03-4918

Tasmanian Mineral Exploration Company Report

Title: Moina, Olivers Hill
Company: PlacerDome

Plans from archive store in Zeehan

Compiled by David Green 4 June 2003.

03_4918

Moina, Olivers Hill

Placer Dome Asia Pacific*
Green, D.

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Moina, Olivers Hill

Placer Dome Asia Pacific*

Green, D.

J.H.C.

5 cm

LEASE BOUNDARY
ORIGINAL
1ST REDUCTION
2ND REDUCTION

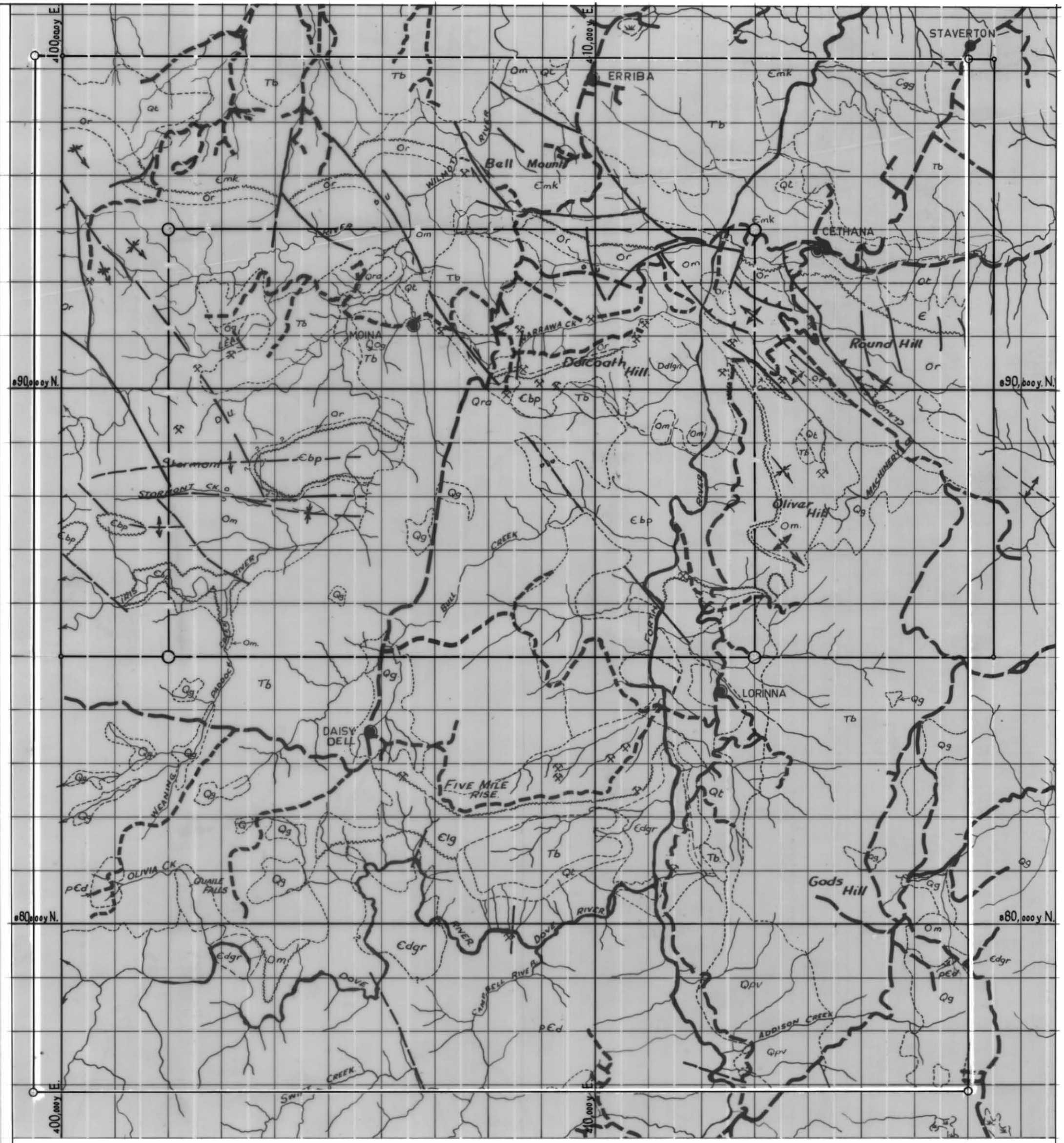
AREAS WORKED 1971-72

M1 ○ D. D. H. LOCATION & Nº.

E. L. 8/65 MOINA AREA

SCALE: 1"=1mile | DATE: June '72

CHECKED: WOR. | MAP 1



5 cm

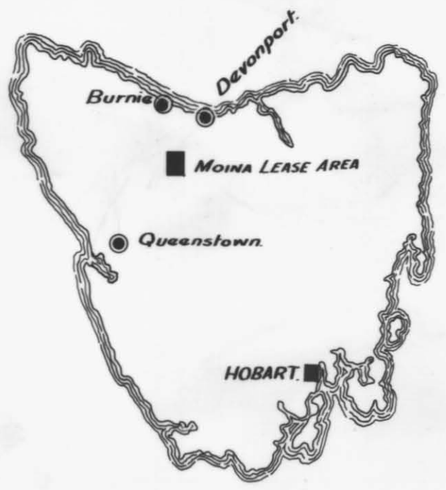
03_4918

Moina, Olivers Hill

Placer Dome Asia Pacific*

E. L. 8/65 MOINA AREA	
SCALE : 1"=1mile	DATE : June '71
CHECKED : K.G.R.	FIG. Nº

J.H.C.





LEGEND

CAINOZOIC

QUATERNARY

Q	Qra	RECENT Alluvium
	Qt	Basalt talus and landslide debris
	Qt	Quartzite and conglomerate talus
	Qg	Marsh deposits and residual gravels
	Qpv.	PLEISTOCENE Varved clays

TERTIARY

T	Ts	Sands clays and conglomerate

PALAEOZOIC

ORDOVICIAN

O	Og	Skarn (Metamorphosed limestone)
	Og	Gordon Limestone
	Om	Moina Sandstone including Caroline Ck. Beds
	Or	Roland Conglomerate

CAMBRIAN

€	€bp	Bull Creek Formation
	€lg	Lorinna Greywacke
	€mk	Minnow Keratophyre

PRECAMB-RIAN	p€	p€d — Dove group

IGNEOUS ROCKS

T	Tb	TERTIARY Basalt
DEVONIAN D	Ddlgr	Dolcoath granite
CAMBRIAN €	€dgr	Dove granite
€?	€s	Serpentinite

- Established boundary — position approximate
- Inferred probable or indefinite boundary
- Unconformity
- Thrust fault (teeth on upper plate)
- Wrench Fault
- Fault with direction of movement
- Mine or prospect
- Principal roads
- Vehicular tracks
- River or creek
- Swamp or marsh
- Anticlinal Axis
- Synclinal Axis
- Anticlinal Axis (position approximate)
- Synclinal Axis (position approximate)

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REGIONAL GEOLOGY MAP OF E.L. 8/65

5 cm

NOTE: MODIFIED AFTER JENNINGS 1963.

1 INCH = 1 MILE

0 1 2 3 4 5

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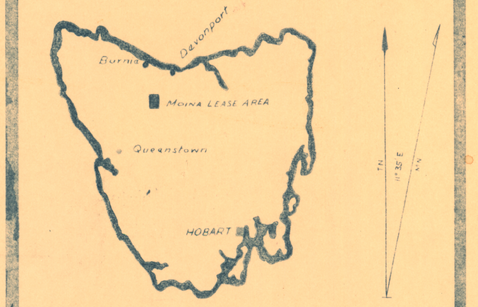
Green, D.



LEGEND

CAINOZOIC — QUATERNARY
- Qra — RECENT Alluvium
- Qt — Basalt talus and landslide debris
- Qt — Quartzite and conglomerate talus
- Qg — Marsh deposits and residual gravels
- Qpv — PLEISTOCENE Varved clays

TERTIARY
- T / Ts — Sands clays and conglomerate

PALAEOZOIC — ORDOVICIAN
- Skarn (Metamorphosed limestone)
- Om — Gordon Limestone
- Om — Moina Sandstone including Caroline Ck Beds
- Or — Roland Conglomerate

CAMBRIAN
- €bp — Bull Creek Formation
- €lg — Lorinna Greywacke
- €mk — Minnow keratophyre

PRECAMBRIAN
- pC / pC-d — Dove group

IGNEOUS ROCKS
- T / Tb — TERTIARY Basalt
- DEVONIAN — D / Ddlgr — Dolcoath granite
- CAMBRIAN — € / €dgr — Dove granite
- €? / €s — Serpentinite

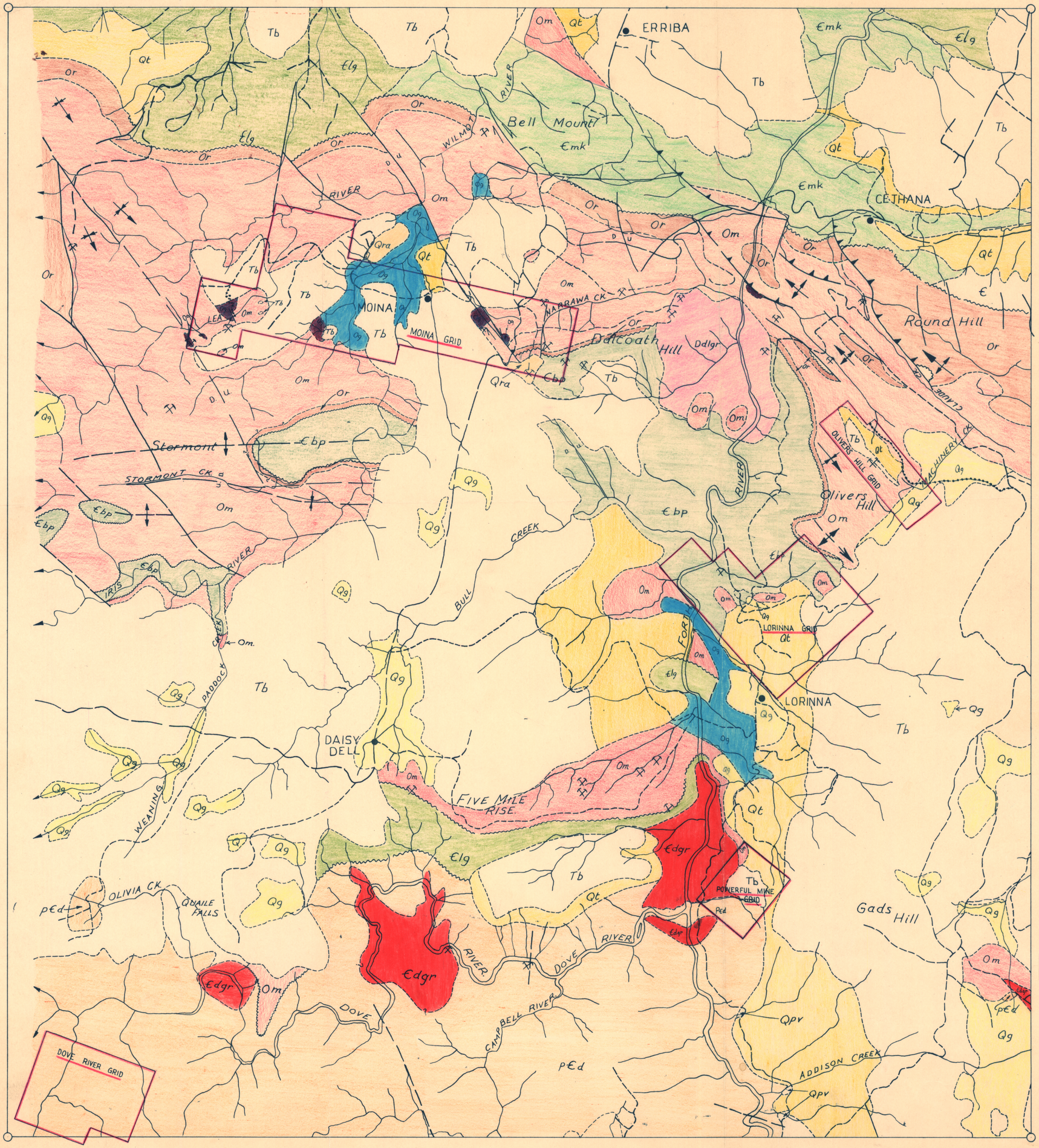
- Established boundary — position approximate
- Inferred probable or indefinite boundary
- Unconformity
- Thrust fault (teeth on upper plate)
- Wrench Fault
- Fault with direction of movement
- Mine or prospect
- Principal roads
- Vehicular tracks
- River or creek
- Roads Constructed 1969-70
- Anticlinal Axis
- Synclinal Axis
- Anticlinal Axis (position approximate)
- Synclinal Axis (position approximate)
- Anomalies related to volcanic rocks (V)
- Main structures axis related to precambrian or palaeozoic formations
- Depth estimates (in tenths of meters below surface) (20)
- Approximated contouring of anomalies related to granitic occurences
- Main magnetic contacts with possible mineralisations
- Magnetic accident (contact or discontinuities)

