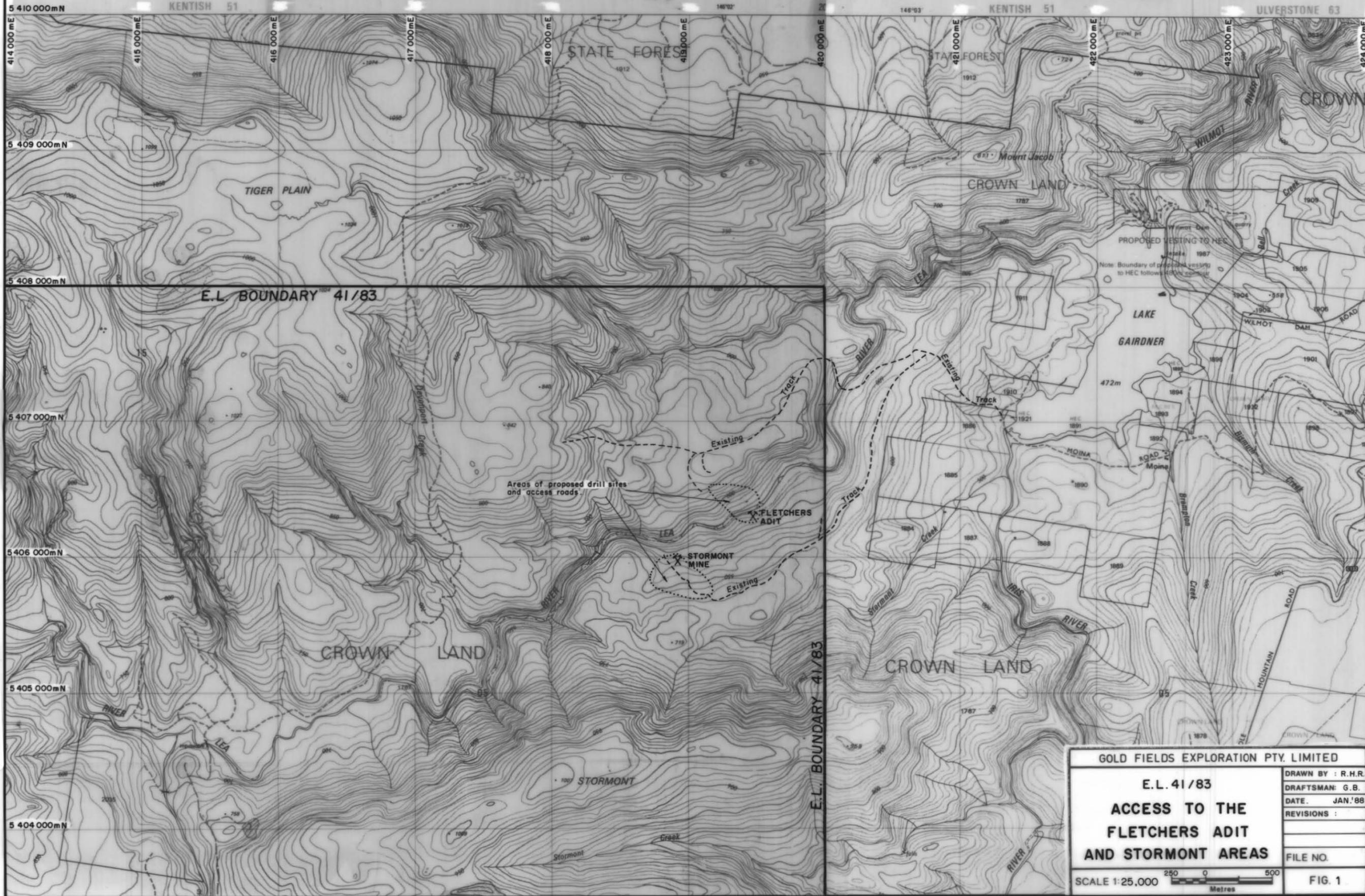
Placer Dome Asia Pacific*
Green, D.

RGC EXPLORATION PTY. LIMITED
(INC. IN N.S.W.)

| | | |
|------------------|-----------------------|------|
| | COMPILED | |
| | DRAWN | |
| | DATE | |
| | CHECKED | |
| | 1:25,000 Reference | |
| BASE PLAN No. | SCALE | FIG. |
| OVERLAY PLAN No. | | |

LEA 1:25,000

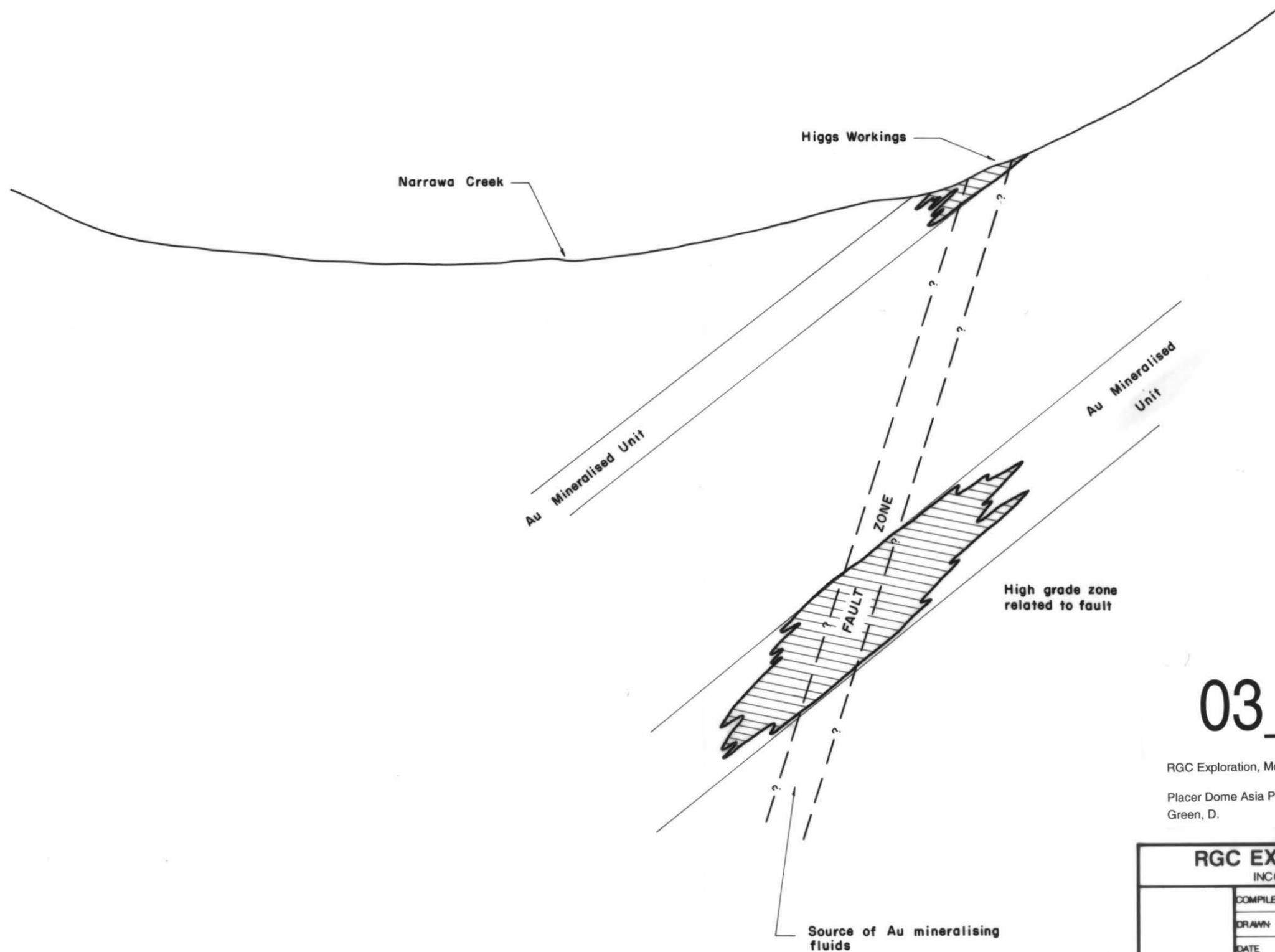
CETHANA 1:25,000



5 cm

| | |
|---|---------------------|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| E.L. 41/83 | |
| ACCESS TO THE FLETCHERS ADIT AND STORMONT AREAS | |
| SCALE 1:25,000 | 250 0 500 Metres |
| DRAWN BY : R.H.R. | DRAFTSMAN : G.B. |
| DATE : JAN '88 | REVISIONS : |
| FILE NO. | FIG. 1 |

03_4931

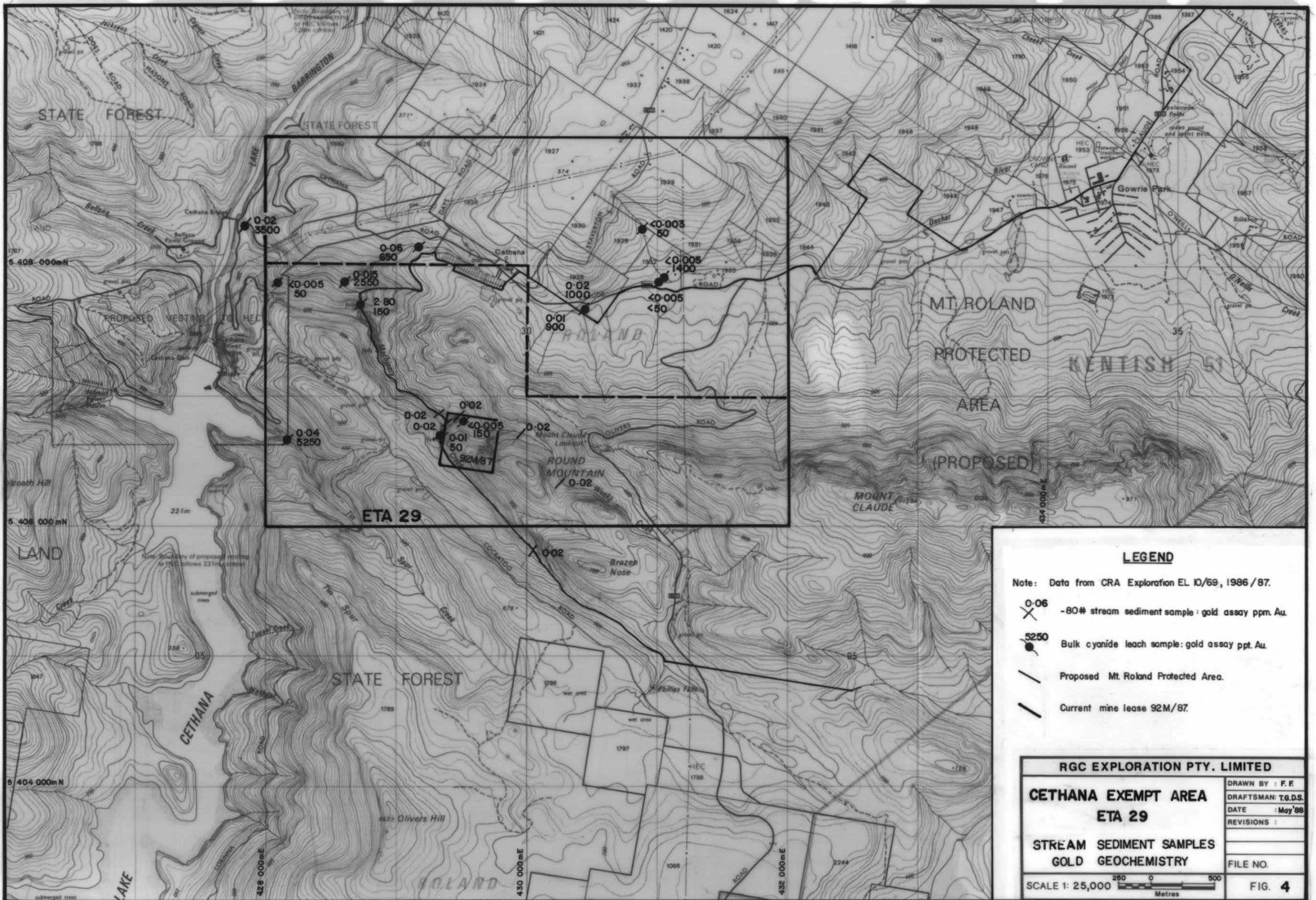


03_4931

RGC Exploration, Moina 1988, including historic plans

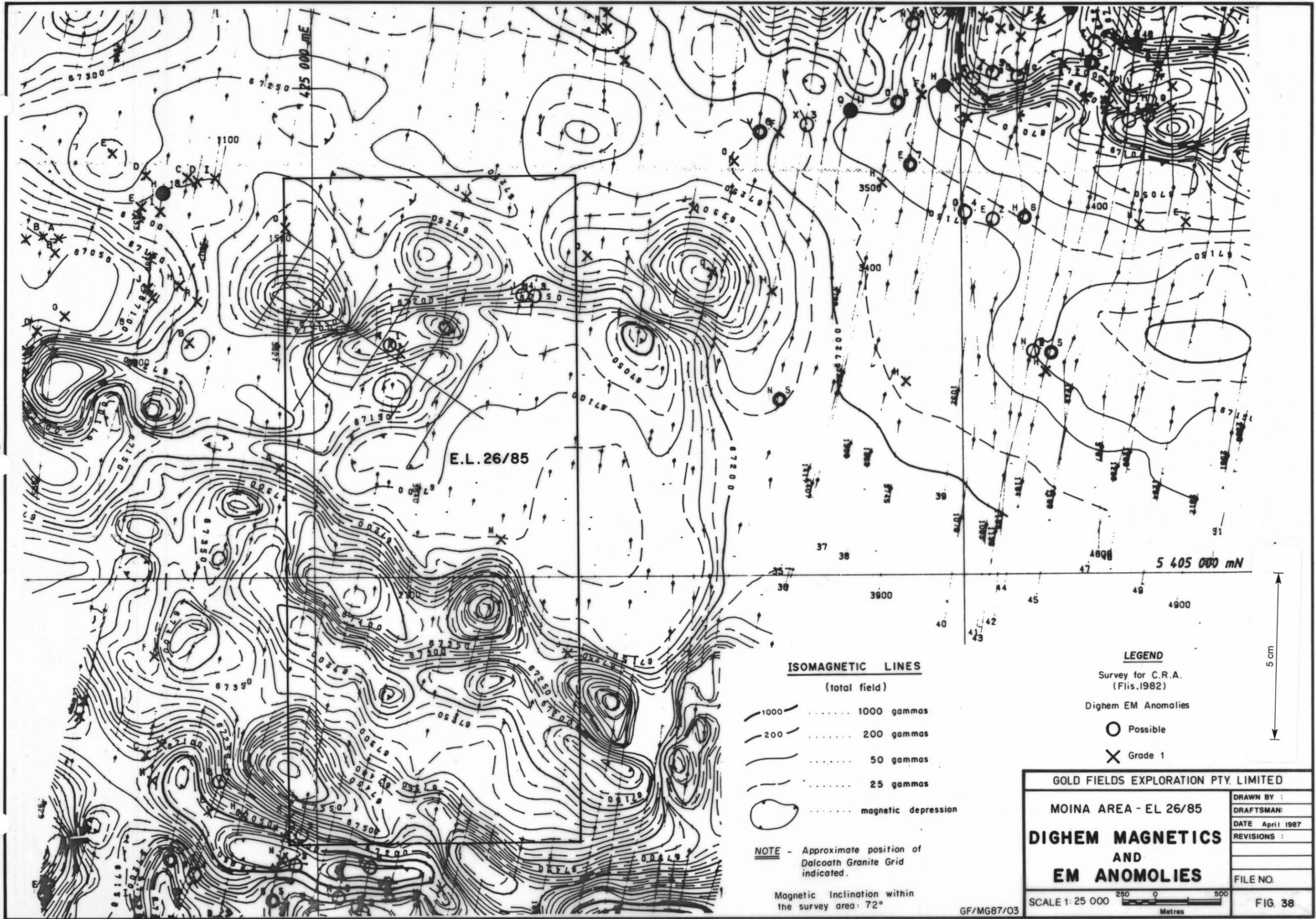
Placer Dome Asia Pacific*
Green, D.

| | | |
|--|--------------|---|
| RGC EXPLORATION PTY. LIMITED INCORPORATED IN NEW SOUTH WALES | | |
| COMPILED | M.J.F. | POSSIBLE FORMATION OF HIGH GRADE AU ZONES RELATED TO STRUCTURE |
| DRAWN | G.B. | |
| DATE | OCT '88 | |
| CHECKED | | |
| 1:250,000 Reference | | |
| BASE PLAN No. | SCALE N.T.S. | FIG. II |
| OVERLAY PLAN No. | | |



5 cm

03_4931



E.L. 26/85

- ISOMAGNETIC LINES**
(total field)
- 1000 1000 gammas
 - 200 200 gammas
 - 50 50 gammas
 - 25 25 gammas
 - magnetic depression

- LEGEND**
- Survey for C.R.A. (Flis.1982)
 - Dighem EM Anomalies
 - Possible
 - × Grade 1

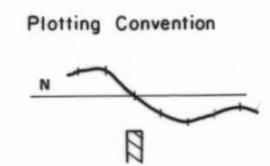
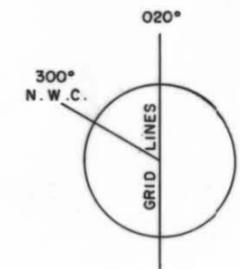
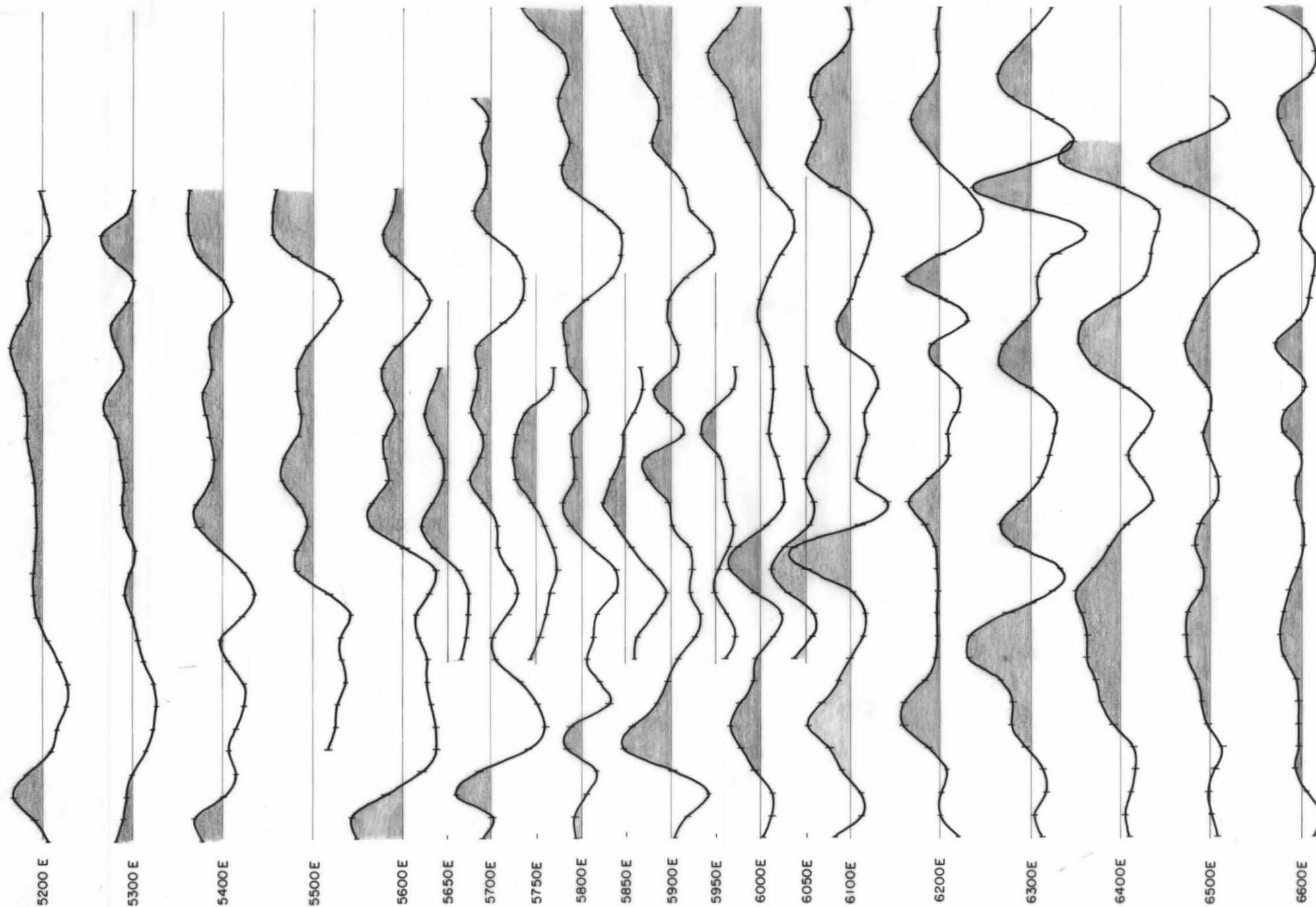
NOTE - Approximate position of Dalcoath Granite Grid indicated.

Magnetic Inclination within the survey area: 72°

| | |
|--|-------------|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| MOINA AREA - EL 26/85 | |
| DIGHEM MAGNETICS AND EM ANOMOLIES | |
| SCALE 1: 25 000 | |
| DRAWN BY : | DRAFTSMAN: |
| DATE April 1987 | REVISIONS : |
| FILE NO. | FIG. 38 |

GF/MG87/03

03_4931



Survey for C.R.A
(Flis. 1982)

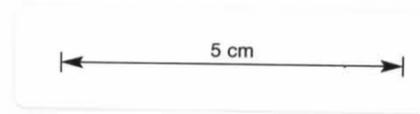
Infill lines : GFEL. 1987

Instrument : Phoenix VLF - 2

Data filtered after Fraser (1969)

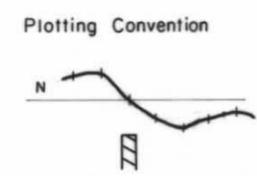
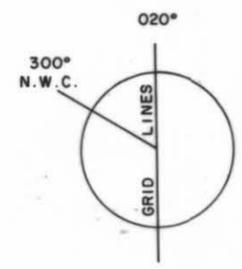
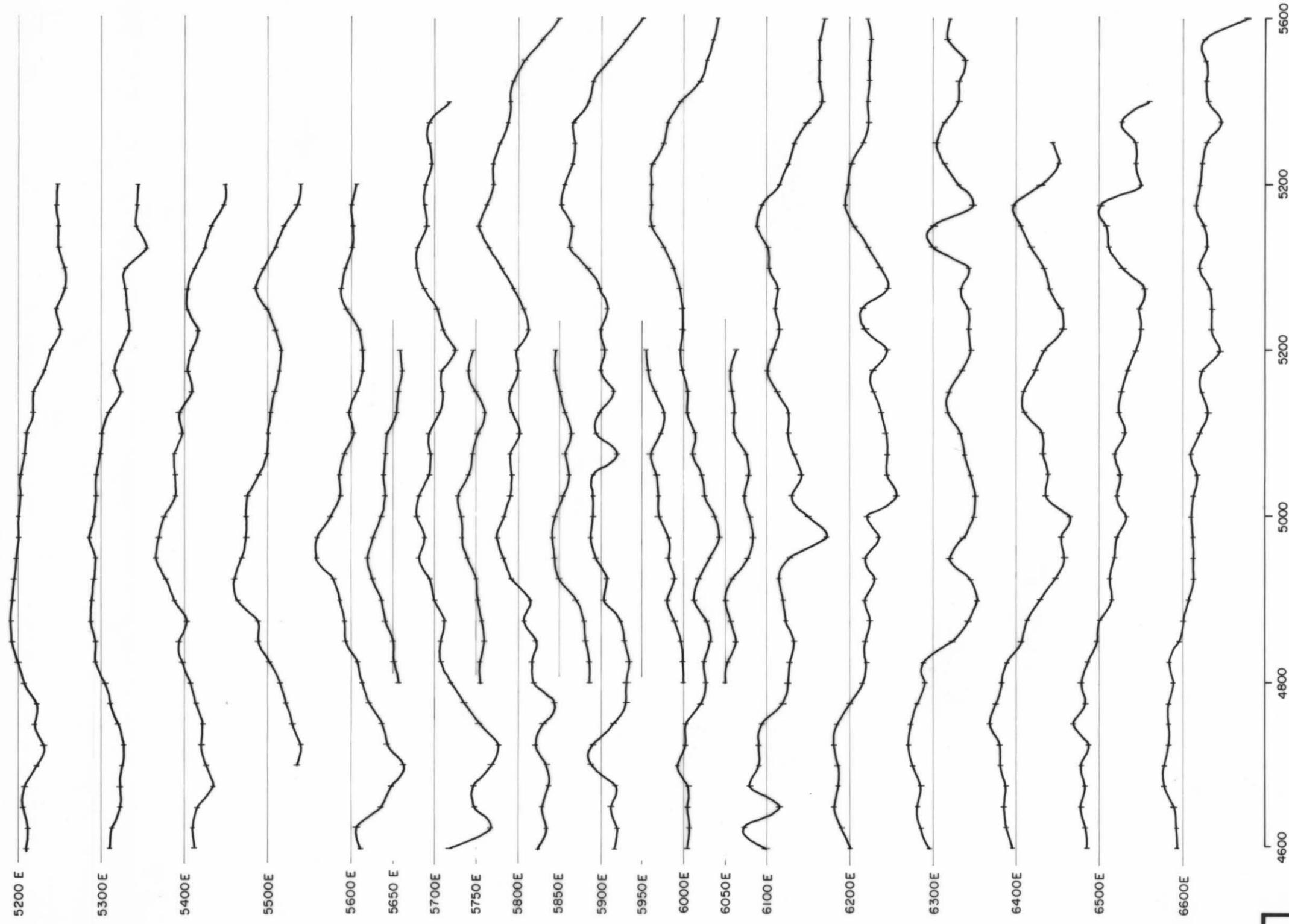
03_4931

RGC Exploration, Moina 1988, including historic plans
Placer Dome Asia Pacific*
Green, D.



Ref: GF/MG87/03

| | |
|--------------------------------------|--------------------|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| MOINA AREA EL 26/85 DALCOATH GRID | DRAWN BY : M.G. |
| FILTERED VLF PROFILES | DRAFTSMAN: |
| | DATE: April 1987 |
| | REVISIONS : |
| FILE NO. | FIG. 44 |
| SCALE 1: 5000 | 50 0 100 Metres |



Survey for C.R.A.
(Flis, 1982)

Infill lines : GFEL, 1987

Instrument : Pheonix VLF-2

5600
5200
5000
4800
4600

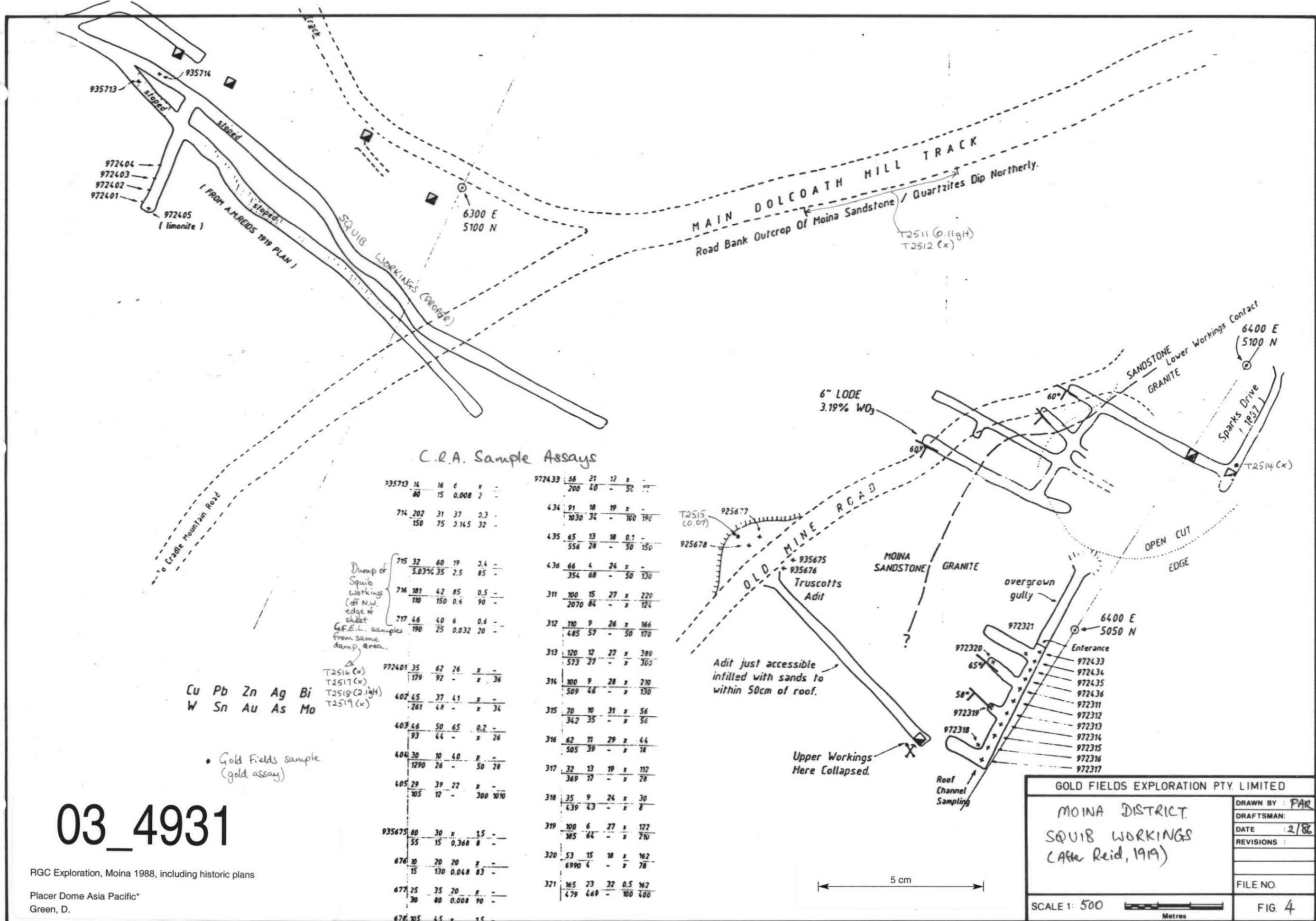
03_4931

RGC Exploration, Moina 1988, including historic plans
Placer Dome Asia Pacific*
Green, D.



