1:6000

SHEET 1

GEOCHEMISTRY
Cu, Pb, Zn
ANOMALIES

1/304

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

Cu. ANOMALY [>40 p.p.m.]
Pb. ANOMALY [>60 p.p.m.]
Zn. ANOMALY [>80 p.p.m.]

5 cm

THE MOUNT LYELL M & R. COY. LTD.
GEOLOGICAL DEPARTMENT
DRAWN BY: L. Nicholas
TRACED BY: L. Nicholas
CHECKED BY: L. Nicholas
DATE: 20-9-69
SCALE: 1" = 200'

MT. TYNDALL LEASE
SHEET 1
Cu-Pb-Zn - GEOCHEMICAL ANOMALIES
BASED ON RECONNAISSANCE SURVEY
1967 - 69

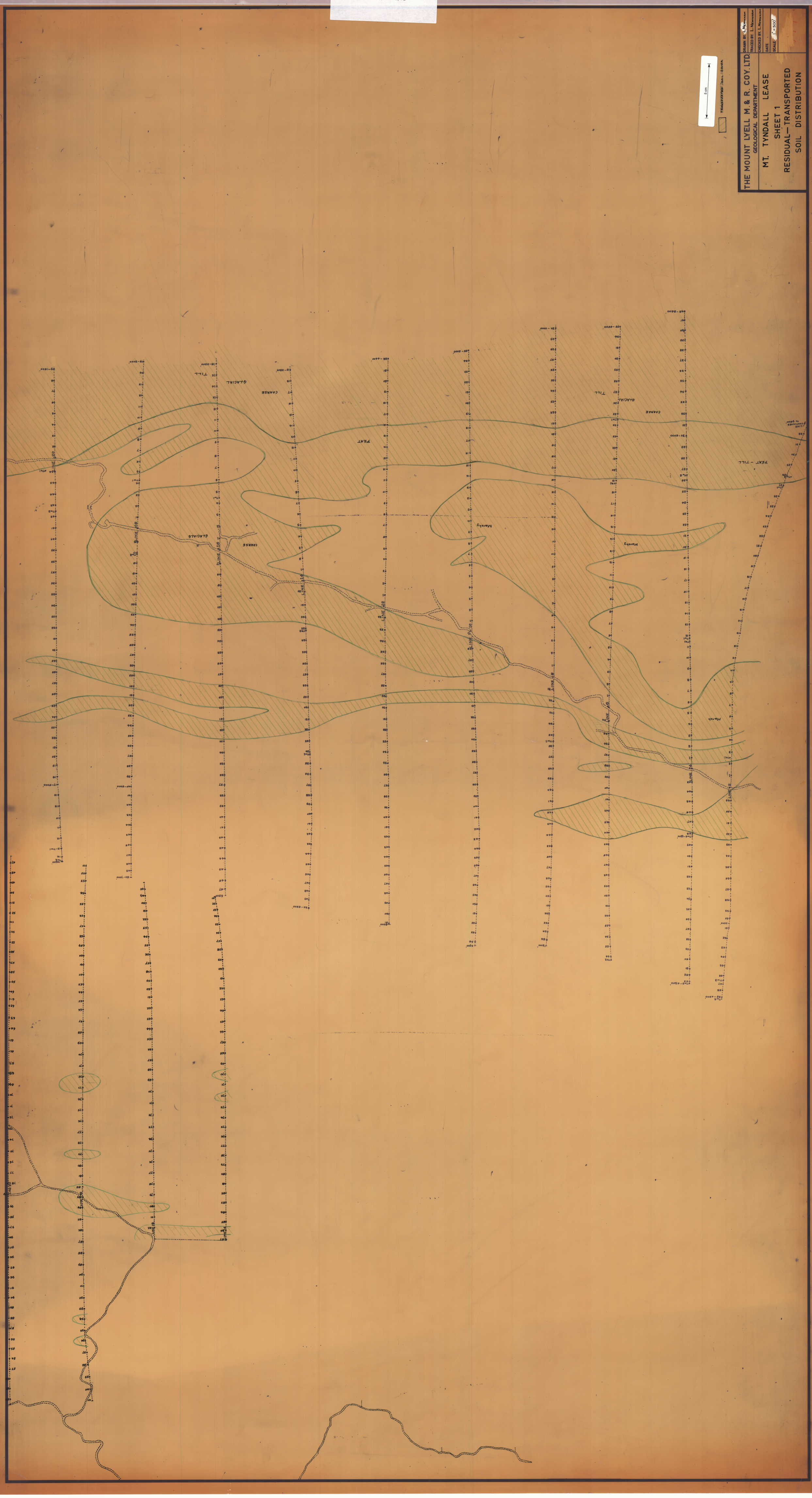
1:6000

SHEET 1

SOIL TYPE DISTRIBUTION

1/305

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71



1:6000

SHEET 1

DETAILED SOIL SAMPLING

TCR 94-3381
BCR 95-0035
BC 7/76E, 10/69, 34/71, 43/71

-10 + 80 Zn Pb Cu

-80 Cu Pb Zn

HORIZON C

2N. 4N.

SOIL SAMPLE RESULTS. -80 MESH - VALUE ABOVE LINE.
-10 + 80 MESH - VALUE BELOW LINE.

C = 'C' HORIZON RESIDUAL SOIL.
B = 'B' HORIZON " "
A = 'A' HORIZON " "
AG = 'A' HORIZON ON GLACIAL MATERIAL.
T = TRANSPORTED OR GLACIAL MATERIAL.
S = STREAM SEDIMENT OR SCREE MATERIAL.

T.N. M.N.

LOCATION DIAGRAM
SCALE 1" = 16 MILES

'B' HORIZON -80 MESH
NO FIELD SHEET AVAILABLE

6N. + 400'W.

6N.

6N. - 400'S.

THE CONSOLIDATED SYNDICATE

DETAILED SOIL SAMPLING
HOWARD'S ANOMALY & ZONE A
MT. TYNDALL AREA
E.L. 9/66
Sheet 1

DRAWN BY.	N.S.H.
TRACED BY.	
CHECKED BY.	
DATE	NOV. '75
SCALE	1" = 500'

5 cm

17 of 36

1:6000

SHEET 1

GROUND MAGS.

1/401

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

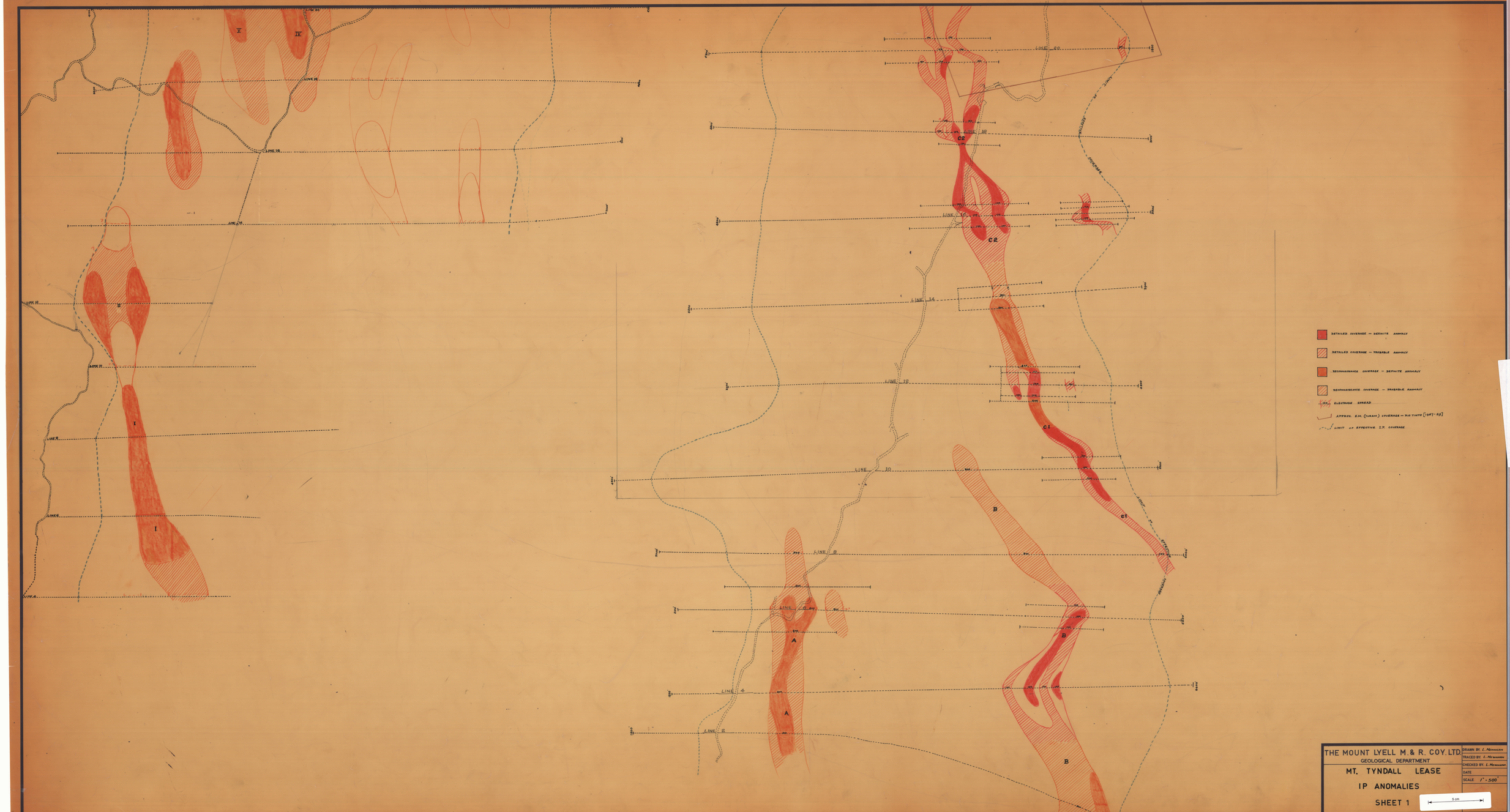
Done with a different datum station, probably about 100 gammas below most. Suggest a check on one line and then adj. all others accordingly

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

DRAWN BY: L. Newman
TRACED BY: L. Newman
DATE:
SCALE: 1" = 200'

MT. TYNDALL LEASE
GROUND MAGNETICS SURVEY
SHEET 1

1 cm



THE MOUNT LYELL M. & R. COY. LTD.
GEOLOGICAL DEPARTMENT
MT. TYNDALL LEASE
IP ANOMALIES
SHEET 1

DRAWN BY L. Mennucci
TRACED BY L. Mennucci
CHECKED BY L. Mennucci
DATE
SCALE 1" = 500'