THE MOUNT LYELL M. & R. COY. LTD.
GEOLOGICAL DEPARTMENT

MOINA E.L. 8/65
REGIONAL GEOLOGY

DRAWN BY R.G.W.
TRACED BY R.G.W.
CHECKED BY B.C.D.
DATE 4-6-70
SCALE 2" = 1 mile

5 cm





LEGEND

CAINOZOIC

QUATERNARY
- Qra — RECENT Alluvium
- Qt — Basalt talus and landslide debris
- Qt — Quartzite and conglomerate talus
- Qg — Marsh deposits and residual gravels
- Qpv — PLEISTOCENE Varved clays

TERTIARY
- Ts — Sands clays and conglomerate

PALAEOZOIC

ORDOVICIAN
- Om — Skarn (Metamorphosed limestone)
- Og — Gordon Limestone
- Om — Moina Sandstone including Caroline Ck Beds
- Or — Roland Conglomerate

CAMBRIAN
- Ebp — Bull Creek Formation
- Elg — Lorinna Greywacke
- Emk — Minnow Keratophyre

PRECAMBRIAN
- pEd — Dove group

IGNEOUS ROCKS
- Tb — TERTIARY Basalt
- Ddlgr — DEVONIAN Dolcoath granite
- Edgr — CAMBRIAN Dove granite
- Es — Serpentinite

Established boundary — position approximate
Inferred probable or indefinite boundary
Unconformity
Thrust fault (teeth on upper plate)
Wrench Fault
Fault with direction of movement

Mine or prospect

Principal roads
Vehicular tracks
River or creek

Roads Constructed 1969-70

Anticlinal Axis
Synclinal Axis
Anticlinal Axis (position approximate)
Synclinal Axis (position approximate)

5 cm

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Placer Dome Asia Pacific*
Green, D.

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GEOLOGICAL DEPARTMENT

MOINA E.L. 8/65
REGIONAL GEOLOGY

DRAWN BY R.G.W.
TRACED BY R.G.W.
CHECKED BY B.C.D.
DATE 4-6-70
SCALE 2" = 1 mile.

MAP. 1.

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GEOLOGICAL PLAN

OF

ROUND MOUNT AREA

SCALE

5 cm

40 AC.

40 AC.

111M 47

4M 49

MAIN ROAD

CLAUDE CREEK

TREES CREEK

MAIN ROAD

MILLSITE (Upper and Lower Level)

MAIN ANTICLINE

SALES ANTICLINE

FALLS ANTICLINE

TRACK

SALES WORKINGS

ROUND HILL WESTERN WORKINGS

No 11 ADIT

No 12 ADIT

No 13 ADIT

No 2 ADIT

No 3 ADIT

No 4 ADIT

No 5 ADIT

No 6 ADIT

No 10 ADIT

No 1 ADIT

No 7 ADIT

No 8 ADIT

No 1A ADIT

WATER RACE

To Sheffield

To Latrina

Outcrops Obscured by Talus

LEGEND

GEOLOGICAL BOUNDARIES

- ESTABLISHED BOUNDARY
- ESTABLISHED BOUNDARY POSITION APPROX.
- FLUVIOGLACIAL DEPOSITS
- MOINA SANDSTONE
- ROLAND CONGLOMERATE

BEDDING

- STRIKE AND DIP OF STRATA
- VERTICAL
- HORIZONTAL
- GENERALISED STRIKE AND DIP OF CRUMBLED OR UNDULATING STRATA
- STRIKE AND DIP OF OVERTURNED STRATA
- DIRECTION AND PLUNGE OF LINEATION

JOINTS

- STRIKE AND DIP OF JOINTS INCLINED
- VERTICAL

FOLDS

- ESTABLISHED ANTICLINAL CREST POSITION ACCURATE SHOWING PLUNGE OR PITCH OF FOLD MEASURED IN A VERTICAL PLANE.
- ESTABLISHED SYNCLINAL TROUGH POSITION ACCURATE SHOWING PLUNGE OR PITCH OF FOLD MEASURED IN A VERTICAL PLANE.
- ESTABLISHED ANTICLINAL CREST POSITION APPROX.
- ESTABLISHED SYNCLINAL TROUGH POSITION APPROX.
- INFERRED PROBABLE CREST OR TROUGH POSITION APPROX.
- INFERRED PROBABLE CREST OR TROUGH-CONCEALED
- MINOR FOLDS SHOWING PLUNGE

FAULTS

- ESTABLISHED FAULT POSITION ACCURATE WITH DIP
- APPROX.
- INFERRED PROBABLE OR INDEFINITE FAULT
- INFERRED PROBABLE OR INDEFINITE FAULT CONCEALED
- FAULT SHOWING RELATIVE HORIZONTAL MOVEMENT
- HIGH ANGLE FAULT
- THRUST OR REVERSE FAULT (TEETH ON UPPER PLATE) WITH DIP OF FAULT PLANE
- MINOR FAULTS SHOWING DIP OF FAULT PLANE
- SHEAR ZONE
- DIAMOND DRILL HOLE WITH NUMBER
- CONTOURS (25' intervals)
- LEASE BOUNDARIES
- SECTION LINES

NOTE

ALL STRUCTURE IN UNDERGROUND EXPOSURES IS INDICATED BY FINER PRINT.

DEPARTMENT OF MINES — TASMANIA		
FIELD WORK	T. B. JENNINGS	MAP. GEOLOGIST
PLAN		DRAUGHTSMAN
DATE	21 AUG. 1953	

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Moina, Olivers Hill

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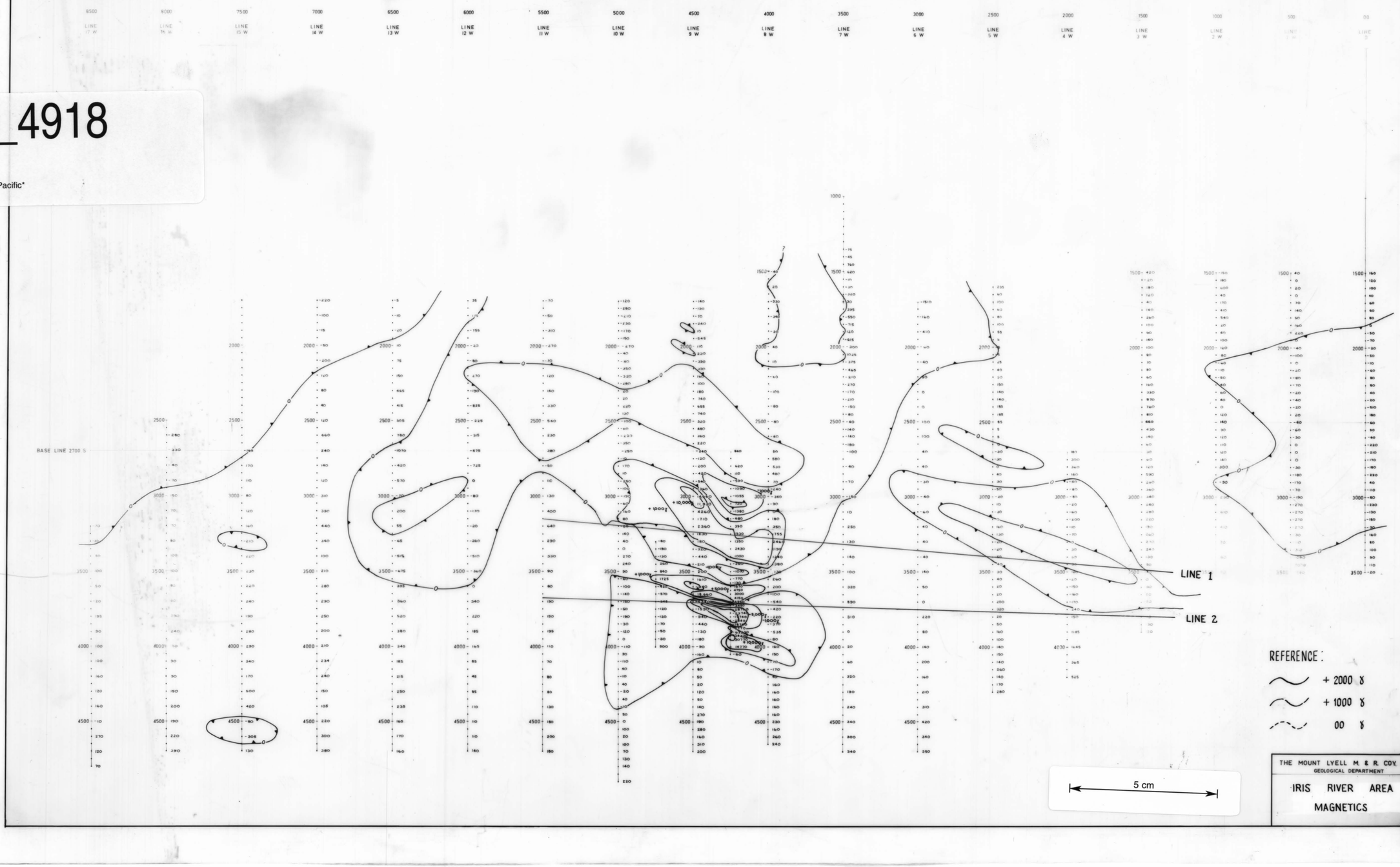
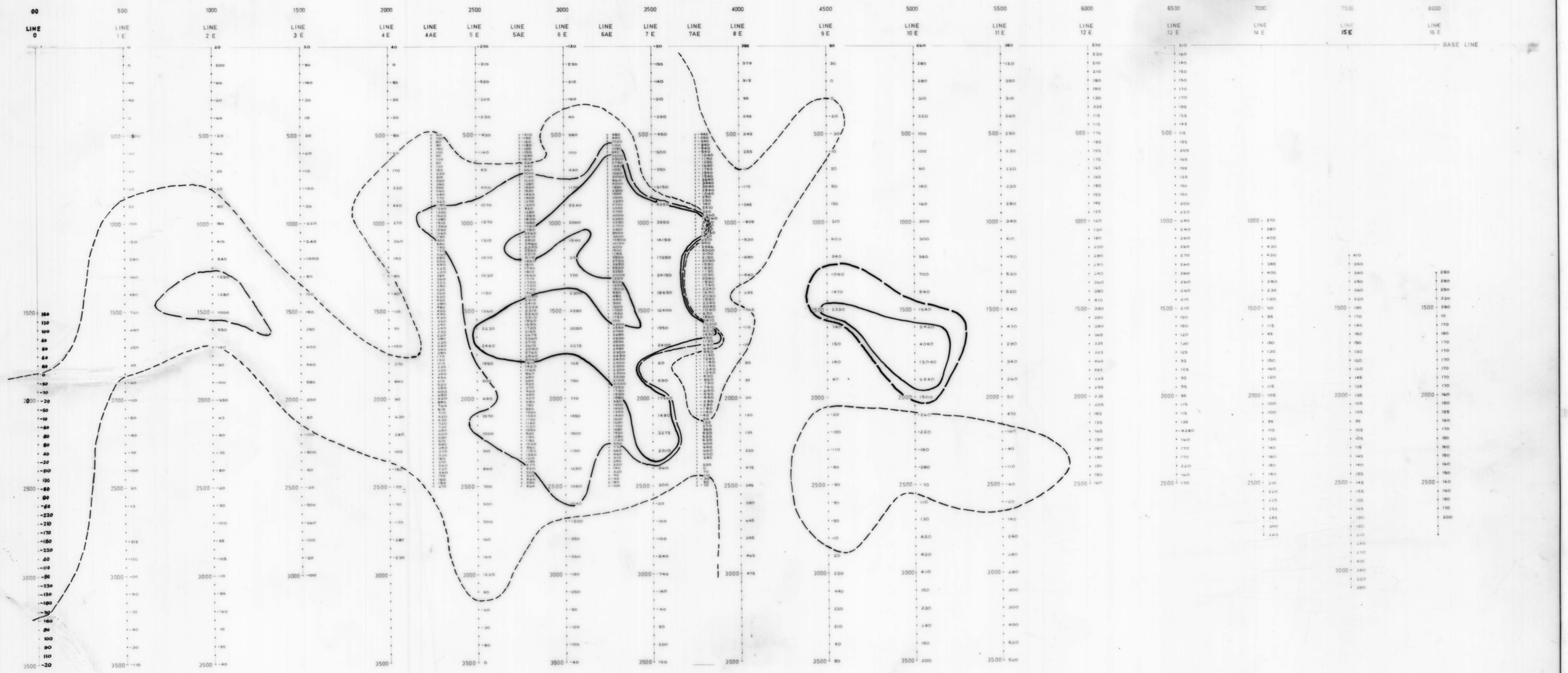
Green, D.