Ref: GF/MG87/03

| | |
|--|----------|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| MOINA AREA - EL 26/85 DALCOATH GRID | |
| VLF DIP ANGLE PROFILES | |
| DRAWN BY : M.G. | FILE NO. |
| DRAFTSMAN: | |
| DATE April 1987 | |
| REVISIONS : | |
| SCALE 1: 5000 | |
| | |
| FIG. 43 | |



C.R.A. Sample Assays

| | | | | | | | | | | | |
|--------|-------|-----|-------|-----|------|--------|------|-----|----|-----|-----|
| 935713 | 34 | 16 | 6 | x | - | 972433 | 58 | 21 | 17 | x | - |
| | 80 | 15 | 0.008 | 2 | - | | 200 | 40 | - | 30 | - |
| 714 | 202 | 31 | 37 | 0.3 | - | 434 | 91 | 18 | 19 | x | - |
| | 150 | 75 | 3.145 | 32 | - | | 1030 | 34 | - | 160 | 190 |
| 715 | 32 | 60 | 19 | 3.4 | - | 435 | 65 | 13 | 18 | 0.1 | - |
| | 5.03% | 35 | 2.5 | 85 | - | | 556 | 28 | - | 50 | 150 |
| 716 | 181 | 42 | 85 | 0.5 | - | 436 | 66 | 4 | 24 | x | - |
| | 110 | 150 | 0.6 | 90 | - | | 354 | 68 | - | 50 | 130 |
| 717 | 46 | 40 | 6 | 0.6 | - | 311 | 100 | 15 | 27 | x | 220 |
| | 190 | 25 | 0.032 | 20 | - | | 2070 | 84 | - | x | 124 |
| 72401 | 35 | 62 | 26 | x | - | 312 | 110 | 9 | 26 | x | 166 |
| | 179 | 92 | - | x | 36 | | 485 | 57 | - | 50 | 170 |
| 402 | 45 | 37 | 4.1 | x | - | 313 | 120 | 12 | 27 | x | 380 |
| | 261 | 48 | - | x | 34 | | 573 | 27 | - | x | 360 |
| 403 | 46 | 50 | 65 | 0.2 | - | 314 | 100 | 9 | 28 | x | 210 |
| | 93 | 44 | - | x | 26 | | 509 | 46 | - | x | 130 |
| 404 | 30 | 10 | 4.0 | x | - | 315 | 70 | 10 | 31 | x | 56 |
| | 1290 | 26 | - | 50 | 28 | | 342 | 35 | - | x | 56 |
| 405 | 29 | 39 | 22 | x | - | 316 | 62 | 11 | 29 | x | 44 |
| | 105 | 12 | - | 300 | 1010 | | 505 | 39 | - | x | 18 |
| 935675 | 80 | 30 | x | 1.5 | - | 317 | 32 | 13 | 19 | x | 112 |
| | 55 | 15 | 0.368 | 8 | - | | 369 | 17 | - | x | 28 |
| 676 | 10 | 20 | 20 | x | - | 318 | 35 | 9 | 24 | x | 30 |
| | 15 | 130 | 0.048 | 83 | - | | 439 | 43 | - | x | 8 |
| 677 | 25 | 35 | 20 | x | - | 319 | 100 | 6 | 27 | x | 122 |
| | 30 | 80 | 0.008 | 90 | - | | 185 | 64 | - | x | 210 |
| 678 | 105 | 4.5 | x | 1.5 | - | 320 | 53 | 15 | 18 | x | 162 |
| | 1400 | 10 | 4.95 | 27 | - | | 6990 | 4 | - | x | 28 |
| | | | | | | 321 | 165 | 23 | 32 | 0.5 | 162 |
| | | | | | | | 479 | 469 | - | 100 | 400 |

Dump of Squib workings (off N.W. edge of sheet G.F.E.L. samples from same dump area.)

Cu Pb Zn Ag Bi
W Sn Au As Mo

• Gold Fields sample (gold assay)

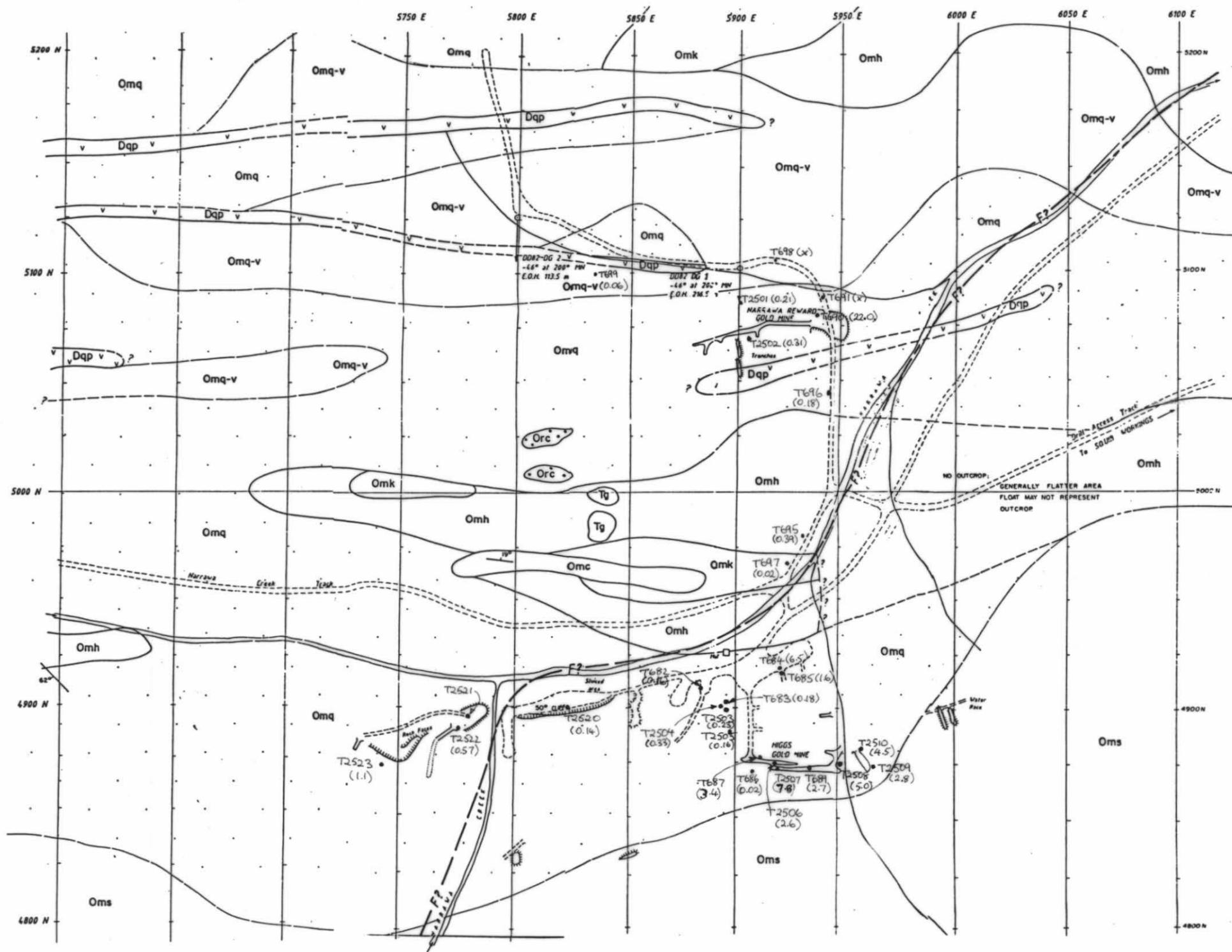
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RGC Exploration, Moina 1988, including historic plans

Placer Dome Asia Pacific*
Green, D.

| | |
|--|------------|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| MOINA DISTRICT SQUIB WORKINGS (After Reid, 1919) | |
| DRAWN BY: PAR | DRAFTSMAN: |
| DATE: 2/88 | REVISIONS: |
| FILE NO. | FIG. 4 |

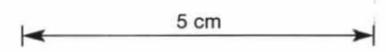
5 cm



LEGEND

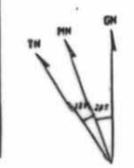
- ORDOVICIAN**
- Orc** Rotund Conglomerate - Clean boulder conglomerate cemented by fine sands. Clasts to 20cm well baked.
 - Oms** Moina Sandstone - Fairly poorly sorted sandstone some zones argillaceous - muddy. Often called Tubular Sandstone due to presence of worm casts - Pyritic.
 - Omq** Moina Quartzite - Metamorphosed to quartzite generally well baked - better jointed, flatter harder, not so leached.
 - Omq-v** Quartzites - Heavily veined and fractured
 - Omc** Thin silt - siltstone some finely banded toward along strike and sharp.
 - Omk** Shale - dark green banded heterobasite, actinolite diopside skarns banded, often contain significant phyllosite & magnetite.
 - Omh** Hornfels - Dark gray - dense well baked quartzite.
- DEVONIAN**
- Dqp** Quartz - porphyry dykes, often slightly granulated - tourmalinized.
- TERTIARY**
- Tg** Gray silt - ferruginized/silicified cemented gravel, often form outcrops.

G.F.E.L.
Rock Chip
Gold Assay Results
• Sample No. (gold assay)



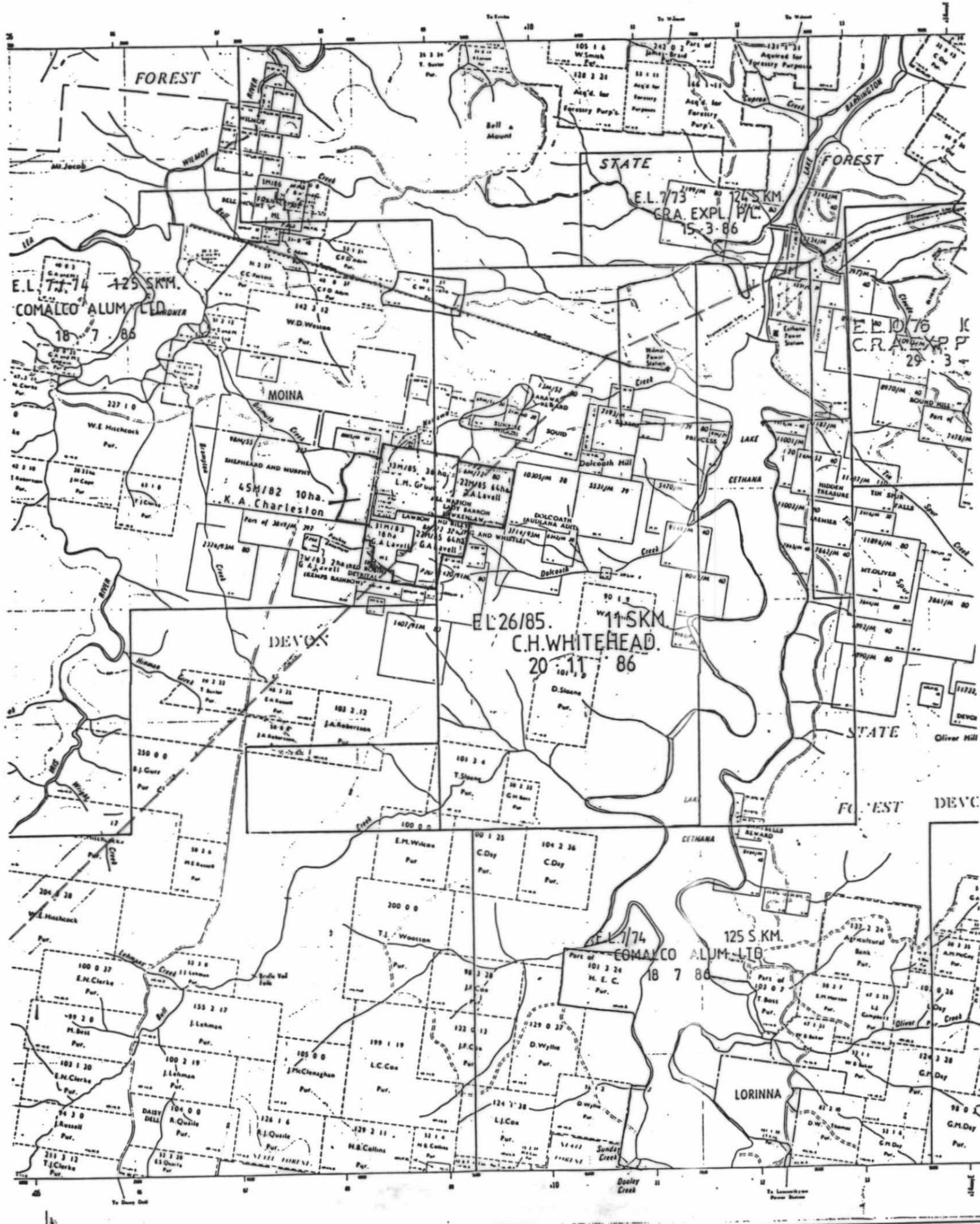
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RGC Exploration, Moina 1988, including historic plans
Placer Dome Asia Pacific*
Green, D.



Note: geology by C.R.A.E.

| | |
|---|----------------|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| NARRAWA REWARD GROUP OF WORKINGS - MOINA INTERPRETIVE GEOLOGY & GOLD ASSAY RESULTS | DRAWN BY : PAR |
| | DRAFTSMAN : |
| | DATE : |
| | REVISIONS : |
| SCALE 1:2000 | FILE NO. |
| Metres | FIG. 3 |



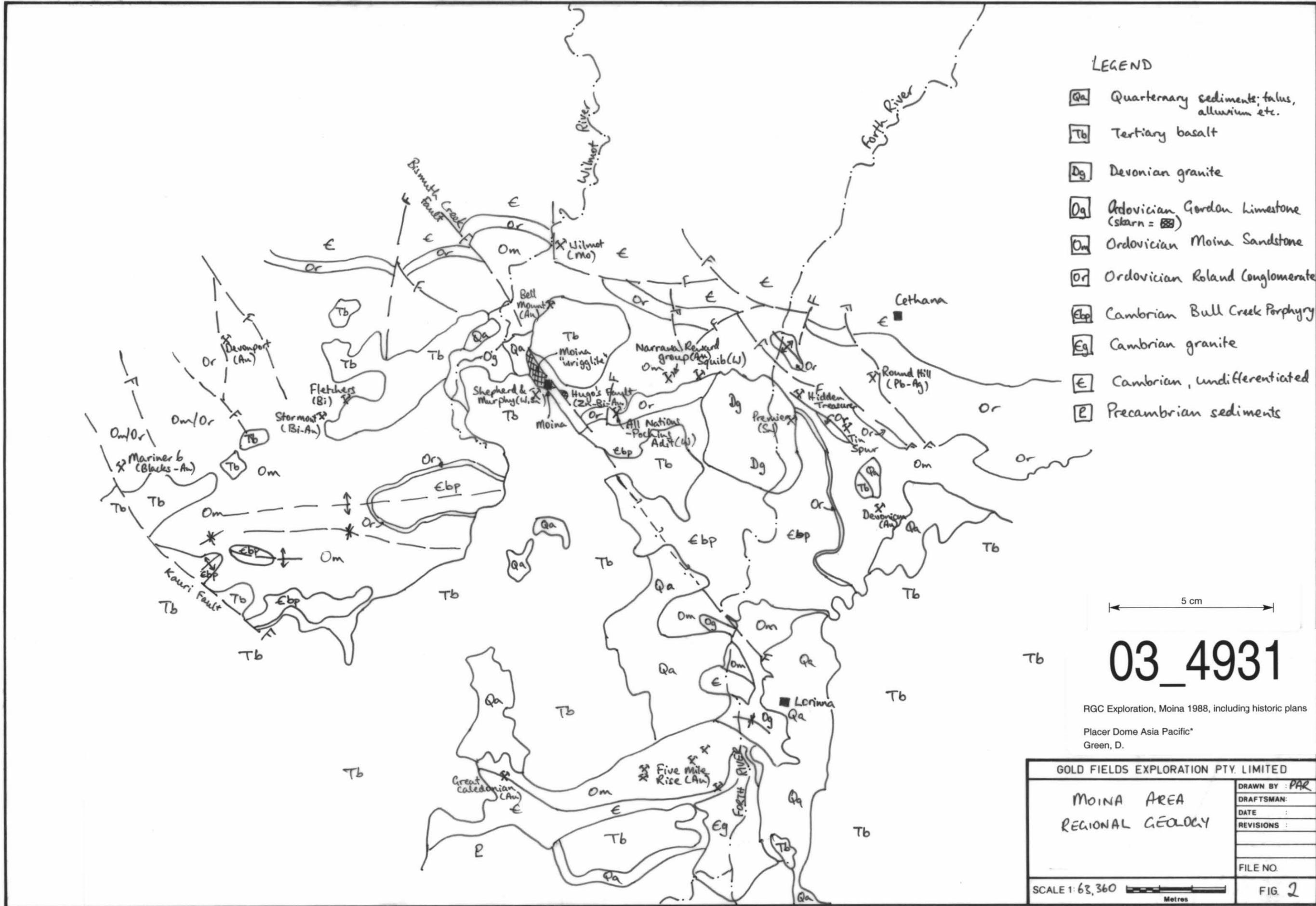
-  CURRENT MINERAL LEASES
-  HEC VESTED LAND
-  EL BOUNDARIES
-  HEC TUNNEL
-  HEC TRANSMISSION LINE
-  AREA OF SAMPLING, NARRAWA CREEK

5 cm

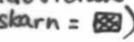
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RGC Exploration, Moina 1988, including historic plans
 Placer Dome Asia Pacific*
 Green, D.

| | |
|---|------------------|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| LAND TENURE MOINA AREA | DRAWN BY : AC/PC |
| | DRAFTSMAN : |
| | DATE : 14/2/88 |
| | REVISIONS : |
| | FILE NO. |
| SCALE 1:40,000  Metres | |
| FIG. 5 | |



LEGEND

- Qa Quaternary sediments: talus, alluvium etc.
- Tb Tertiary basalt
- Dg Devonian granite
- Og Ordovician Gordon Limestone (starn = )
- Om Ordovician Moina Sandstone
- Or Ordovician Roland Conglomerate
- Ebp Cambrian Bull Creek Porphyry
- Eg Cambrian granite
- E Cambrian, undifferentiated
- P Precambrian sediments

5 cm

03_4931

RGC Exploration, Moina 1988, including historic plans

Placer Dome Asia Pacific*
Green, D.

| | |
|--|----------------|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| MOINA AREA REGIONAL GEOLOGY | DRAWN BY : PAR |
| | DRAFTSMAN : |
| | DATE : |
| | REVISIONS : |
| | FILE NO. |
| SCALE 1:63,360  | FIG. 2 |

410 000mE

420 000mE

GOLD FIELDS EXPLORATION PTY. LIMITED

FORMER E.L. 8/77
GEOLOGICAL INTERPRETATION AND PROSPECT LOCATIONS

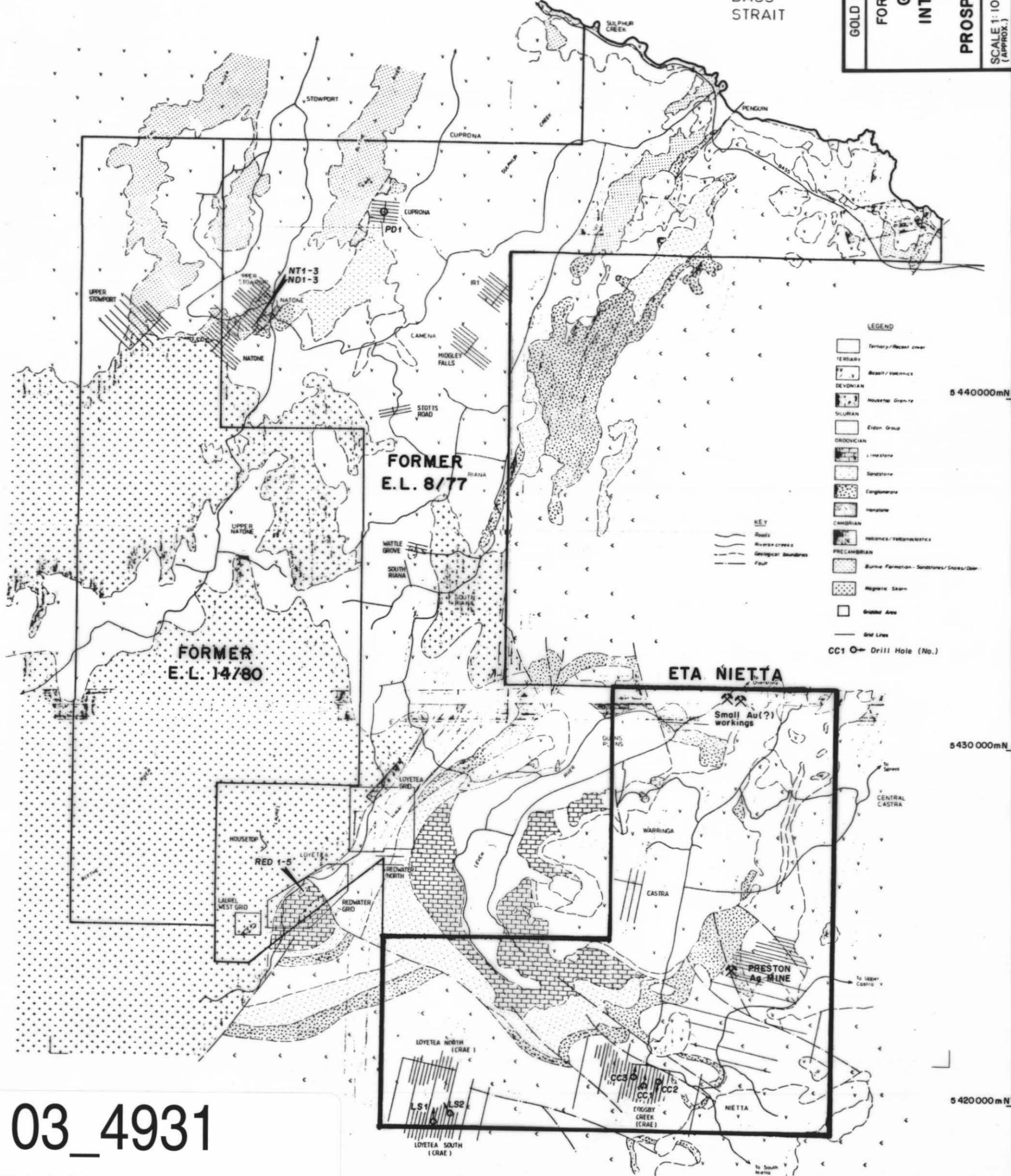
DRAWN BY : F.G.F.
 DRAFTSMAN:
 DATE SEPT. '87
 REVISIONS :
 FILE NO.
 FIG.

SCALE 1:100,000 (APPROX.)

0 1 2 Kilometres



BASS STRAIT



LEGEND

- Tertiary/Recent cover
- TERTIARY**
- Basalt / Volcanics
- DEVONIAN**
- Housetop Granite
- SILURIAN**
- Eton Group
- ORDOVICIAN**
- Limestone
- Sandstone
- Conglomerate
- Marble
- CAMBRIAN**
- Wollan / Wollanite
- PRECAMBRIAN**
- Burnie Formation - Sandstones / Shales / Gneiss
- Migmatic Schist
- Grabber Area
- Grid Lines
- CC1 Drill Hole (No.)

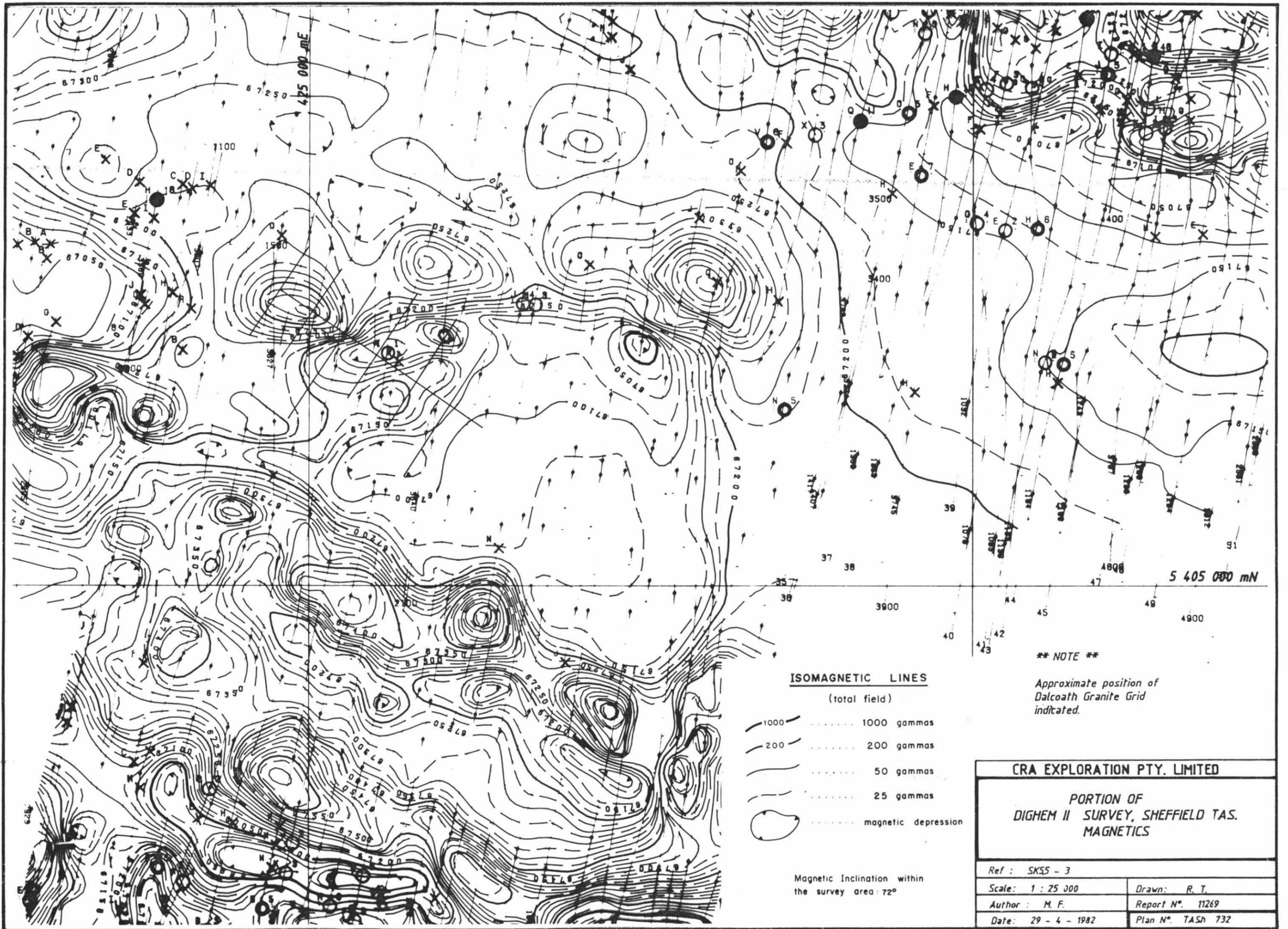
KEY

- Roads
- Reverse creeks
- Geological boundaries
- Fault

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RGC Exploration, Moina 1988, including historic plans
 Placer Dome Asia Pacific*
 Green, D.

5 cm



ISOMAGNETIC LINES
(total field)

- 1000 1000 gammas
- 200 200 gammas
- 50 50 gammas
- 25 25 gammas
- magnetic depression

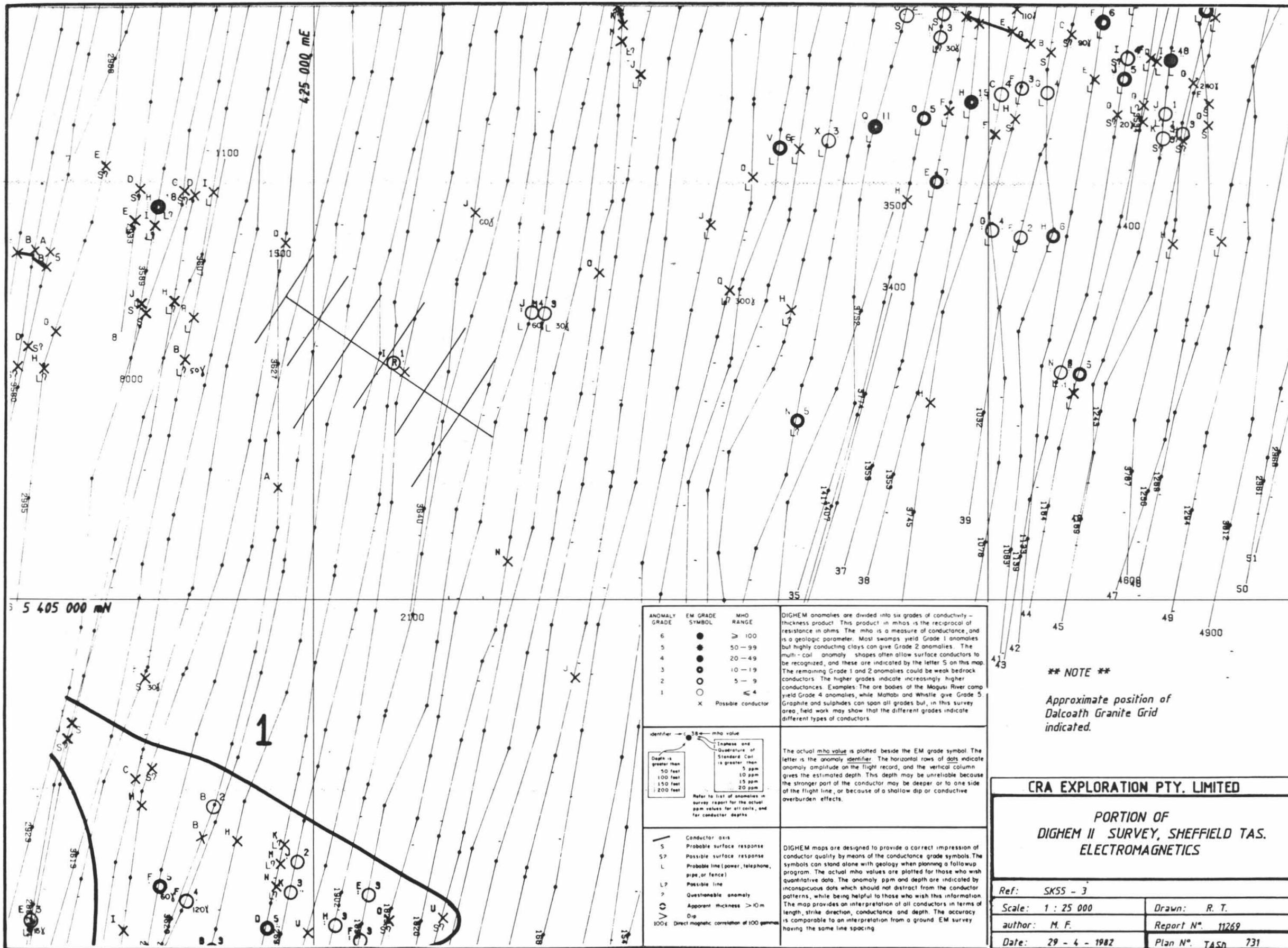
**** NOTE ****
Approximate position of Dalcoath Granite Grid indicated.