5 cm

1:6000

SHEET 1

M'TNAR I.P. ANOMALIES

TCR 94-3581
TYNDALL 1967, 1971, 41/71
EL 3/69, 1967, 41/71

1/408

1:6000

SHEET 1

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

M^cPHAR I.P.
RESISTIVITY

1/403

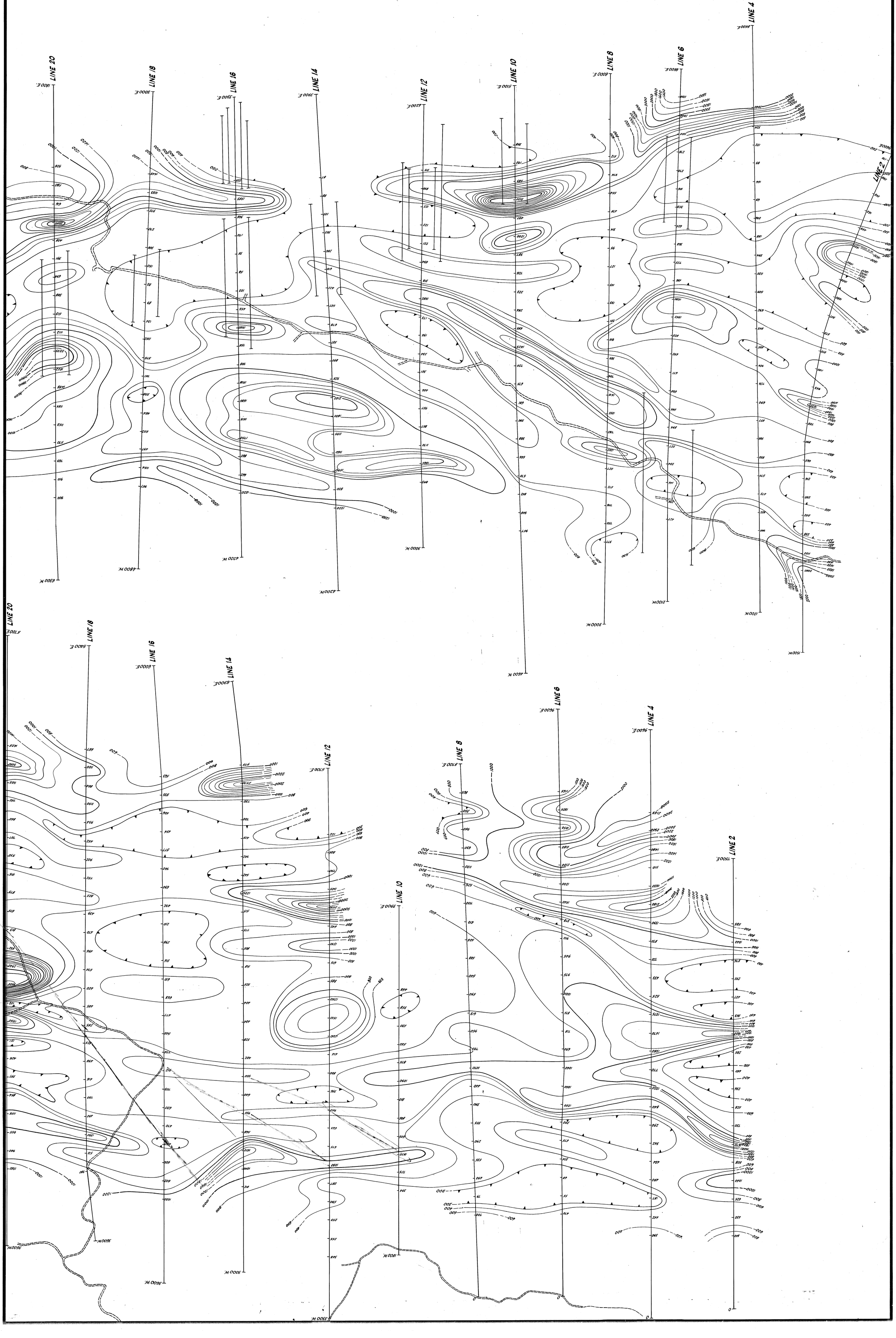
THE CONSOLIDATED SYNDICATE

Drawn by: B.C.
Traced by: R.G.W.
Checked by:
Date: 20/12/73
Scale: 1"=1000

MT. TYNDALL AREA E.L. 9/66
SHEET 1
APPARENT RESISTIVITY (DIPOLE-DIPOLE ARRAY N=1)
M^cPHAR GEOPHYSICS PTY. LTD. 1967-68

CONTOUR INTERVAL - 200 OHM FEET/SEC

0 5cm



1:6000

SHEET 1

McPHAR I.P.

CHARGEABILITY

1/404

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

THE CONSOLIDATED SYNDICATE	DRAWN BY: B. GRAVEN.
	TRACED BY: R.G.WILSON.
	CHECKED BY:
MT. TYNDALL AREA E.L. 9/66	DATE: 13-2-79
SHEET 1	SCALE: 1:6000
I.P. PERCENT FREQUENCY EFFECT (DIPOLE-DIPOLE ARRAY N=1)	
McPHAR GEOPHYSICS PTY. LTD. 1967-68	

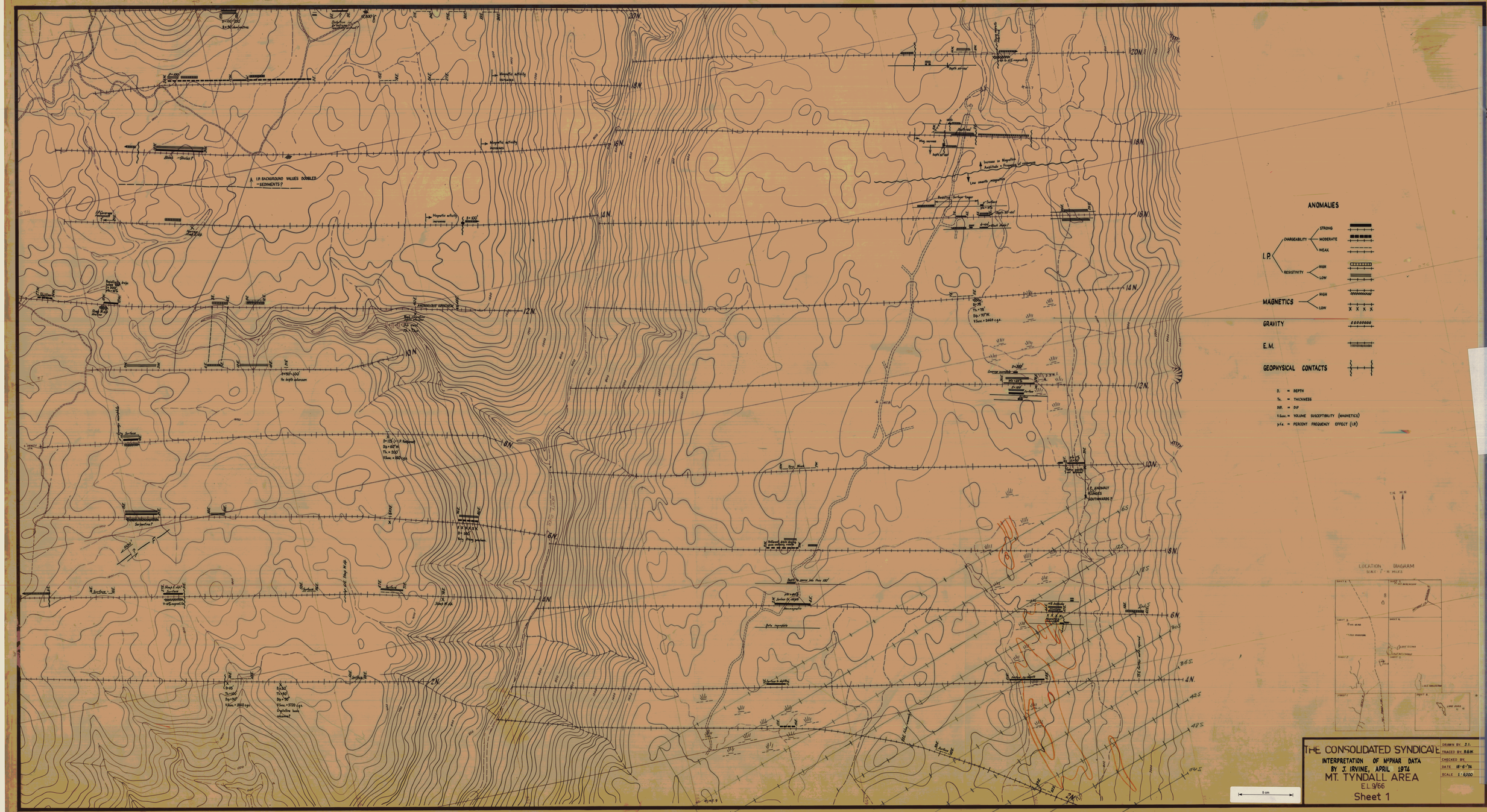
CONTOUR INTERVAL - 1 PERCENT

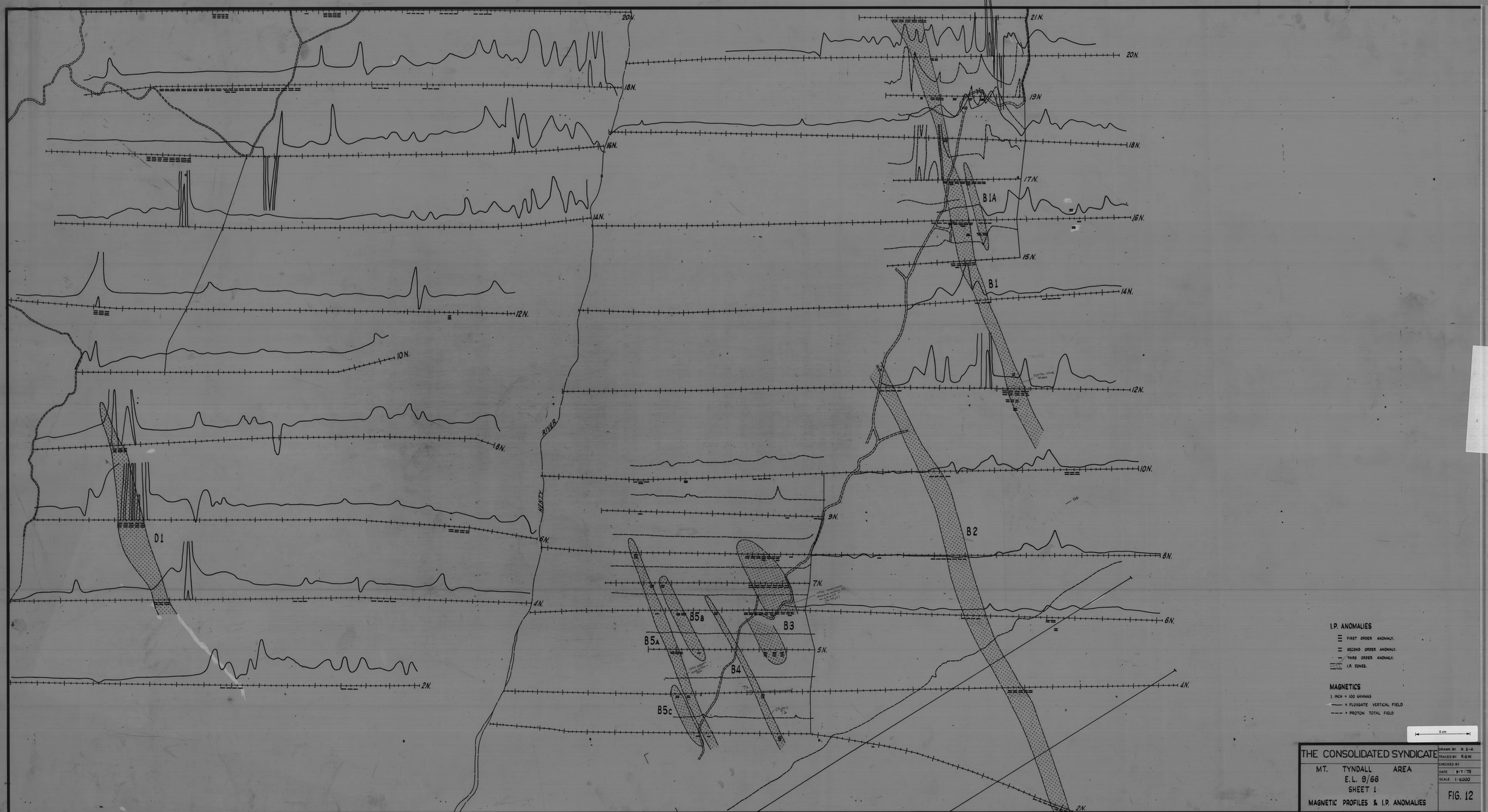
5.0cm

LINE 20 · LINE 18 · LINE 16 · LINE 14 · LINE 12 · LINE 10 · LINE 8 · LINE 6 · LINE 4 · LINE 2

3,0012N · 3,0008N · 3,0004N · 3,0000 · 2,9996N

6800W · 6400W · 6000W · 5600W · 5200W · 4800W · 4400W · 4000W · 3600W · 3200W · 2800W · 2400W · 2000W · 1600W · 1200W · 800W · 400W


I.P. BACKGROUND VALUES DOUBLED
—SEDIMENTS?
Magnetic activity increases
Magnetic activity increases
Increase in Magnetic Amplitude + Frequency & coherence
Low south magnetic
Resistive Surface Layer
Resistive Surface Layer
Resistive Surface Layer



I.P. ANOMALIES

- FIRST ORDER ANOMALY.
- SECOND ORDER ANOMALY.
- THIRD ORDER ANOMALY.
- I.P. ZONES.

MAGNETICS

1 INCH = 100 GAMMAS

- = FLUXGATE VERTICAL FIELD
- = PROTON TOTAL FIELD

5 cm

THE CONSOLIDATED SYNDICATE

MT. TYNDALL AREA
E.L. 9/66
SHEET 1
MAGNETIC PROFILES & I.P. ANOMALIES

DRAWN BY	N.S-H.
TRACED BY	R.G.W.
CHECKED BY	
DATE	9/7/75
SCALE	1:6000

FIG. 12

1:6000

SHEET 1

GEOPHYSICS
I.P. + MAGS.

TOOL 94 (5.5)
TYNDALL RECORDS
RE 9/66, 10/69, 74/71, 47/71

17407

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

TYNDALL SHEET 1

COMPOSITE LINE PROFILES

1/007

LINES 2N, 4N

MT. TYNDALL LEASE: LINE 4
(SECTION LOOKING NORTH)

5 cm

SCALE: 1" : 500'
CHECKED: A.R. Thomson
DATE: 23-6-69

SOIL CONTENT (Cu-Pb-Zn) IN p.p.m.

Cu
Pb
Zn

GROUND MAGNETICS (GAMMAS)

HEIGHT ABOVE S.L.

EASTERN ROAD

WESTERN GRID

EASTERN GRID

HENTY RIVER

I.P. ELECTRODE CONFIGURATION

n. 300'

Plotting Point

n=1
n=2
n=3
n=4

RESULTS OBTAINED BY 300' ELECTRODE SPREAD

300' SPREADS

LIMITS OF 100' COVERAGE.

6.0 ← M.F.
1185 ← R.

M.F. CONTOURS AT LOGARITHMIC MULTIPLES OF 10,15,20, 30, 50, 75, 100.

ANOMALIES
STRONG.
MODERATE.
WEAK.

BASE LINE

MT. TYNDALL LEASE: LINE 2

5 cm

SCALE: 1" : 500'
CHECKED: A.R. Thomson
DATE: 23-6-69

SOIL CONTENT (Cu-Pb-Zn) IN p.p.m.