KOR.? SHOW TEETH ON CONTOURS ?

REFERENCE:

+ 2000 ɣ

+ 1000 ɣ

00 ɣ

5 cm

Magnetic North

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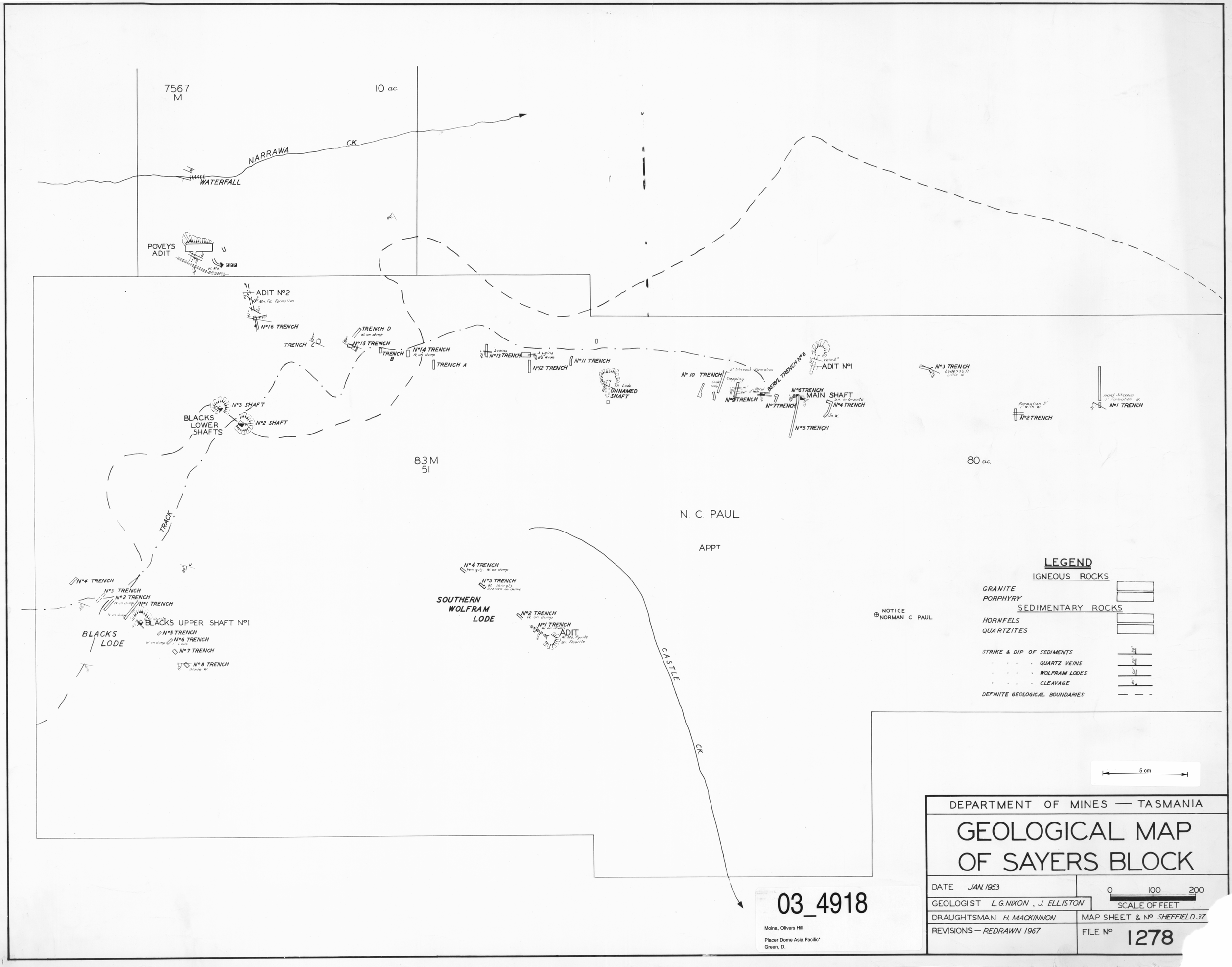
GEOLOGICAL DEPARTMENT

MOINA SHEET 2
MAGNETICS

DRAWN BY H.F.F.
TRACED BY H.F.F.
CHECKED BY [illegible]
DATE 7/8/62
SCALE 200'=1"

FIG.18.



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DEPARTMENT OF MINES — TASMANIA

GEOLOGICAL MAP OF SAYERS BLOCK

DATE JAN. 1953	0 100 200 SCALE OF FEET
GEOLOGIST L.G. NIXON, J. ELLISTON	
DRAUGHTSMAN H. MACKINNON	MAP SHEET & Nº SHEFFIELD 37
REVISIONS — REDRAWN 1967	FILE Nº 1278

7567
M

10 ac

NARRAWA CK

WATERFALL

POVEYS ADIT

ADIT Nº2
Mn. Fe. formation

Nº16 TRENCH

TRENCH C

TRENCH D
W. on dump

Nº15 TRENCH

TRENCH B

Nº14 TRENCH
N. on dump

TRENCH A

3 veins
Nº13 TRENCH

3 veins
25' wide

Nº12 TRENCH

Nº11 TRENCH

N. Lode
UNNAMED SHAFT

Nº 10 TRENCH

Schist Formation

Capping
Loose only

Nº9 TRENCH

BERYL TRENCH Nº8

Nº7 TRENCH

Nº6 TRENCH

ADIT Nº1
Vein 2"

Nº5 TRENCH

MAIN SHAFT
3m in Granite

Nº4 TRENCH
35m W.

Nº5 TRENCH

Nº3 TRENCH
Lode 3-5 ft
Little W.

Formation 3'
W. of N.

Nº2 TRENCH

Hard Siliceous
Formation 14'

Nº1 TRENCH

BLACKS LOWER SHAFTS

Nº3 SHAFT

Nº2 SHAFT

TRACK

83M
51

80 ac.

N C PAUL

APPT

Nº4 TRENCH
Vein qtz. W. on dump

Nº3 TRENCH
N. Vein qtz.
Greisen on dump

SOUTHERN WOLFRAM LODE

Nº2 TRENCH
W. on dump

Nº1 TRENCH
W. on dump

ADIT
W. Mn. Pyrite
Bl. Fluorite

CASTLE CK.

Nº4 TRENCH

Nº3 TRENCH

Nº2 TRENCH
W. on dump

Nº1 TRENCH
W. on dump

BLACKS UPPER SHAFT Nº1

BLACKS LODE

Nº5 TRENCH
W. on dump

Nº6 TRENCH
1' c. lode

Nº7 TRENCH

Nº8 TRENCH
Dioute W.

NOTICE
NORMAN C PAUL

LEGEND

IGNEOUS ROCKS

GRANITE

PORPHYRY

SEDIMENTARY ROCKS

HORNFELS

QUARTZITES

STRIKE & DIP OF SEDIMENTS

QUARTZ VEINS

WOLFRAM LODES

CLEAVAGE

DEFINITE GEOLOGICAL BOUNDARIES

5 cm

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Moina, Olivers Hill

Placer Dome Asia Pacific*
Green, D.

DEPARTMENT OF MINES — TASMANIA

GEOLOGICAL MAP OF SAYERS BLOCK

DATE JAN. 1953

GEOLOGIST L.G. NIXON, J. ELLISTON

DRAUGHTSMAN H. MACKINNON

REVISIONS — REDRAWN 1967

0 100 200
SCALE OF FEET

MAP SHEET & Nº SH

FILE Nº 12

GEOLOGICAL MAP OF SAYERS BLOCK

SCALE
0 100 200 300 400 500 FT.
1 IN. = 100 FT.

7567 M

10 ac.

NARRAWA CK

WATERFALL

POVEYS ADIT

ADIT No2

No16 TRENCH

TRENCH C

TRENCH D

No15 TRENCH

TRENCH

No14 TRENCH

TRENCH A

No13 TRENCH

No12 TRENCH

No11 TRENCH

UNNAMED SHAFT

No10 TRENCH

No9 TRENCH

No8 TRENCH

No7 TRENCH

MAIN SHAFT

No4 TRENCH

No5 TRENCH

ADIT No1

No3 TRENCH

No2 TRENCH

No1 TRENCH

No3 SHAFT

No2 SHAFT

BLACKS LOWER SHAFTS

83M 51

80 ac

N. C. PAUL

APPT

T.R.A.C.K.

No4 TRENCH

No3 TRENCH

No2 TRENCH

No1 TRENCH

BLACKS UPPER SHAFT No1

BLACKS LODE

No5 TRENCH

No6 TRENCH

No7 TRENCH

No8 TRENCH

SOUTHERN WOLFRAM LODE

No4 TRENCH

No3 TRENCH

No2 TRENCH

No1 TRENCH

ADIT

NOTICE
NORMAN C. PAUL

CASTLE CK.