Magnetic Inclination within the survey area: 72°

| | |
|--|-------------------|
| CRA EXPLORATION PTY. LIMITED | |
| PORTION OF DIGHEM II SURVEY, SHEFFIELD TAS. MAGNETICS | |
| Ref : SK55 - 3 | |
| Scale : 1 : 25 000 | Drawn : R. T. |
| Author : M. F. | Report N°. 11269 |
| Date : 29 - 4 - 1982 | Plan N°. TASH 732 |

03_4931

5 cm



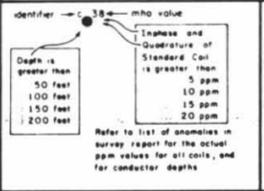
5 cm

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Placer Dome Asia Pacific

| ANOMALY GRADE | EM GRADE SYMBOL | MHO RANGE |
|---------------|-----------------|--------------------|
| 6 | ● | > 100 |
| 5 | ● | 50-99 |
| 4 | ● | 20-49 |
| 3 | ● | 10-19 |
| 2 | ○ | 5-9 |
| 1 | ○ | < 4 |
| | X | Possible conductor |

DIGHEM anomalies are divided into six grades of conductivity - thickness product. This product in mhos is the reciprocal of resistance in ohms. The mho is a measure of conductance, and is a geologic parameter. Most swamps yield Grade 1 anomalies but highly conducting clays can give Grade 2 anomalies. The multi-coal anomaly shapes often allow surface conductors to be recognized, and these are indicated by the letter S on this map. The remaining Grade 1 and 2 anomalies could be weak bedrock conductors. The higher grades indicate increasingly higher conductances. Examples: The ore bodies of the Maguys River camp yield Grade 4 anomalies, while Matabi and Whistle give Grade 5. Graphite and sulphides can span all grades but, in this survey area, field work may show that the different grades indicate different types of conductors.



The actual mho value is plotted beside the EM grade symbol. The letter is the anomaly identifier. The horizontal rows of dots indicate anomaly amplitude on the flight record, and the vertical column gives the estimated depth. This depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or conductive overburden effects.

- S Conductor axis
- S? Probable surface response
- S? Possible surface response
- L Probable line (power, telephone, pipe, or fence)
- L? Possible line
- ? Questionable anomaly
- ∞ Apparent thickness > 10 m
- Dip
- 100% Direct magnetic correlation of 100 gamma

DIGHEM maps are designed to provide a correct impression of conductor quality by means of the conductance grade symbols. The symbols can stand alone with geology when planning a follow-up program. The actual mho values are plotted for those who wish quantitative data. The anomaly ppm and depth are indicated by inconspicuous dots which should not distract from the conductor patterns, while being helpful to those who wish this information. The map provides an interpretation of all conductors in terms of length, strike direction, conductance and depth. The accuracy is comparable to an interpretation from a ground EM survey having the same line spacing.

**** NOTE ****

Approximate position of Dalcoath Granite Grid indicated.

CRA EXPLORATION PTY. LIMITED

PORTION OF
DIGHEM II SURVEY, SHEFFIELD TAS.
ELECTROMAGNETICS

Ref: SK55 - 3

Scale: 1 : 25 000

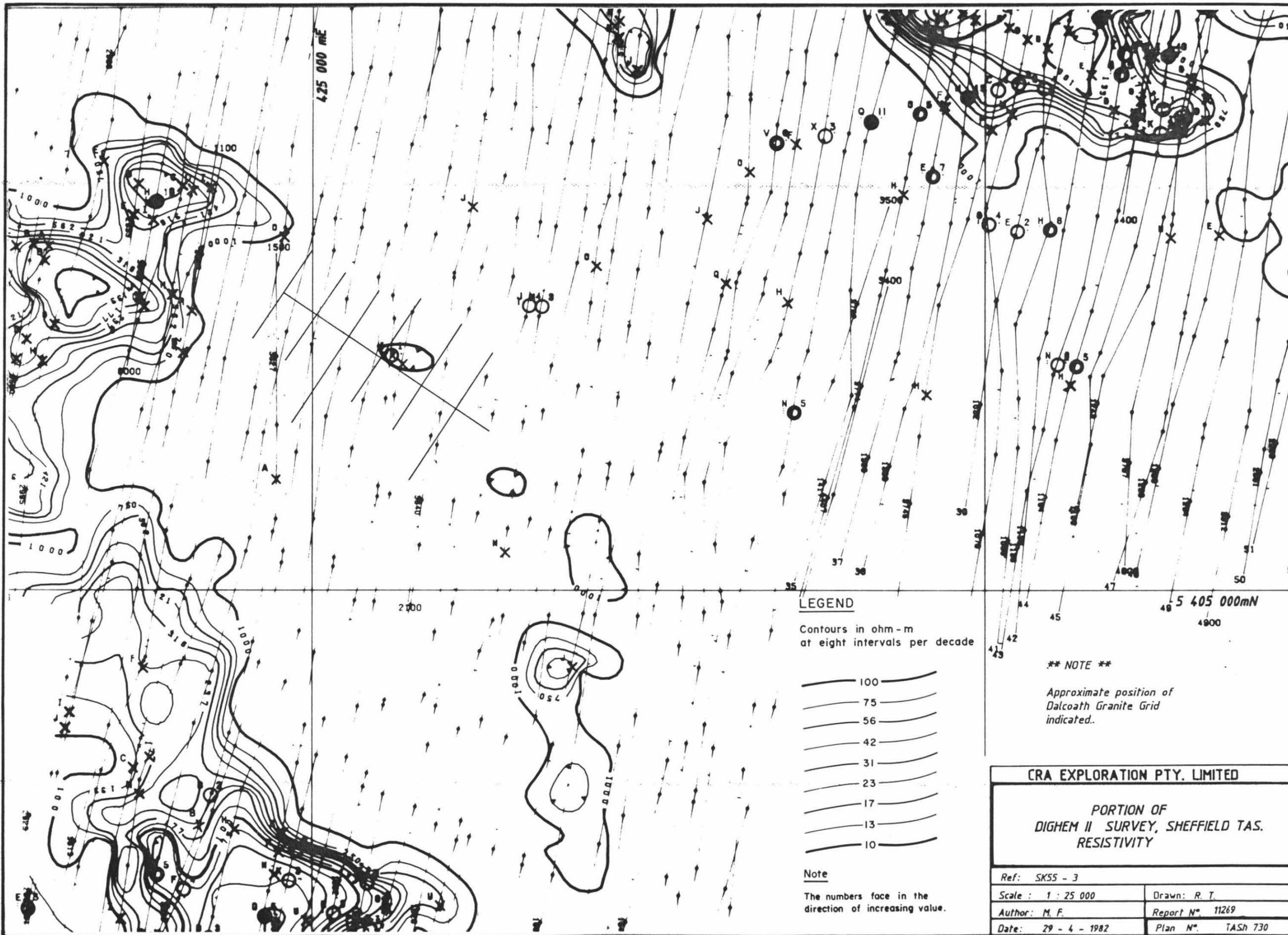
Drawn: R. T.

author: M. F.

Report N°. 11269

Date: 29 - 4 - 1982

Plan N°. TASH 731



5 cm

LEGEND

Contours in ohm-m
at eight intervals per decade

- 100 —
- 75 —
- 56 —
- 42 —
- 31 —
- 23 —
- 17 —
- 13 —
- 10 —

Note
The numbers face in the
direction of increasing value.

**** NOTE ****

Approximate position of
Dalcoath Granite Grid
indicated.

| | |
|--|--------------------------------|
| CRA EXPLORATION PTY. LIMITED | |
| PORTION OF DIGHEM II SURVEY, SHEFFIELD TAS. RESISTIVITY | |
| Ref: SK55 - 3 | |
| Scale : 1 : 25 000 | Drawn: R. T. |
| Author: M. F. | Report N ^o . 11269 |
| Date: 29 - 4 - 1982 | Plan N ^o . TASH 730 |

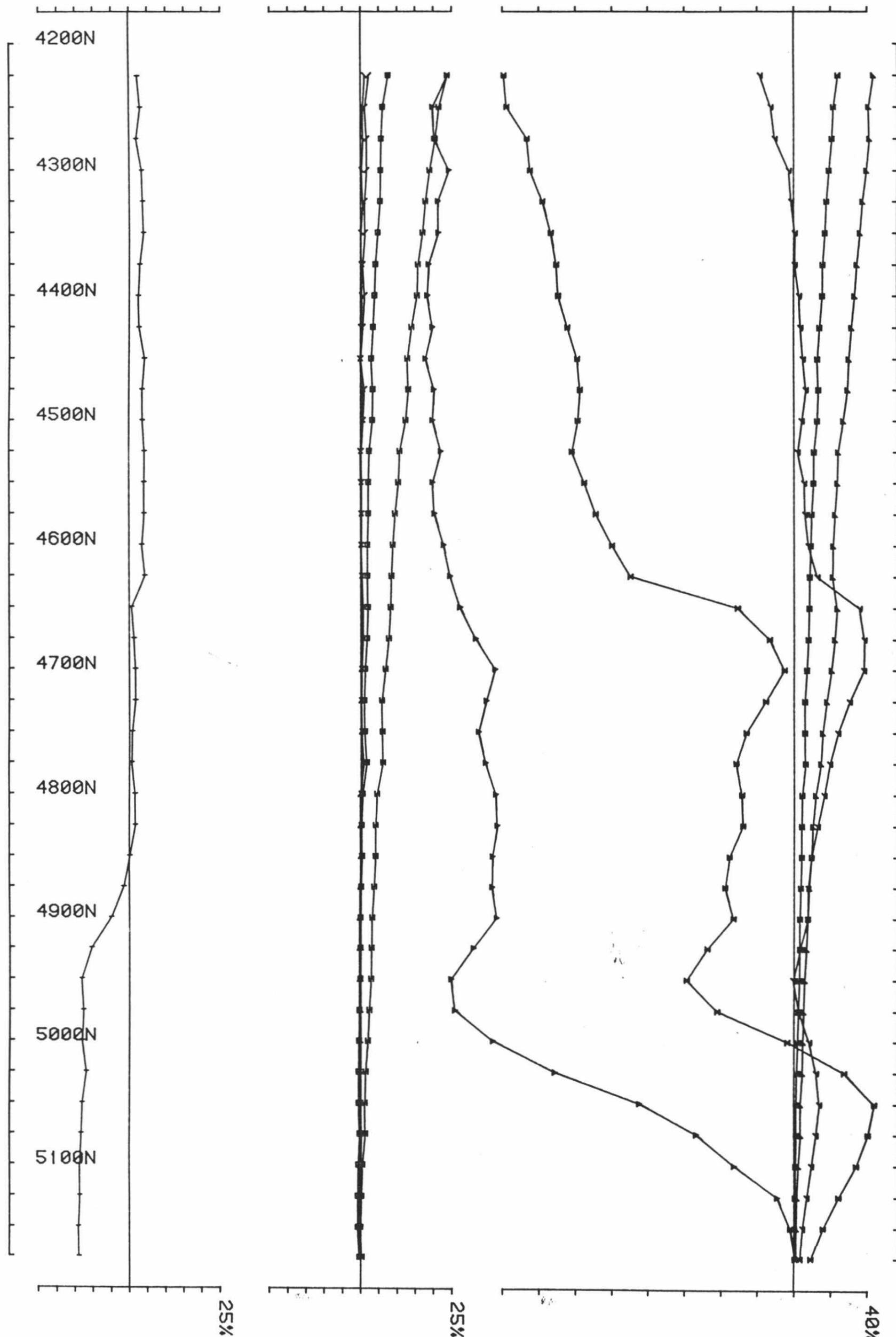
03_4931

03_4931

Draughting Room Copy

TASH 759

5 cm



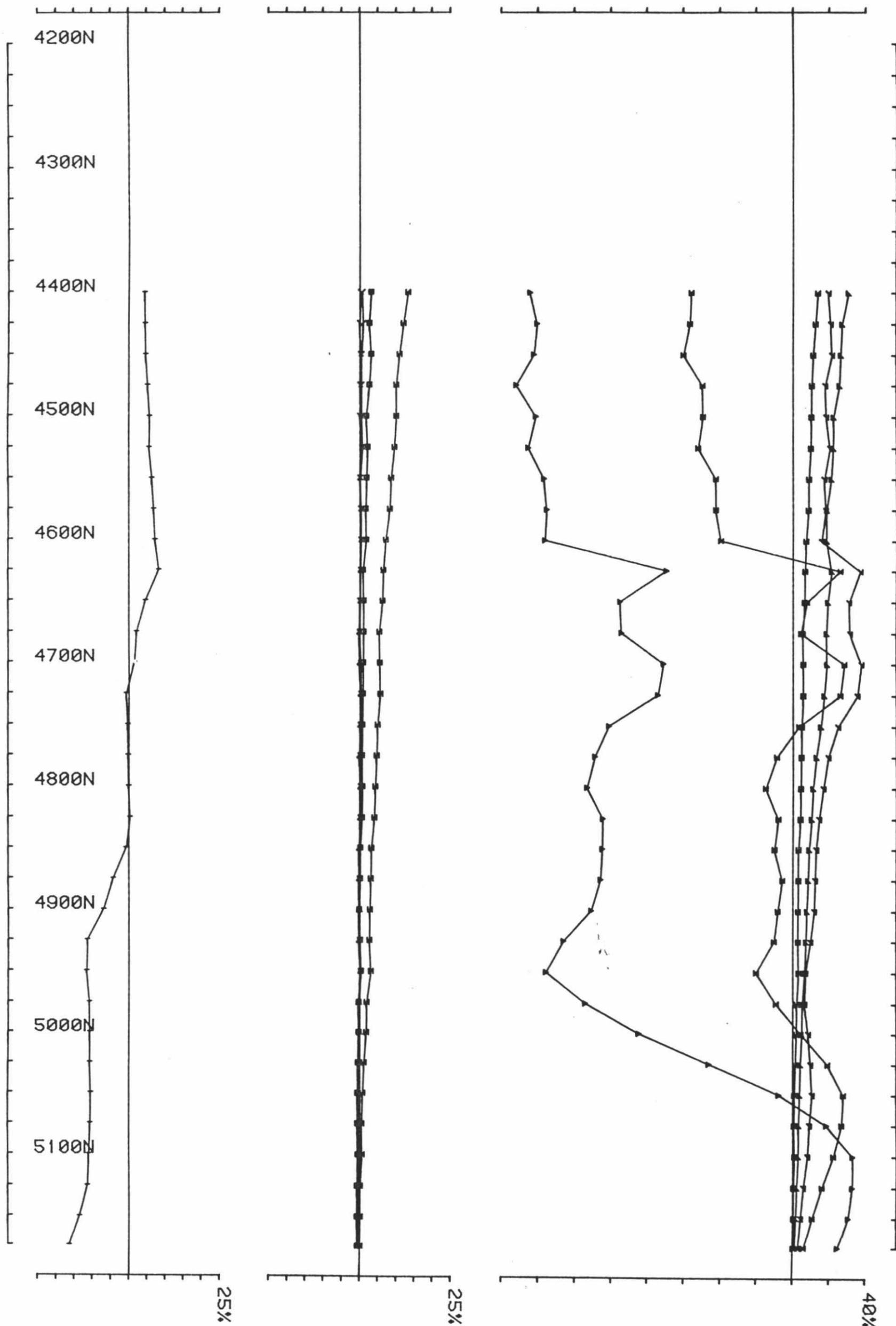
Area DOLCOATH GRANITE AREA SHEFFIELD TASMANIA CRA Job 007001 freq(hz) 26.20
 Loopno 0711 Line 5600E component Hz secondary Ch 1

03_4931

Draughting Room Copy

ASH 258

5 cm



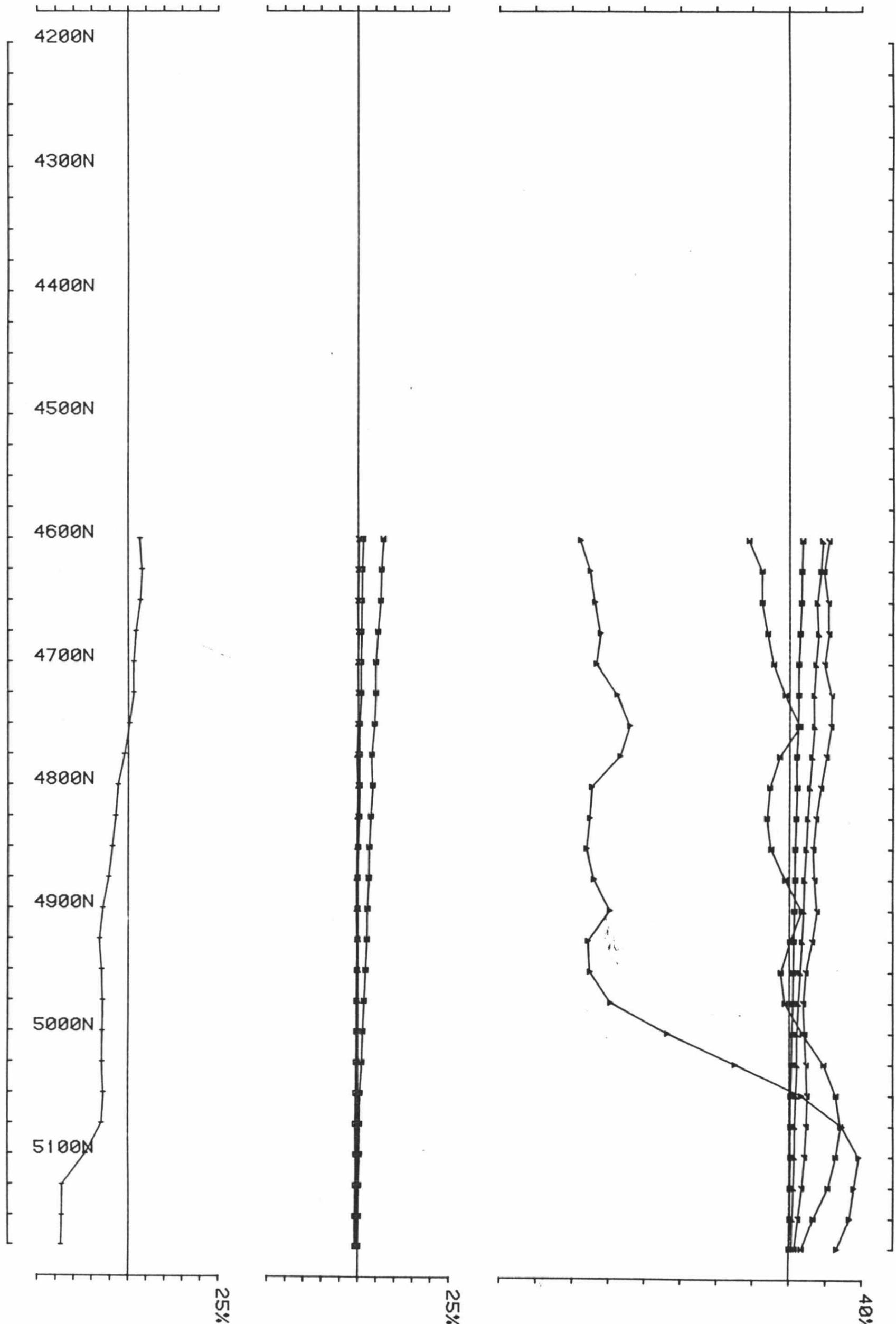
Area DOLCOATH GRANITE AREA SHEFFIELD TASMANIA CRA Job 007001 freq(hz) 26.20
Loopno 0711 Line 5700E component Hz secondary Ch 1

03_4931

Draughting Room Copy

TASK 757

5 cm



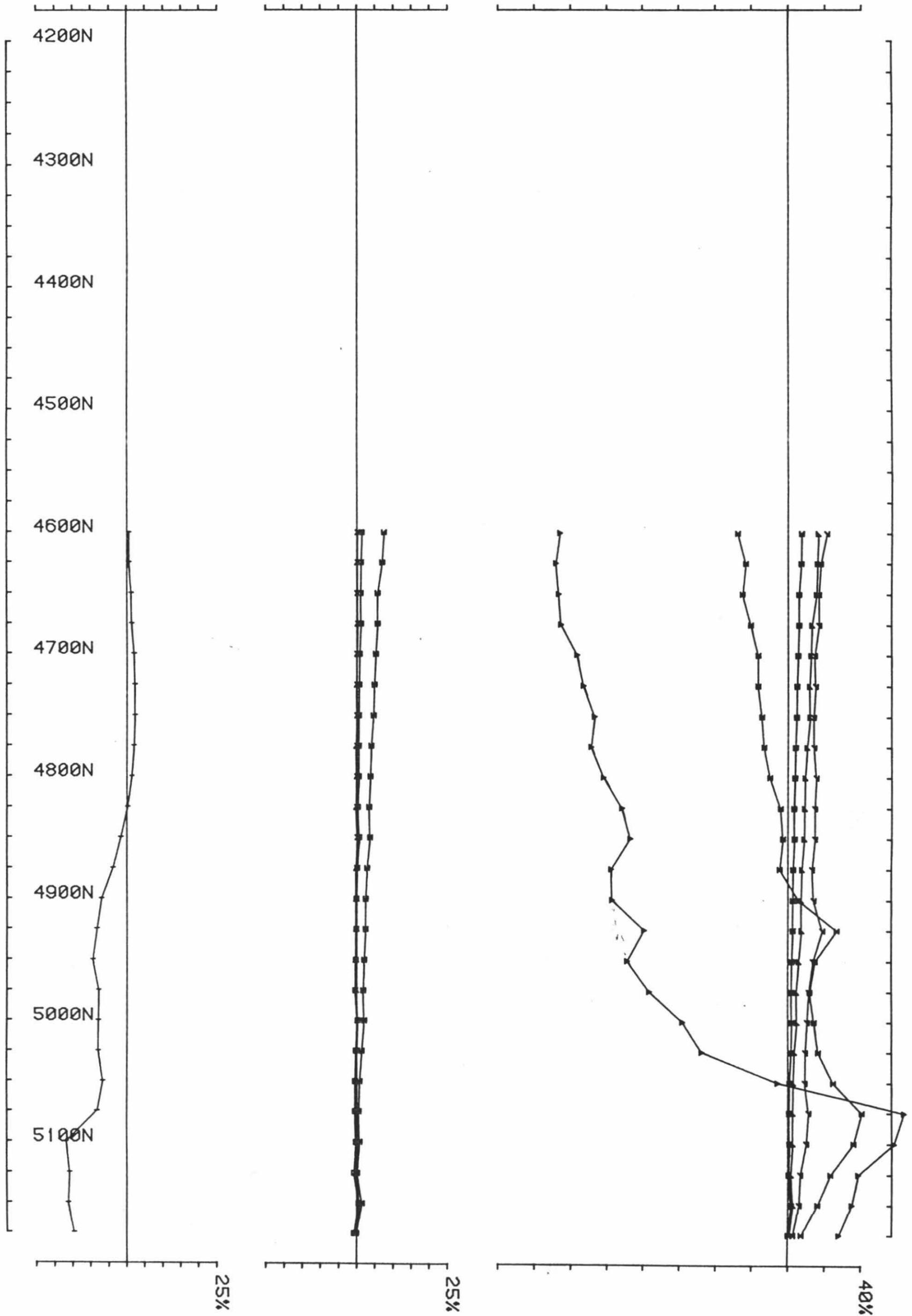
Area DOLCOATH GRANITE AREA SHEFFIELD TASMANIA CRA Job 007001 freq(hz) 26.20
Loopno 0711 Line 5800E component Hz secondary Ch 1

03_4931

Draughting Room Copy

TASH 756

5 cm



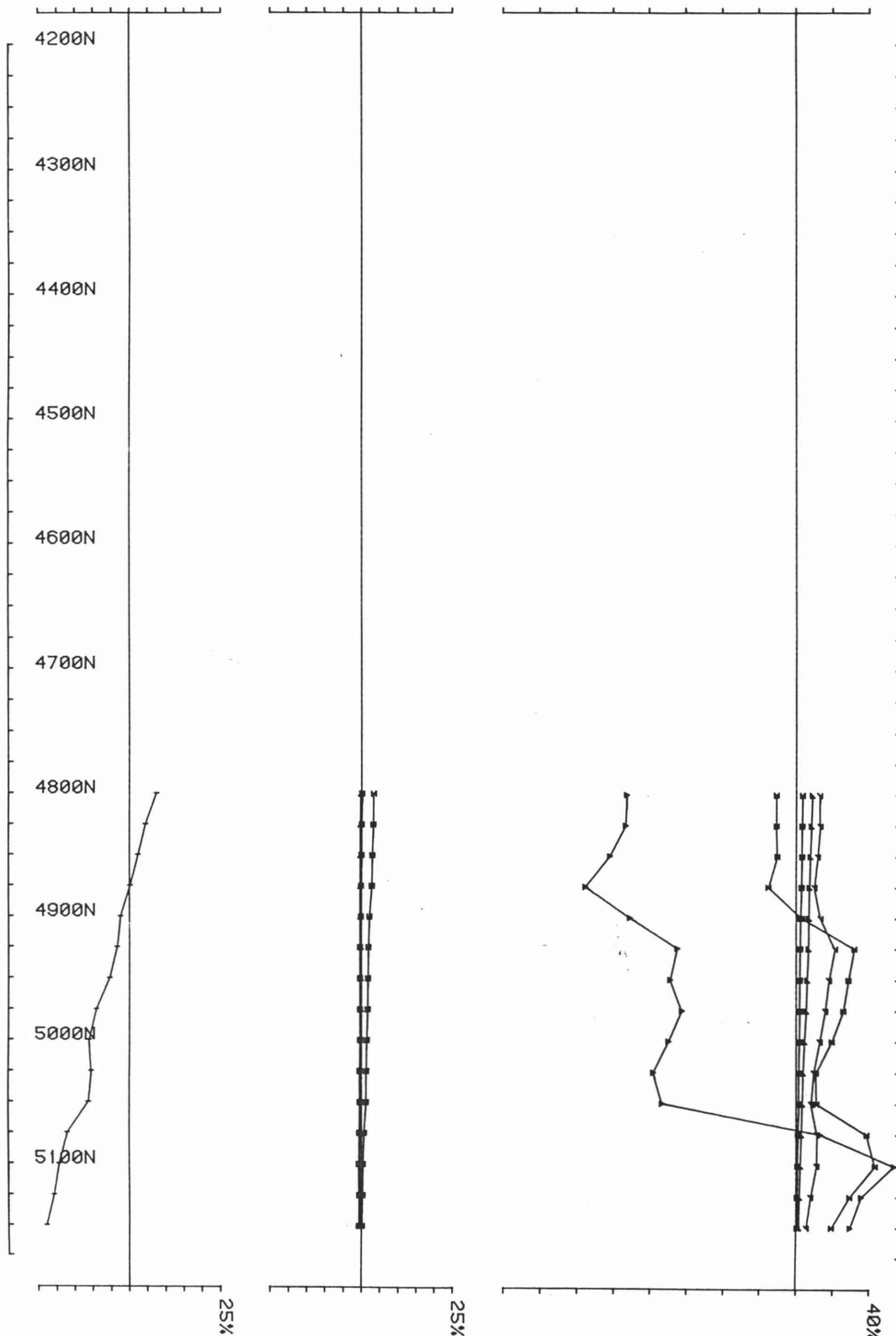
Area DOLCOATH GRANITE AREA SHEFFIELD TASMANIA CRA Job 007001 freq(hz) 26.20
Loopno 0711 Line 5900E component Hz secondary Ch 1

03-4931

Draughting Room Log

TASK 755

5 cm



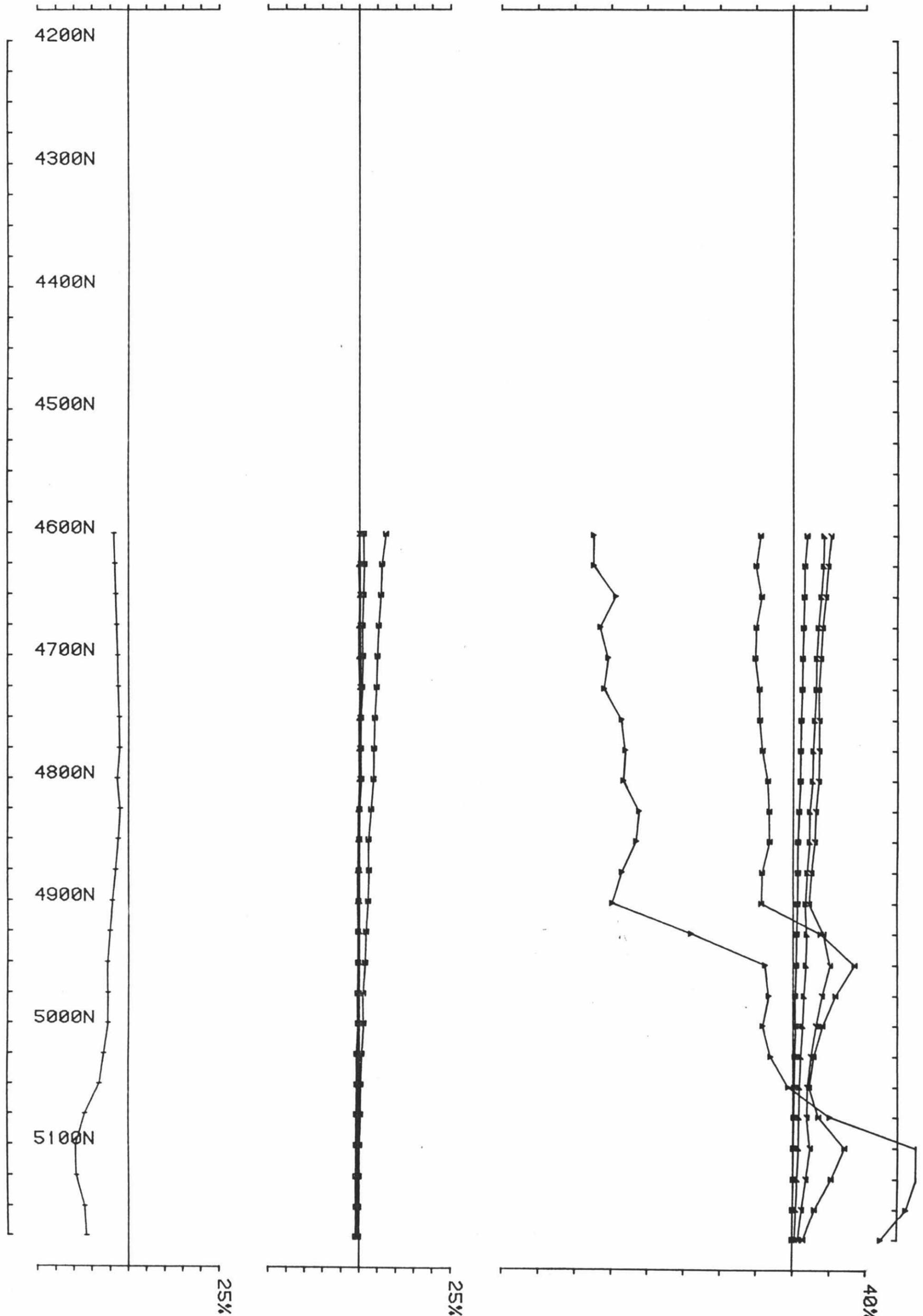
Area DOLCOATH GRANITE AREA SHEFFIELD TASMANIA CRA Job 007001 freq(hz) 26.20
 Loopno 0711 Line 5950E component Hz secondary Ch 1