Cu
Pb
Zn

GROUND MAGNETICS (GAMMAS)

HEIGHT ABOVE S.L.

EASTERN ROAD

WESTERN GRID

EASTERN GRID

I.P. ELECTRODE CONFIGURATION

n. 300'

Plotting Point

END OF LINE

N.R.

n=1
n=2
n=3
n=4

RESULTS OBTAINED BY 300' ELECTRODE SPREAD

300' SPREADS

LIMITS OF 100' COVERAGE.

6.0 ← M.F.
1185 ← R.

M.F. CONTOURS AT LOGARITHMIC MULTIPLES OF 10,15,20, 30, 50, 75, 100.

ANOMALIES
STRONG.
MODERATE.
WEAK.

BASE LINE

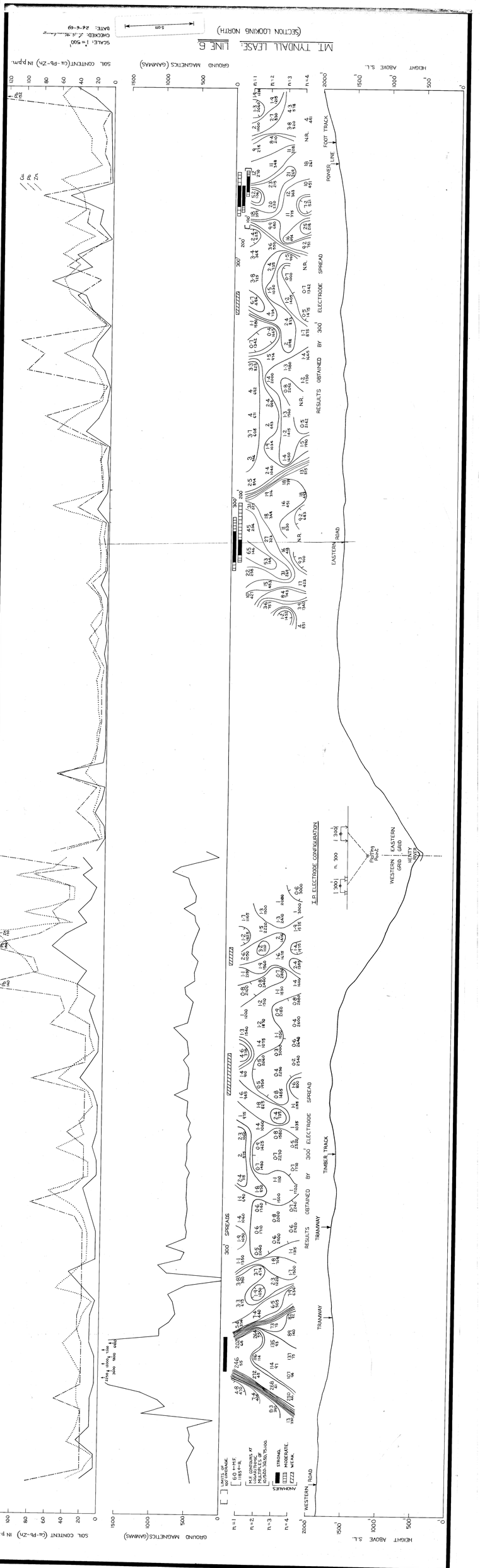
TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

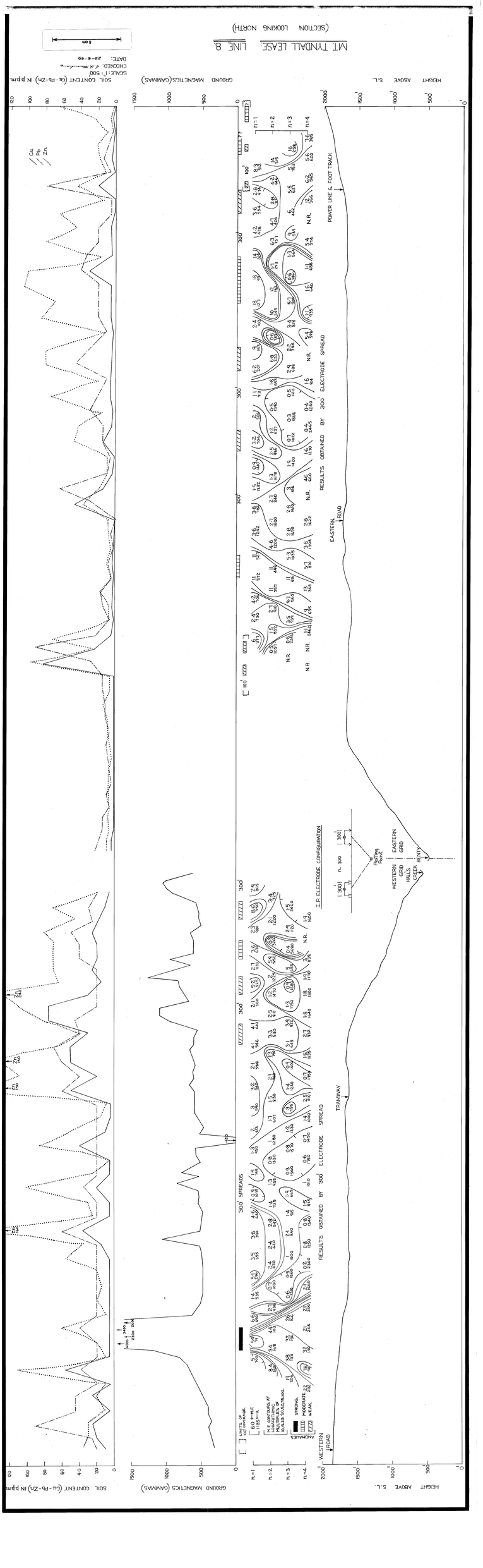
TYNDALL SHEET 1

COMPOSITE LINE PROFILES

LINES 8N + 6N

1/008





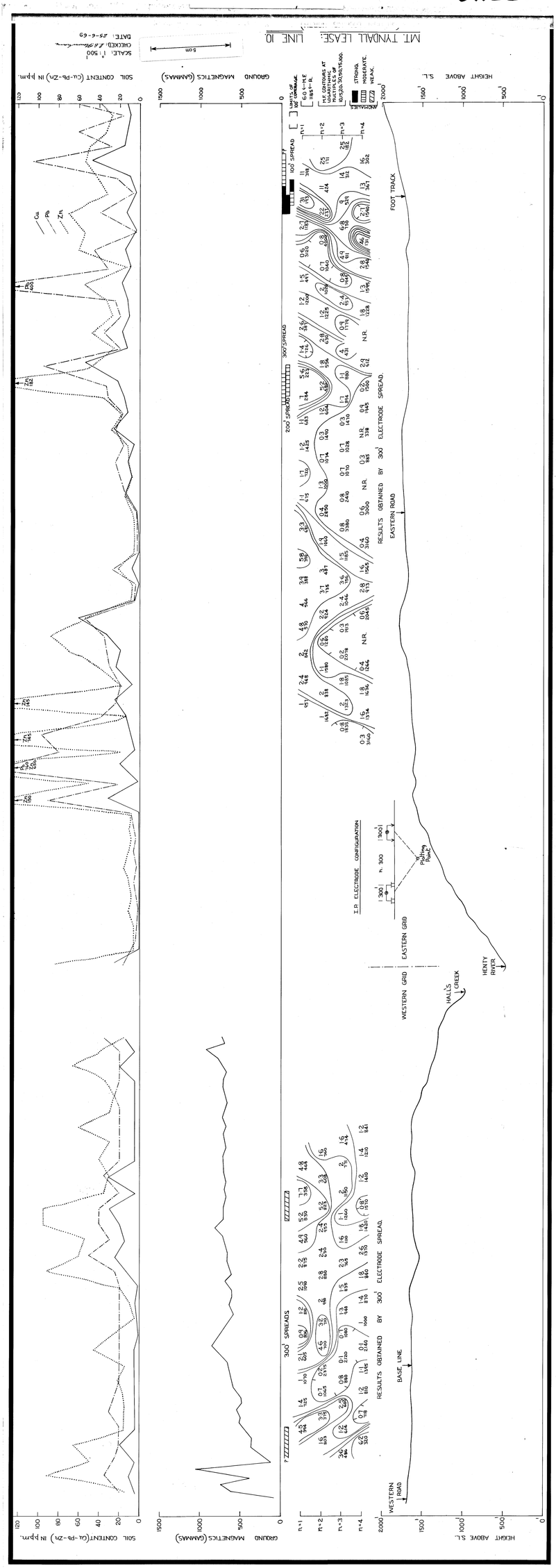
TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

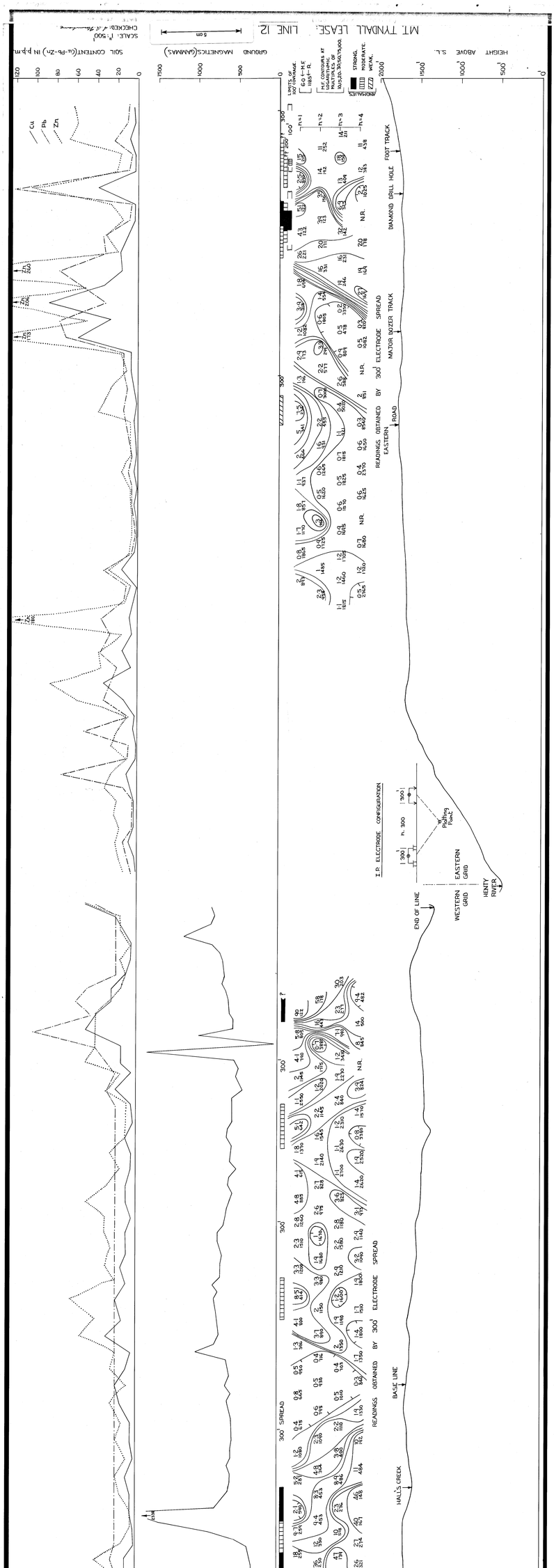
TYNDALL SHEET 1

COMPOSITE LINE PROFILES

1/009

LINES 10N + 12N





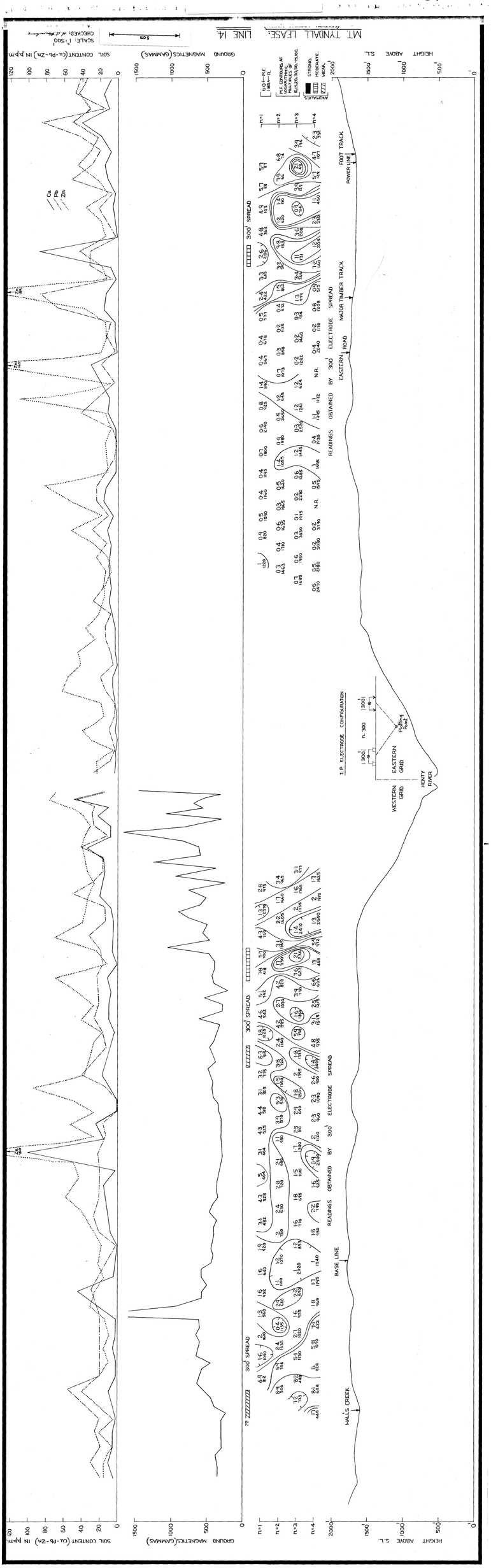
TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