N

LEGEND

IGNEOUS ROCKS

GRANITE

PORPHYRY

SEDIMENTARY ROCKS

HORNFELS

QUARTZITES

STRIKE & DIP OF SEDIMENTS

" " " " QUARTZ VEINS

" " " " WOLFRAM LODES

" " " " CLEAVAGE

DEFINITE GEOLOGICAL BOUNDARIES

5 cm

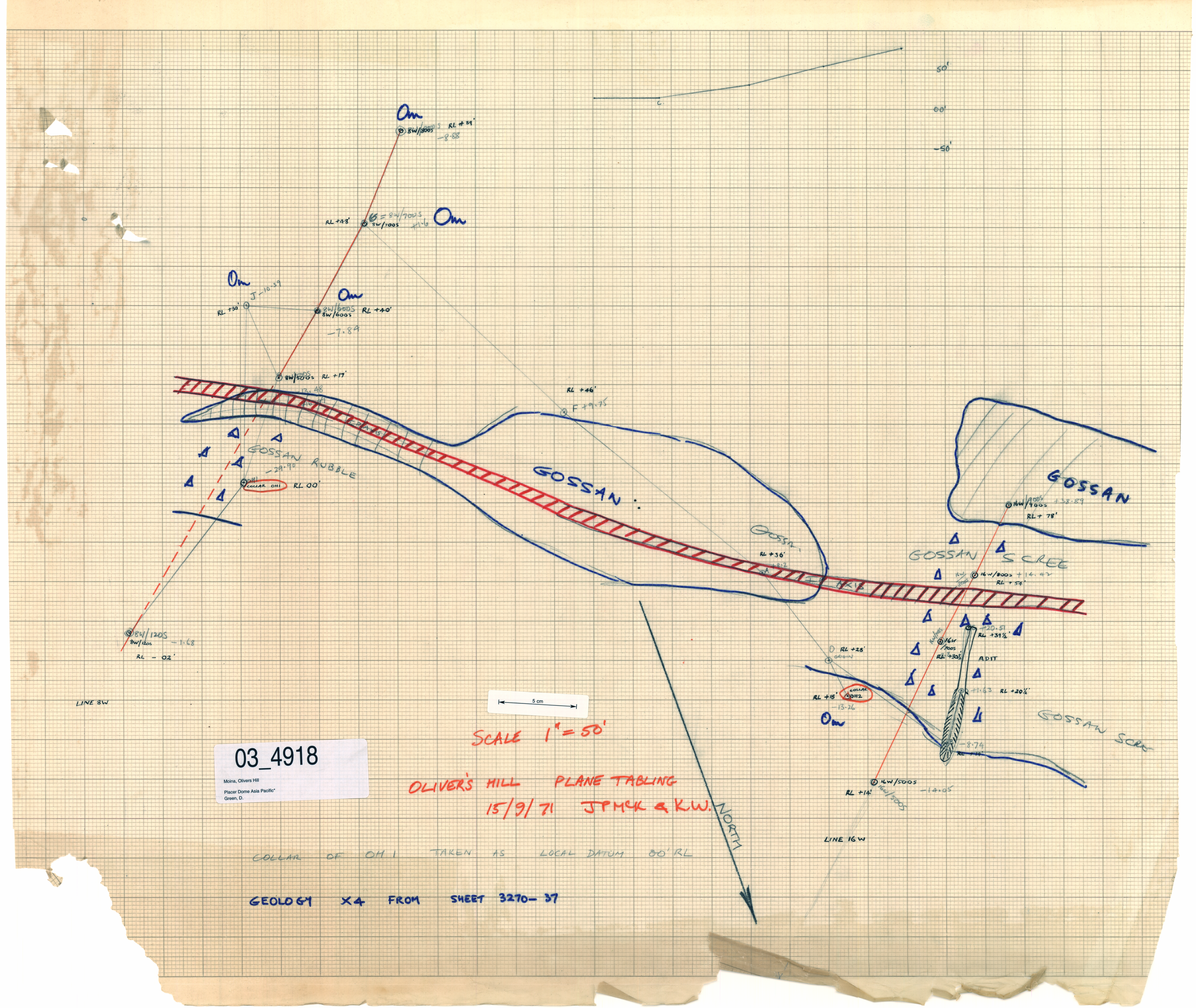
DEPARTMENT OF MINES — TASMANIA		
FIELD WORK	JOHN ELLISTON	REG. GEOLOGIST
FIELD WORK	L. G. NIXON	GEOLOGIST
PLAN	K. J. Rundell	DRAUGHTSMAN
APPROVED		DIRECTOR OF MINES
DATE	7TH JAN. 1953	LORINNA

03_4918

Moina, Olivers Hill

Placer Dome Asia Pacific*
Green, D.

1278-37



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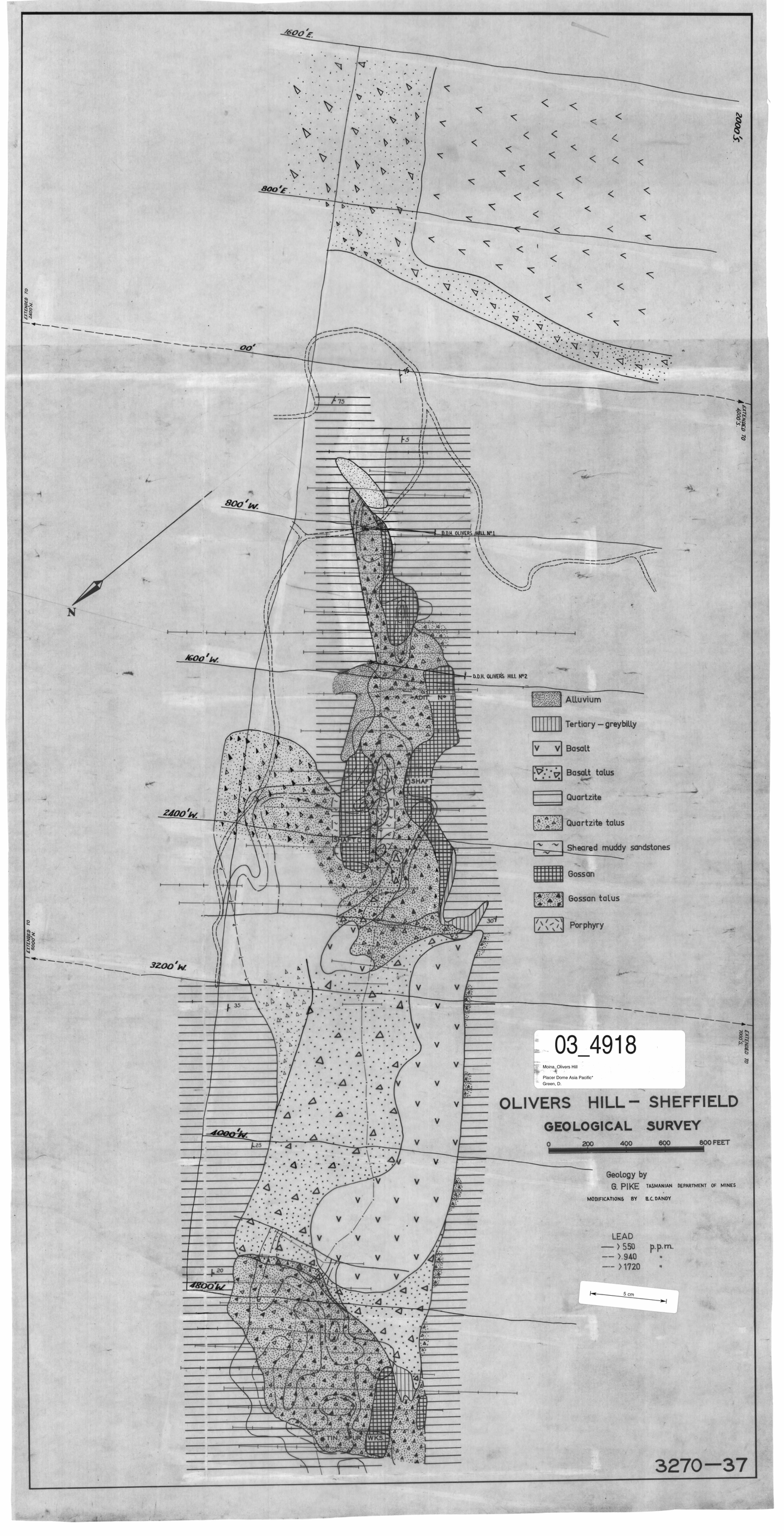
Moina, Olivers Hill

Placer Dome Asia Pacific*
Green, D.


1600'E.
800'E.
EXTENDED TO 400'N.
00'
EXTENDED TO 400'S.
800'W.
D.D.H. OLIVERS HILL No1
N
1600'W.
D.D.H. OLIVERS HILL No2
ADIT No 1
SHAFT
2400'W.
SHAFT
EXTENDED TO 800'W.
3200'W.
EXTENDED TO 700'S.
4000'W.
4800'W.
TIN SPUR WKS.
Alluvium
Tertiary – greybilly
Basalt
Basalt talus
Quartzite
Quartzite talus
Sheared muddy sandstones
Gossan
Gossan talus
Porphyry
03_4918
Moina_Olivers Hill
Placer Dome Asia Pacific*
Green, D.
OLIVERS HILL – SHEFFIELD
GEOLOGICAL SURVEY
0 200 400 600 800 FEET
Geology by
G. PIKE TASMANIAN DEPARTMENT OF MINES
MODIFICATIONS BY B.C. DANDY
LEAD
—) 550 p.p.m.
--) 940 "
-·-) 1720 "
5 cm
3270—37

5 cm

03_4918

Moina, Olivers Hill

Placer Dome Asia Pacific*
Green, D.

ALL NATIONS MINE – MOINA

PLANS FOR REPORT

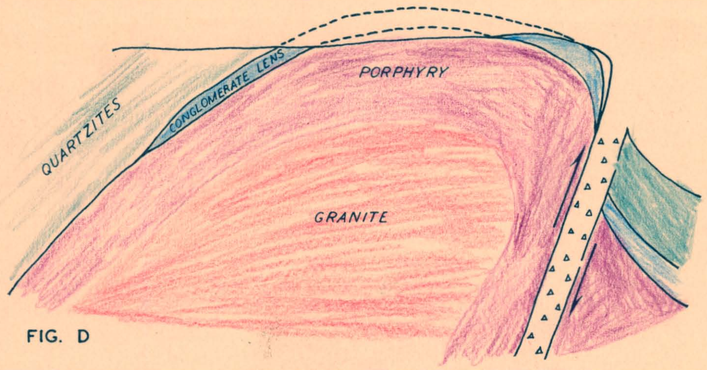


FIG. D

FIG. C(iii) **FORMATION OF TENSION FRACTURES**

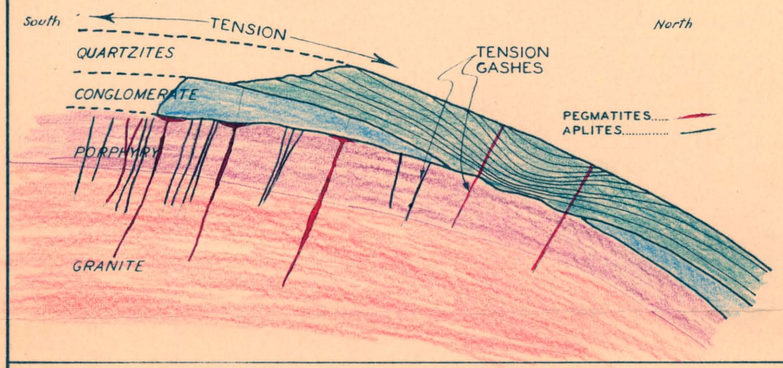
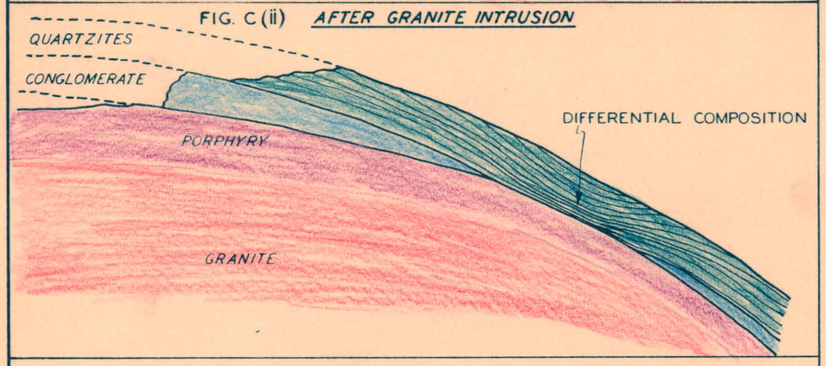


FIG. C(ii) **AFTER GRANITE INTRUSION**



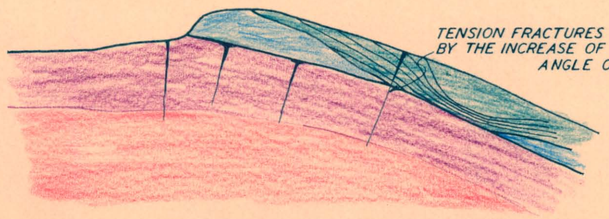


FIG. H

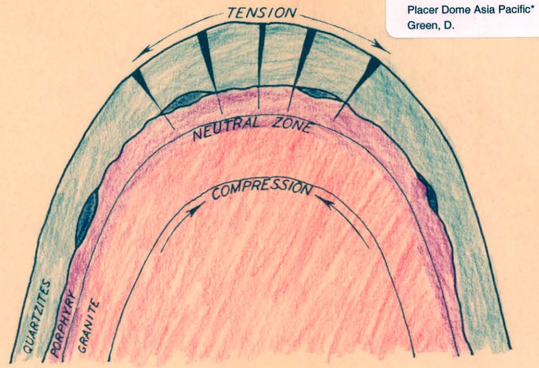
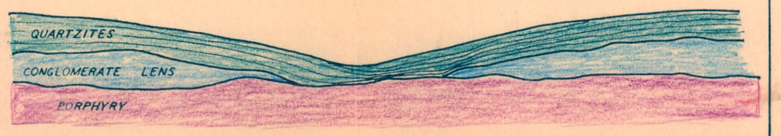
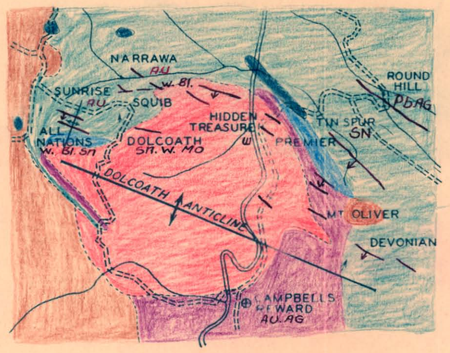