03-4931

Draughting Room Copy

TASK 754

5 cm



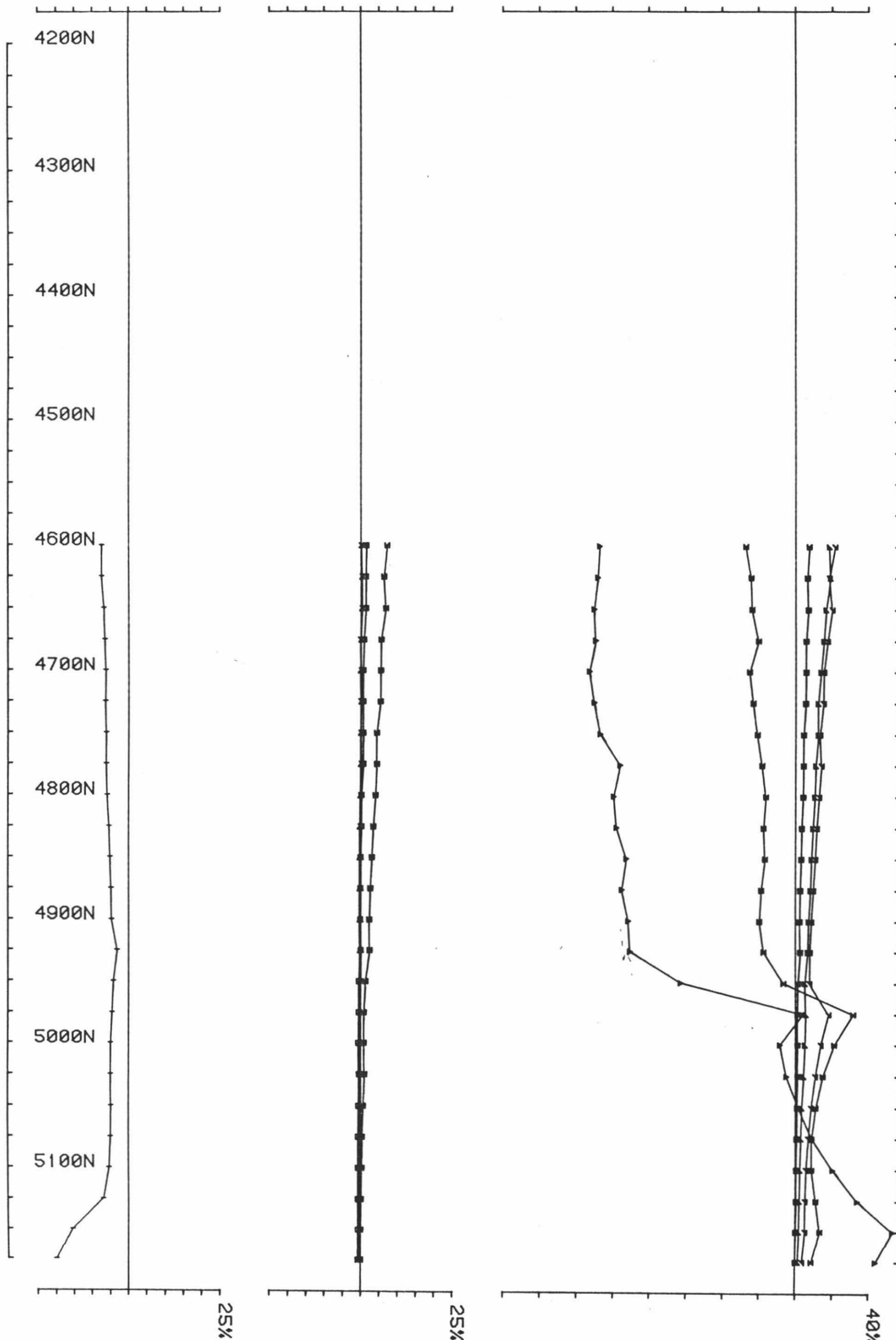
Area DOLCOATH GRANITE AREA SHEFFIELD TASMANIA CRA Job 007001 freq(hz) 26.20
 Loopno 0711 Line 6000E component Hz secondary Ch 1

03-4931

Draughting Room Copy

TASK 753

5 cm



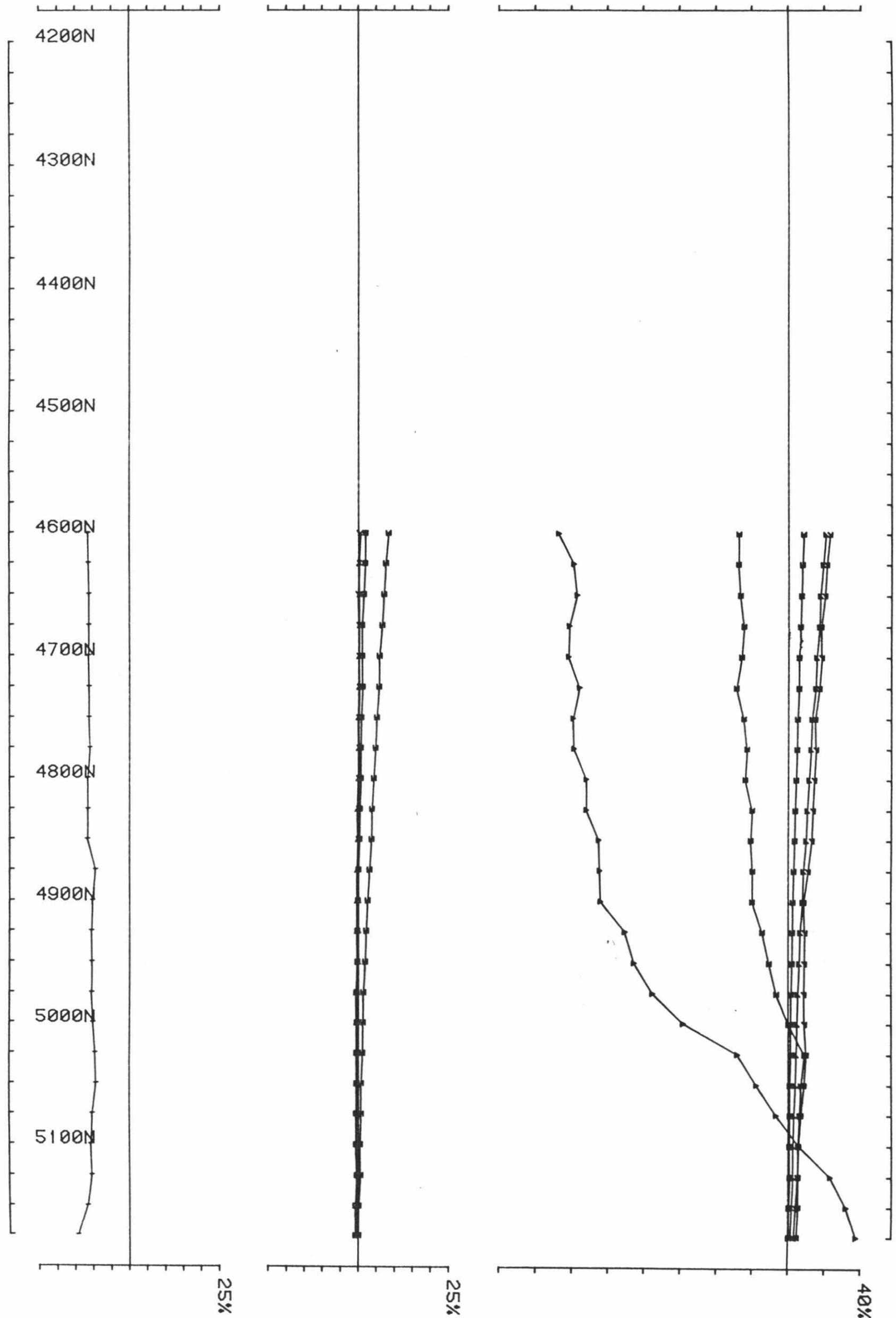
Area DOLCOATH GRANITE AREA SHEFFIELD TASMANIA CRA Job 007001 freq(hz) 26.2C
Loopno 0711 Line 6100E component Hz secondary Ch 1

03-4931

Draughting Room Copy

TASH 752

5 cm



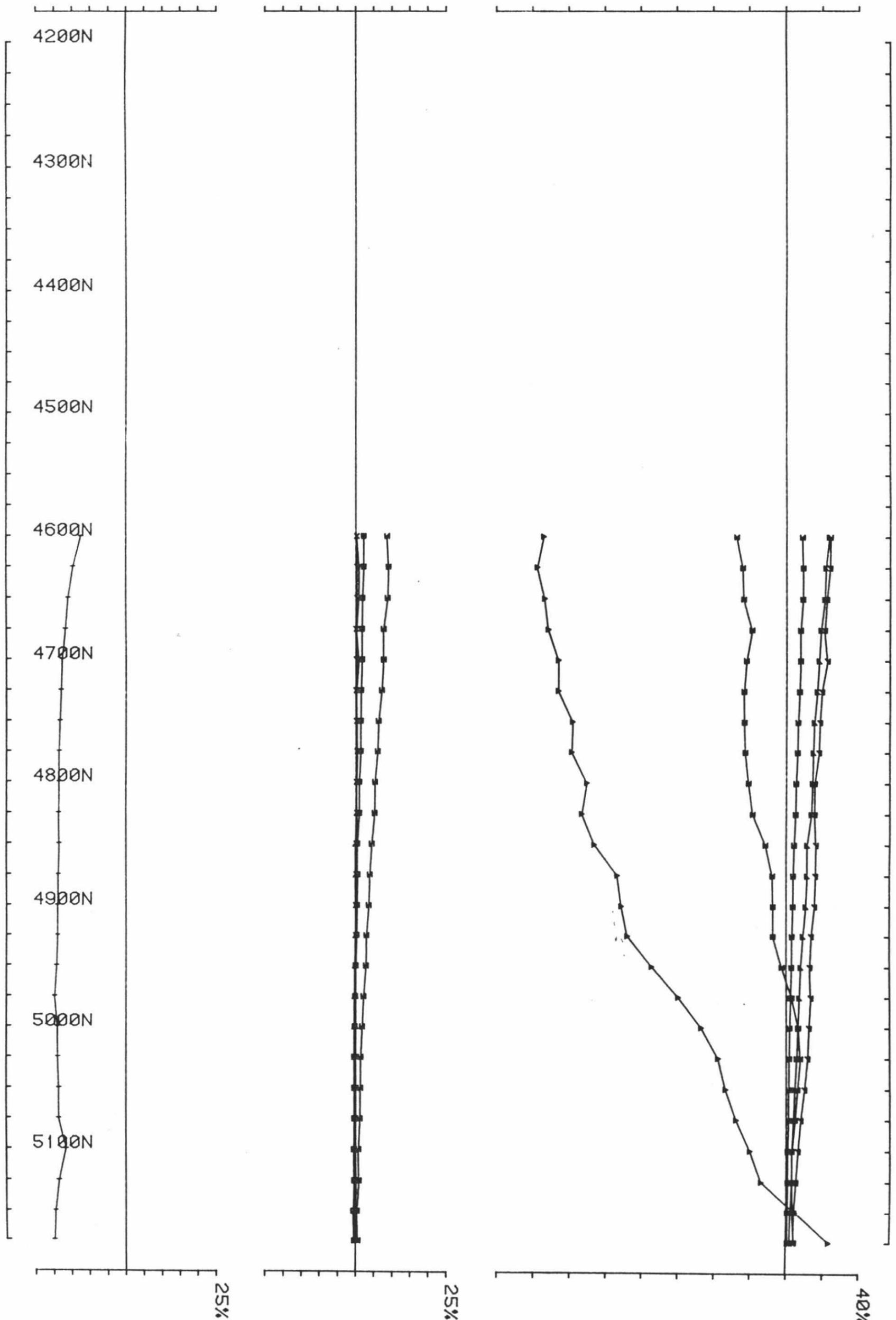
Area DOLCOATH GRANITE AREA SHEFFIELD TASMANIA CRA Job 007001 freq(hz) 26.20
Loopno 0711 Line 6200E component Hz secondary Ch 1

03.4931

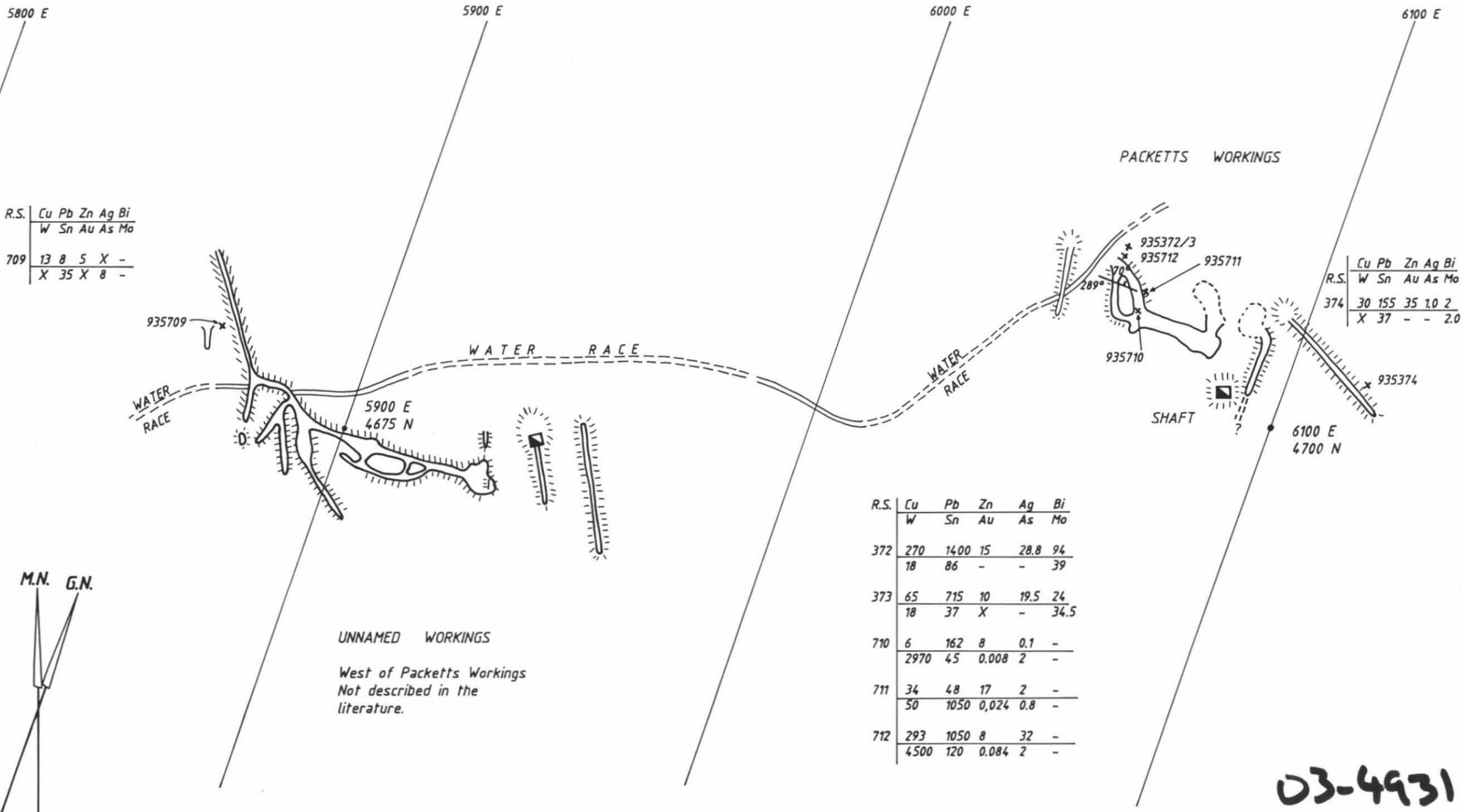
Draughting Room Copy

TASK 751

5 cm



Area DOLCOATH GRANITE AREA SHEFFIELD TASMANIA CRA Job 007001 freq(hz) 26.20
Loopno 0711 Line 6300E component Hz secondary Ch 1



| R.S. | Cu | Pb | Zn | Ag | Bi |
|------|----|----|----|----|----|
| | W | Sn | Au | As | Mo |
| 709 | 13 | 8 | 5 | X | - |
| | X | 35 | X | 8 | - |

| R.S. | Cu | Pb | Zn | Ag | Bi |
|------|----|-----|----|-----|-----|
| | W | Sn | Au | As | Mo |
| 374 | 30 | 155 | 35 | 1.0 | 2 |
| | X | 37 | - | - | 2.0 |

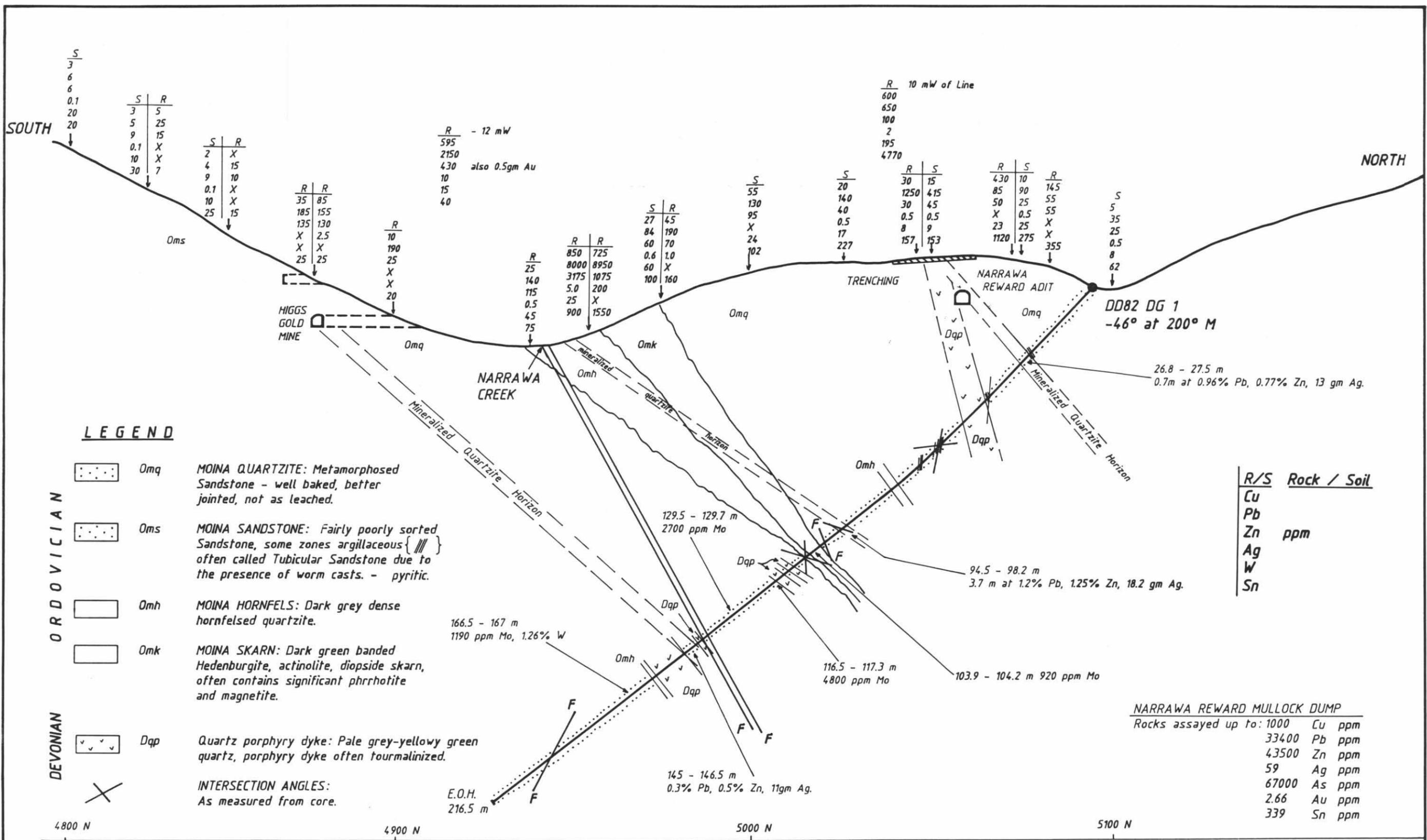
| R.S. | Cu | Pb | Zn | Ag | Bi |
|------|------|------|-------|------|------|
| | W | Sn | Au | As | Mo |
| 372 | 270 | 1400 | 15 | 28.8 | 94 |
| | 18 | 86 | - | - | 39 |
| 373 | 65 | 715 | 10 | 19.5 | 24 |
| | 18 | 37 | X | - | 34.5 |
| 710 | 6 | 162 | 8 | 0.1 | - |
| | 2970 | 45 | 0.008 | 2 | - |
| 711 | 34 | 48 | 17 | 2 | - |
| | 50 | 1050 | 0.024 | 0.8 | - |
| 712 | 293 | 1050 | 8 | 32 | - |
| | 4500 | 120 | 0.084 | 2 | - |

UNNAMED WORKINGS
West of Packetts Workings
Not described in the literature.

03-4931

| | | | |
|-------------------------------------|---------------|-----------|-------|
| CRA EXPLORATION PTY. LIMITED | | | |
| DOLCOATH GRID | | | |
| SCETCH PLAN OF PACKETTS WORKINGS | | | |
| REF. | SK55 - 3 | | |
| SCALE. | 1 : 1000 | DRAWN. | R. T. |
| AUTHOR. | G. W. | REPORT N° | 11881 |
| DATE. | 13 . 8 . 1982 | TASH N° | 837 |

← 5 cm →



CRA EXPLORATION PTY. LIMITED

**DOLCOATH GRID
DRILLHOLE SECTION
DD82 DG 1
5900 E Looking West**

REF. SK55 - 3

| | |
|---------------------|------------------|
| SCALE. 1 : 1000 | DRAWN. R. T. |
| AUTHOR. G. W. | REPORT N°. 11881 |
| DATE. 13 - 8 - 1982 | TASH N°. 836 |

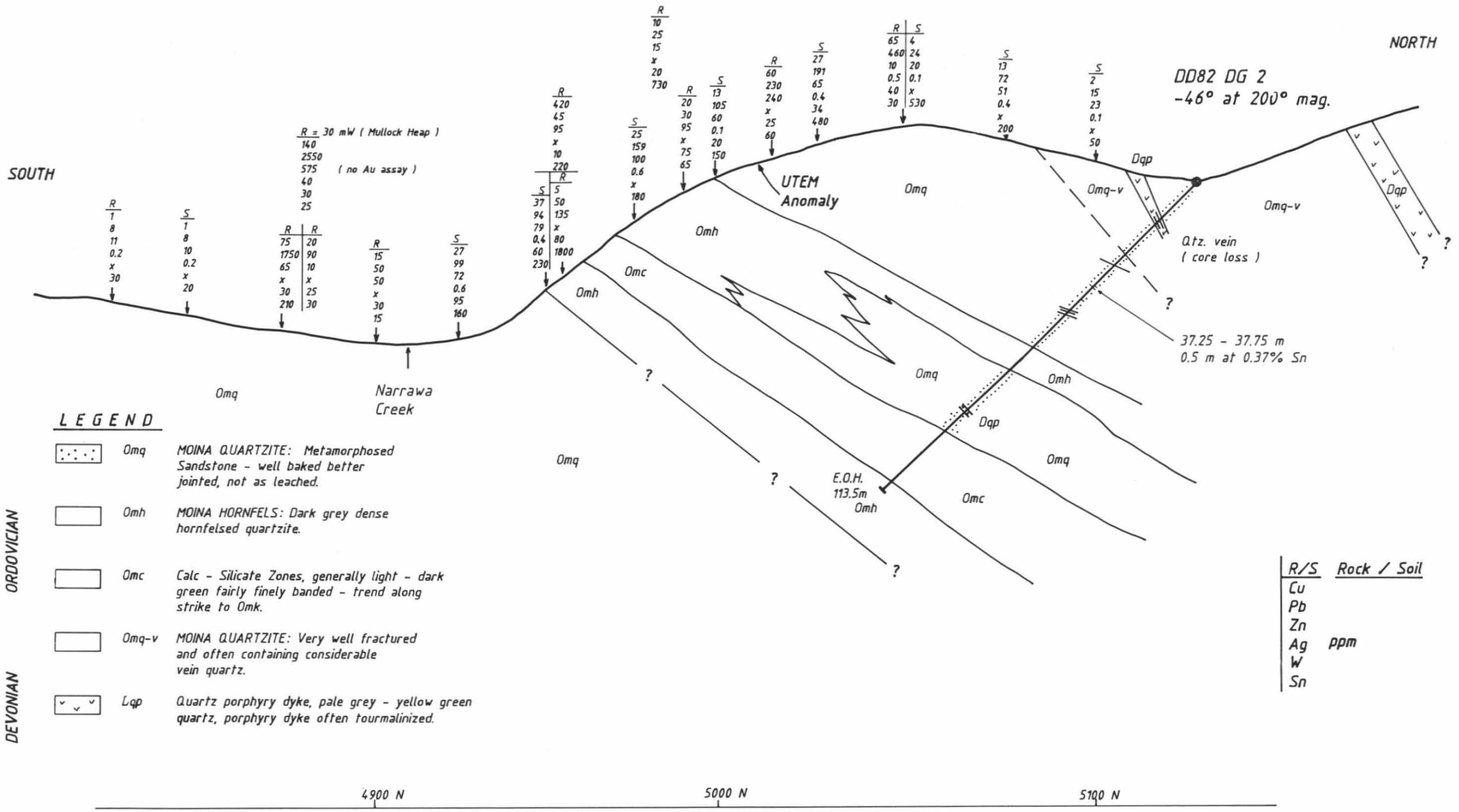
03-4931



SOUTH

NORTH

DD82 DG 2
-46° at 200° mag.



LEGEND

- Omq MOINA QUARTZITE: Metamorphosed Sandstone - well baked better jointed, not as leached.
- Omh MOINA HORNFELS: Dark grey dense hornfelsed quartzite.
- Omc Calc - Silicate Zones, generally light - dark green fairly finely banded - trend along strike to Omk.
- Omq-v MOINA QUARTZITE: Very well fractured and often containing considerable vein quartz.
- Dqp Quartz porphyry dyke, pale grey - yellow green quartz, porphyry dyke often tourmalinized.

ORDOVICIAN

DEVONIAN

| R/S | Rock / Soil |
|-----|-------------|
| Cu | |
| Pb | |
| Zn | |
| Ag | ppm |
| W | |
| Sn | |

CRA EXPLORATION PTY. LIMITED

DOLCOATH GRID
DRILLHOLE SECTION
DD82 DG 2
5800 E Looking West

| | |
|------------|---------------|
| REF. | SKSS - 3 |
| SCALE. | 1 : 1000 |
| AUTHOR. | G. W. |
| DATE. | 13 - 8 - 1982 |
| DRAWN. | R. T. |
| REPORT N°. | 11881 |
| TASH N°. | 834 |

03-4931

4-02

| | | |
|-------|-------|------|
| R | R | R |
| 66 | 46 | 37 |
| 3000 | 1260 | 380 |
| 1.35% | 1.51% | 1960 |
| 30 | 10 | 48 |

SOUTH

| R/S | ROCK / SOIL |
|-----|-------------|
| Mo | |
| Bi | |
| W | ppm |
| Sn | |

DD82 DG 3
-46° at 20° M

Blacks Upper Workings
Underlay Shaft (2m W)

Blacks Lower
Shafts (20m W)

GREISENISED GRANITE
APPROX. 16% CORE GREISEN

APLITIC
DYKE

77.45 - 78.05 m
1250 ppm Cu, 3.5 gm Ag,
5500 ppm Bi, 791 ppm W.

DOLCOATH GRANITE
(GREISENISED)

GRANITE
MORE FRACTURED
LESS GREISENISED.