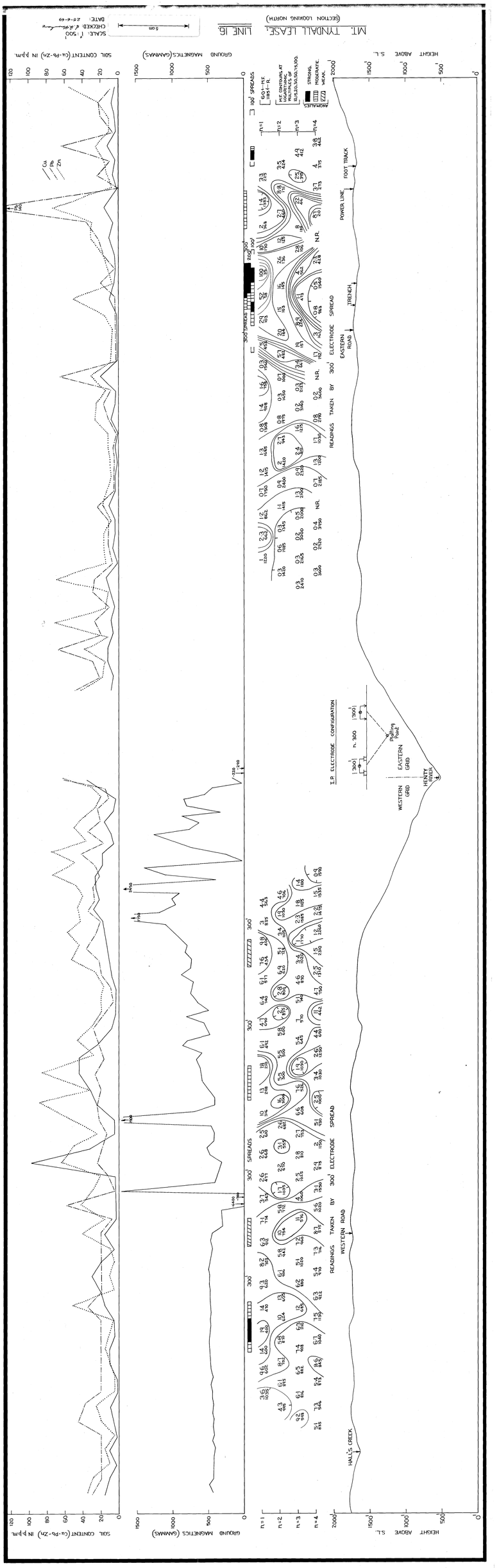
TYNDALL SHEET 1

COMPOSITE LINE PROFILES

1/010

LINES 14N+16N



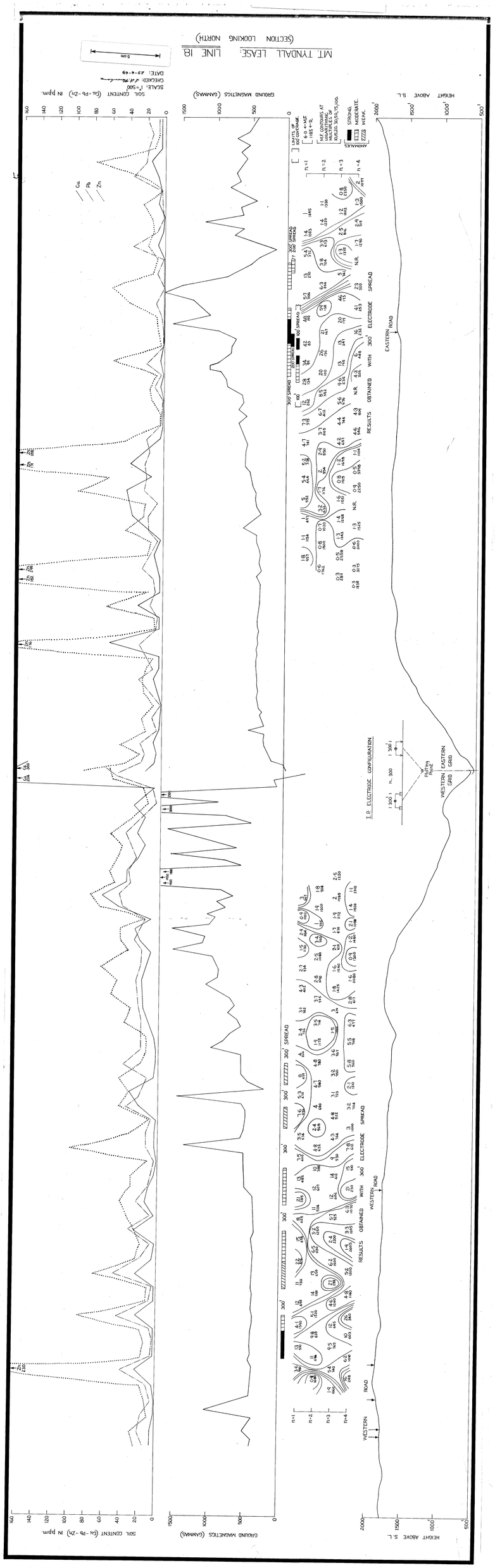


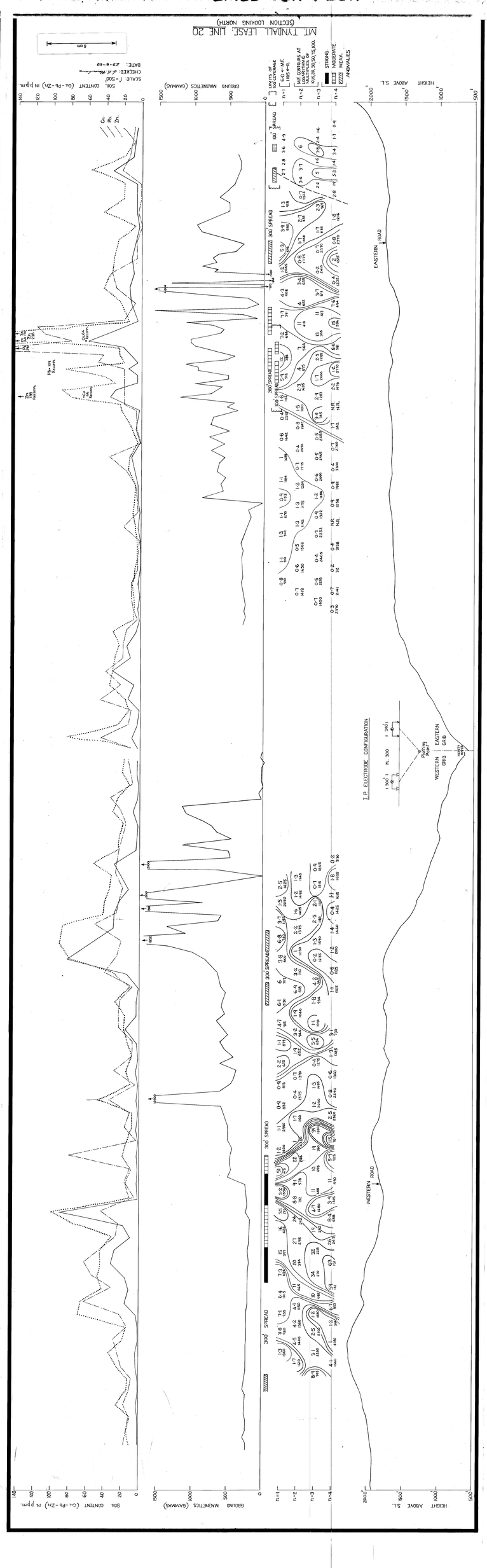
TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

TYNDALL SHEET 1

COMPOSITE LINE PROFILES LINES 18N +20N

1/011





TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

TYNDALL SHEET 2(W) GEOLOGY OUTCROP

2/103

1975

ANG COORDINATES

THE CONSOLIDATED SYNDICATE

MT. TYNDALL AREA
E.L. 9/66
SHEET 2 WEST
OUTCROP GEOLOGY

DRAWN BY N.W.S.H.
TRACED BY R.G.W.
CHECKED BY
DATE 30·6·75
SCALE 1:6000

FIG.9

8.6cm

355,000 mE

353,000 mE

357,000 mE

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367,000 mE

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1103,000 mE

1105,000 mE

1107,000 mE

1109,000 mE

1111,000 mE

1113,000 mE

1115,000 mE

1117,000 mE

1119,000 mE

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1177,000 mE

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1197,000 mE

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1:6000 TYNDALL SHEET 2 GEOCHEMISTRY Cu

2/301

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

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

DRAWN BY: J. Newsome
TRACED BY: L. Newsome
CHECKED BY: L. Newsome
DATE: 25-9-68
SCALE: 1" = 200'

MT. TYNDALL LEASE
SHEET 2
GEOCHEMICAL SAMPLING RESULTS
COPPER CONTOURS

LEGEND

40 - 60 p.p.m.
60 - 80 p.p.m.
>80 p.p.m.
"Upper" soil sample (Usually A-horizon)

40 - 60 p.p.m.
60 - 80 p.p.m.
>80 p.p.m.
"Lower" soil sample (B or C-horizon)

Transverse Line and Sample No.
Zn-Cu Content (p.p.m.) of "Upper" Sample (usually A-horizon)
Zn-Cu Content (p.p.m.) of "Lower" Sample (B or C-horizon)
Zn-Cu Content (p.p.m.) of Stream Sediment Sample

5 cm

1:6,000

TYNDALL SHEET 2

GEOCHEMISTRY Pb

2/302

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

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

MT. TYNDALL LEASE
SHEET 2
GEOCHEMICAL SAMPLING RESULTS
LEAD CONTOURS

DRAWN BY: L.Nunn
TRACED BY: L.M.
CHECKED BY: L.M.
DATE: 20-9-88
SCALE: 1:2500

LEGEND

40-60 p.p.m.
60-80 p.p.m.
>80 p.p.m.
40-60 p.p.m.
60-80 p.p.m.
>80 p.p.m.

"NEW" SOIL SAMPLE (Mostly A-Horizon)

"OLD" SOIL SAMPLE (B- or C-Horizon)

Traverse Line and Sample No.

Zinc Content (p.p.m.) of Upper Sample (Mostly A-Horizon)

Zinc Content (p.p.m.) of Lower Sample (B- or C-Horizon)

Zinc Content (p.p.m.) of Stream Sediment Sample

5 cm

1:6,000 TYNDALL SHEET 2 GEOCHEMISTRY Zn

2/303

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

THE MOUNT LYELL M & R. COY. LTD
GEOLOGICAL DEPARTMENT
DRAWN BY: J. Newsome
TRACED BY: L.M.
CHECKED BY: L.M.
DATE: 25-9-68
SCALE: 1 = 250'

MT. TYNDALL LEASE
SHEET 2
SOIL SAMPLING RESULTS
ZINC CONTOURS

LEGEND

40-60 p.p.m.
60-80 p.p.m.
>80 p.p.m.
"open" Soil Sample (Usually A-Horizon)

40-60 p.p.m.
60-80 p.p.m.
>80 p.p.m.
"closed" Soil Sample (B - or C-Horizon)

Traverse Line and Sample No.
Zinc Content (p.p.m.) of Open Sample (usually A-Horizon)
Zinc Content (p.p.m.) of "Closed" Sample (B- or C-Horizon)
Zinc Content (p.p.m.) of Stream Sediment Sample

1 cm = 250'

1:6,000

TYNDALL
SHEET 2

GEOCHEMISTRY
ANOMALIES

2/304

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

Cu - Anomaly [>60ppm]
Pb - Anomaly [>60ppm]
Zn - Anomaly [>60ppm]

1 cm

THE MOUNT LYELL M & R. COY. LTD.
GEOLOGICAL DEPARTMENT
DRAWN BY: L. Nicholas
TRACED BY: L. Nicholas
DATE: 20-9-69
SCALE: 1" = 200'