FIG. I

FIG. C (i)





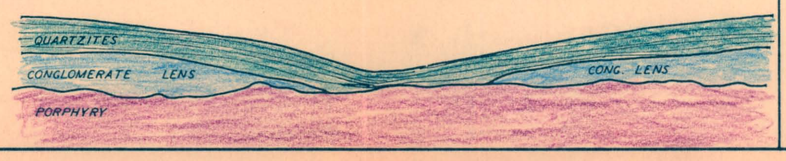
LEGEND

- LIMESTONE
- QUARTZITES
- BASALT
- PORPHYRY
- GRANITE
- CONGLOMERATE
- DIP OF BEDS
- VEINS & LODES
- ROADS

SKETCH MAP

FIG. B

AFTER COMPACTION



BEFORE COMPACTION

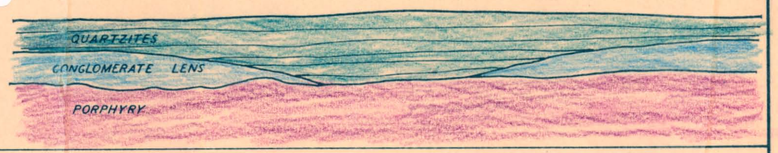


FIG. F

BLOCK DIAGRAM

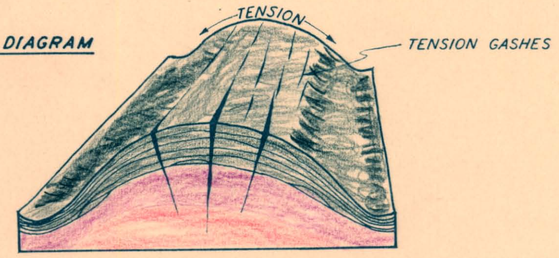
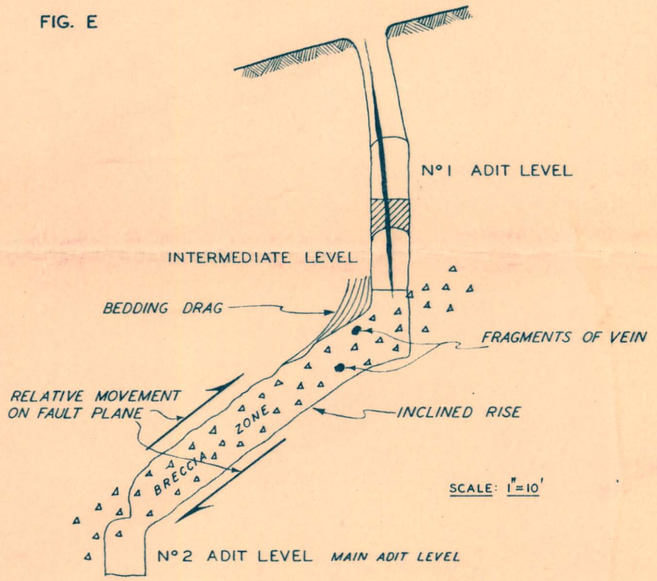


FIG. E



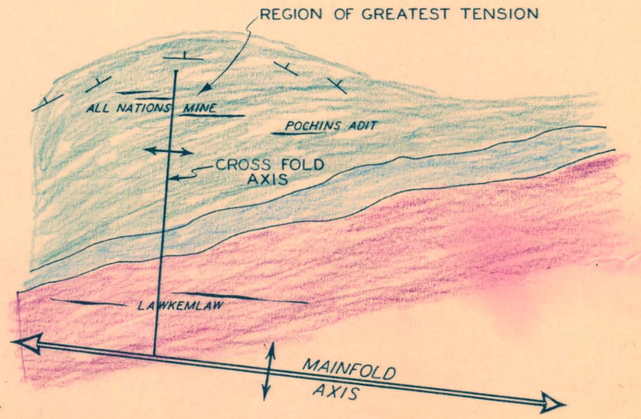
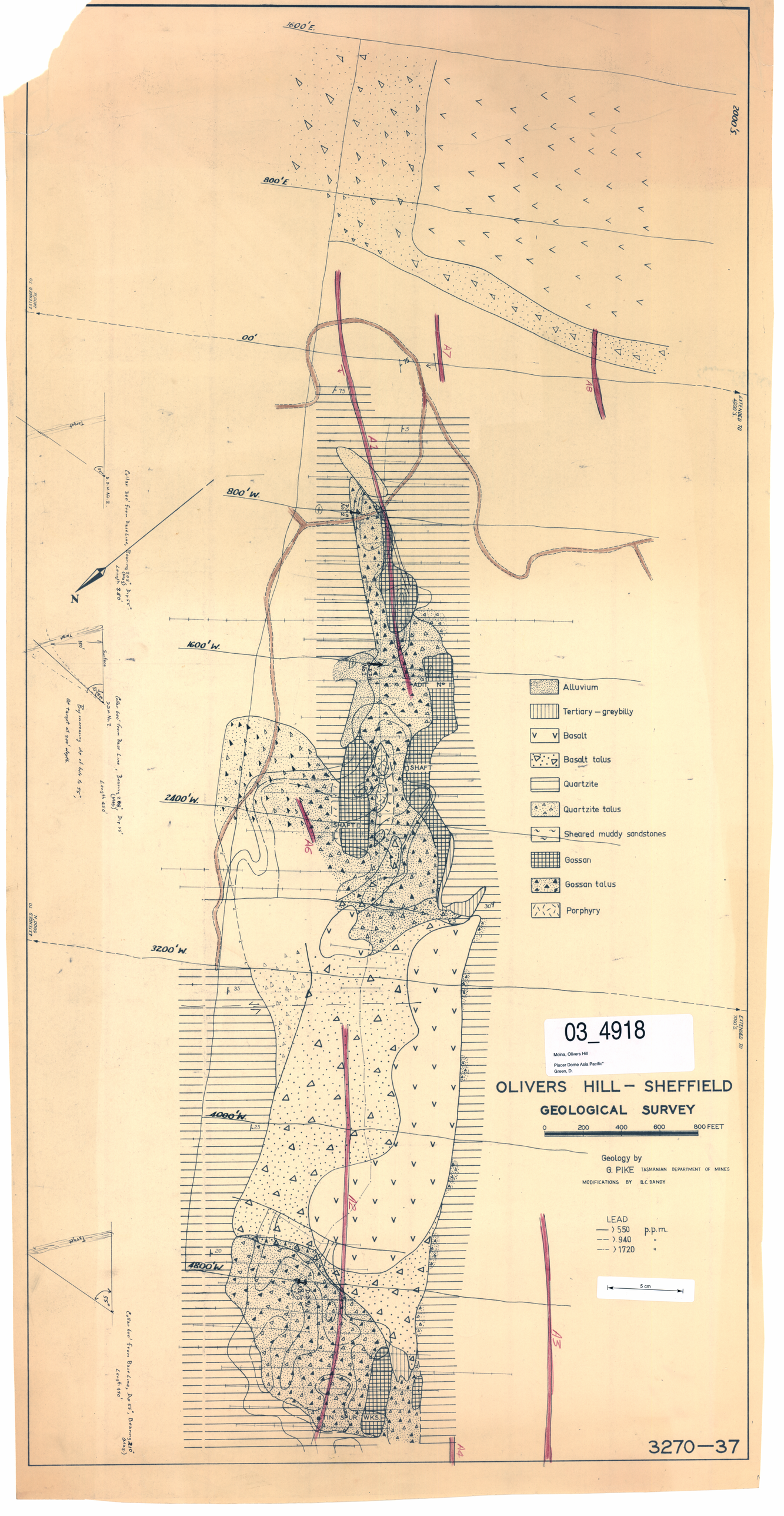
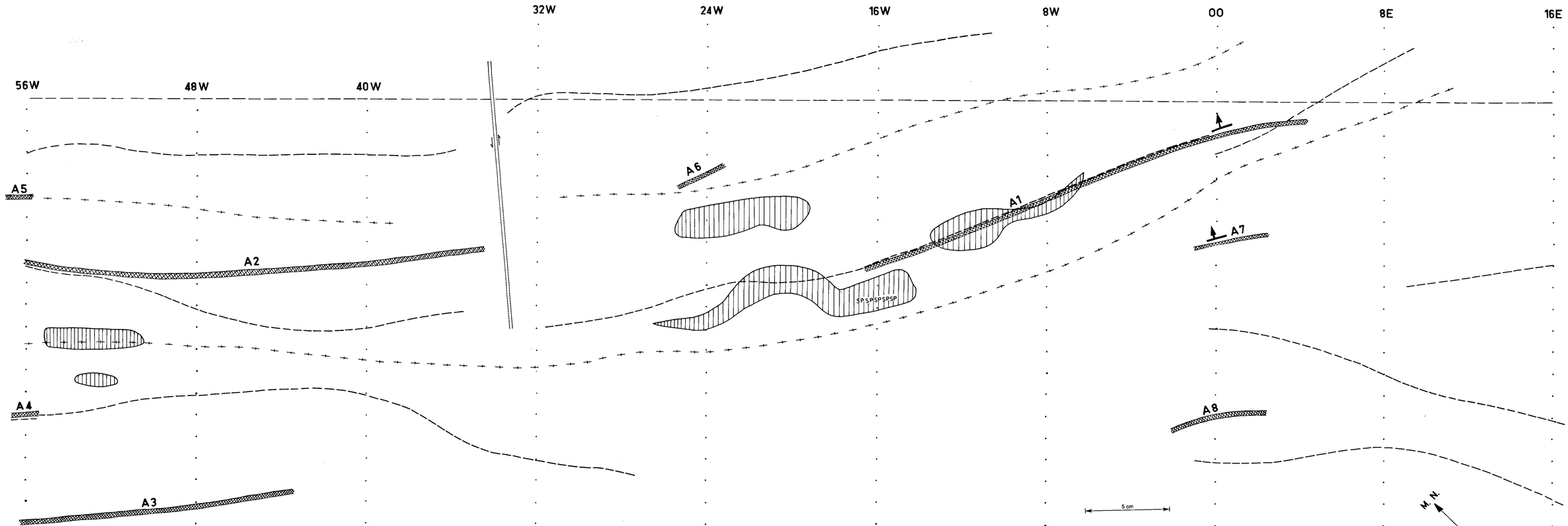


FIG. F

1309-37


1600'E.
800'E
00'
800'W.
1600'W.
2400'W.
3200'W.
4000'W.
4800'W.
5,000'S.
EXTENDED TO 4000'S.
EXTENDED TO 5000'N.
EXTENDED TO 7000'S.
A1
A2
A3
A4
A5
A6
A7
A8
ADIT No 1
SHAFT
SHAFT
TIN. SPUR WKS.
N
Alluvium
Tertiary — greybilly
Basalt
Basalt talus
Quartzite
Quartzite talus
Sheared muddy sandstones
Gossan
Gossan talus
Porphyry
03_4918
Moina, Olivers Hill
Placer Dome Asia Pacific*
Green, D.
OLIVERS HILL — SHEFFIELD
GEOLOGICAL SURVEY
0 200 400 600 800 FEET
Geology by
G. PIKE TASMANIAN DEPARTMENT OF MINES
MODIFICATIONS BY B.C. DANDY
LEAD
— > 550 p.p.m.
-- > 940 "
-·- > 1720 "
5 cm
3270—37



03_4918

Moina, Olivers Hill

Placer Dome Asia Pacific*
Green, D.