DOLCOATH
GRANITE

BLACKS LOWER
LODE

ZONE OF
GREISENISATION

GRANITE
E.O.H.
191.5 m

NORTH

5100 N

5200 N

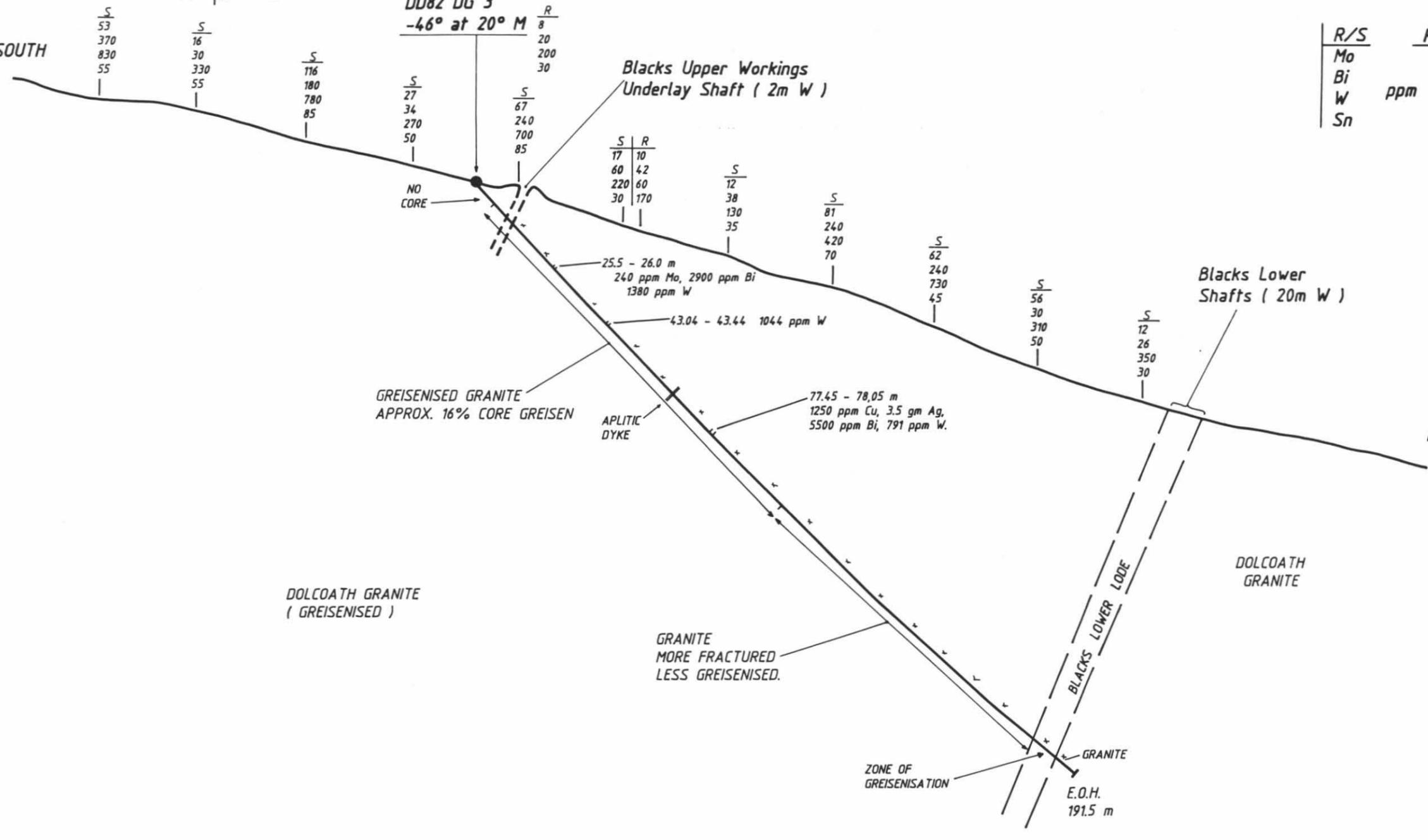
5300 N

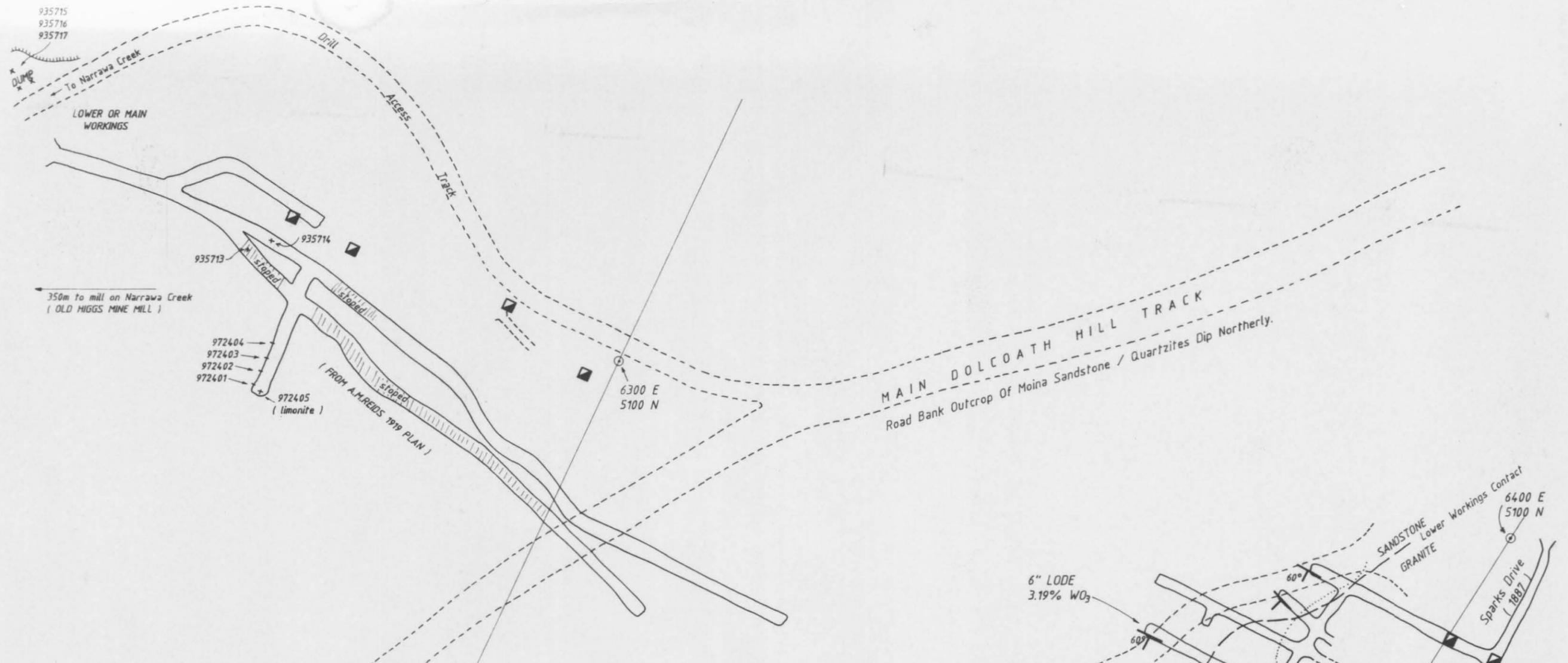
5400 N

5 cm

03-4931

| | |
|--|------------------|
| CRA EXPLORATION PTY. LIMITED | |
| DOLCOATH GRID DRILLHOLE SECTION DD82 DG 3 6600 E Looking West | |
| REF. SK55 - 3 | |
| SCALE. 1 : 1000 | DRAWN. R. T. |
| AUTHOR. G. W. | REPORT N°. 11881 |
| DATE. 13 - 8 - 1982 | TASH N°. 835 |





935715
935716
935717

350m to mill on Narrawa Creek
(OLD HIGGS MINE MILL)

972404
972403
972402
972401

(FROM A.M. REID'S 1919 PLAN)

6300 E
5100 N

MAIN DOLCOATH HILL TRACK
Road Bank Outcrop Of Moina Sandstone / Quartzites Dip Northerly.

6" LODE
3.19% WO₃

6400 E
5100 N

SANDSTONE Lower Workings Contact
GRANITE

To Cradle Mountain Road

Cu Pb Zn Ag Bi
W Sn Au As Mo

| | | | | | |
|--------|-----|----|-------|-----|---|
| 935713 | 14 | 16 | 6 | x | - |
| | 80 | 15 | 0.008 | 2 | - |
| 714 | 202 | 31 | 37 | 0.3 | - |
| | 150 | 75 | 0.145 | 32 | - |

| | | | | | |
|-----|-------|-----|-------|-----|---|
| 715 | 32 | 60 | 19 | 0.4 | - |
| | 5.03% | 35 | 2.5 | 85 | - |
| 716 | 181 | 42 | 85 | 0.5 | - |
| | 110 | 150 | 0.6 | 90 | - |
| 717 | 4.6 | 4.0 | 6 | 0.6 | - |
| | 190 | 25 | 0.032 | 20 | - |

| | | | | | |
|--------|-----|----|----|---|----|
| 972401 | 35 | 62 | 26 | x | - |
| | 179 | 92 | - | x | 36 |

| | | | | | |
|-----|-----|-----|-----|---|----|
| 402 | 4.5 | 37 | 4.1 | x | - |
| | 261 | 4.8 | - | x | 34 |

| | | | | | |
|-----|-----|----|----|-----|----|
| 403 | 4.6 | 50 | 65 | 0.2 | - |
| | 93 | 44 | - | x | 26 |

| | | | | | |
|-----|------|----|----|----|----|
| 404 | 30 | 10 | 40 | x | - |
| | 1290 | 26 | - | 50 | 28 |

| | | | | | |
|-----|-----|----|----|-----|------|
| 405 | 29 | 39 | 22 | x | - |
| | 105 | 12 | - | 300 | 1010 |

| | | | | | |
|--------|----|----|-------|-----|---|
| 935675 | 80 | 30 | x | 1.5 | - |
| | 55 | 15 | 0.368 | 8 | - |

| | | | | | |
|-----|----|-----|-------|----|---|
| 676 | 10 | 20 | 20 | x | - |
| | 15 | 130 | 0.048 | 83 | - |

| | | | | | |
|-----|----|----|-------|----|---|
| 677 | 25 | 35 | 20 | x | - |
| | 30 | 80 | 0.008 | 90 | - |

| | | | | | |
|-----|------|-----|------|-----|---|
| 678 | 105 | 4.5 | x | 1.5 | - |
| | 1400 | 10 | 6.95 | 27 | - |

| | | | | | |
|--------|------|-----|----|-----|-----|
| 972433 | 68 | 21 | 17 | x | - |
| | 200 | 4.0 | - | 50 | 70 |
| 434 | 91 | 18 | 19 | x | - |
| | 1030 | 34 | - | 100 | 190 |
| 435 | 65 | 13 | 18 | 0.1 | - |
| | 556 | 28 | - | 50 | 150 |

| | | | | | |
|-----|-----|----|----|----|-----|
| 436 | 66 | 4 | 24 | x | - |
| | 354 | 68 | - | 50 | 130 |

| | | | | | |
|-----|------|----|----|---|-----|
| 311 | 100 | 15 | 27 | x | 220 |
| | 2070 | 84 | - | x | 124 |

| | | | | | |
|-----|-----|----|----|----|-----|
| 312 | 110 | 9 | 26 | x | 166 |
| | 485 | 57 | - | 50 | 170 |

| | | | | | |
|-----|-----|----|----|---|-----|
| 313 | 120 | 12 | 27 | x | 380 |
| | 573 | 27 | - | x | 300 |

| | | | | | |
|-----|-----|-----|----|---|-----|
| 314 | 100 | 9 | 28 | x | 210 |
| | 509 | 4.6 | - | x | 130 |

| | | | | | |
|-----|-----|----|----|---|----|
| 315 | 70 | 10 | 31 | x | 56 |
| | 342 | 35 | - | x | 56 |

| | | | | | |
|-----|-----|----|----|---|----|
| 316 | 62 | 11 | 29 | x | 44 |
| | 505 | 39 | - | x | 18 |

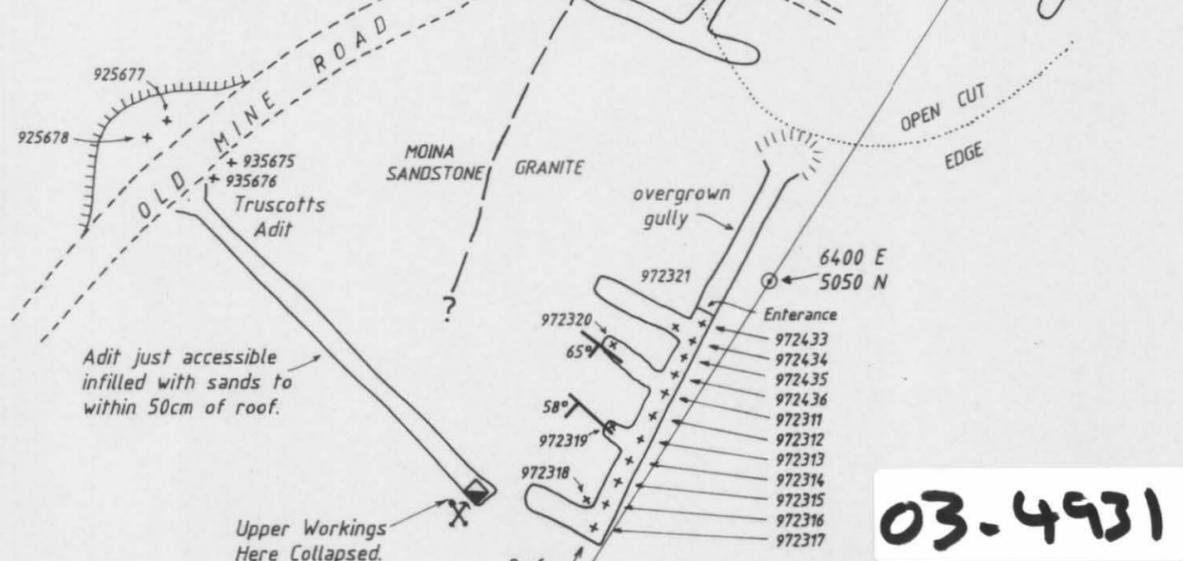
| | | | | | |
|-----|-----|----|----|---|-----|
| 317 | 32 | 13 | 19 | x | 112 |
| | 369 | 17 | - | x | 28 |

| | | | | | |
|-----|-----|-----|----|---|----|
| 318 | 35 | 9 | 24 | x | 30 |
| | 439 | 4.3 | - | x | 8 |

| | | | | | |
|-----|-----|----|----|---|-----|
| 319 | 100 | 6 | 27 | x | 122 |
| | 185 | 64 | - | x | 210 |

| | | | | | |
|-----|------|----|----|---|-----|
| 320 | 53 | 15 | 18 | x | 162 |
| | 6990 | 4 | - | x | 78 |

| | | | | | |
|-----|-----|-----|----|-----|-----|
| 321 | 165 | 23 | 32 | 0.5 | 162 |
| | 479 | 469 | - | 100 | 400 |

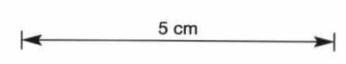


Adit just accessible
infilled with sands to
within 50cm of roof.

Upper Workings
Here Collapsed.

Roof
Channel
Sampling

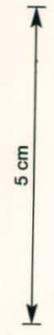
03-4931



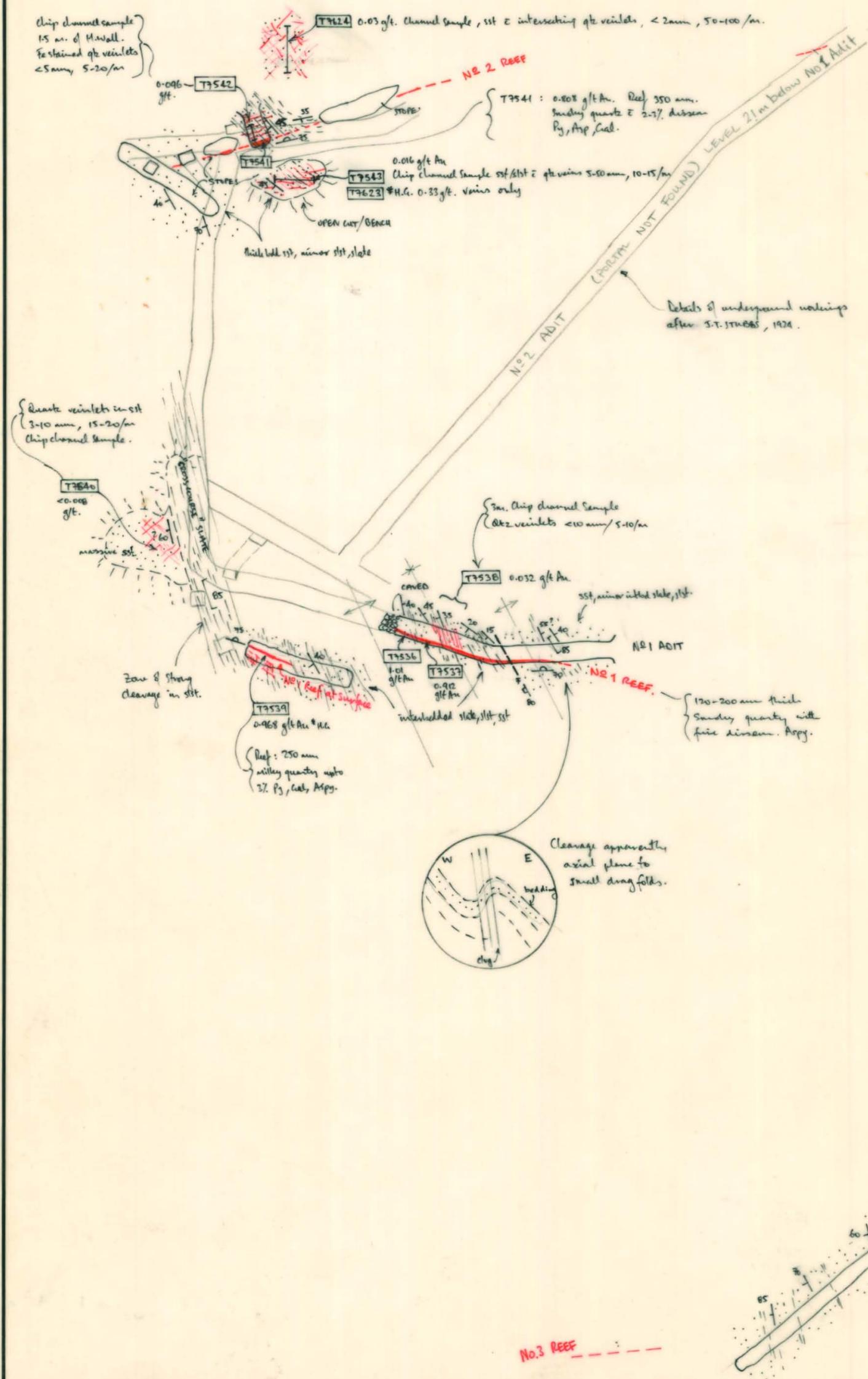
| | |
|---|------------------|
| CRA EXPLORATION PTY. LIMITED | |
| DOLCOATH GRID SQUIB WORKS (From Dickinson Plan 1941) (After Reid 1919) | |
| Ref: SK55 - 3 | |
| Scale: 1 : 5000 (approx) | Drawn: R. T. |
| Author: G. W. | Report No. |
| Date: 16 - 8 - 1982 | Plan No TASH 838 |

| | |
|--|------------|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| DRAWN BY: <i>AVJ</i> | DRAFTSMAN: |
| DATE: 4.87 | REVISIONS: |
| FILE NO. | FIG. 1 |
| E.L. 17/86 FORESTER GOLDFIELD LINTON P.A. MINE PLAN | |
| SCALE 1:500 (APPROX) | |

03-4931



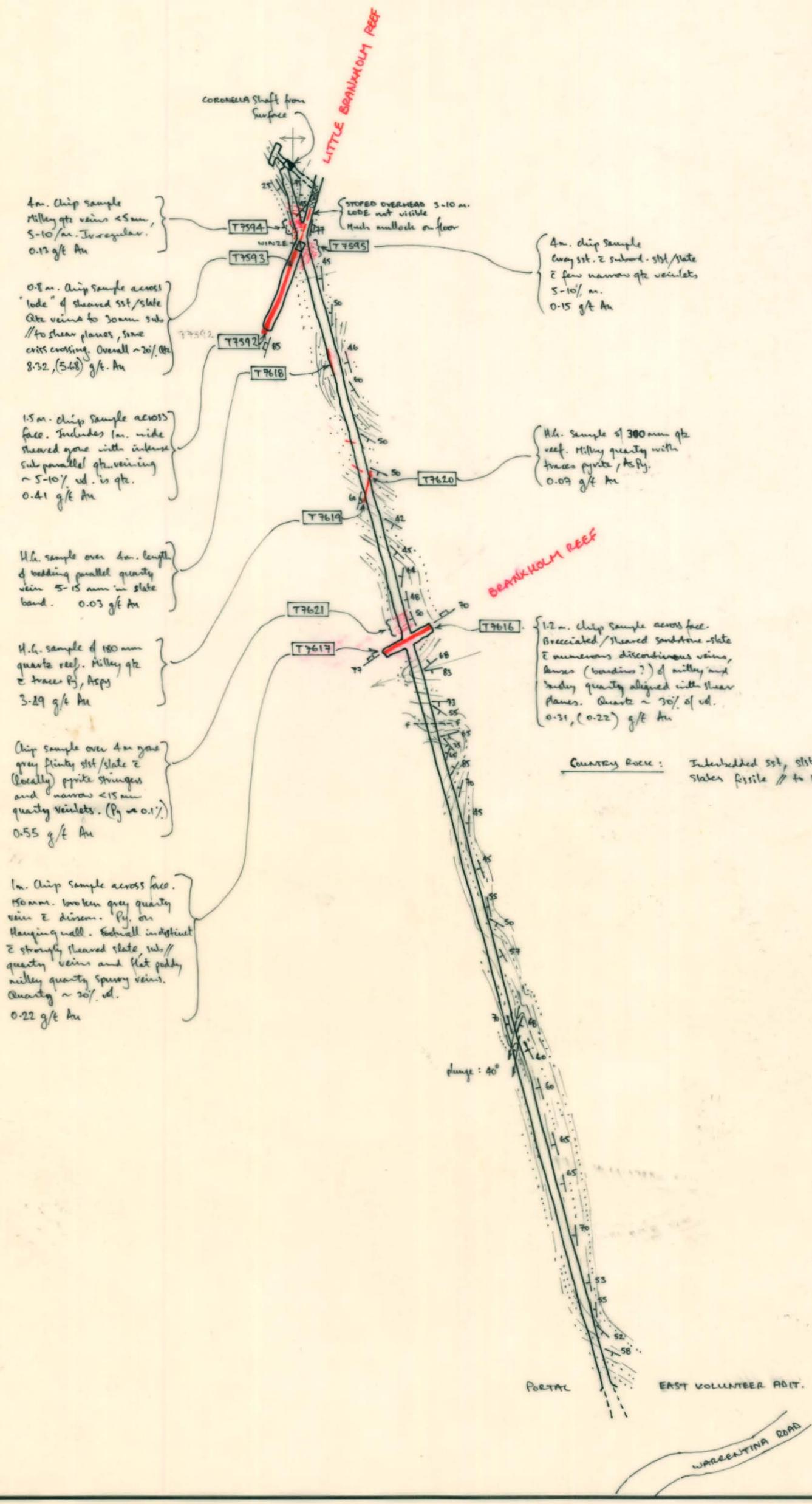
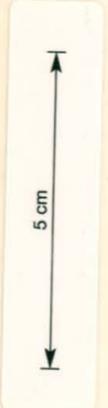
5 cm



| | | | |
|--------------------------------------|------------|------------|------------|
| GOLD FIELDS EXPLORATION PTY. LIMITED | | | |
| DRAWN BY: <i>4.27</i> | DRAFTSMAN: | DATE: 4.87 | REVISIONS: |
| E.L. 17/86 | | | FILE NO. |
| WARRENTINA GOLDFIELD | | | FIG. 5 |
| GOLDEN MARA MINE | | | |
| EAST VOLUNTEER ADIT PLAN | | | |
| SCALE 1:1000 | | | |



03-4931



4m. Chip sample
Milky qtz veins < 5mm,
5-10/m. Irregular.
0.13 g/t Au

0.8m. Chip sample across
"lode" of sheared sst/slate
Qtz veins to 30mm sub-
// to shear planes, some
cross crossing. Overall ~20% Qtz
8.32, (5.68) g/t Au

1.5m. Chip sample across
face. Includes 1m. wide
sheared zone with intense
sub-parallel qtz-veining
~5-10% vd. is qtz.
0.41 g/t Au

H.l. sample over 4m. length
of bedding parallel quartz
vein 5-15 mm in slate
band. 0.03 g/t Au

H.l. sample of 180 mm
quartz reef. Milky qtz
& traces Py, Aspy
3.29 g/t Au

Chip sample over 4m zone
grey flinty slt/slate &
(locally) pyrite stringers
and narrow < 15 mm
quartz veinlets. (Py is 0.1%)
0.55 g/t Au

1m. Chip sample across face.
150mm. broken grey quartz
vein & discon. Py. on
hanging wall. Footwall indistinct
& strongly sheared slate, sub-
quartz veins and flat paddy
milky quartz sparry veins.
Quartz ~ 20% vd.
0.22 g/t Au

4m. chip sample
away sst. & subord. slt/slate
& few narrow qtz veinlets
5-10/m.
0.15 g/t Au

H.l. sample of 300 mm qtz
reef. Milky quartz with
traces pyrite, As Py.
0.09 g/t Au

1.2m. chip sample across face.
Brecciated/sheared sandstone-slate
& numerous discontinuous veins,
zones (bedding?) of milky and
paddy quartz aligned with shear
planes. Quartz ~ 70% of vd.
0.31, (0.22) g/t Au

COUNTRY ROCK: Interbedded sst, slt, slate.
Slates fissile // to bedding



No. 2. CAXTON REEF (STORES)

R.L. ~ 440 m

R.L. ~ 470 m

T7585 0.8m fracture zone. fracture // qtz veins to 30mm, ~ 30-40/m Overall about 5% vol is qtz. Veins wuggy, oxidized & traces of Fe staining

Massive sst. Moderately intense skeletal of fine qtz veinlets 15-50/m. Not sampled, dangerous loads.

T7591 grab sample of bagged ore inside portal of adit. Smoky vein quartz & dissemin. Py, As, Py, Gal.

T7590 H.G. chip sample from about 2m. along paddy qtz reef variable 10-100mm. Milky-smoky qtz & minor dissemin. As, Py, Py

Inregular paddy qtz stringers mostly <10mm, rarely upto 70mm. f.g. sst, minor drusy slate

N.W. Corner 1:20

COUNTRY ROCKS: Dominantly thick bedded sst, minor thin interbedded dk. grey slate.

0.8m. wide bx sst. & dissemin. As, Py and intense quartz veining.

T7586 Qtz 'lode' 1.2m wide. Intensely fractured sst. & numerous intersecting small-large veins qtz to 150mm. Overall ~ 70% vol. is quartz. Mostly white. 0.43 g/t

T7589 0.65 m. massive white-grey quartz reef. 0.34 g/t

T7588 0.2 m. wide zone (035° strike) anastomosing qtz veins / leucite veins to 30mm. 10% vol. 0.11 g/t

T7587 Reef diminished to 170 mm. Smoky qtz, minor fine sulphides. Both walls clean. 0.10 g/t

Thick bedded grey sst, minor thin interbedded dk. grey slate

R.L. ~ 450 m

Massive sst. hinge not observed

SHAFT TO SURFACE

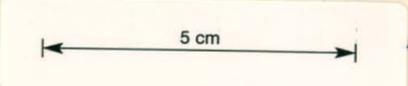
T7585 0.05 g/t Au

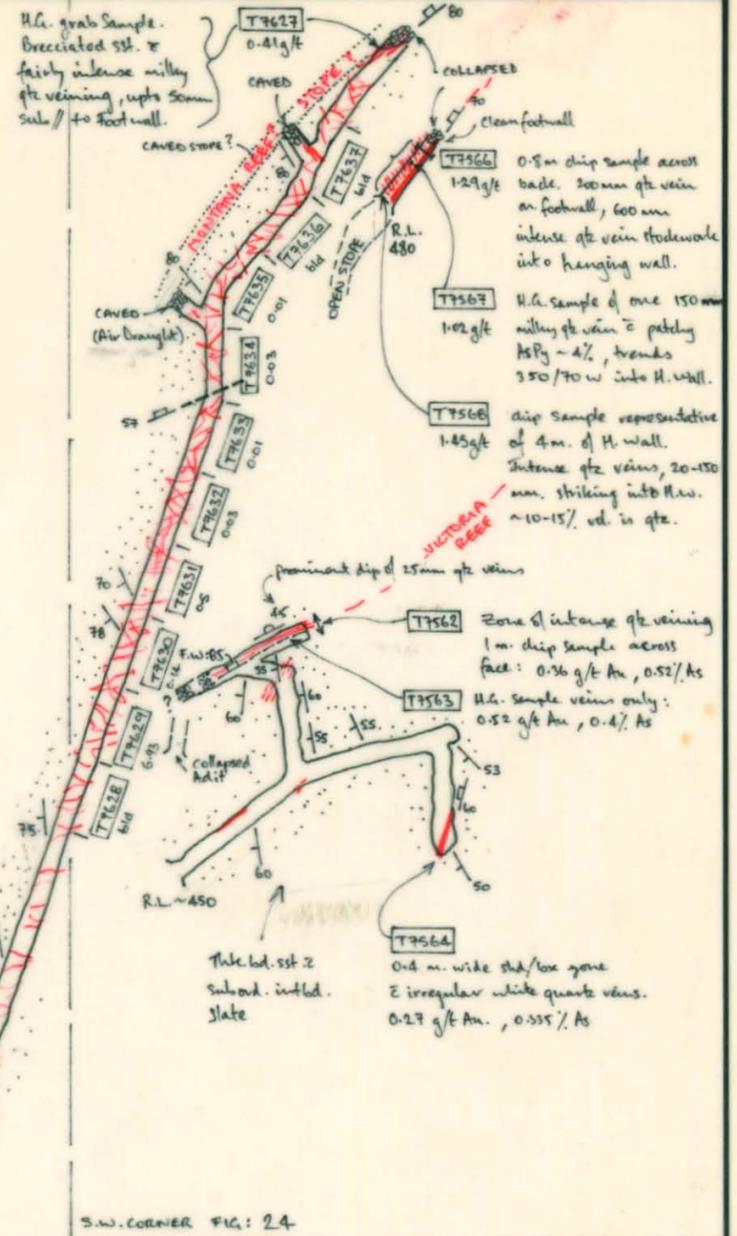
| Intensity of Qtz. veining | Sample No | Ave g/t |
|---|-----------|---------|
| occasional q. vns. < 20mm. | T7578 | 0.10 |
| occasional q. vns. | T7579 | 0.02 |
| dk. vns. 15-20mm, 0.07 | T7580 | 0.07 |
| Qtz vns. < 10mm, 5/m | T7581 | 0.01 |
| Milky qtz dissemin. vns. to 30mm, 5-10/m. | T7582 | 0.02 |
| Milky qtz. dissemin. vns. to 80mm, 15/m. | T7583 | 0.03 |
| Occasional vns. some // bed. | T7584 | N/A. |

Approximate position of Long Struggle Open Stopes

03-4931

| | |
|--------------------------------------|---------|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| E.L. 17/86 | |
| ALBERTON GOLDFIELD | |
| LONG STRUGGLE - CAXTON PLAN | |
| SCALE 1:500 | FIG. 21 |
| DRAWN BY: [Signature] | |
| DRAFTSMAN: | |
| DATE 4/87 | |
| REVISIONS: | |
| FILE NO. | |





H.A. grab Sample. Precipitated sst. & fairly intense milky qtz veining, up to 50mm sub // to footwall.

0.8m chip sample across base. 200mm qtz vein on footwall, 600mm intense qtz vein streakwork into hanging wall.

H.A. sample of ore 150mm milky qtz vein & patchy AsPy - 4%, trends 350/70 w into H. wall.

chip sample representative of 4m. of H. wall. Intense qtz veins, 20-150mm. striking into H. wall. ~10-15% vol. in qtz.