M.T. TYNDALL LEASE
SHEET 2
Cu-Pb-Zn-GEOCHEMICAL ANOMALIES
BASED ON RECONNAISSANCE SURVEY
1967-69

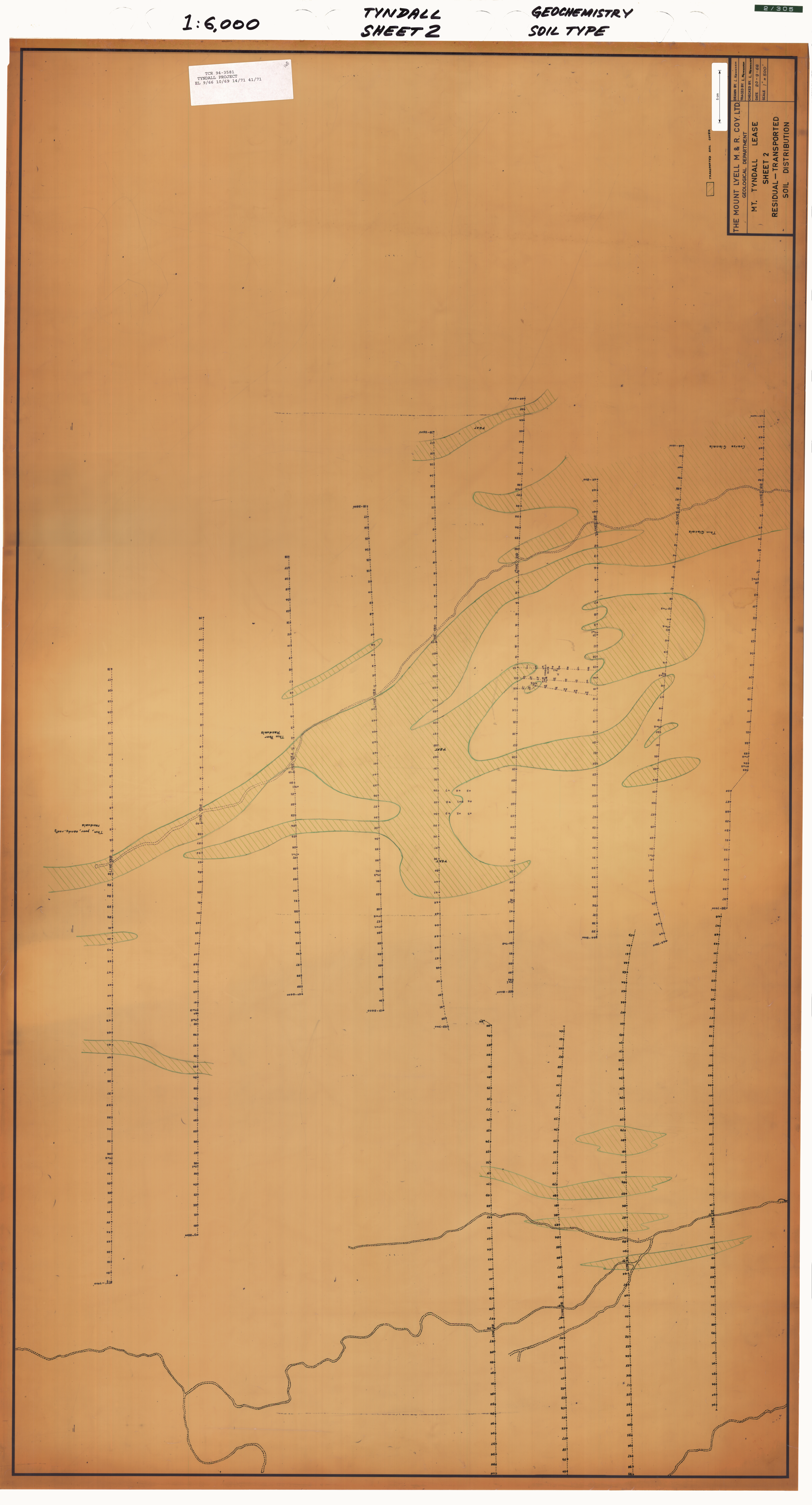
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TYNDALL
SHEET 2

GEOCHEMISTRY
SOIL TYPE

2/305

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71



TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

TYNDALL SHEET 2 (WEST)

GEOCHEMISTRY SOILS

THE CONSOLIDATED SYNDICATE

MT. TYNDALL AREA
E.L. 9/66
SHEET 2 WEST
DETAILED SOIL SAMPLING

DRAWN BY N.S-H.
TRACED BY
CHECKED BY
DATE APRIL '76
SCALE 1:6000

ANG COORDINATES

5 cm

HORIZON

-80 #
-10 + 80 #

32W
30W

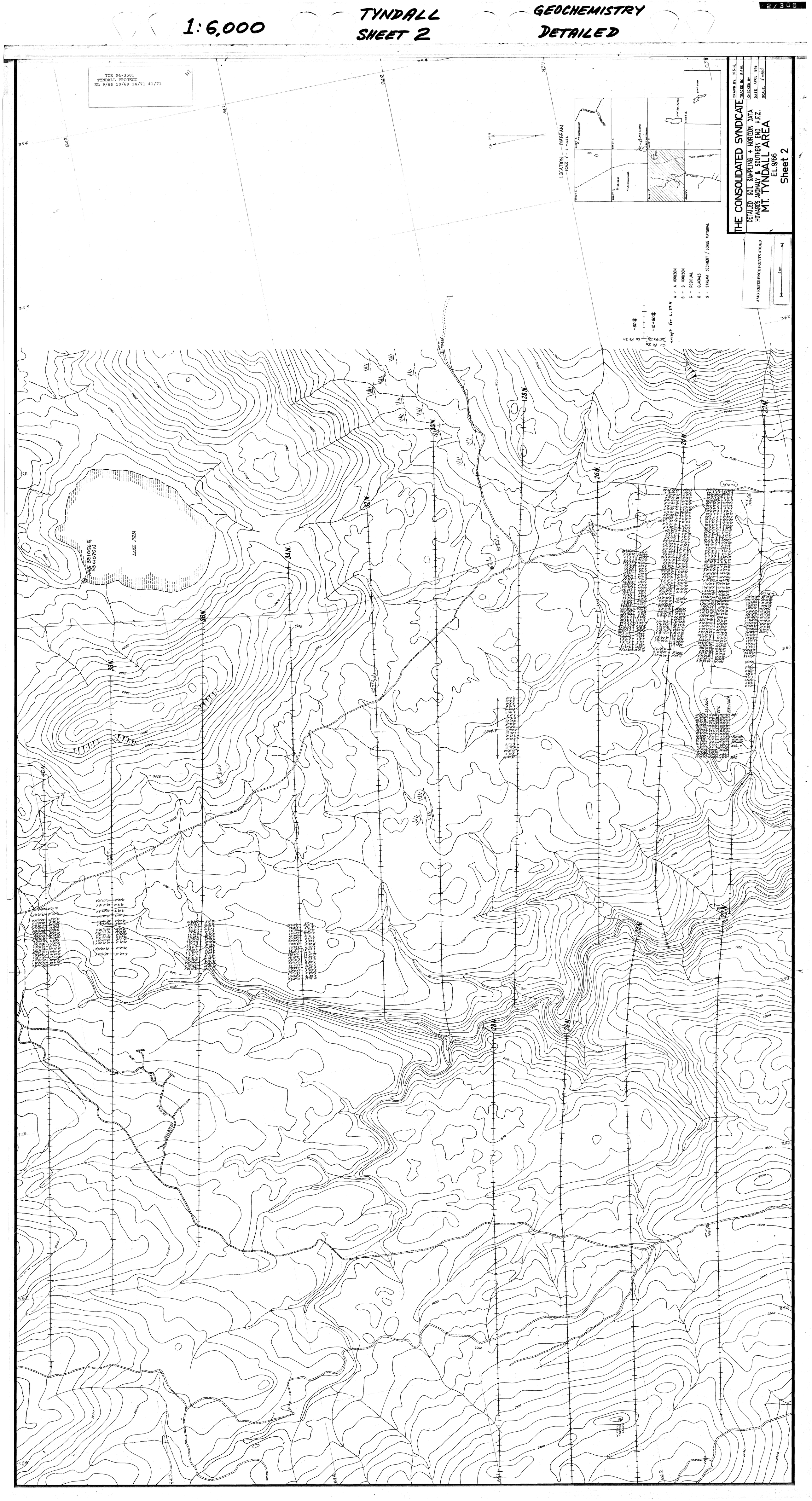
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2800
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3200

358,000 Yds E
357,000 Yds E
356,000 Yds N
355,000 Yds E
354,000 Yds E
353,000 Yds E
352,000 Yds E
351,000 Yds E
844,000 Yds N
843,000 Yds N
842,000 Yds N
841,000 Yds N
840,000 Yds N

1:6,000

TYNDALL
SHEET 2

GEOCHEMISTRY
DETAILED



1:6000 TYNDALL SHEET 2 GEOPHYSICS GROUND MAGS.

M/401

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

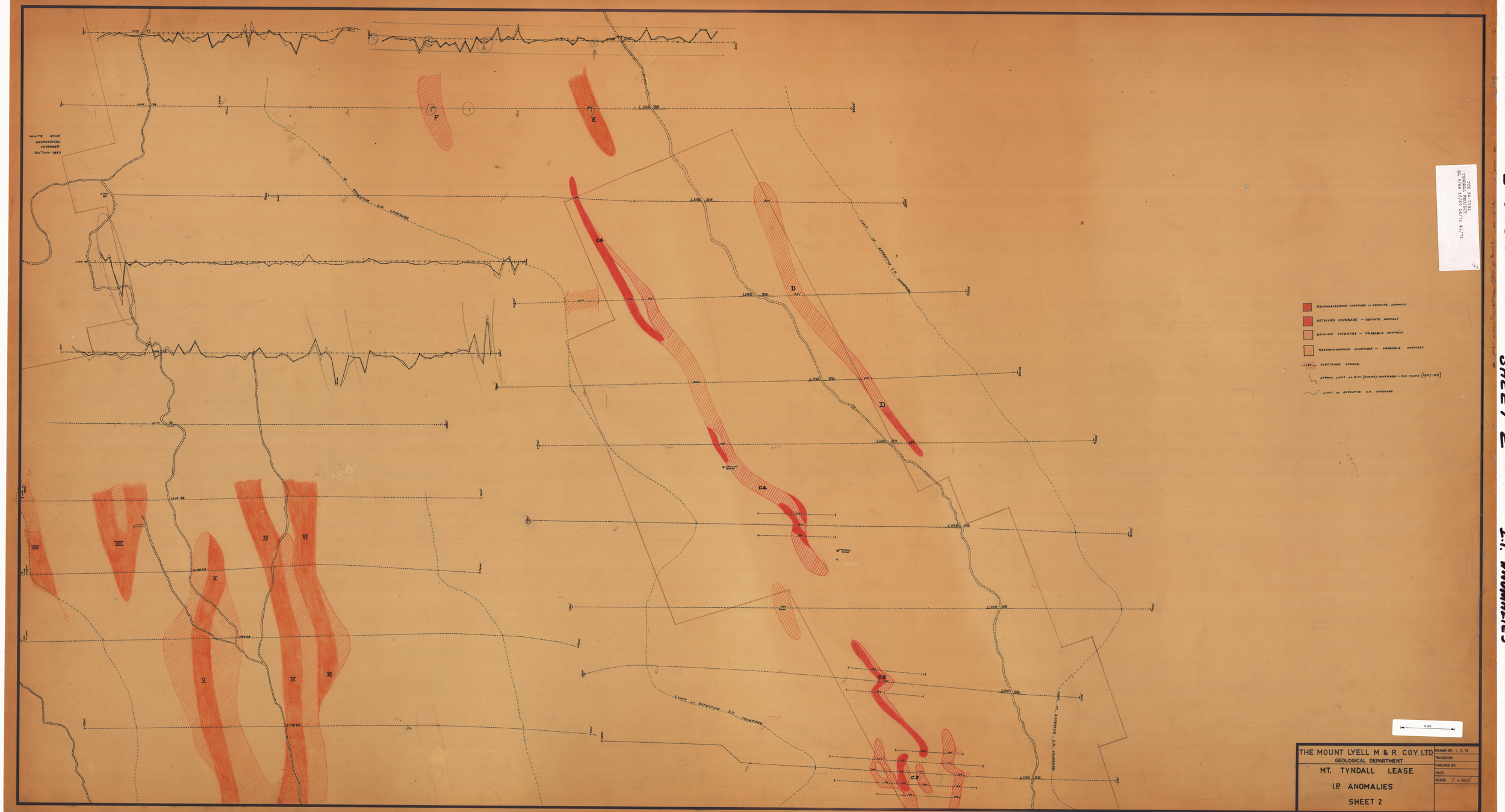
93

6 cms

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

DRAWN BY: A.N.N.
CHECKED BY:
DATE:
SCALE: 1" = 500'