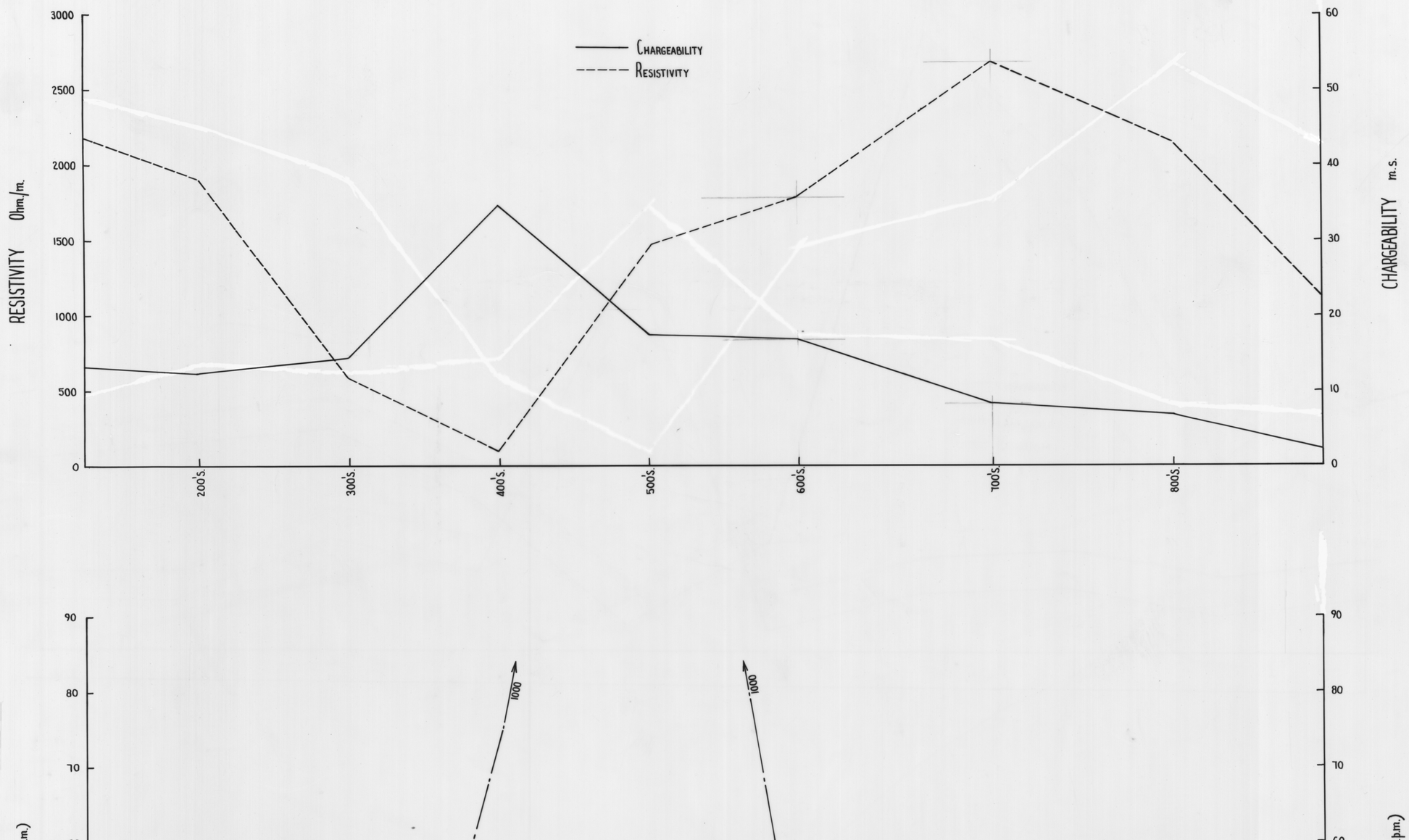
THE MOUNT LYELL M. & R. COY. LTD.
GEOLOGICAL DEPARTMENT

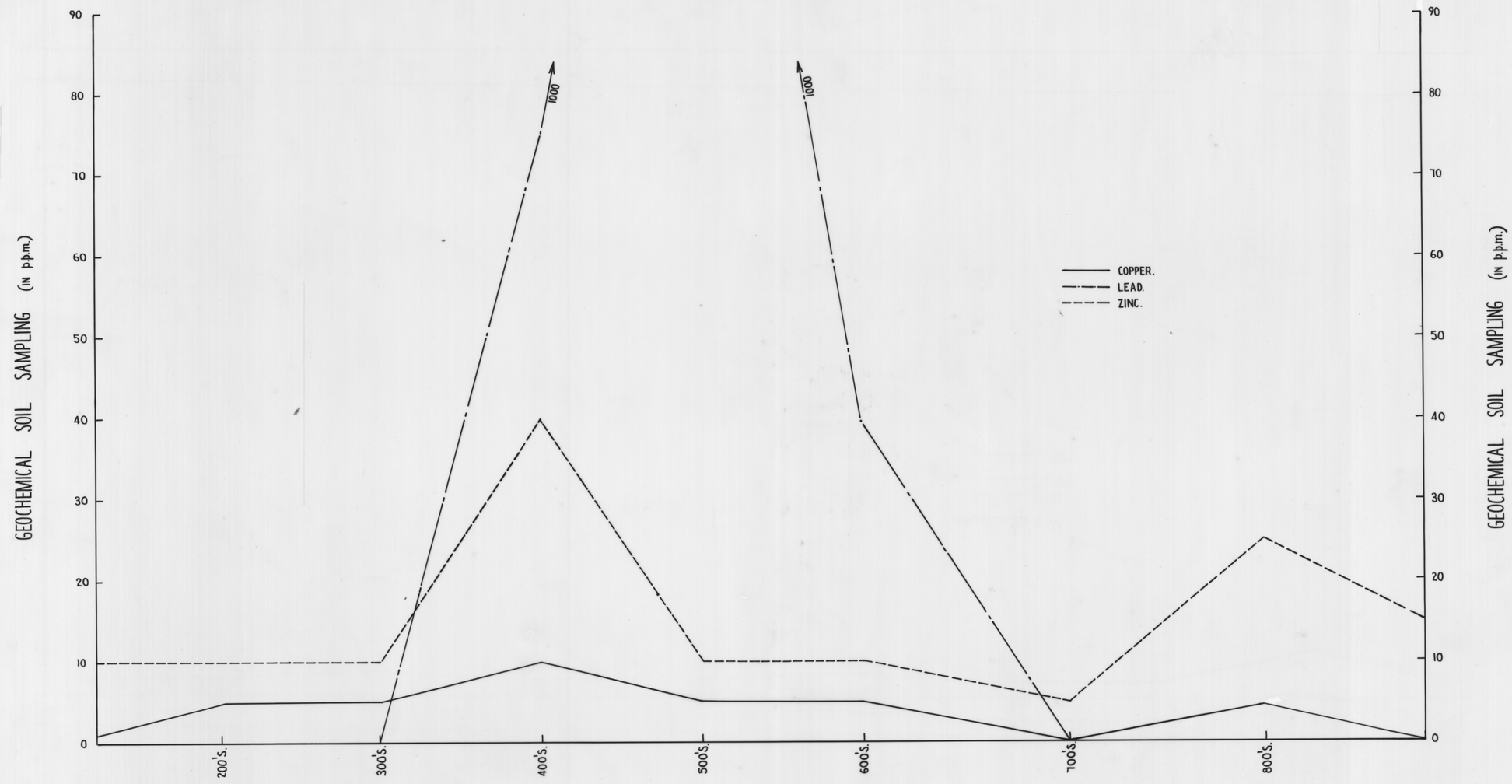
OLIVERS HILL GRID

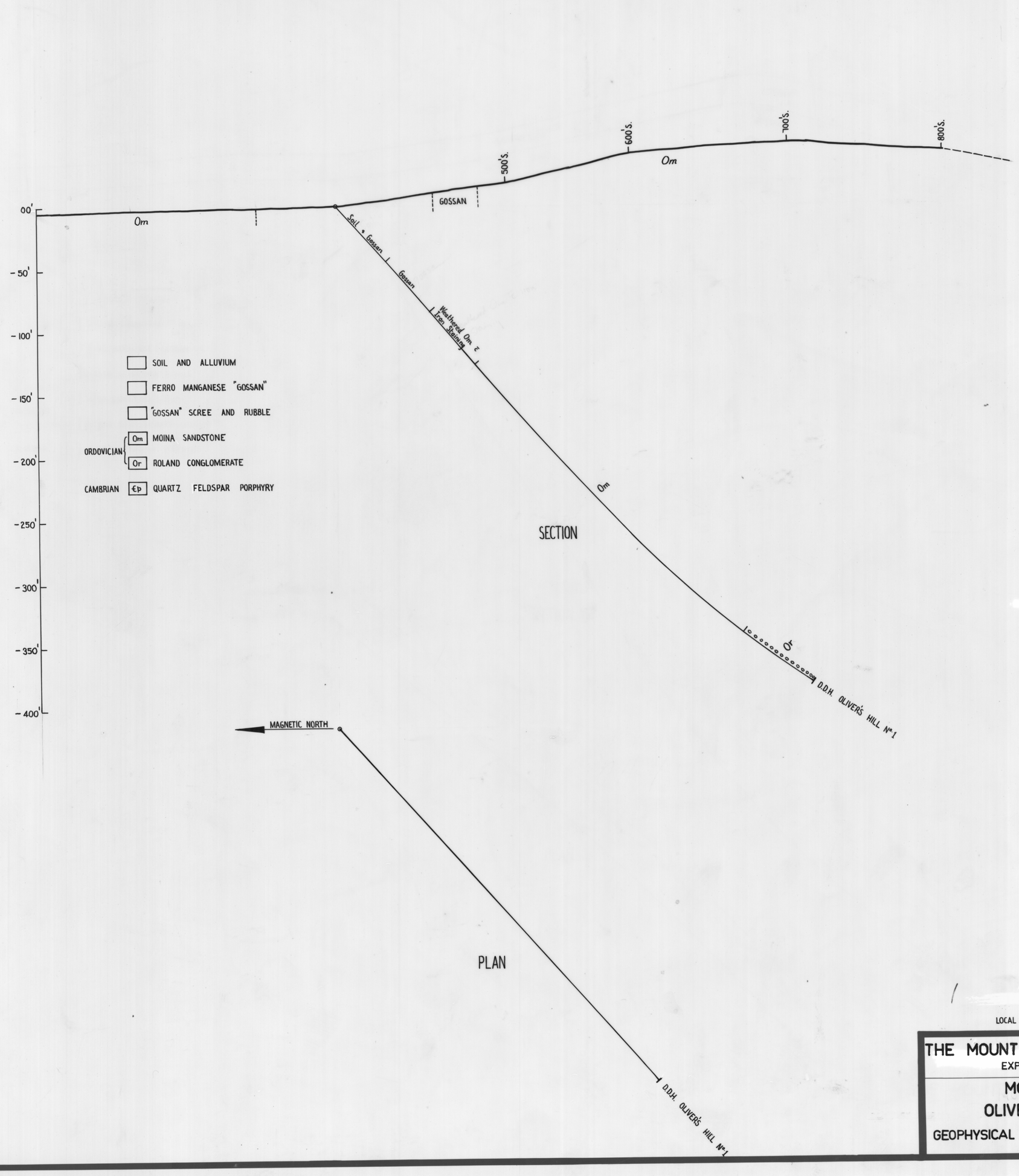
COMPREHENSIVE GEOPHYSICAL MAP

DRAWN BY. R.G.W.
TRACED BY. R.G.W.
CHECKED BY. B.C.D.
DATE. 12-8-70
SCALE. 1" : 200'

MAP 11







5 cm

03_4918

Moina, Oliver's Hill

Placer Dome Asia Pacific*
Green, D.