Zone of intense qtz veining 1m. chip sample across face: 0.36 g/t Au, 0.52/As

H.A. sample vein only: 0.52 g/t Au, 0.4% As

0.4 m. wide slab/ore zone & irregular white quartz veins. 0.27 g/t Au., 0.555% As

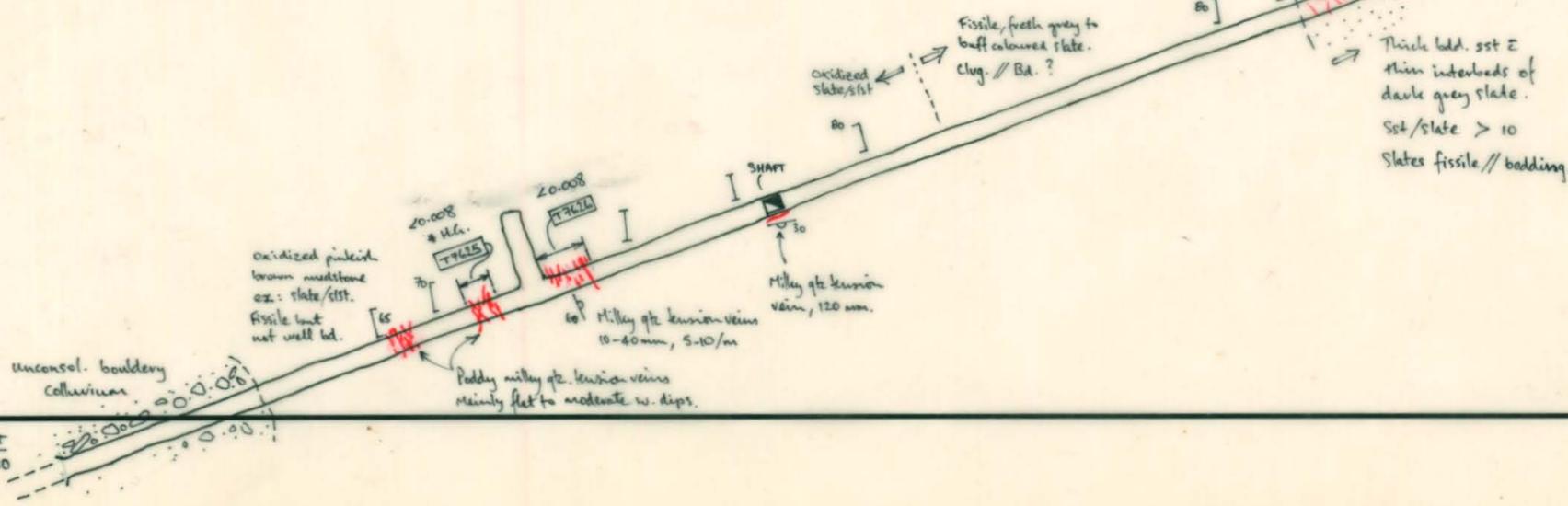
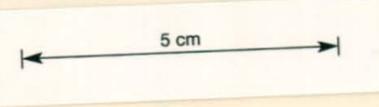
NE 2 ADIT (partly collapsed at Portal)

No hinges obs. Slight local overturn to E?

S.W. CORNER FIG: 24

03-4931

| | |
|--------------------------------------|----------------------|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| E.L. 17/86 TMS | DRAWN BY: <i>Log</i> |
| ALBERTON GOLDFIELD | DRAFTSMAN: |
| MT. VICTORIA MINE | DATE 4-87 |
| PLAN | REVISIONS: |
| SCALE 1:500 | FILE NO. |
| FIG. 23 | |



oxidized pinkish brown mudstone ex: slate/sst. fissile but not well bed.

Milky qtz lamination veins 10-40mm, 5-10/m

Milky qtz lamination vein, 120mm.

Pebbly milky qtz. lamination veins mainly flat to moderate w. dips.

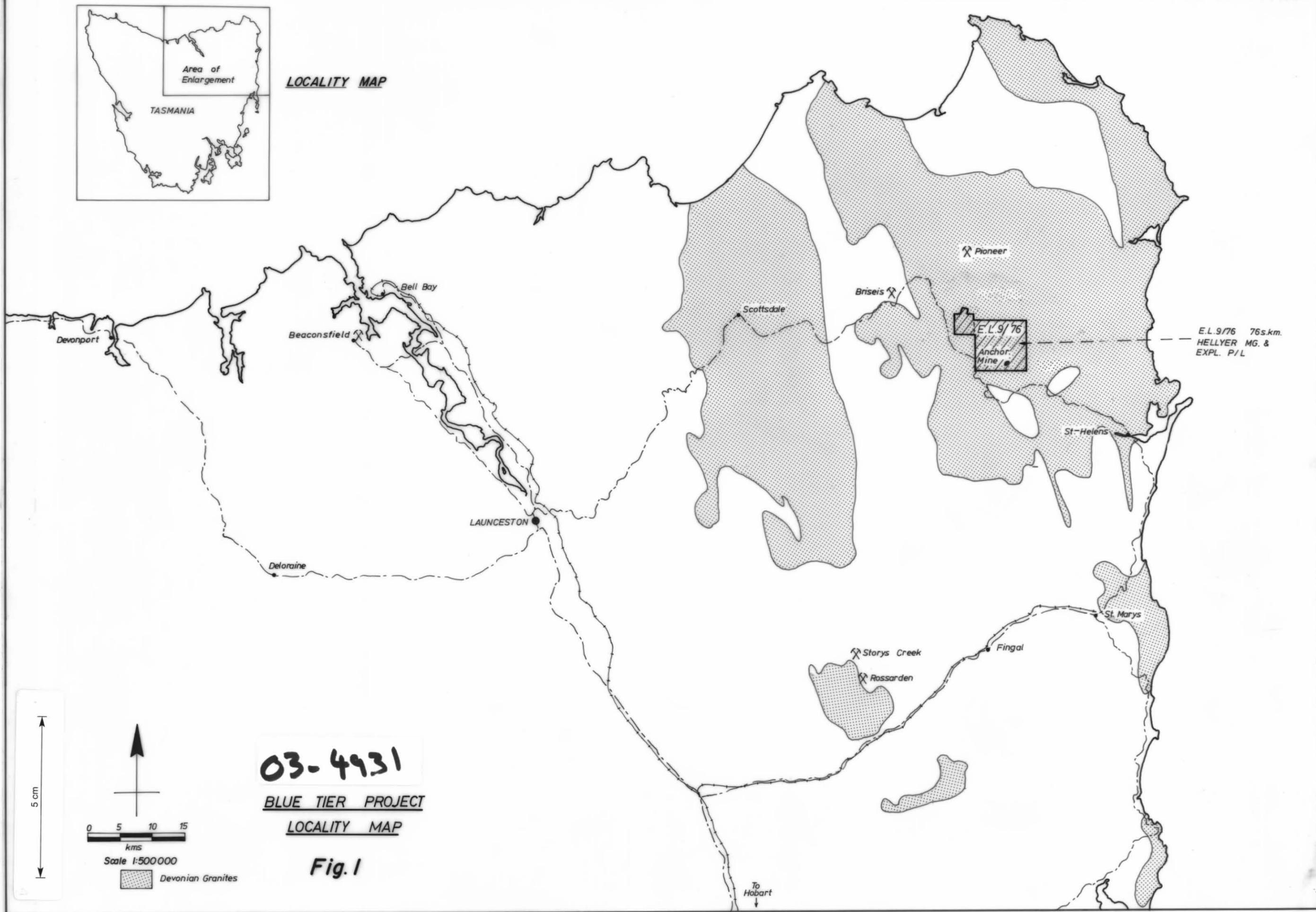
Fissile, fresh grey to buff coloured slate. clay. // Bd. ?

Thick bed. sst & thin interbeds of dark grey slate. Sst/slate > 10 Slates fissile // bedding.

A 12548 NE 3 ADIT R.L. ~410



LOCALITY MAP



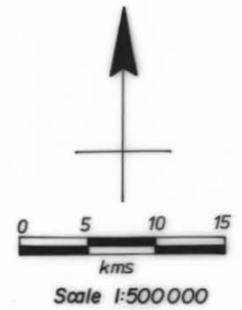
E.L. 9/76 76s.km.
HELLYER MG. &
EXPL. P/L

03-4931

**BLUE TIER PROJECT
LOCALITY MAP**

Fig. 1

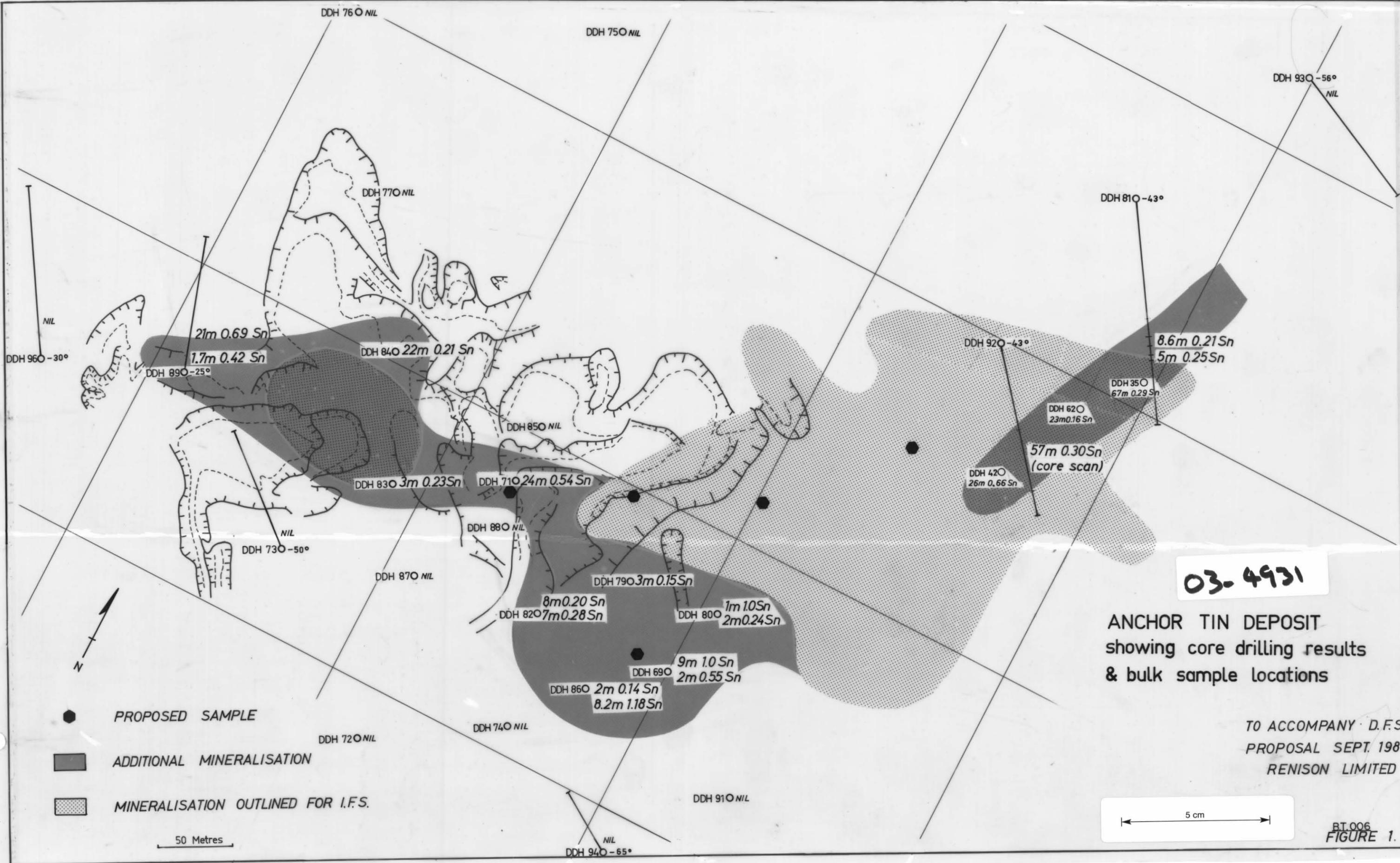
5 cm

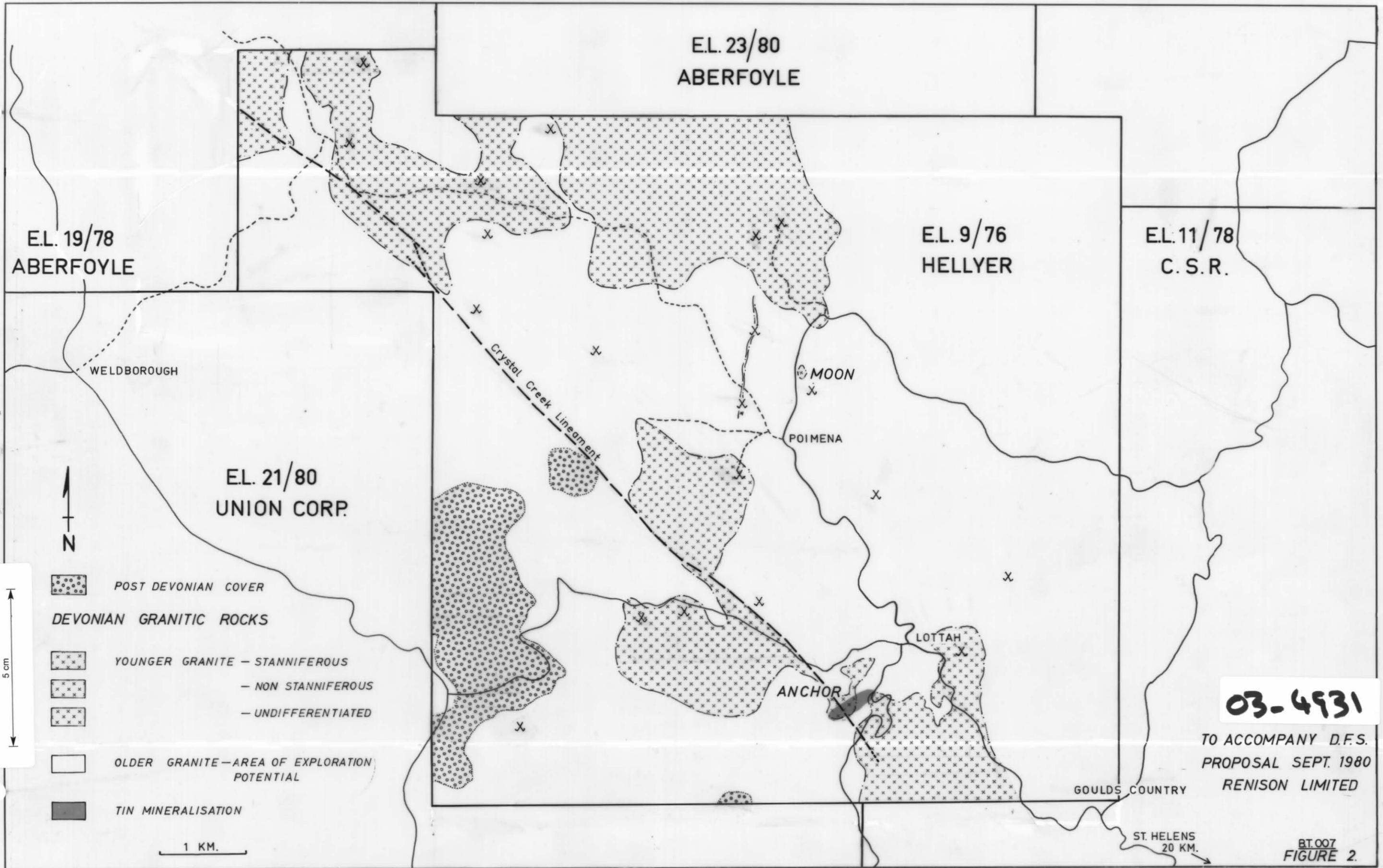


Scale 1:500000

Devonian Granites

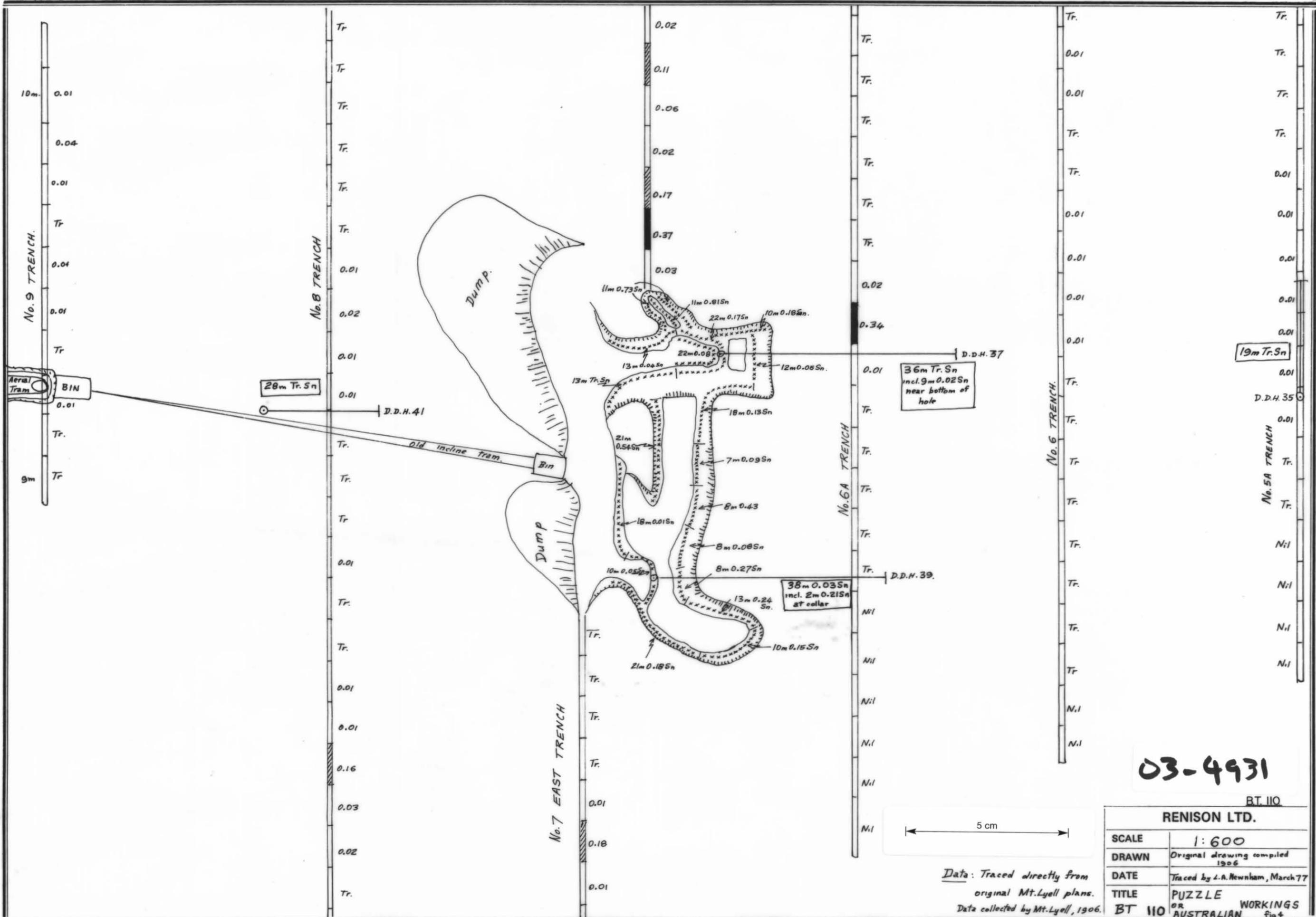
To
Hobart





03-4931

TO ACCOMPANY D.F.S.
PROPOSAL SEPT. 1980
RENISON LIMITED



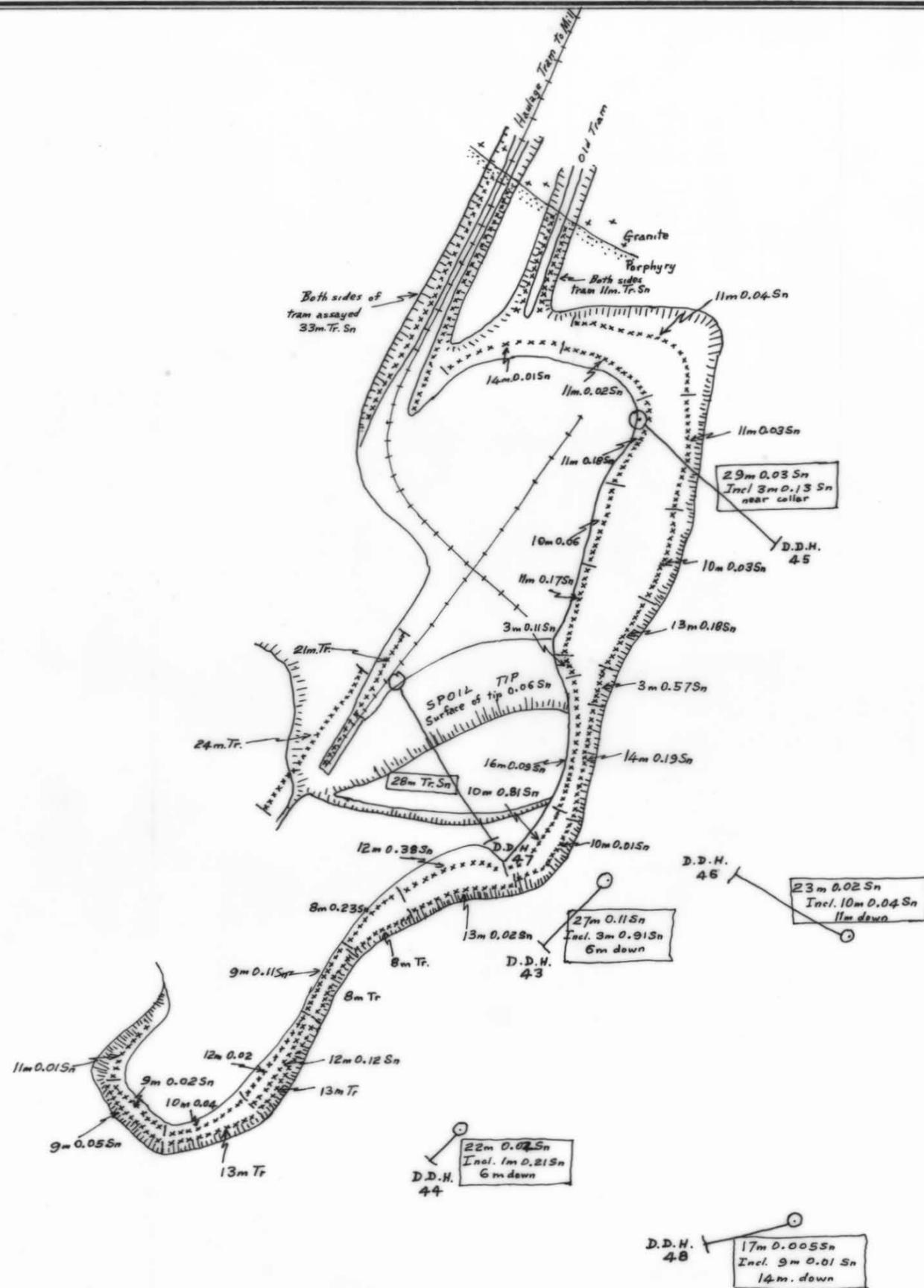
03-4931

BT. 110

RENISON LTD.

| | |
|--------|---------------------------------|
| SCALE | 1:600 |
| DRAWN | Original drawing compiled 1906 |
| DATE | Traced by L.A. Newham, March 77 |
| TITLE | PUZZLE WORKINGS |
| BT 110 | OR AUSTRALIAN fig 4 |

Data: Traced directly from original Mt. Lyell plans.
Data collected by Mt. Lyell, 1906.



D.D.H. 49
 21m 0.01 Sn
 Incl. 8m 0.03 Sn
 12m down

D.D.H. 46
 23m 0.02 Sn
 Incl. 10m 0.04 Sn
 11m down

D.D.H. 44
 22m 0.02 Sn
 Incl. 1m 0.21 Sn
 6m down

D.D.H. 48
 17m 0.005 Sn
 Incl. 9m 0.01 Sn
 14m. down

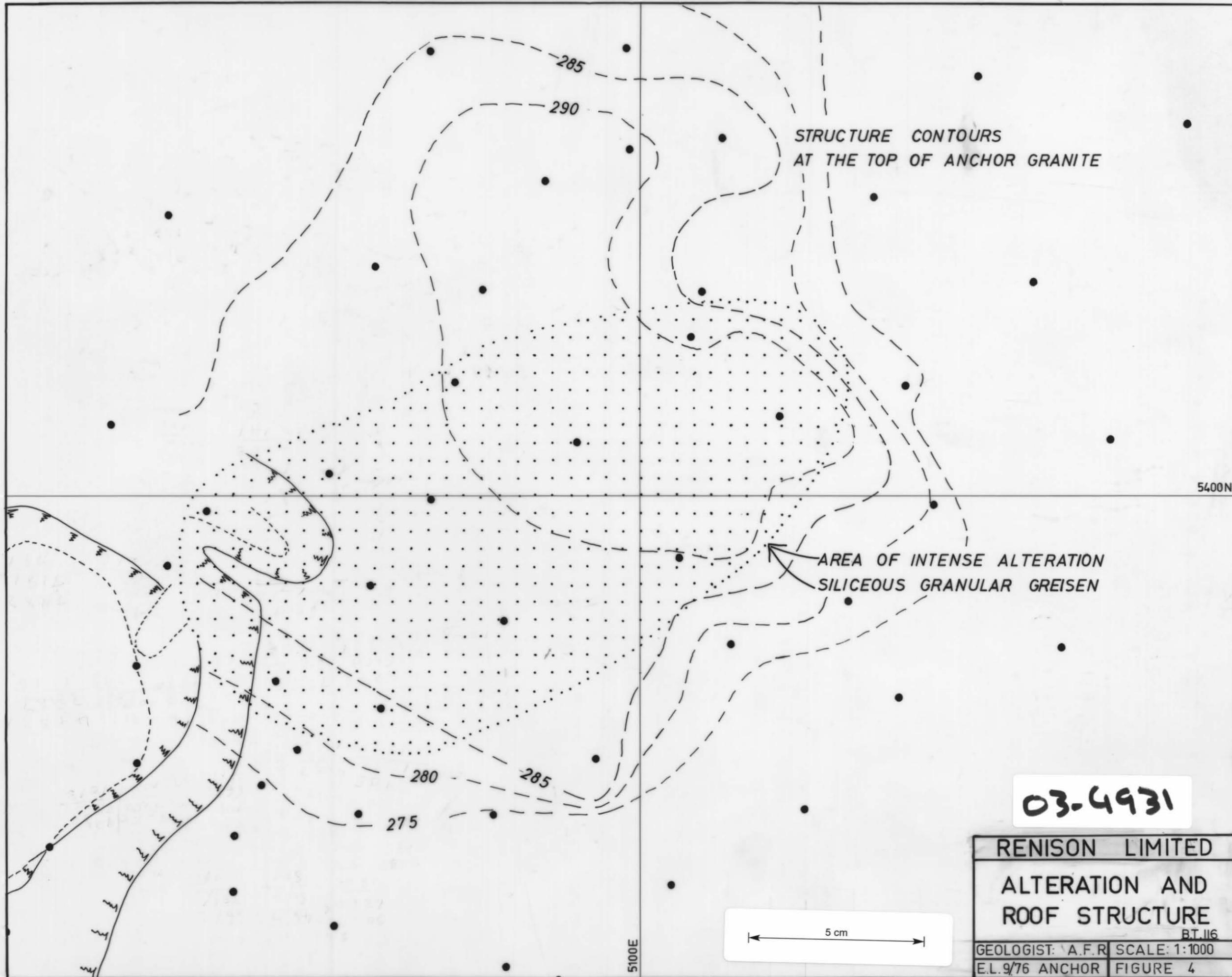


03-4931

Data: Traced directly from original Mt. Lyell plans. Data collected 1906 by Mt. Lyell

BT. III

| | |
|--------------|----------------------------------|
| RENISON LTD. | |
| SCALE | 1:600 |
| DRAWN | Original drawing compiled 1906 |
| DATE | Traced by L.A. Newham, Mar. 1977 |
| TITLE | DON |
| BT. III | WORKINGS fig 5 |



STRUCTURE CONTOURS
AT THE TOP OF ANCHOR GRANITE

AREA OF INTENSE ALTERATION
SILICEOUS GRANULAR GREISEN

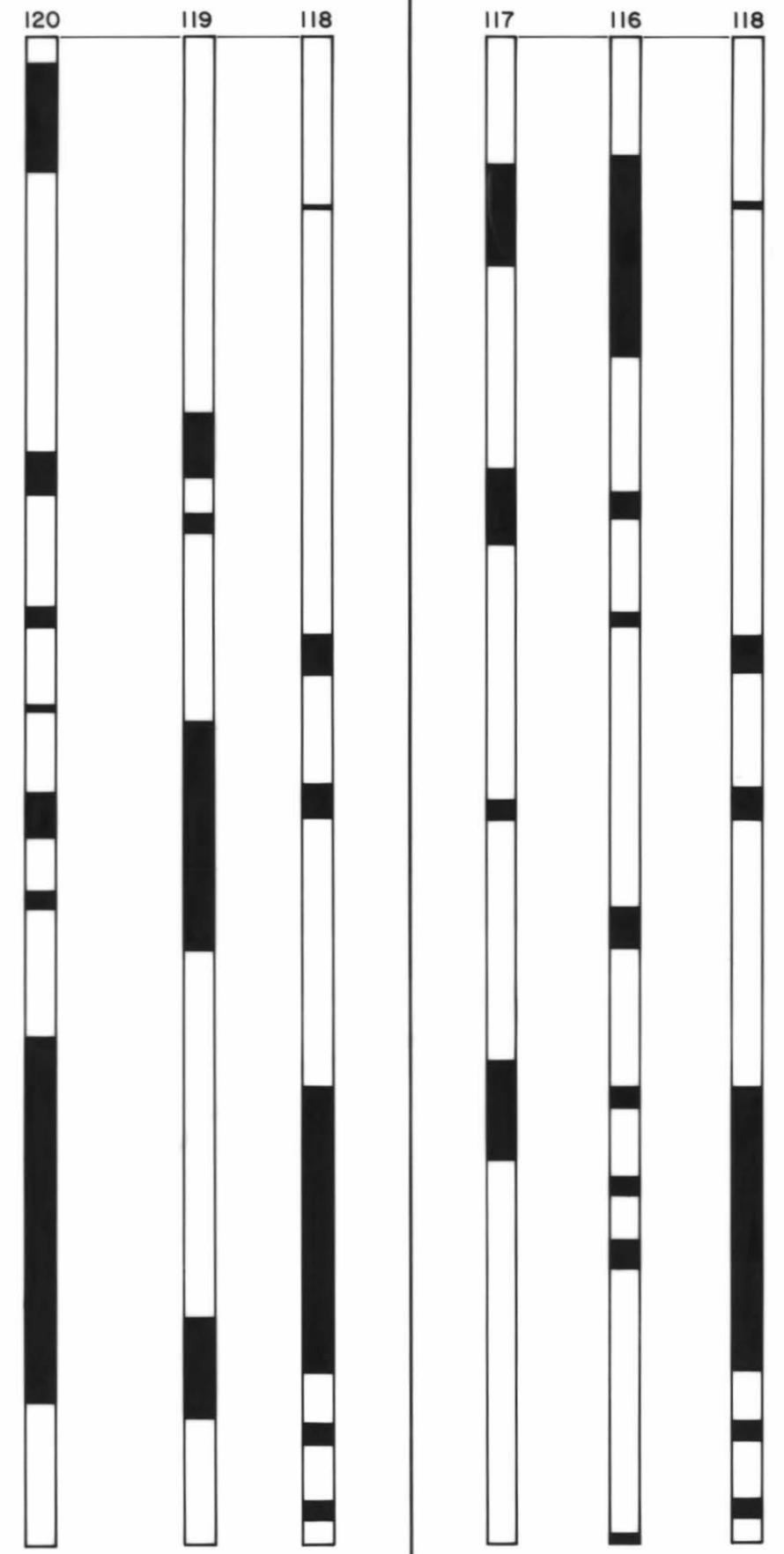
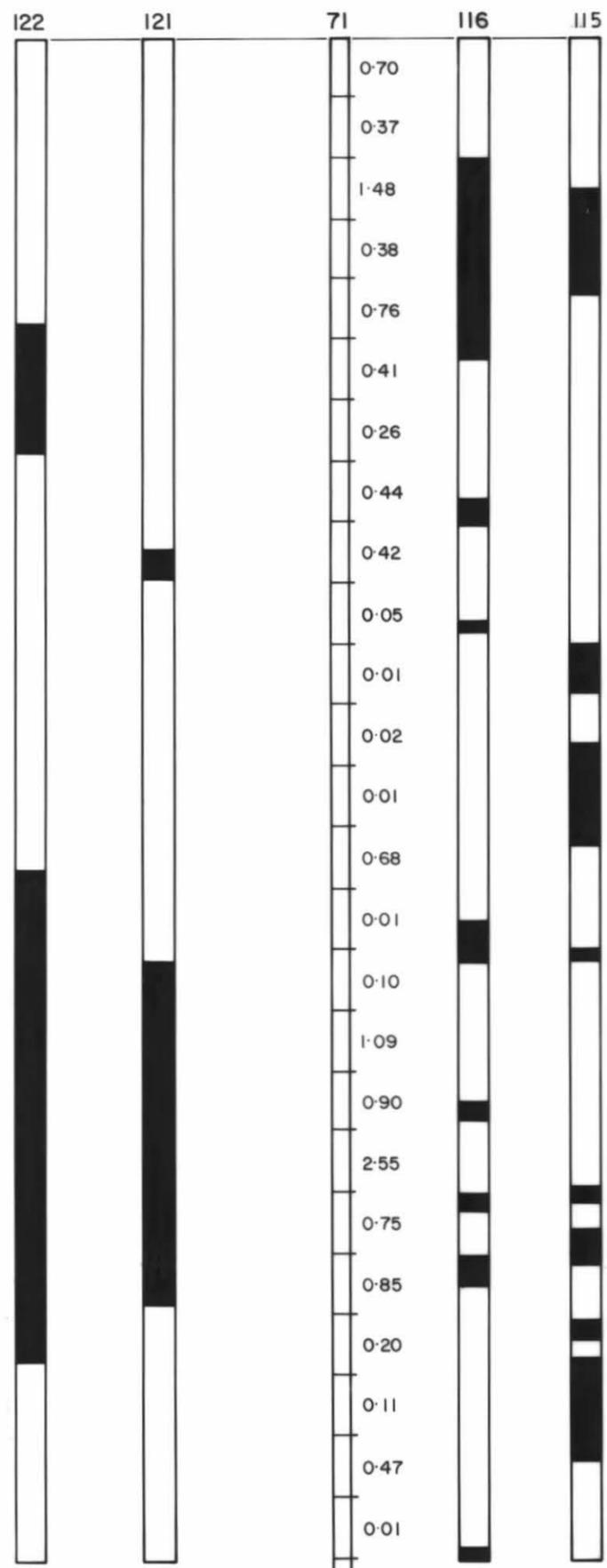
5400N