MT. TYNDALL LEASE
GROUND MAGNETICS SURVEY
SHEET 2



1:6000

TYNDALL
SHEET 2

GEOPHYSICS
I.P. ANOMALIES

1:6000 TYNDALL SHEET 2 GEOPHYSICS RESISTIVITY

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71
145

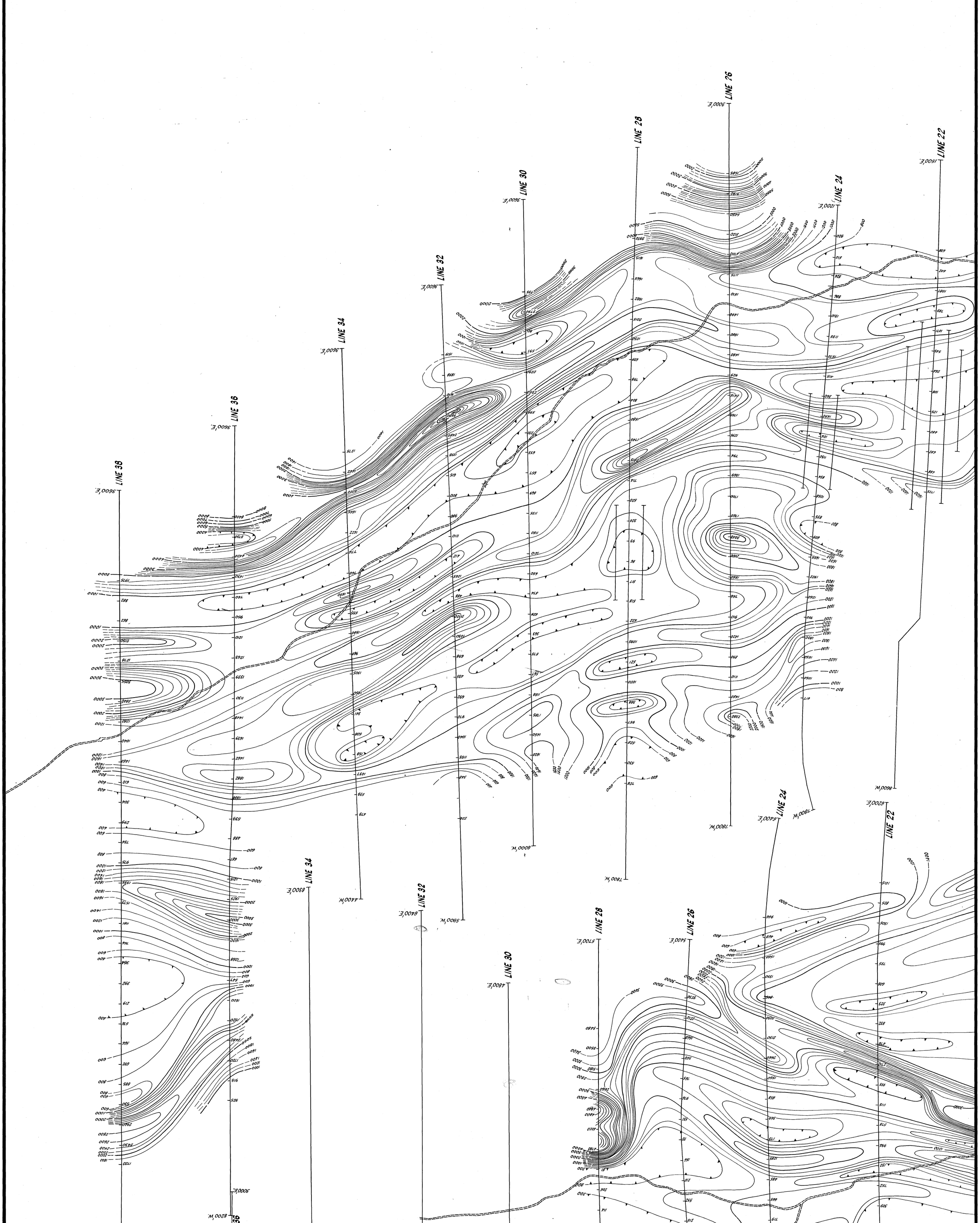
5cm

CONTOUR INTERVAL : 200 OHM FEET/2π.

THE CONSOLIDATED SYNDICATE

MT. TYNDALL AREA E.L. 9/66
SHEET 2
APPARENT RESISTIVITY (DIPOLE-DIPOLE ARRAY N=1)
McPHAR GEOPHYSICS PTY. LTD. 1967-68

DRAWN BY B. CRAVEN.
TRACED BY R.G.W.
CHECKED BY
DATE 3:1:74
SCALE 1:6000

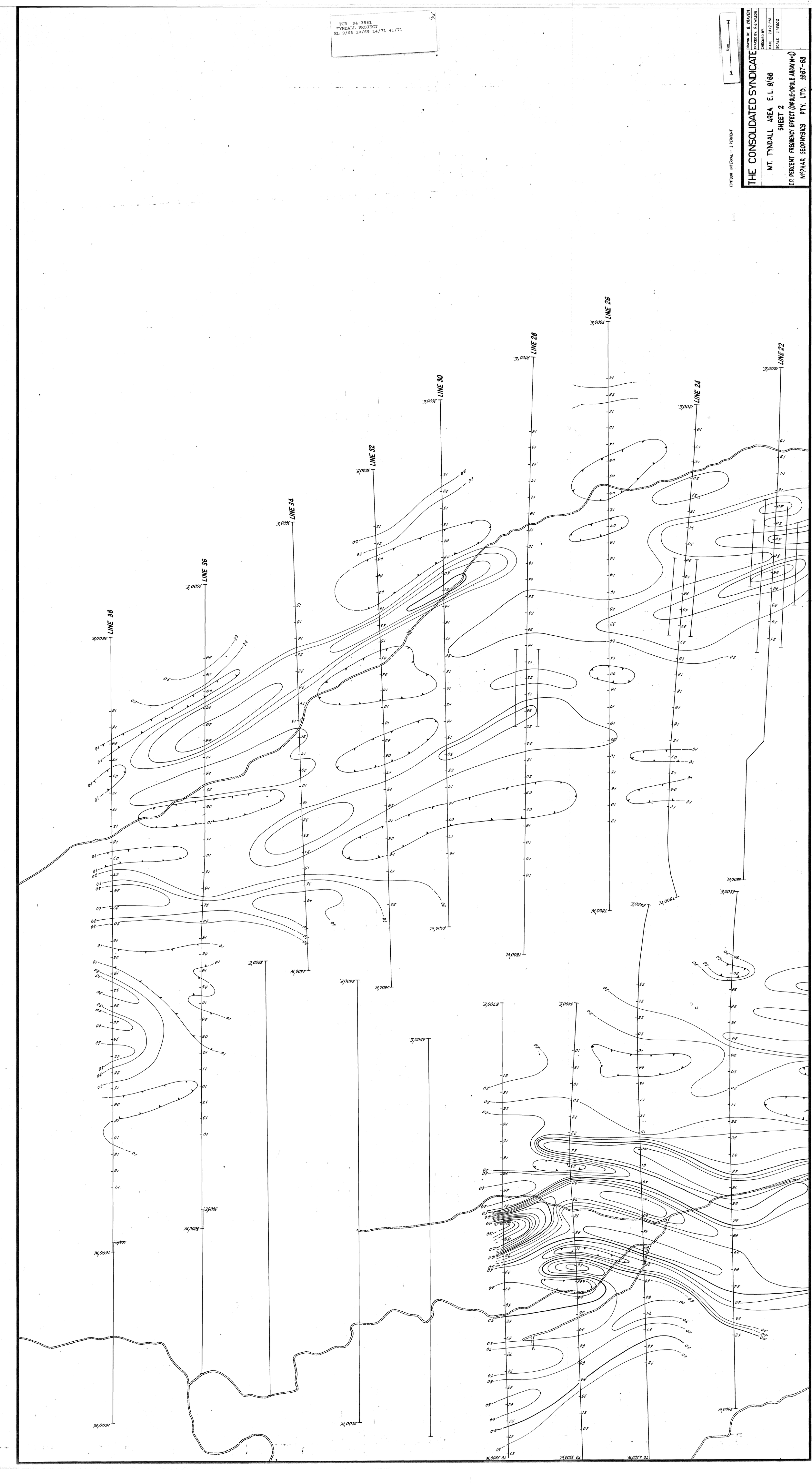


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TYNDALL
SHEET 2

GEOPHYSICS
CHARGEABILITY

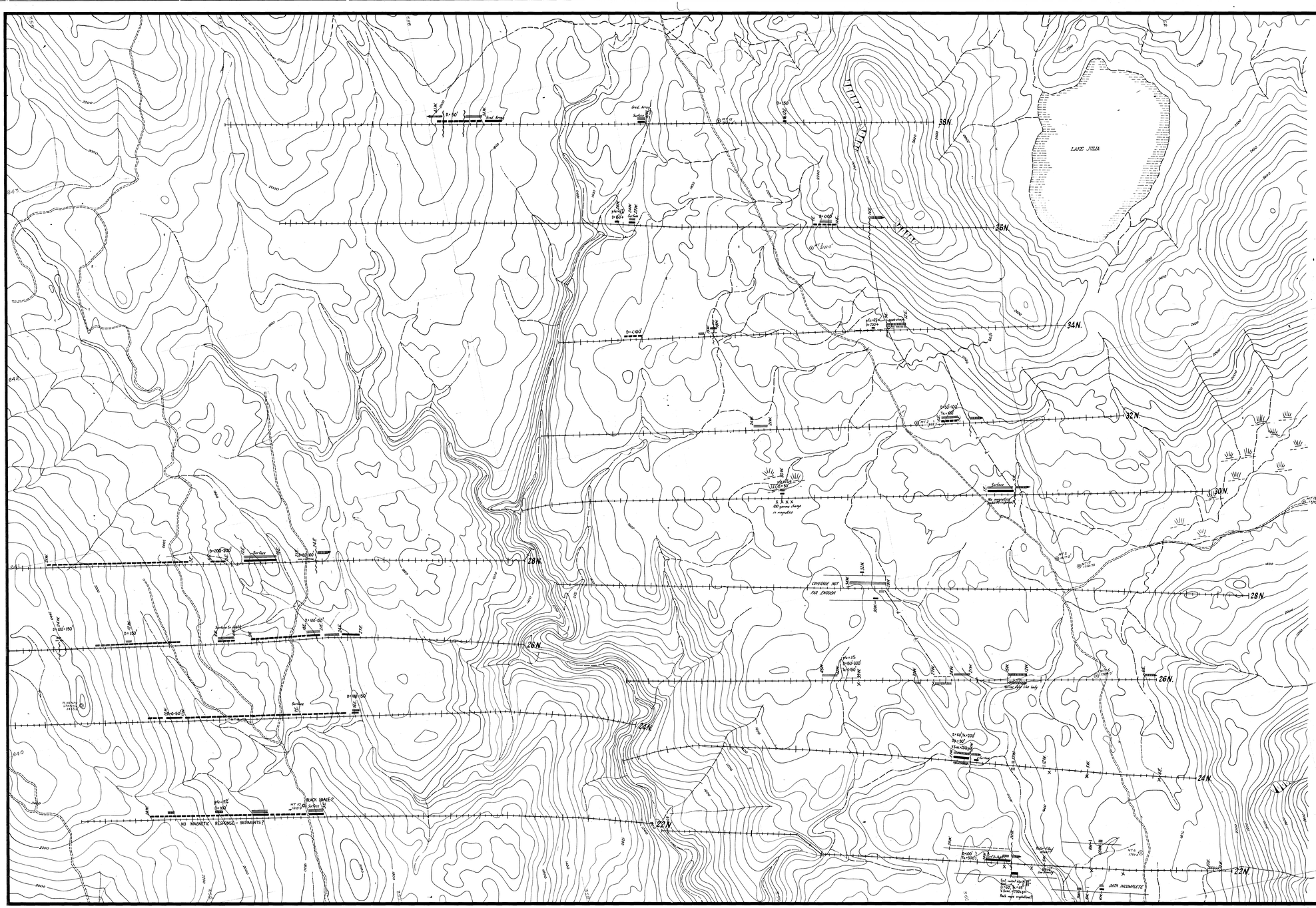
TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