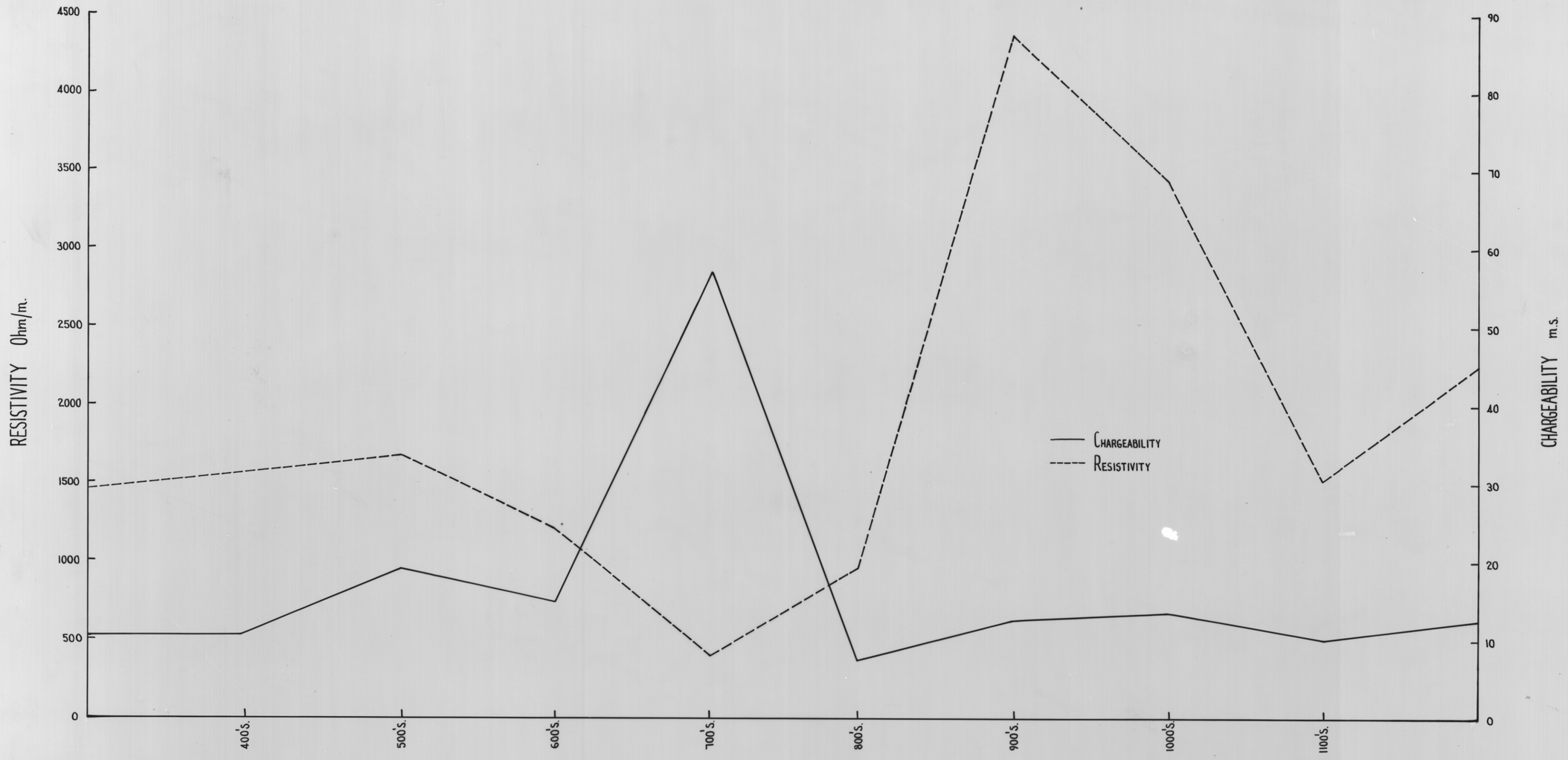
LOCAL DATUM COLLAR D.D.H. O.H.1.

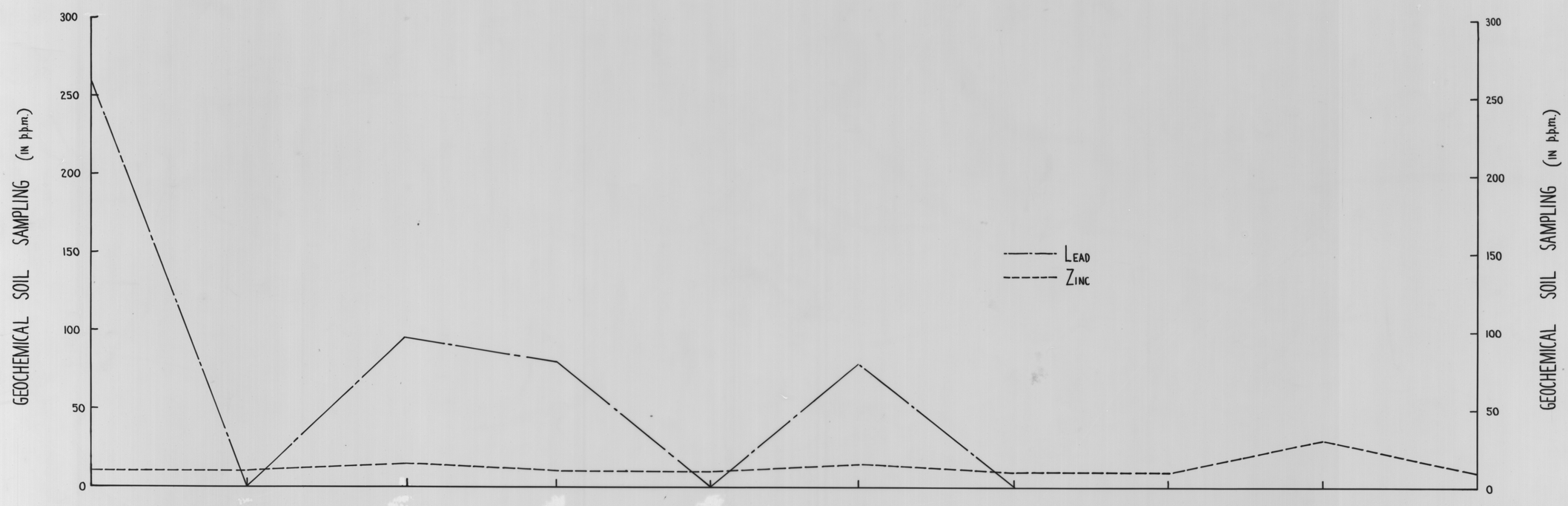
THE MOUNT LYELL M. & R. COY. LTD.
EXPLORATION DEPARTMENT

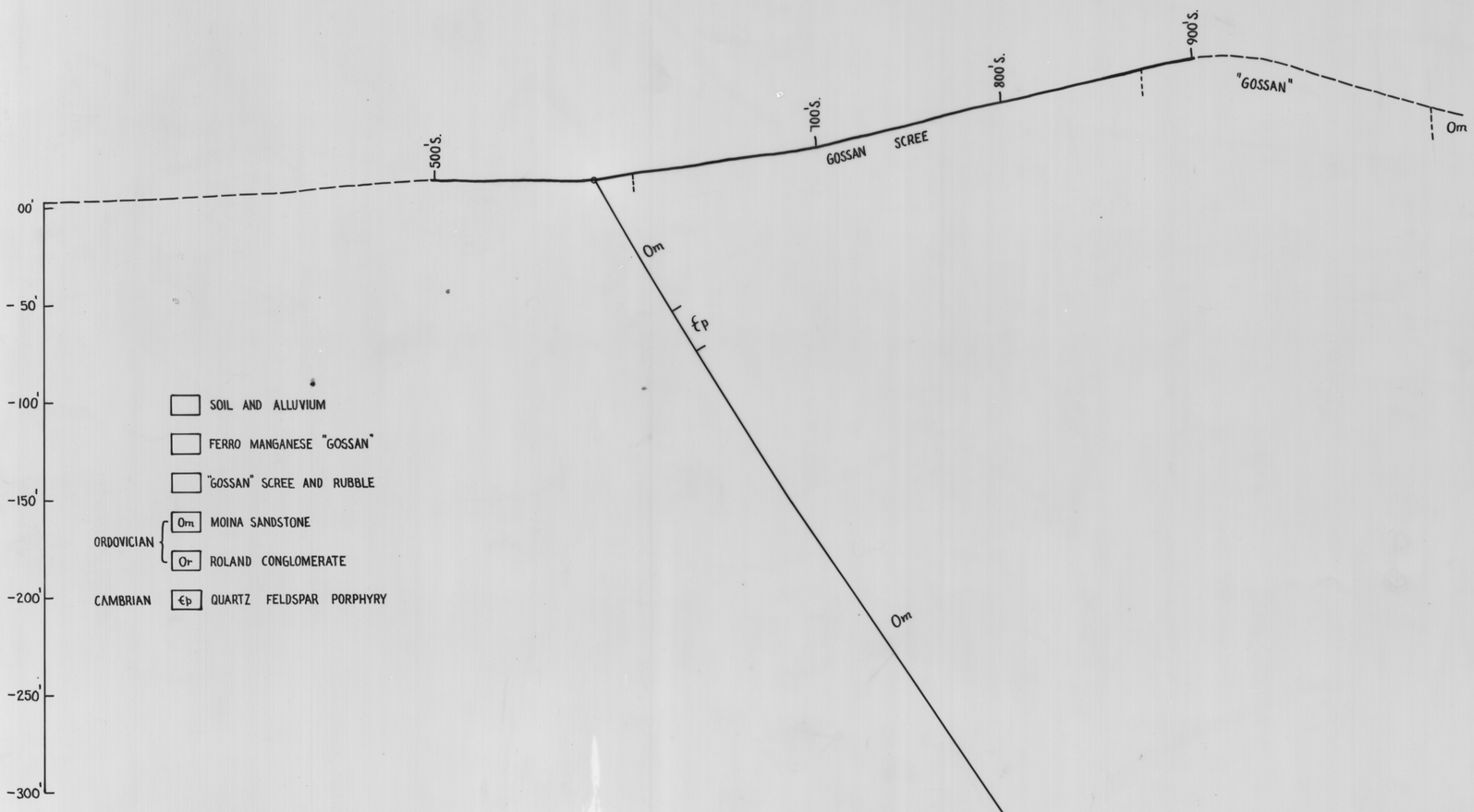
MOINA E.L. 8/65
OLIVER'S HILL GRID
GEOPHYSICAL & DRILLING RESULTS ON LINE 8W.

DRAWN. R.G.W.
TRACED. R.G.W.
CHECKED.
DATE. 1-9-'71
SCALE. 1" = 50' 1 : 600

MAP 4







5 cm

LOCAL DATUM — COLLAR D.D.H. O.H.1

THE MOUNT LYELL M. & R. COY. LTD.

EXPLORATION DEPARTMENT

MOINA E.L. 8/65

OLIVER'S HILL GRID

GEOPHYSICAL & DRILLING RESULTS ON LINE 16W.

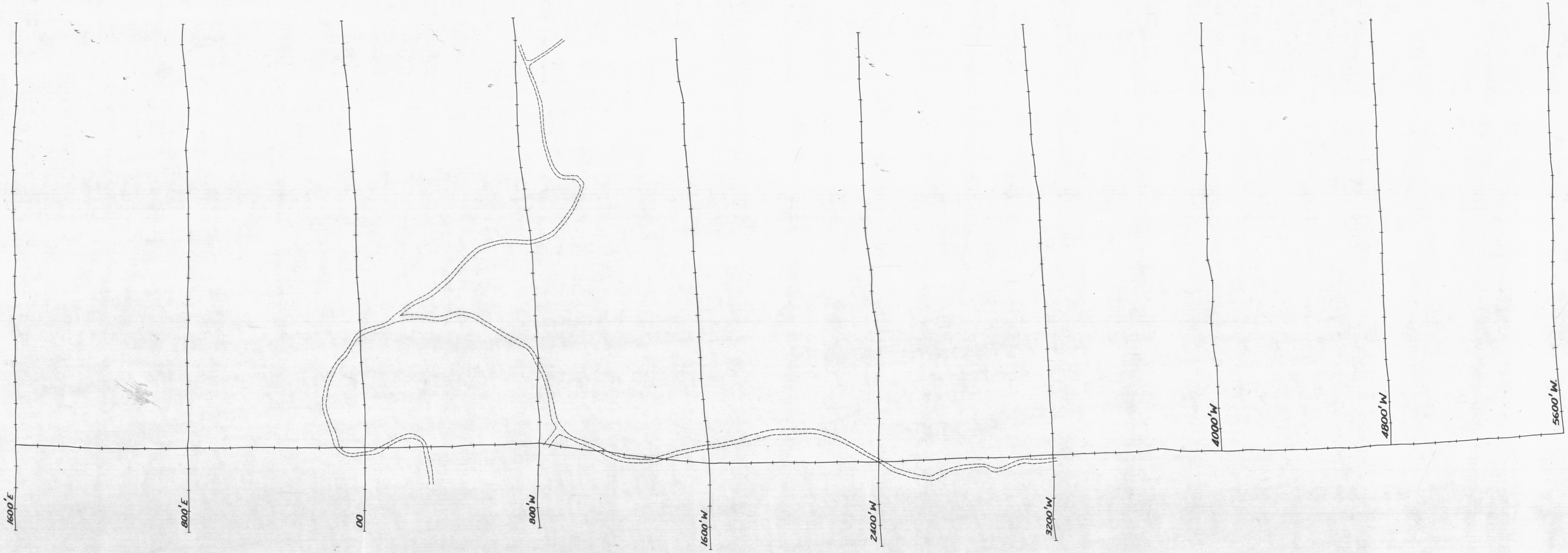
DRAWN. R.G.W.
TRACED. R.G.W.
CHECKED.
DATE. 1-9-'71
SCALE. 1" = 50' 1 : 600

MAP 5

03_4918

Moina, Olivers Hill

Placer Dome Asia Pacific*
Green, D.