5100E

03-4931

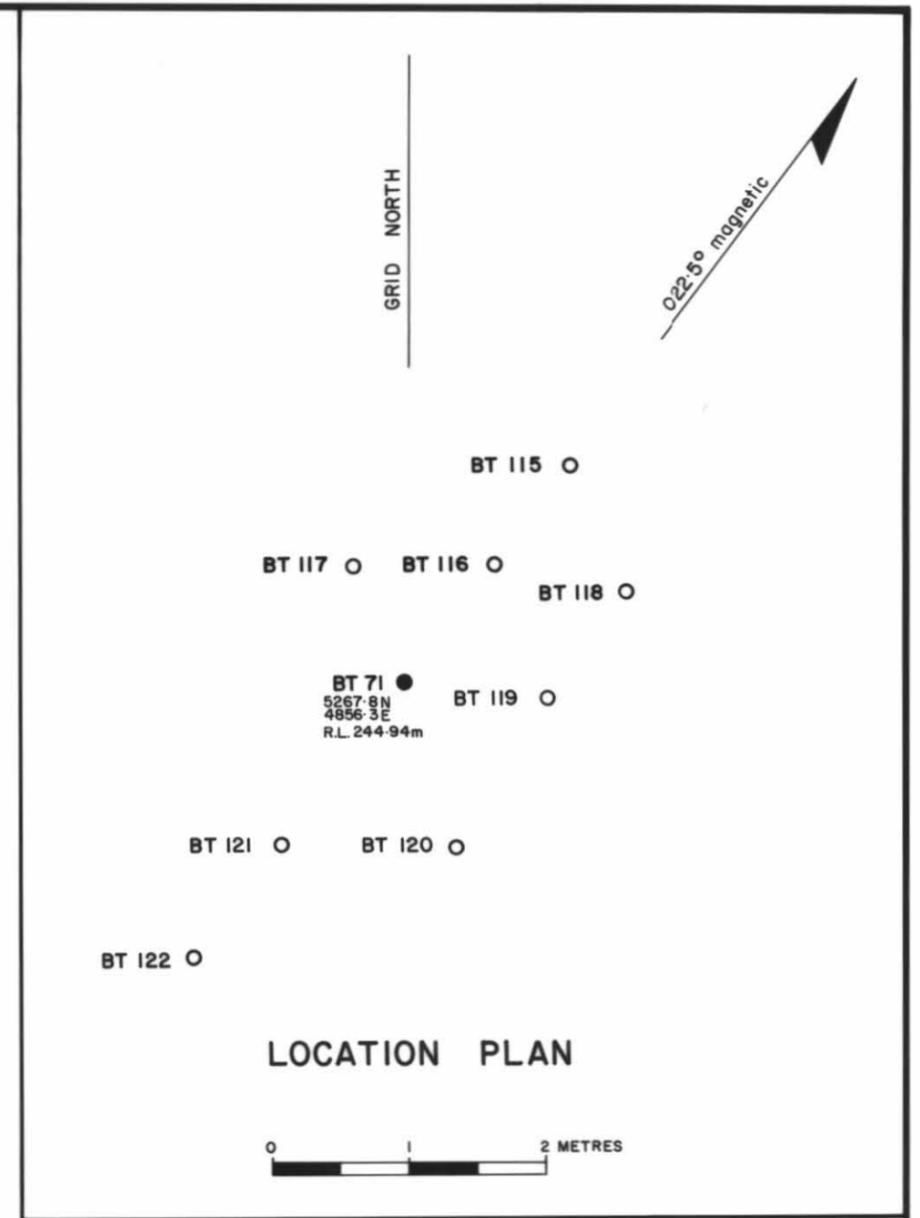
| | |
|----------------------------------|---------------|
| RENISON LIMITED | |
| ALTERATION AND ROOF STRUCTURE | |
| BT.116 | |
| GEOLOGIST: A.F.R. | SCALE: 1:1000 |
| E.L. 9/76 ANCHOR | FIGURE 4 |

5 cm



SECTIONS

Hor./Vertical = 2/1
 0 1 2 metres
 Vertical



NOTE:

- i) B.T. 71 BQ hole
 B.T. 115-122 PQ holes.
- ii) Presence of cassiterite in PQ holes is indicated by shading on sections.
- iii) Lithology : Greisen - granite to granite - greisen.

5 cm

03-4931

| | |
|--|-----------------|
| RENISON LIMITED | |
| ANCHOR TIN DEPOSIT BULK SAMPLE No.2 | |
| B.T. 465 | |
| Geologist: A.F. Ross | Date: Aug. 1981 |
| Drawn: T.G.D.S. | Scale: As Shown |
| FIGURE 4 | |

NORTH

SOUTH

Hole No. 65

136

135

134

133

126

125

124

123

64

38 metres

LEGEND

POIMENA ADAMELLITE TYPES

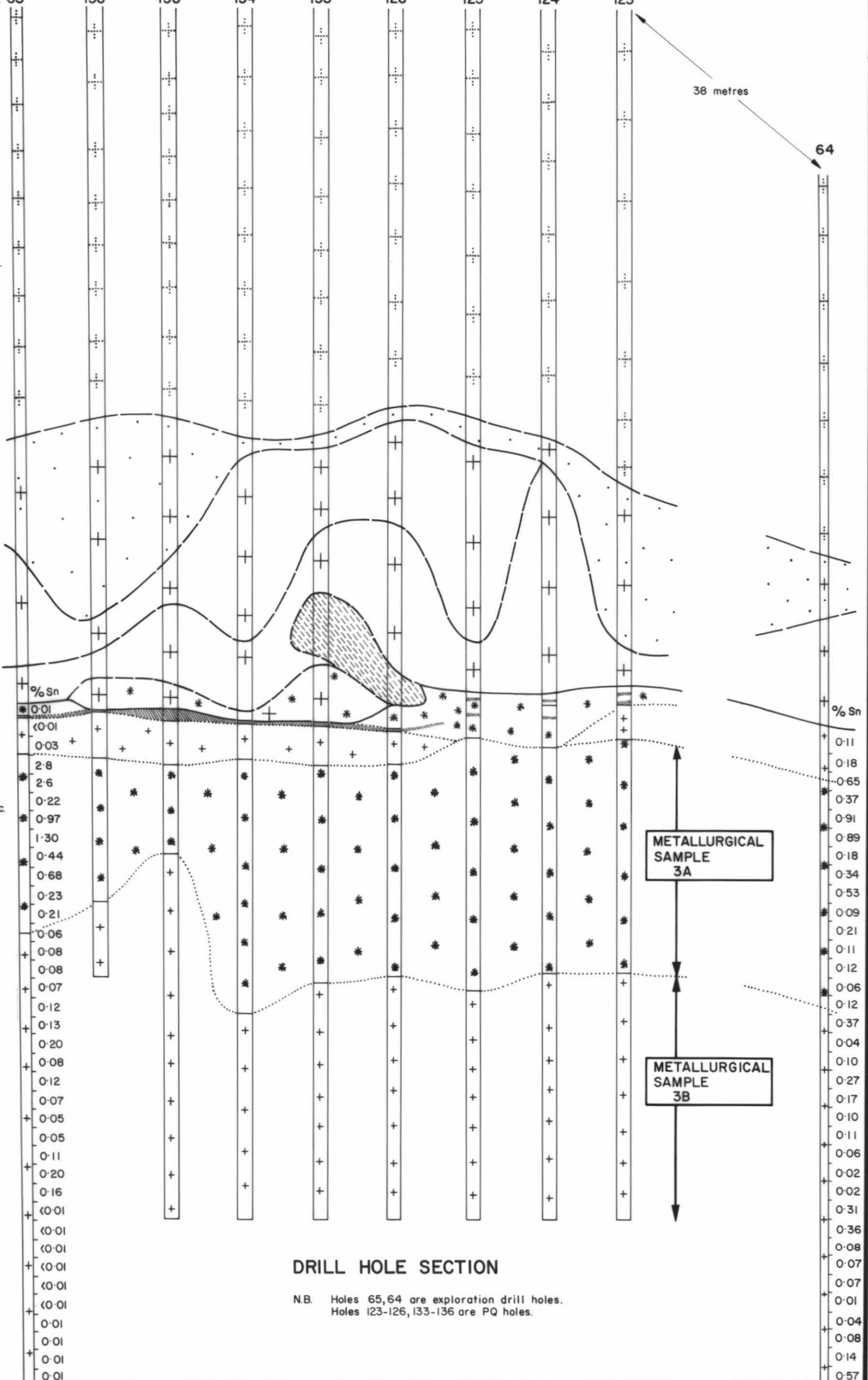
- Non coring in weathered PA.
- Crumbly partially weathered PA.
- Fresh grey PA, minor microgranite.
- Pinkened PA.
- Greisen derived from P.A.

CONTACT ZONE TYPES

- Pink feldspathic pegmatoid rock. Hematite? Cockade textures. Origin unknown.
- Siliceous medium grained greisen. Probably derived from alkali granite.
- Quartz segregations pegmatite.

ANCHOR GRANITE TYPES

- Siliceous granular greisen. Qtz-topaz-mica rock. Medium to coarse grained.
- Greisen-granite. Feldspathic.
- Greisen-granite. Sericitic.



DRILL HOLE SECTION

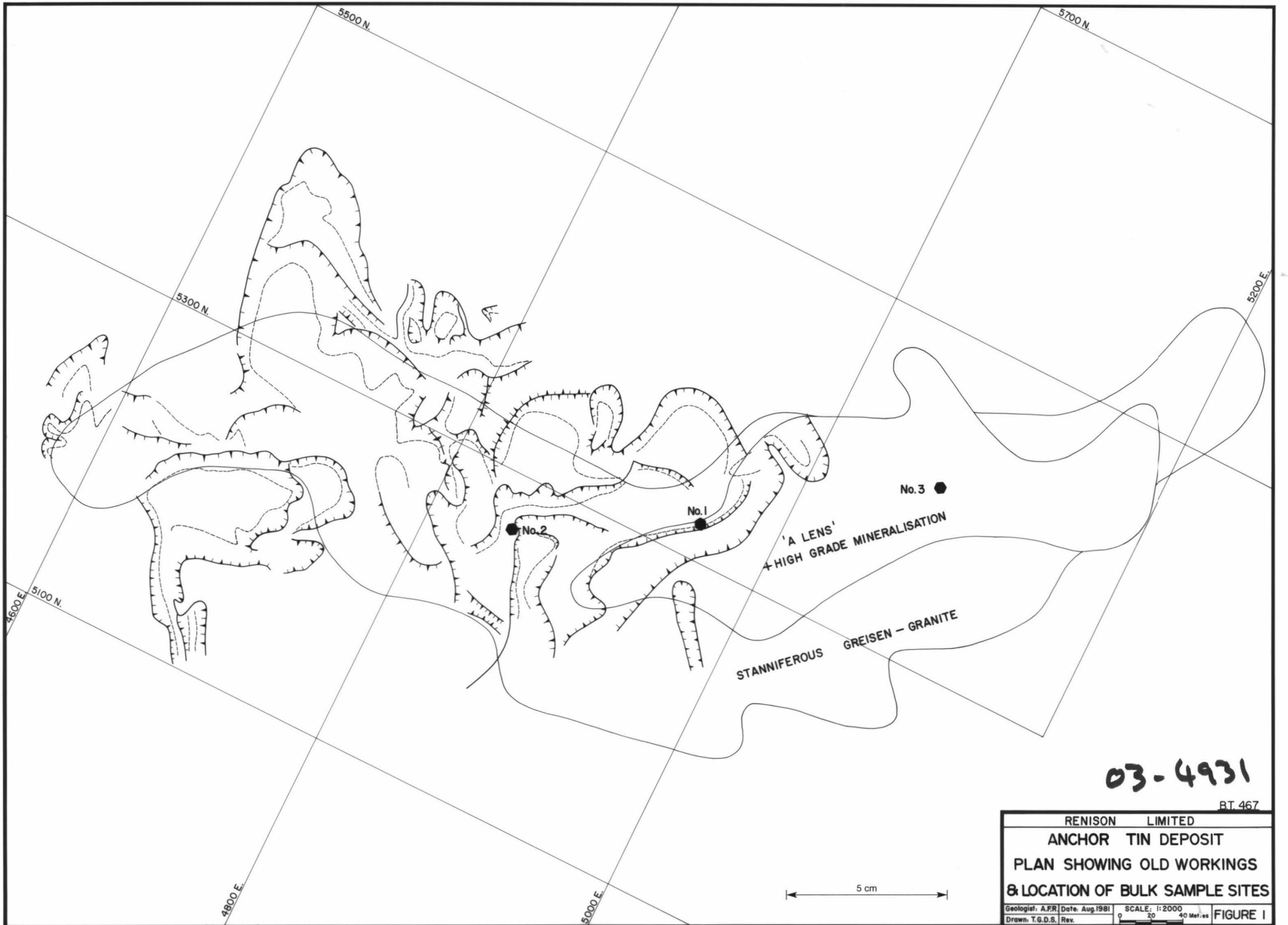
N.B. Holes 65,64 are exploration drill holes. Holes 123-126, 133-136 are PQ holes.

RENISON LIMITED

ANCHOR TIN DEPOSIT
BULK SAMPLE No.3

03-4931

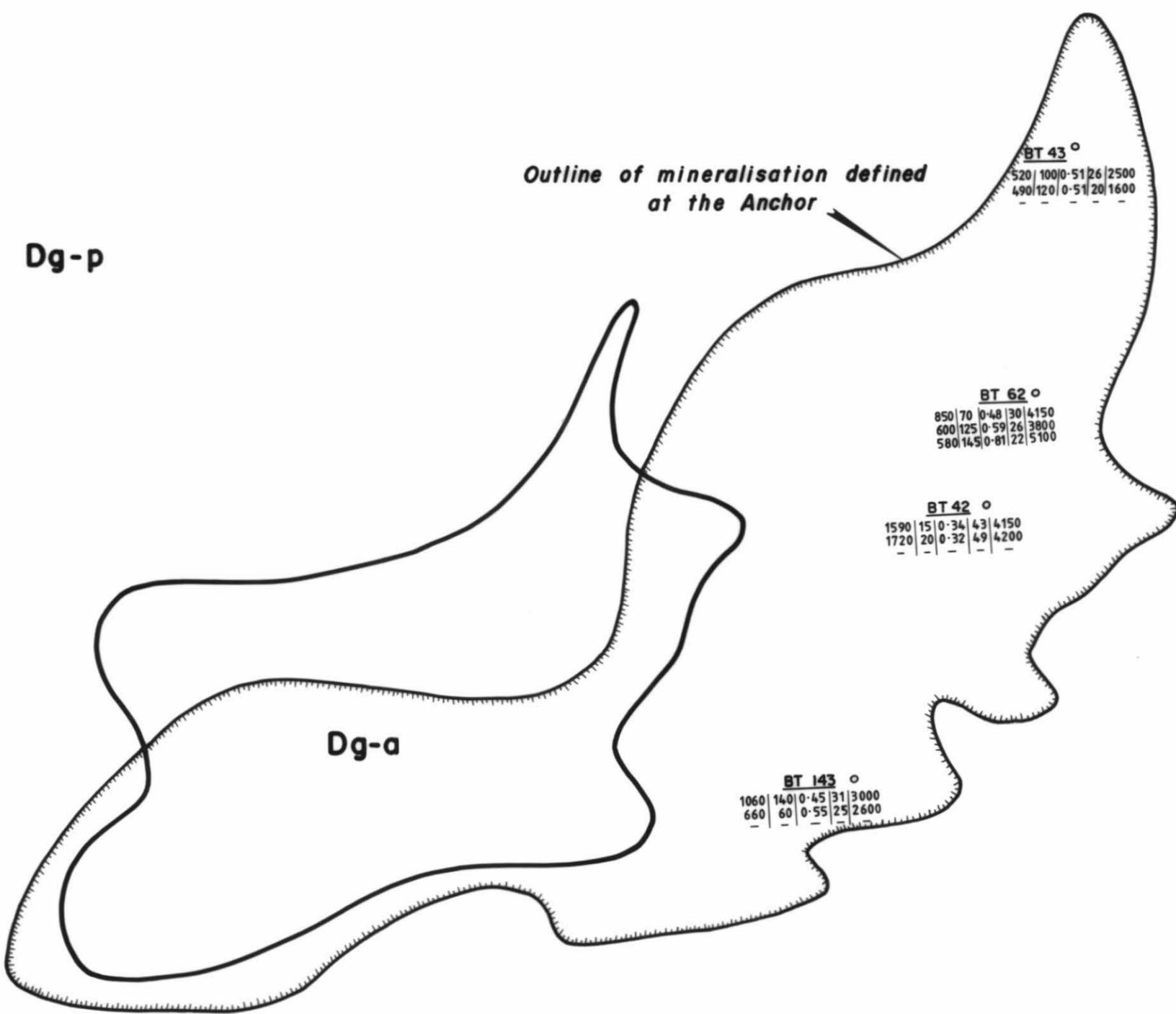
Geologist: A.F. Ross Date: Aug. 1981
Drawn: T.G.D.S. Scale: 1:2000 (vert.)
FIGURE 5



03-4931

BT. 467

| | |
|---------------------------------|-----------------|
| RENISON LIMITED | |
| ANCHOR TIN DEPOSIT | |
| PLAN SHOWING OLD WORKINGS | |
| & LOCATION OF BULK SAMPLE SITES | |
| Geologist: A.F.R. | Date: Aug. 1981 |
| Drawn: T.G.D.S. | Rev. |
| SCALE: 1:2000 | FIGURE 1 |



Outline of mineralisation defined at the Anchor

Dg-p

Dg-p

Dg-a

Dg-p

BT 43 °
520 | 100 | 0.51 | 26 | 2500
490 | 120 | 0.51 | 20 | 1600

BT 62 °
850 | 70 | 0.48 | 30 | 4150
600 | 125 | 0.59 | 26 | 3800
580 | 145 | 0.81 | 22 | 5100

BT 42 °
1590 | 15 | 0.34 | 43 | 4150
1720 | 20 | 0.32 | 49 | 4200

BT 143 °
1060 | 140 | 0.45 | 31 | 3000
660 | 60 | 0.55 | 25 | 2600

BT 96 °
510 | 90 | 0.43 | 29 | 1300
540 | 130 | 0.49 | 19 | 750
510 | 140 | 0.48 | 24 | 850

BT 72 °
800 | 70 | 0.31 | 20 | -
- | - | - | - | -

LEGEND

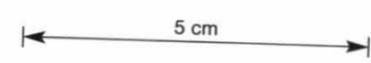
Order of Values

Rb | Sr | Ca | Ga | F
10m above contact
20m above contact
50m above contact

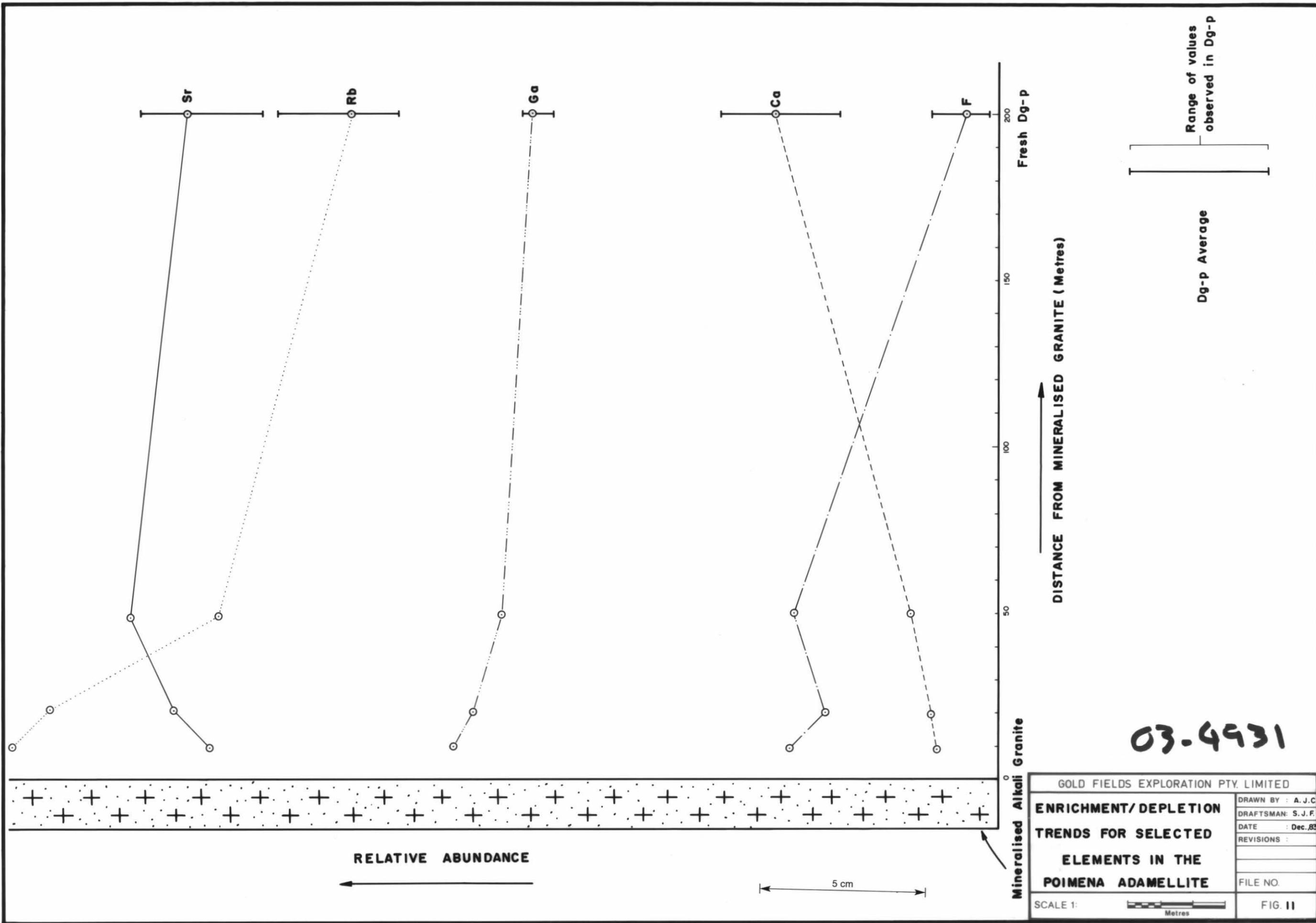
Rb average for Dg-p = 348 p.p.m.
Sr average for Dg-p = 102 p.p.m.
Ca average for Dg-p = 1.69 %
Ga average for Dg-p = 17 p.p.m.
F average for Dg-p = 880 p.p.m.

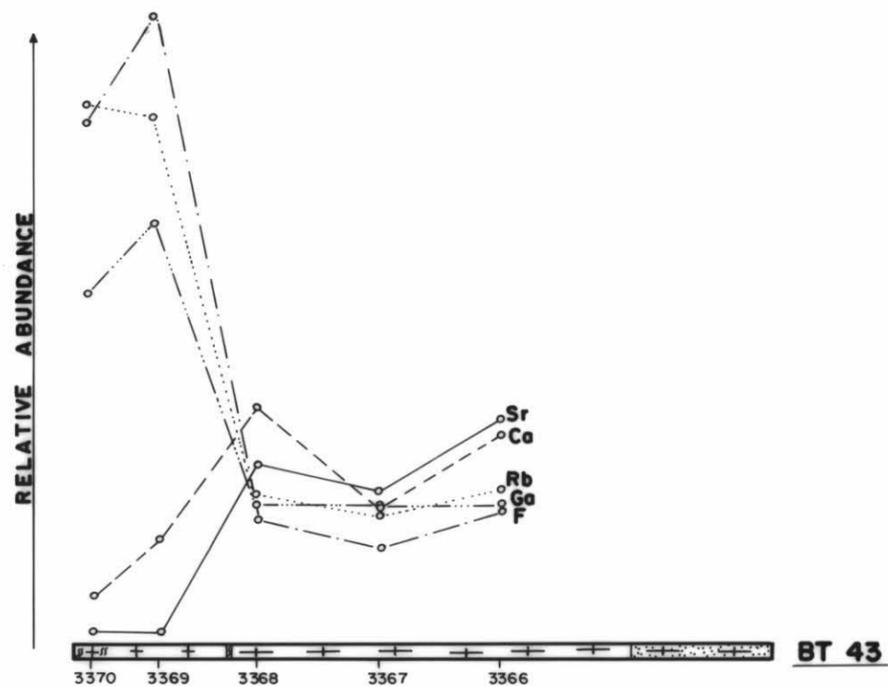
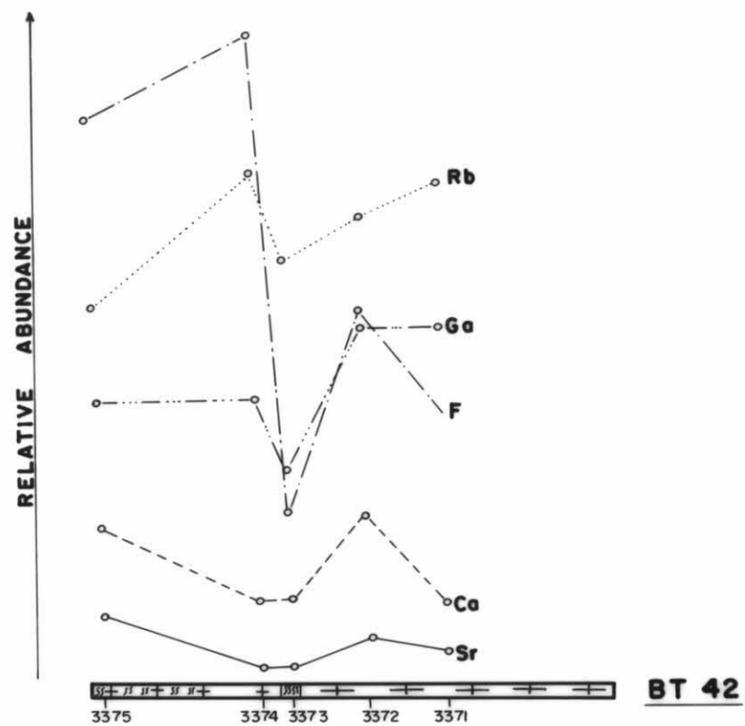
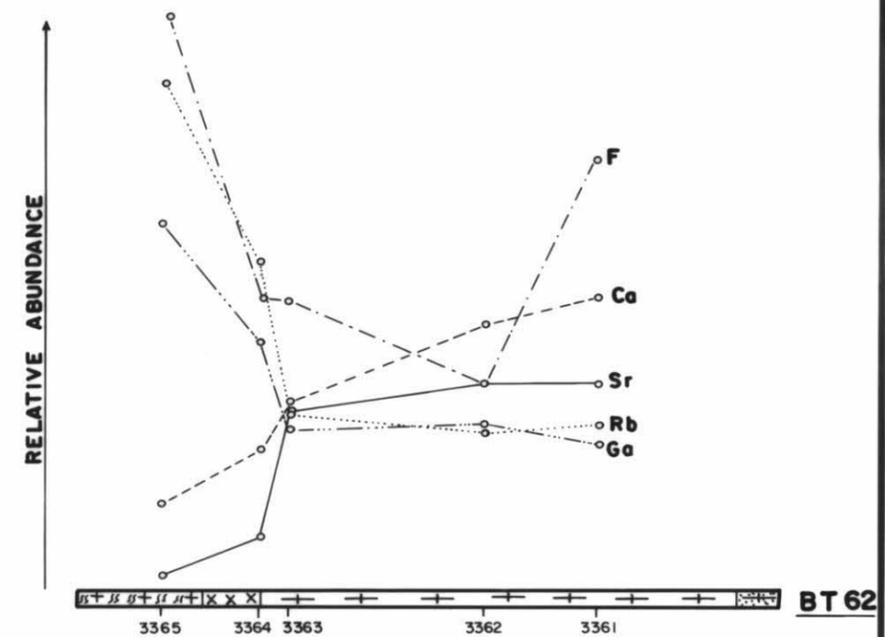
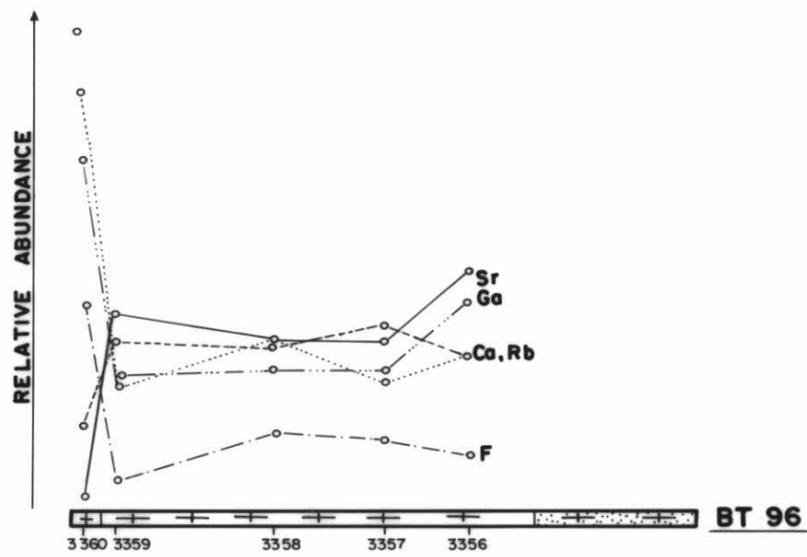
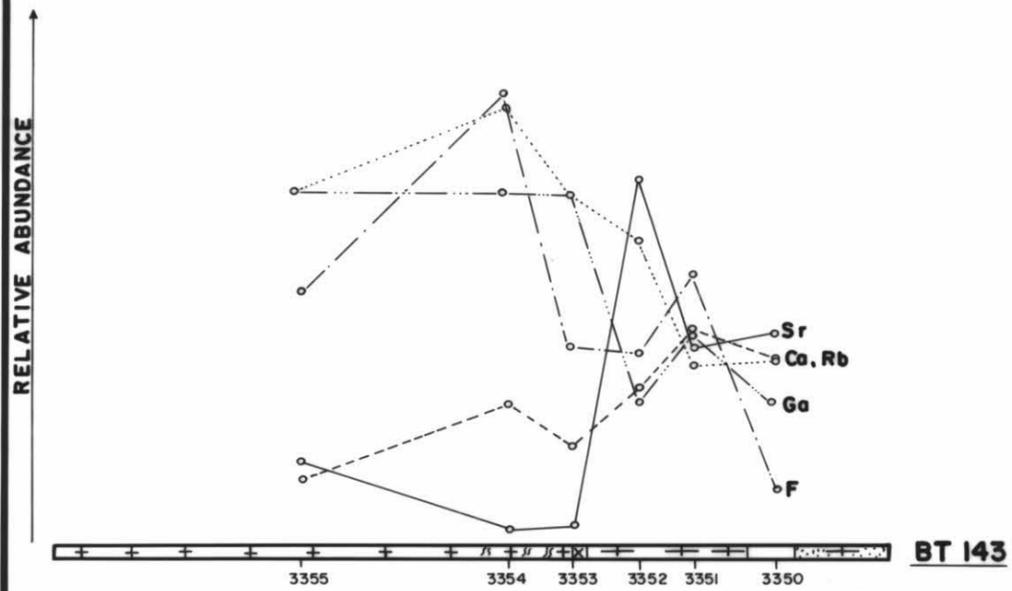
Rb, Sr, Ga & F values in p.p.m.
Ca values in %
- no assay taken