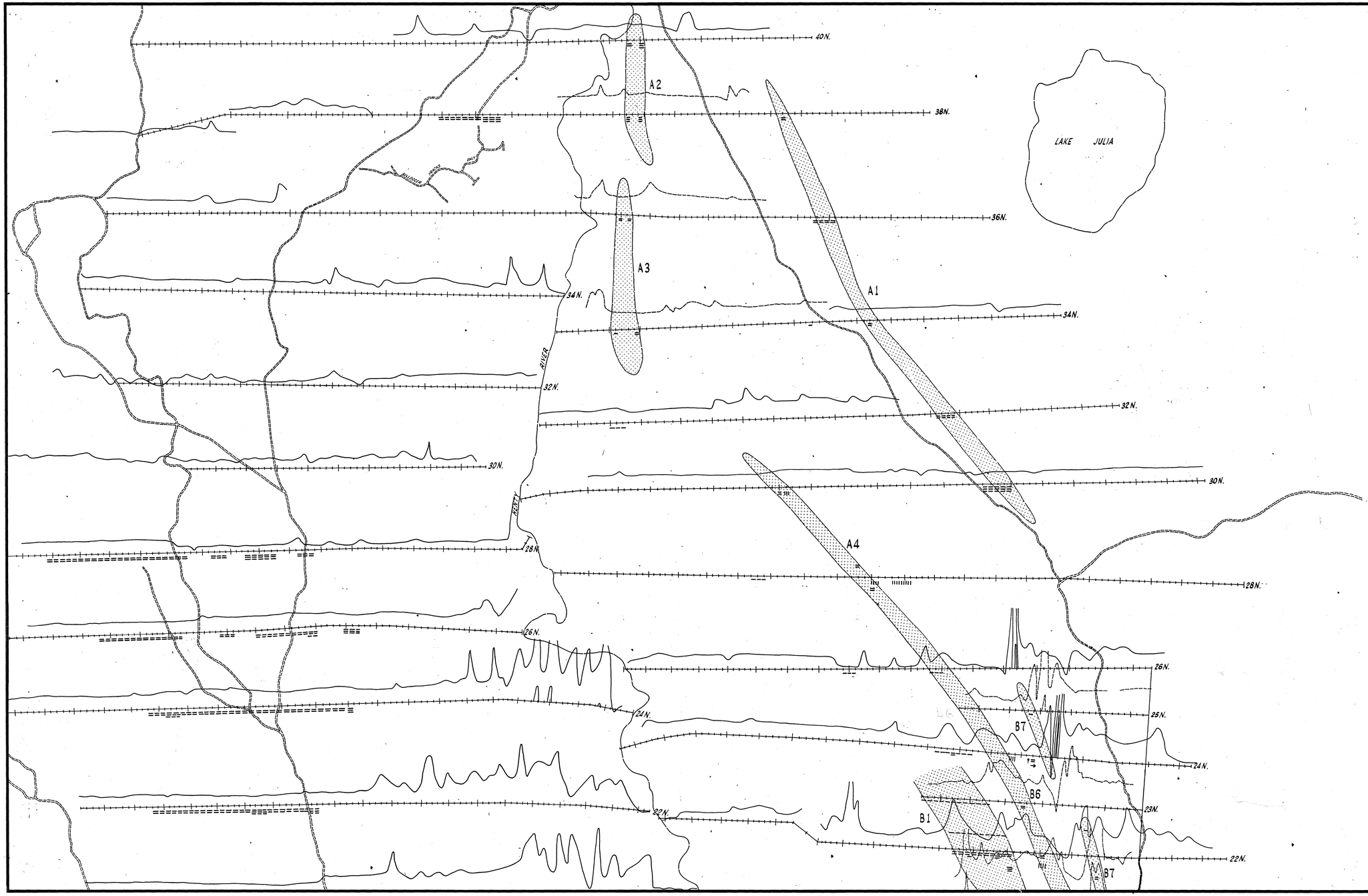


THE CONSOLIDATED SYNDICATE

DRAWN BY: B. CRAVEN
TRACED BY: R.&M.SON
CHECKED BY:
DATE: 20-2-74
SCALE: 1:6000

MT. TYNDALL AREA E.L. 9/66
SHEET 2
I.P. PERCENT FREQUENCY EFFECT (DIPOLE-DIPOLE ARRAY N=1)
McPHAR GEOPHYSICS PTY. LTD. 1967-68


38N.
36N.
34N.
32N.
30N.
28N.
26N.
24N.
22N.
LAKE JULIA
NO MAGNETIC RESPONSE - SEDIMENTS?
BLACK SHALE?
COVERAGE NOT FOR ENDUSH
DATA INCOMPLETE
400 gamma change in magnetics
ANOMALIES
I.P.
CHARGEABILITY
STRONG
MODERATE
WEAK
RESISTIVITY
HIGH
LOW
MAGNETICS
HIGH
LOW
GRAVITY
E.M.
GEOPHYSICAL CONTACTS
D. = DEPTH
Th. = THICKNESS
DIP = DIP
V.Susc. = VOLUME SUSCEPTIBILITY (MAGNETICS)
p.f.e. = PERCENT FREQUENCY EFFECT (I.P.)
LOCATION DIAGRAM
SCALE: 1" = 16 MILES
SHEET 1
SHEET 2
SHEET 3
SHEET 4
SHEET 5
SHEET 6
SHEET 7
SHEET 8
MT. TYNDALL
LAKE SELENE
LAKE HALLEMAND
LAKE ANNA
LAKE MACLEOD
LAKE ANNA
THE CONSOLIDATED SYNDICATE
INTERPRETATION OF MePHAR DATA
BY J. IRVINE, APRIL 1974
MT. TYNDALL AREA
EL. 9/66
Sheet 2
DRAWN BY J.I.
TRACED BY R.G.M.
CHECKED BY
DATE 12-6-74
SCALE 1:6000
1:6000
TYNDALL
SHEET 2
GEOPHYSICS
INTERPRETATION
2408



I.P. ANOMALIES

- FIRST ORDER ANOMALY.
- SECOND ORDER ANOMALY.
- THIRD ORDER ANOMALY.
- I.P. ZONES.

MAGNETICS

1 INCH = 1000 GAMMAS.

- = FLUXGATE VERTICAL FIELD.
- = PROTON TOTAL FIELD.

E.M. ANOMALIES

- E.M. CONDUCTORS - RIO TINTO

5cm

THE CONSOLIDATED SYNDICATE	DRAWN BY: N.S-H.
	TRACED BY: R.G.W.
MT. TYNDALL AREA	CHECKED BY:
E.L. 9/66	DATE: 8-7-75
SHEET 2	SCALE: 1:6,000
MAGNETIC PROFILES & I.P. ANOMALIES	FIG.13

1:6000

TYNDALL SHEET 2

GEOPHYSICS INTERPRETATION

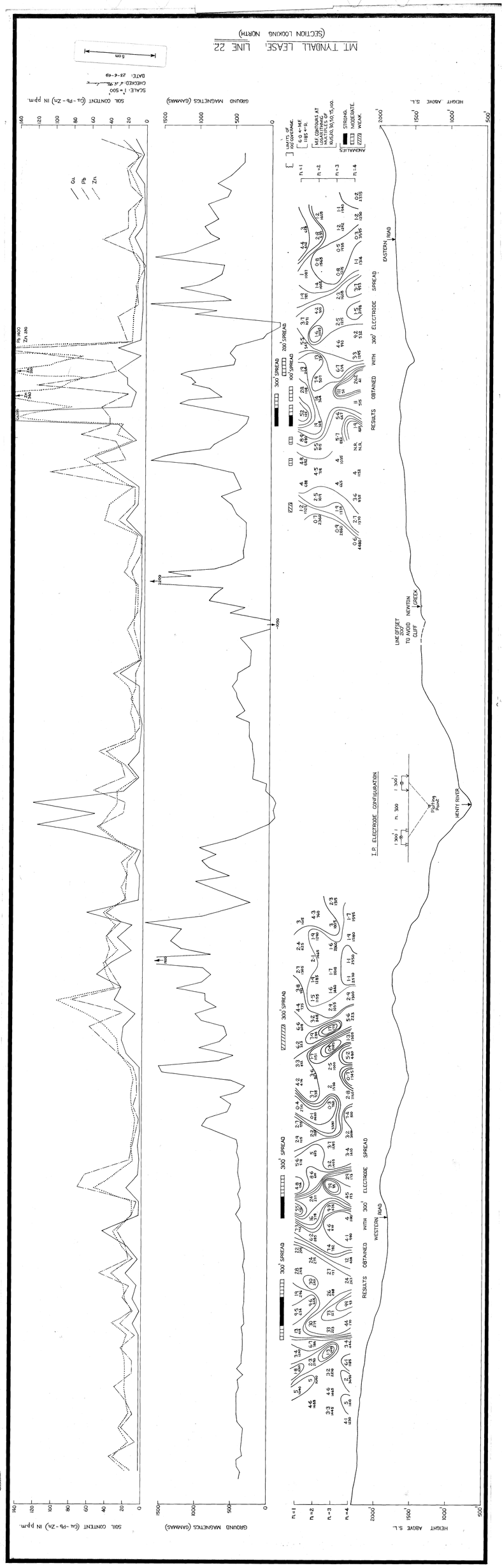
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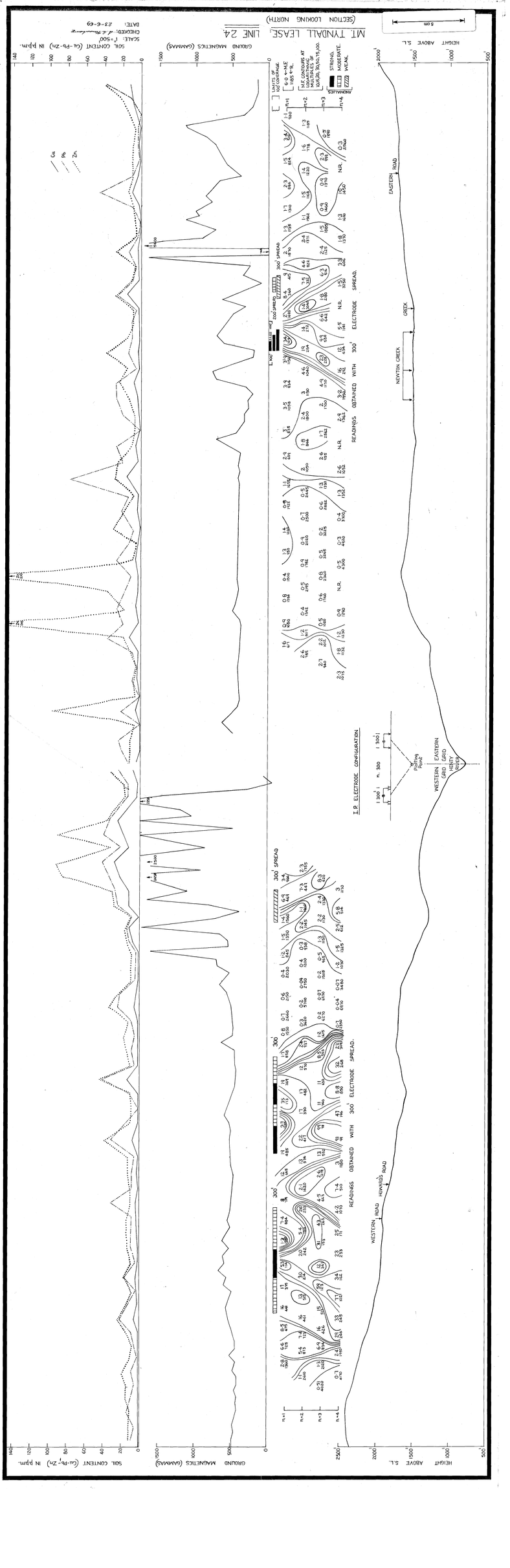
TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