03_4918

Moina, Olivers Hill

Placer Dome Asia Pacific*
Green, D.

THE MOUNT LYELL M. & R. COY. LTD
GEOLOGICAL DEPARTMENT

OLIVERS HILL

DRAWN BY R.G.W.
TRACED BY R.G.W.
CHECKED BY
DATE 15-5-70
SCALE 1"=200'

5 cm

1600'E

800'E

00

800'W

1600'W

2400'W

3200'W

4000'W

4800'W

5600'W

03_4918

Moina, Olivers Hill

Placer Dome Asia Pacific*
Green, D.

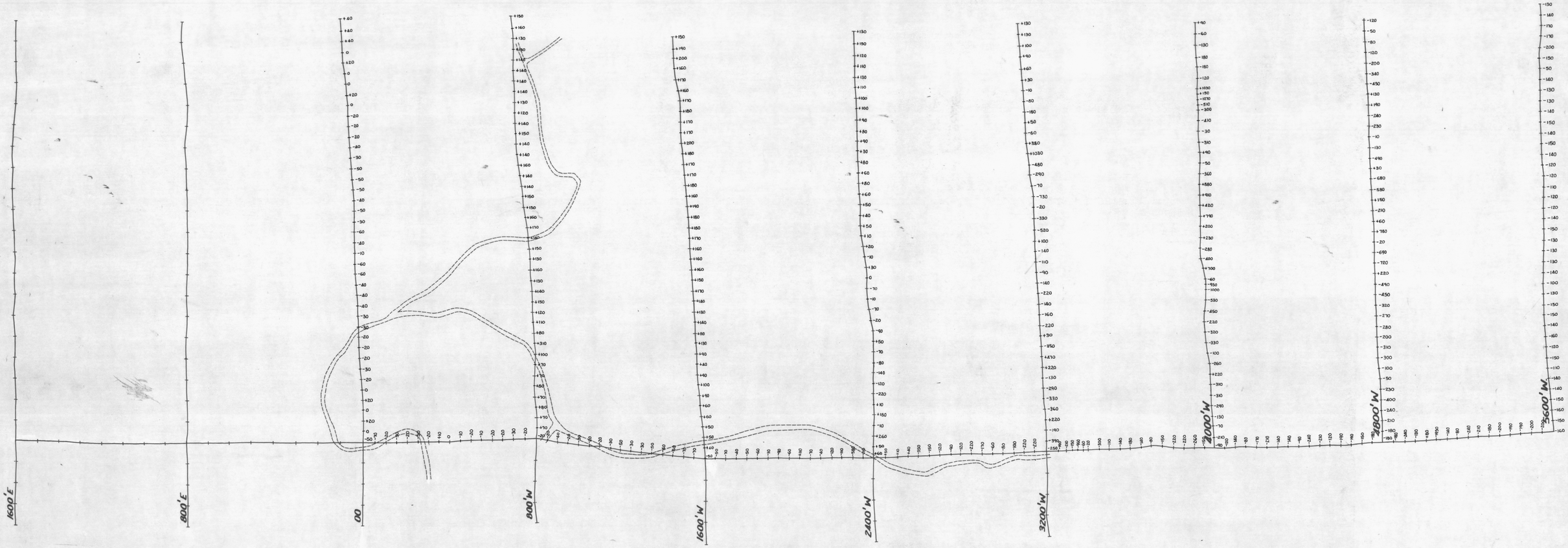
THE MOUNT LYELL M. & R. COY. LTD

GEOLOGICAL DEPARTMENT

OLIVERS HILL

DRAWN BY R.G.W.
TRACED BY R.G.W.
CHECKED BY
DATE 15-5-70
SCALE 1"=200'

5 cm



03_4918

Moina, Olivers Hill

Placer Dome Asia Pacific*
Green, D.

5 cm

THE MOUNT LYELL M. & R. COY. LTD GEOLOGICAL DEPARTMENT	DRAWN BY R.G.W.
	TRACED BY R.G.W.
OLIVERS HILL	CHECKED BY
	DATE 15-5-70
MAGNETICS	SCALE 1"=200'
	INSTRUMENT: SHARPE MF-1



RESULTS IN PARTS PER MILLION

03_4918

Moina, Olivers Hill

Placer Dome Asia Pacific"
Green, D.

5 cm

THE MOUNT LYELL M. & R. COY. LTD.
GEOLOGICAL DEPARTMENT

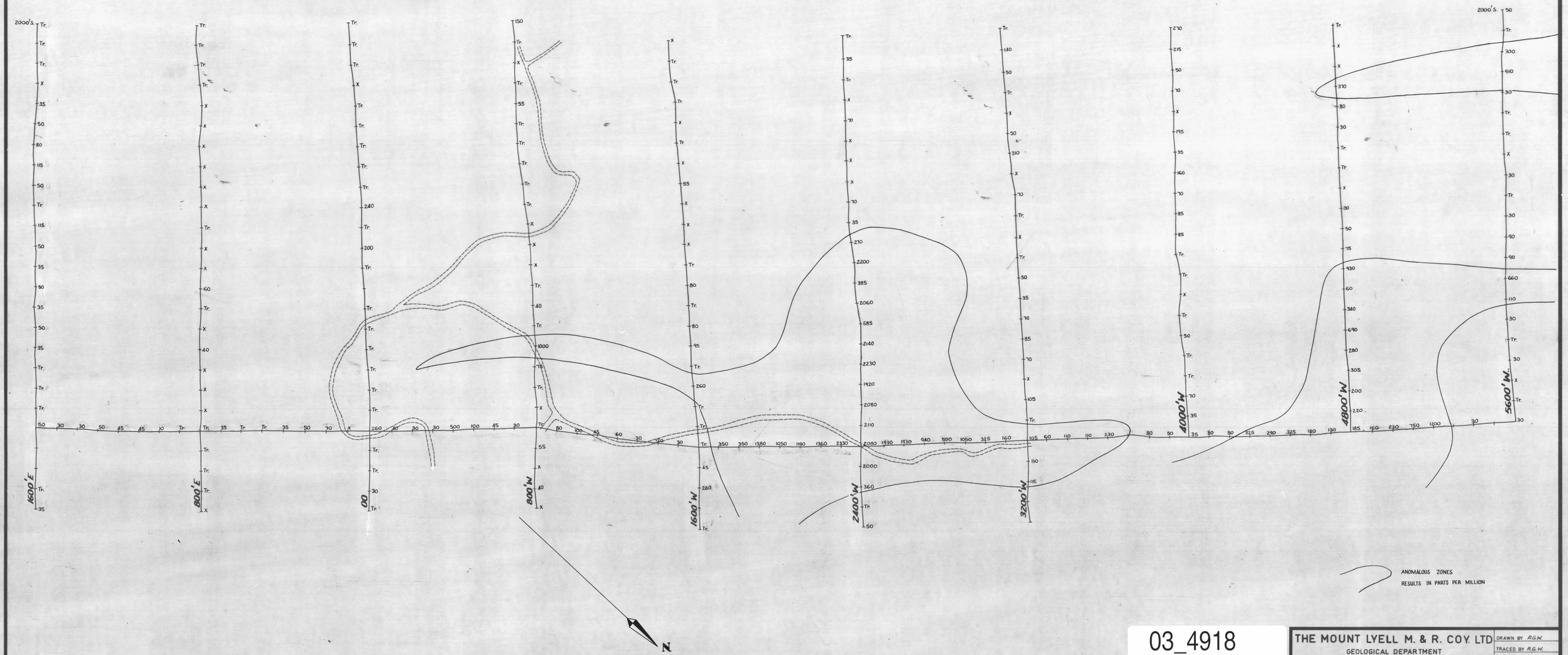
OLIVERS HILL

GEOCHEMICAL SOIL SAMPLING RESULTS

COPPER

DRAWN BY R.G.W.
TRACED BY R.G.W.
CHECKED BY L.A.N.
DATE 15-5-70
SCALE 1" = 200'

MAP 10



03_4918

Moina, Olivers Hill

Placer Dome Asia Pacific"
Green, D.

5 cm

THE MOUNT LYELL M. & R. COY. LTD
GEOLOGICAL DEPARTMENT

OLIVERS HILL

GEOCHEMICAL SOIL SAMPLING RESULTS
LEAD

DRAWN BY R.G.W.
TRACED BY R.G.W.
CHECKED BY L.A.N.
DATE 15-5-70
SCALE 1"=200'

MAP 8



LOCALLY ANOMALOUS ZONES
RESULTS IN PARTS PER MILLION

03-4918

THE MOUNT LYELL M. & R. COY. LTD.
GEOLOGICAL DEPARTMENT

OLIVERS HILL

GEOCHEMICAL SOIL SAMPLING RESULTS

ZINC

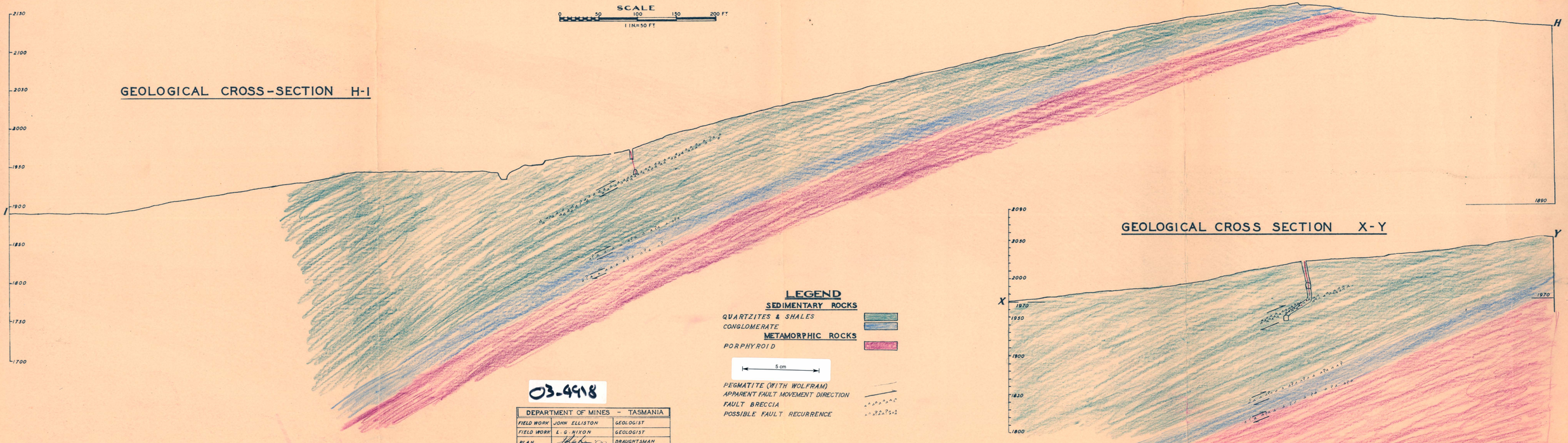
DRAWN BY	R.G.W.
TRACED BY	R.G.W.
CHECKED BY	L.A.N.
DATE	15-5-70
SCALE	1" = 200'

MAP 9

ALL NATIONS MINE - MOINA

SCALE
0 50 100 150 200 FT
1 IN = 50 FT

GEOLOGICAL CROSS-SECTION H-1



GEOLOGICAL CROSS SECTION X-Y

LEGEND

SEDIMENTARY ROCKS

QUARTZITES & SHALES
CONGLOMERATE

METAMORPHIC ROCKS

PORPHYROID

5 cm

PEGMATITE (WITH WOLFRAM)
APPARENT FAULT MOVEMENT DIRECTION
FAULT BRECCIA
POSSIBLE FAULT RECURRENCE

03-4918

DEPARTMENT OF MINES - TASMANIA		
FIELD WORK	JOHN ELLISTON	GEOLOGIST
FIELD WORK	L. G. NIXON	GEOLOGIST
PLAN		DRAUGHTSMAN
APPROVED		DIRECTOR OF MINES
DATE	NOVEMBER 1951	LORINNA

1308-37