03-4931



| | |
|---|-------------------|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| SELECTED ELEMENT HALO GEOCHEMISTRY OF ANCHOR MINE AREA DRILL HOLE PLAN | DRAWN BY : A.J.C. |
| | DRAFTSMAN: S.J.F. |
| | DATE : Dec., 83 |
| | REVISIONS : |
| SCALE 1: | FILE NO. |
| | FIG. 10 |





- LEGEND**
- POIMENA ADAMELLITE
 - POIMENA ADAMELLITE - WEATHERED
 - FINE GRAINED POIMENA ADAMELLITE
 - PEGMATITE
 - ALKALI GRANITE
 - ALKALI GRANITE - ALTERED

03-4931

5 cm

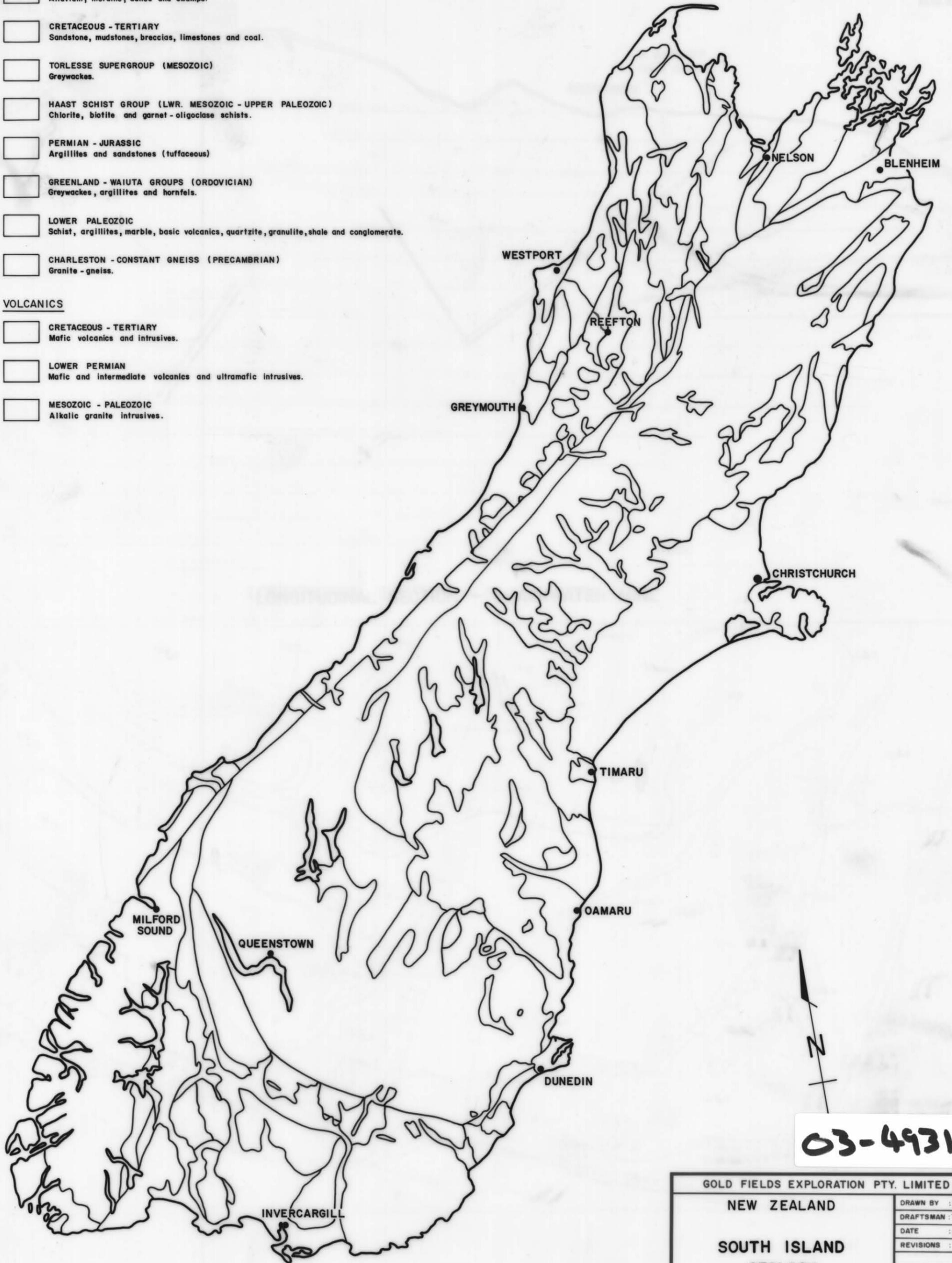
| | |
|--|-------------------|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| SELECTED ELEMENT HALO GEOCHEMISTRY OF ANCHOR MINE AREA DRILL CORE | DRAWN BY : A.J.C. |
| | DRAFTSMAN: S.J.F. |
| | DATE : Dec.83 |
| | REVISIONS : |
| | FILE NO. |
| SCALE 1:1000 | FIG. 9 |

SEDIMENTARY AND METAMORPHIC SEQUENCES

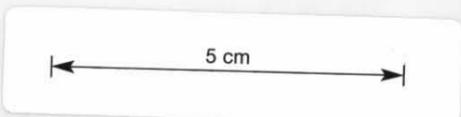
- QUATERNARY
Alluvium, moraine, dunes and swamps.
- CRETACEOUS - TERTIARY
Sandstone, mudstones, breccias, limestones and coal.
- TORLESSE SUPERGROUP (MESOZOIC)
Greywackes.
- HAAST SCHIST GROUP (LWR. MESOZOIC - UPPER PALEOZOIC)
Chlorite, biotite and garnet - oligoclase schists.
- PERMIAN - JURASSIC
Argillites and sandstones (tuffaceous)
- GREENLAND - WAIUTA GROUPS (ORDOVICIAN)
Greywackes, argillites and hornfels.
- LOWER PALEOZOIC
Schist, argillites, marble, basic volcanics, quartzite, granulite, shale and conglomerate.
- CHARLESTON - CONSTANT GNEISS (PRECAMBRIAN)
Granite - gneiss.

VOLCANICS

- CRETACEOUS - TERTIARY
Mafic volcanics and intrusives.
- LOWER PERMIAN
Mafic and intermediate volcanics and ultramafic intrusives.
- MESOZOIC - PALEOZOIC
Alkalic granite intrusives.



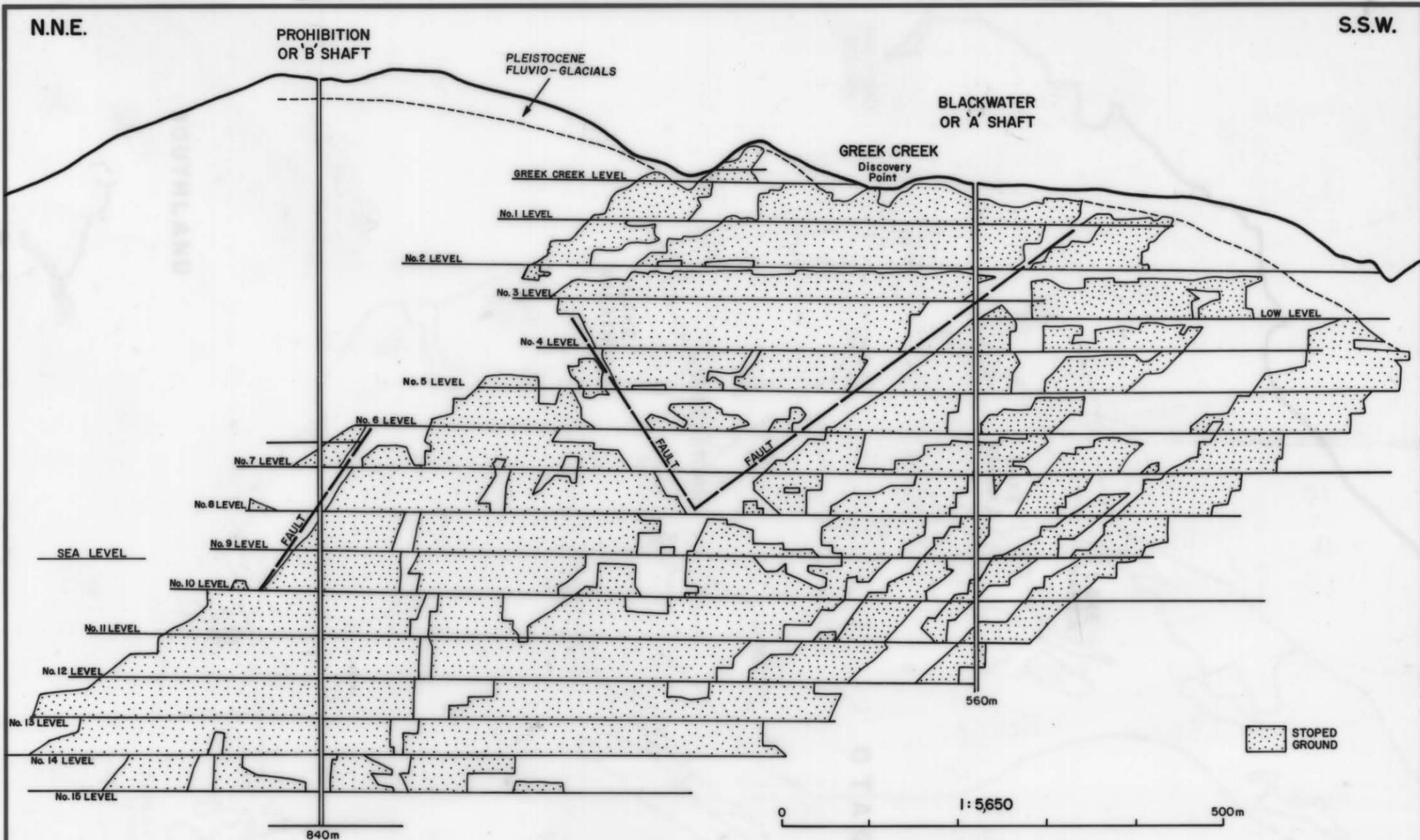
03-4931



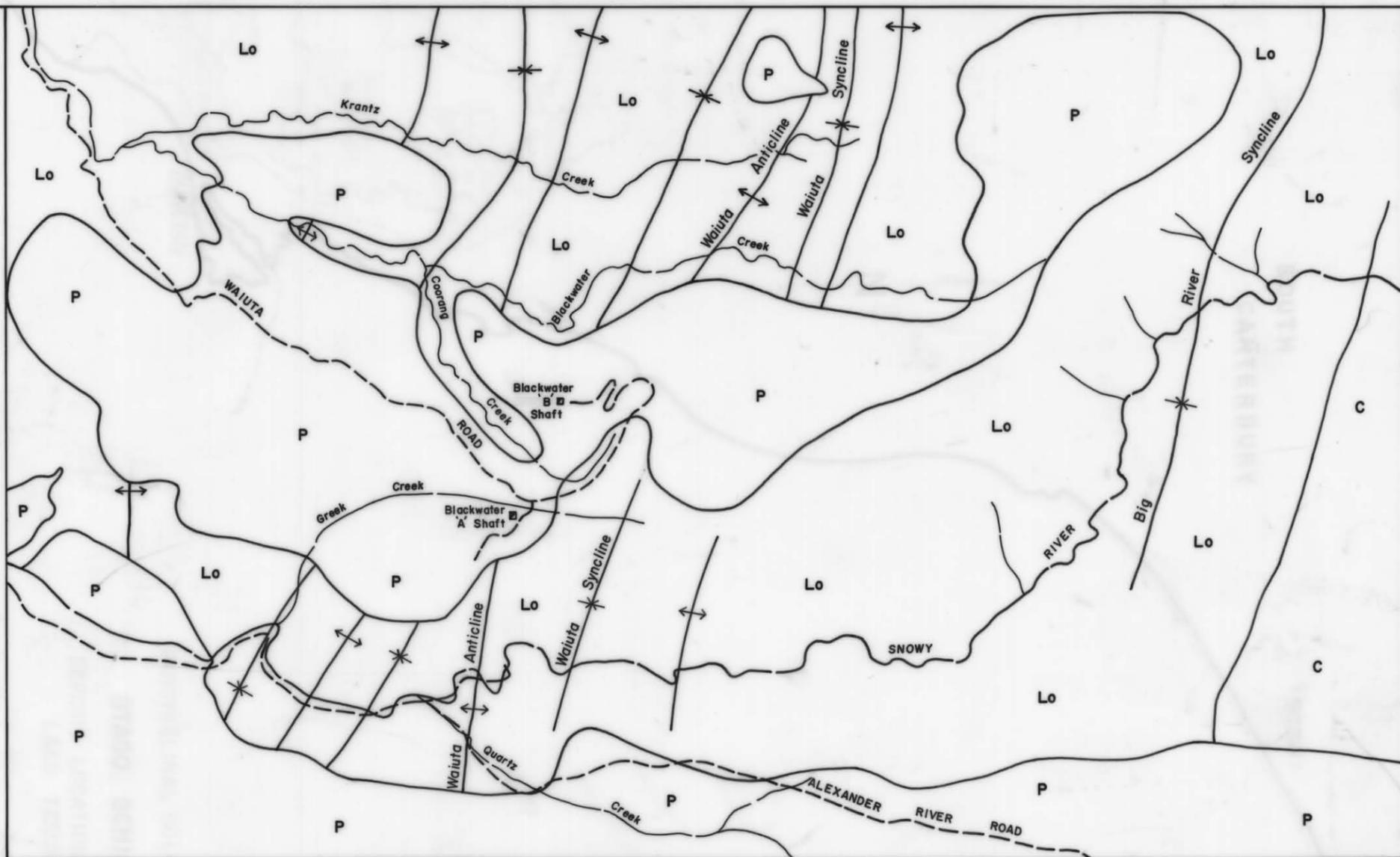
| | |
|--------------------------------------|--|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| NEW ZEALAND | |
| SOUTH ISLAND GEOLOGY | |
| DRAWN BY : A.C. | |
| DRAFTSMAN : T.G.D.S. | |
| DATE : Aug '86 | |
| REVISIONS : | |
| FILE NO. | |
| SCALE 1:2,000,000 | |
| FIG. 2 | |

03-4931

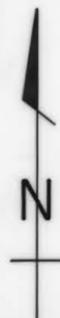
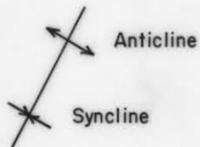
5 cm



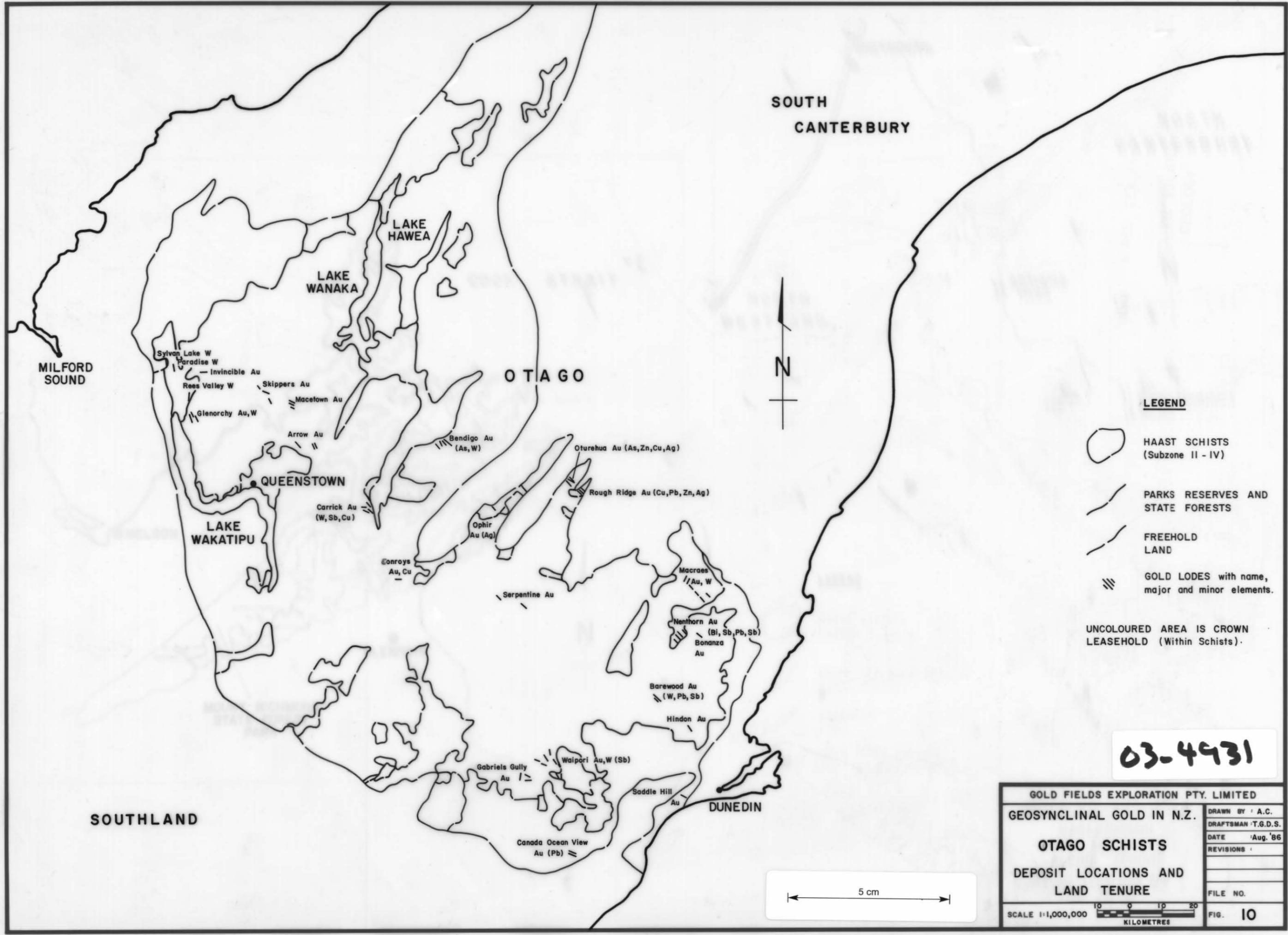
LONGITUDINAL SECTION - BLACKWATER MINE



- P** Pleistocene Fluvio-glacials
-Silts and gravels.
- C** Cretaceous Rahu Suite
-Biotite granodiorite
2 mica granite.
- Lo** Lower Ordovician Greenland Group
-Greywacks and argillites



| | |
|--|------------|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| GEOLOGY AND LONGITUDINAL SECTION OF THE BLACKWATER MINE | |
| DRAWN BY : A.C. | |
| DRAFTSMAN : T.G.D.S. | |
| DATE : Aug '86 | |
| REVISIONS : | |
| FILE NO. | 7 |
| SCALE 1:31,680 | METRES |



SOUTH
CANTERBURY

LAKE
HAWEA

LAKE
WANAKA

OTAGO

MILFORD
SOUND

LAKE
WAKATIPU

QUEENSTOWN

DUNEDIN

SOUTHLAND

LEGEND

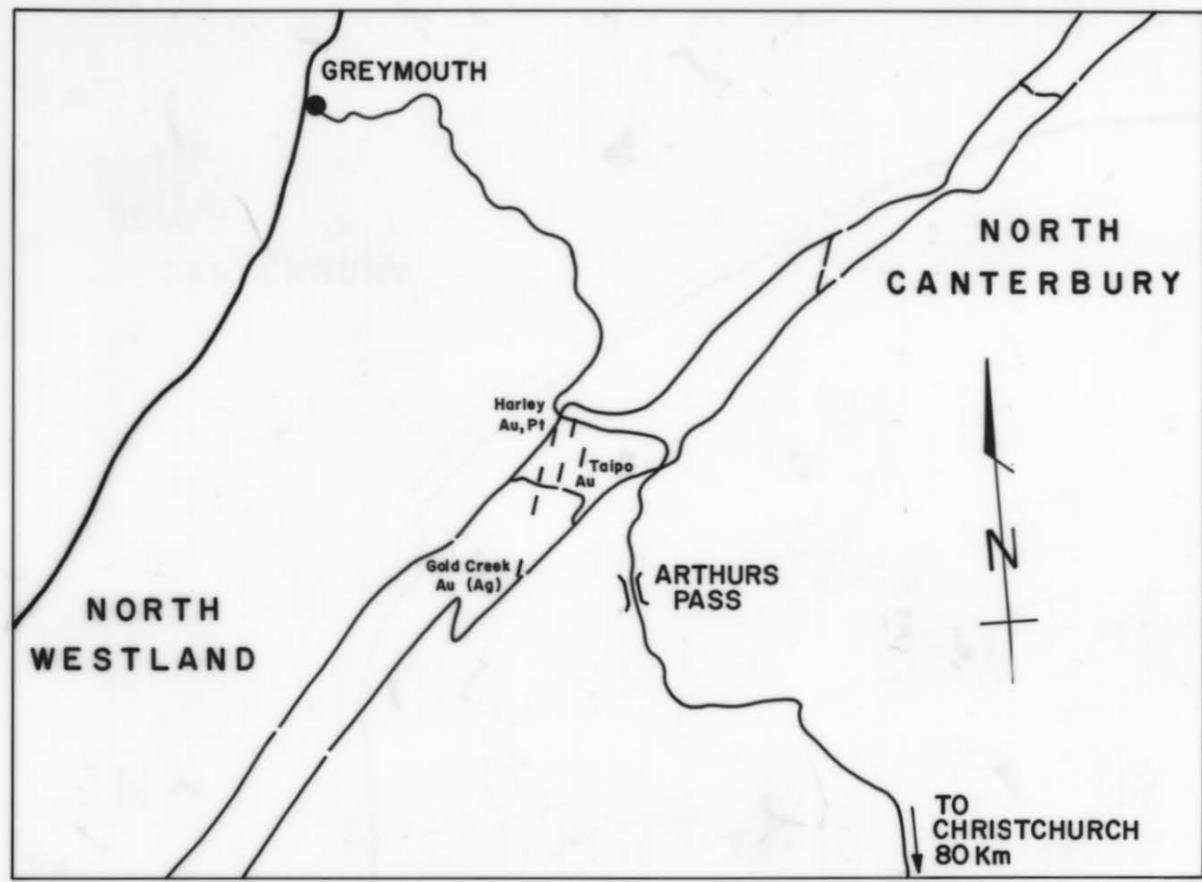
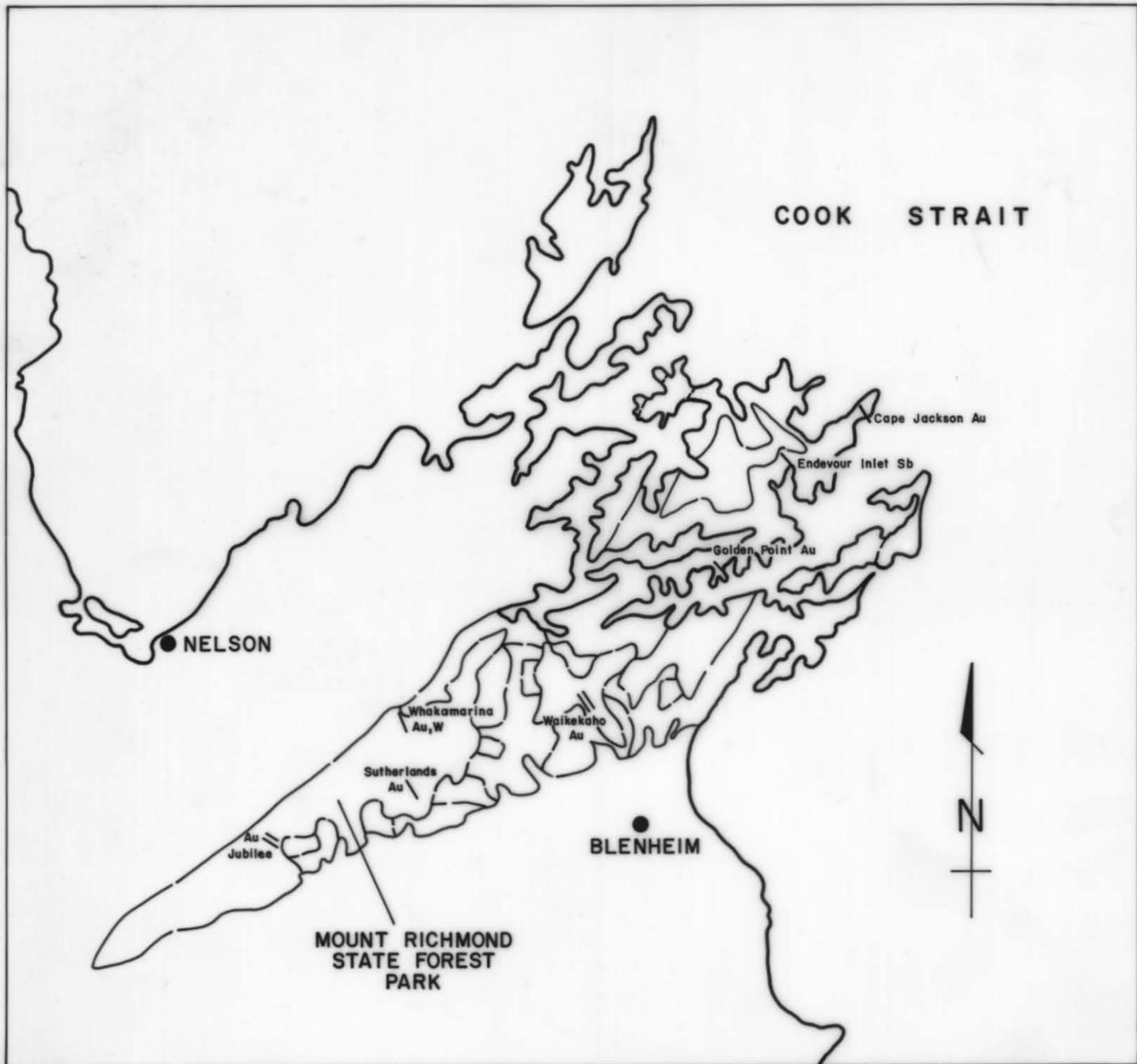
-  HAAST SCHISTS (Subzone II - IV)
-  PARKS RESERVES AND STATE FORESTS
-  FREEHOLD LAND
-  GOLD LODES with name, major and minor elements.

UNCOLOURED AREA IS CROWN LEASEHOLD (Within Schists).

03-4931

| | |
|---|---------------------|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| GEOSYNCLINAL GOLD IN N.Z. | |
| OTAGO SCHISTS | |
| DEPOSIT LOCATIONS AND LAND TENURE | |
| SCALE 1:1,000,000 | DRAWN BY: A.C. |
|  | DRAFTSMAN: T.G.D.S. |
| | DATE: Aug. '86 |
| | REVISIONS: |
| | FILE NO.: |
| | FIG. 10 |

5 cm



LEGEND

- HAAST SCHISTS (Subzone II - IV)
- PARKS RESERVES AND STATE FORESTS
- FREEHOLD LAND
- GOLD LODES with name, major and minor elements.

UNCOLOURED AREA IS CROWN LEASEHOLD (Within Schists).



03-4931

| | |
|---------------------------------------|---------------------|
| GOLD FIELDS EXPLORATION PTY. LIMITED | |
| GEOSYNCLINAL GOLD IN N.Z. | |
| MARLBOROUGH AND ALPINE SCHISTS | |
| DEPOSIT LOCATIONS AND LAND TENURE | |
| SCALE 1:1,420,000 | DRAWN BY: A.C. |
| | DRAFTSMAN: T.G.D.S. |
| KILLOMETRES | DATE: Aug '86 |
| FIG. 9 | REVISIONS: |
| | FILE NO.: |