TYNDALL SHEET 2

COMPOSITE LINE PROFILES

LINES 22, 24



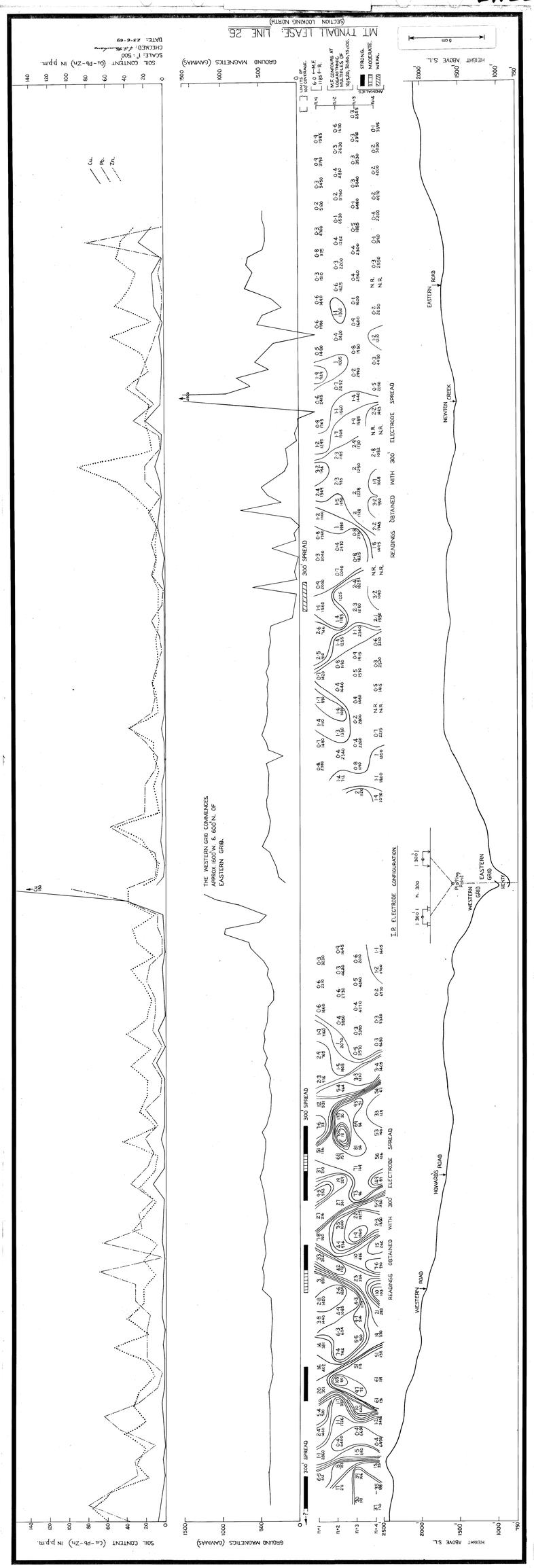


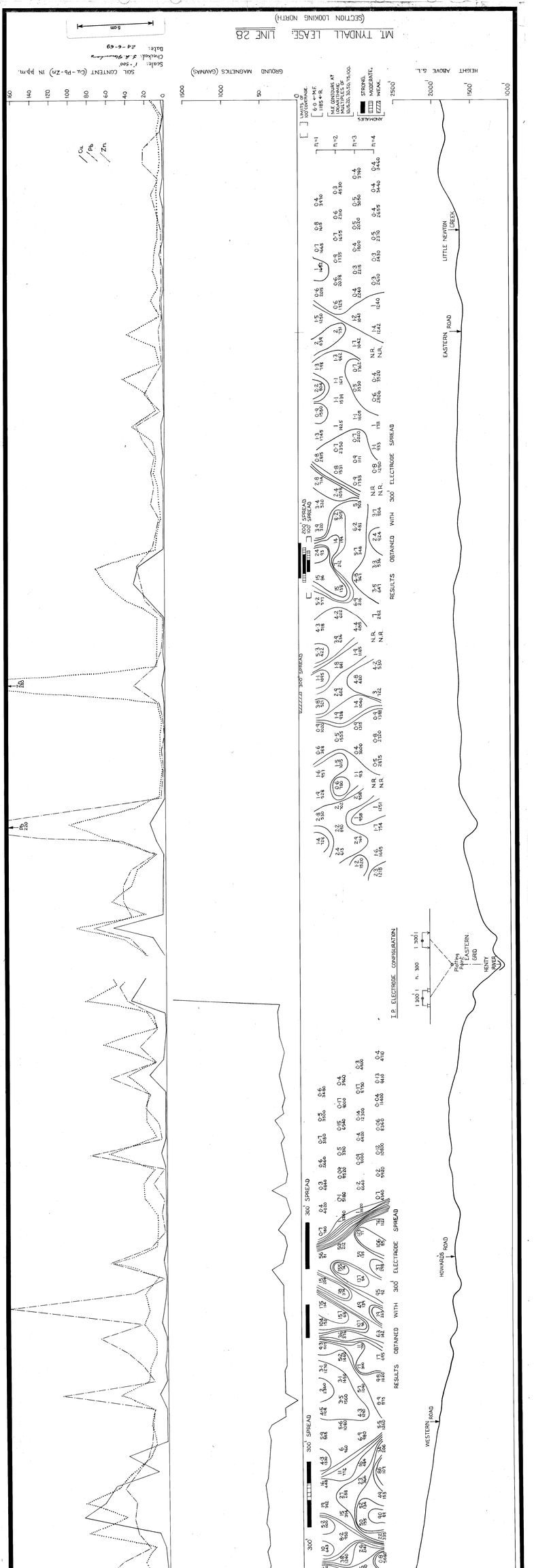
TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

TYNDALL SHEET 2

COMPOSITE LINE PROFILES

LINES 26, 28





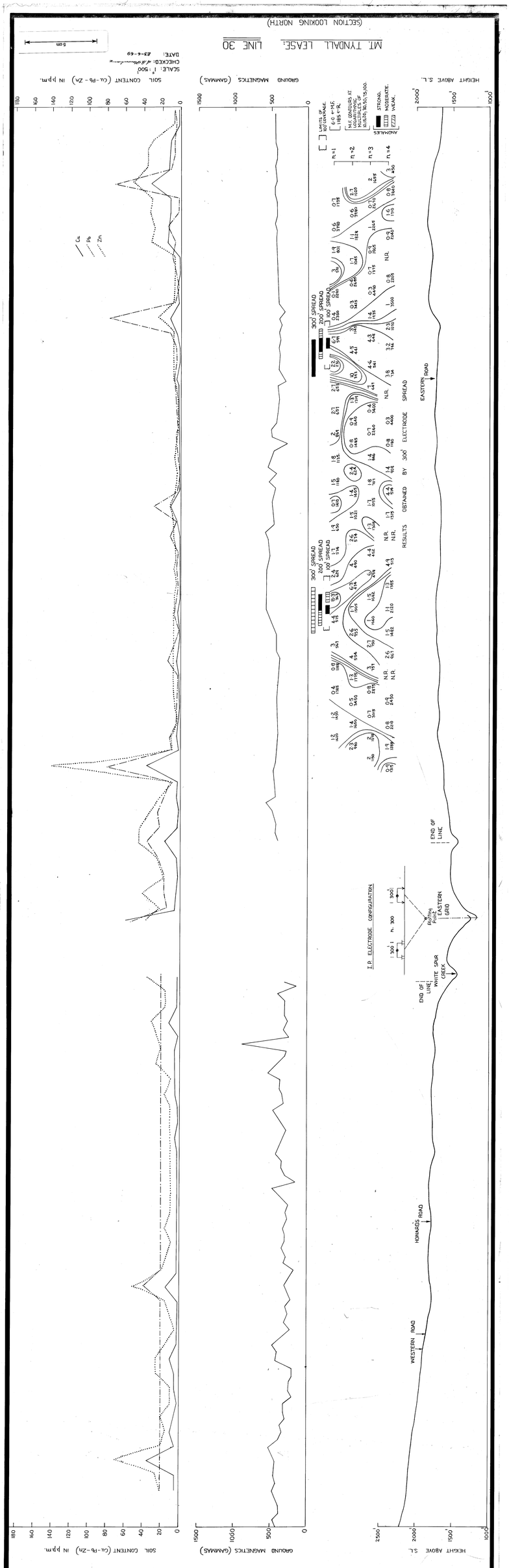
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TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

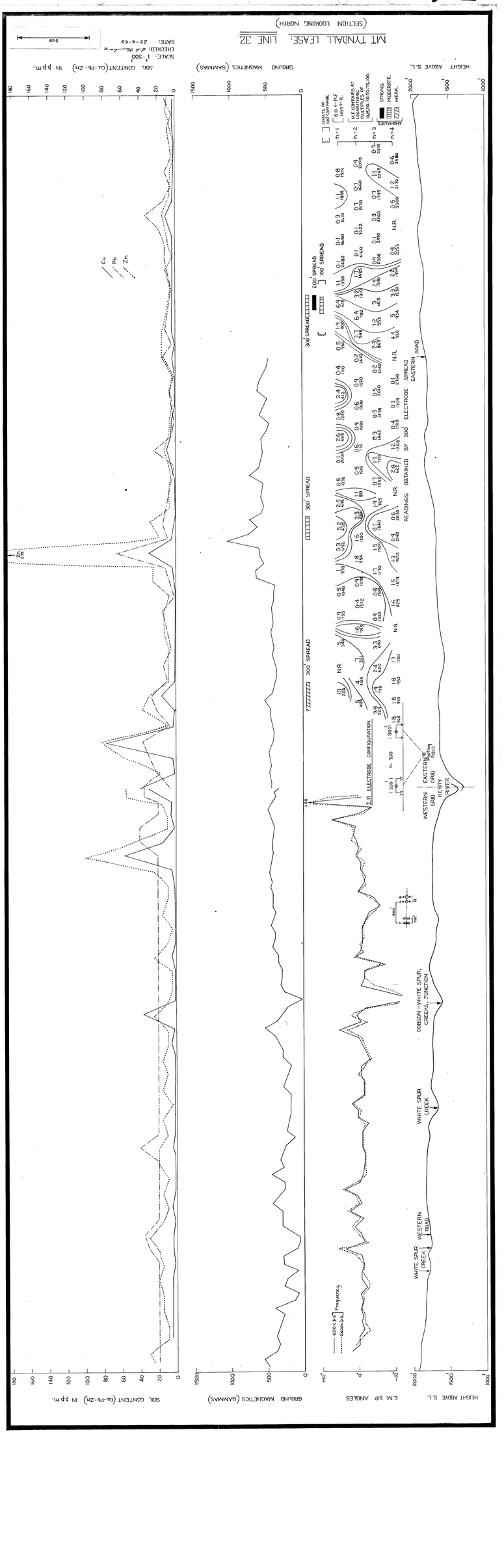
TYNDALL SHEET 2

COMPOSITE LINE PROFILES

2/014

LINES 30, 32





TCR 94-3581
TYNDALL PROJECT
PL 8/SC 10/69 14/71 41/71

152

TYNDALL SHEET 2

COMPOSITE LINE PROFILES

LINES 34, 36

2/015

MT TYNDALL LEASE: LINE 34

(SECTION LOOKING NORTH)

SCALE: 1"=500
DATE: 23-6-69
CHECKED: J.A. McCuaig

5 cm

SOIL CONTENT (Cu-Pb-Zn) IN p.p.m.

Cu
Pb
Zn

GROUND MAGNETICS (GAMMAS)

E.M. DIP ANGLES

600 c.p.s.
2400 c.p.s.
Frequency

HEIGHT ABOVE S.L.

THE PINNACLE
WESTERN ROAD
WHITE SPRUCE CREEK
DOBSON CREEK
JONES CREEK
WESTERN GRID
EASTERN GRID
EASTERN ROAD

100' SPREAD
200' SPREAD
300' SPREAD

I.P. ELECTRODE CONFIGURATION

WESTERN GRID
EASTERN GRID
HENRY RIVER
Pilphing Point

LIMITS OF 600' COVERAGE.
6.0 ← M.F. 1185 → R.

M.F. CONTOURS AT LOGARITHMIC MULTIPLES OF 10,20,30,50,75,100.

ANOMALIES: STRONG, MODERATE, WEAK.

READINGS OBTAINED BY 300' ELECTRODE SPREAD

N.R.

MT TYNDALL LEASE: LINE 36

(SECTION LOOKING NORTH)

SCALE: 1"=500
DATE: 23-6-69
CHECKED: J.A. McCuaig

5 cm

SOIL CONTENT (Cu-Pb-Zn) IN p.p.m.

GROUND MAGNETICS (GAMMAS)

HEIGHT ABOVE S.L.

WESTERN ROAD
DOBSON CREEK
JONES CREEK
WESTERN GRID
EASTERN GRID
EASTERN ROAD
HENRY RIVER

100' SPREAD
200' SPREAD
300' SPREAD

I.P. ELECTRODE CONFIGURATION

LIMITS OF 600' COVERAGE.
6.0 ← M.F. 1185 → R.

M.F. CONTOURS AT LOGARITHMIC MULTIPLES OF 10,20,30,50,75,100.

ANOMALIES: STRONG, MODERATE, WEAK.

READINGS OBTAINED BY 300' ELECTRODE SPREAD

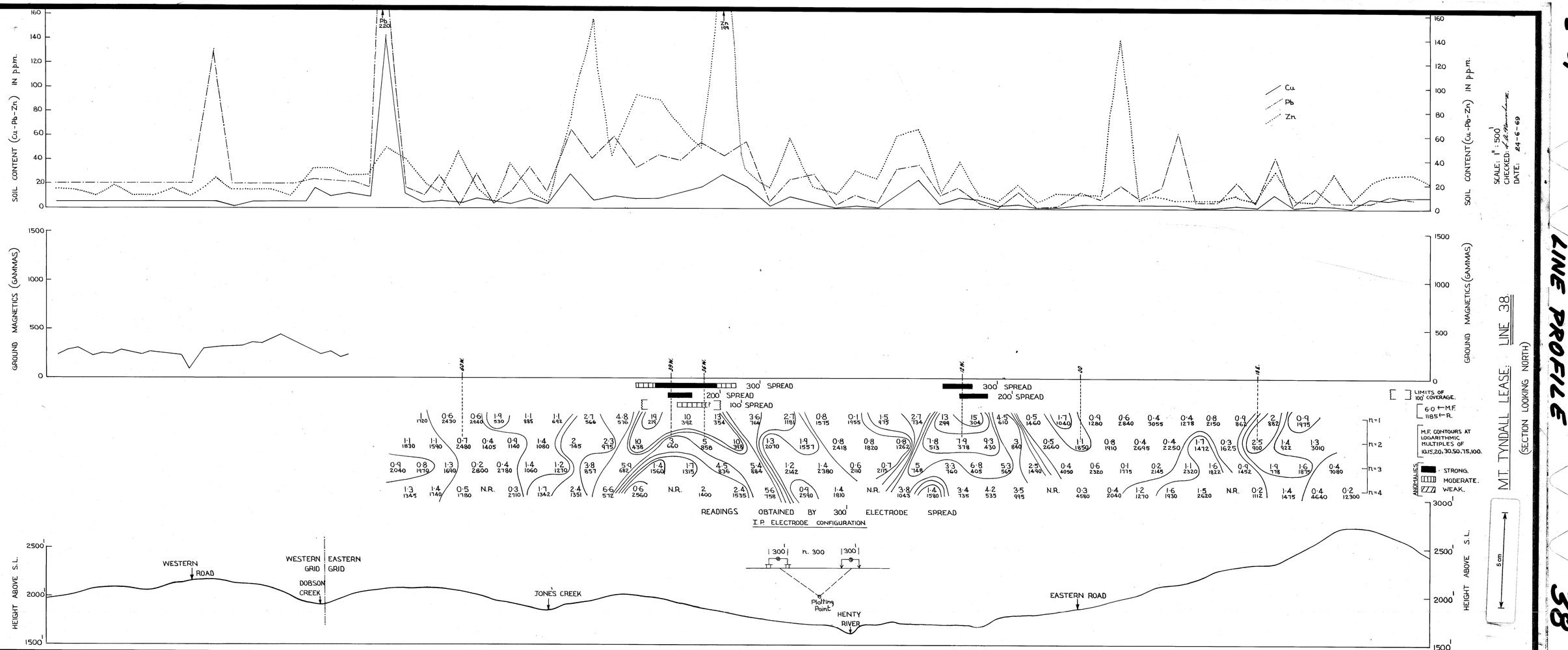
N.R.

1:6,000

TYNDALL - SHEET 2

COMPOSITE LINE PROFILE

LINE 38



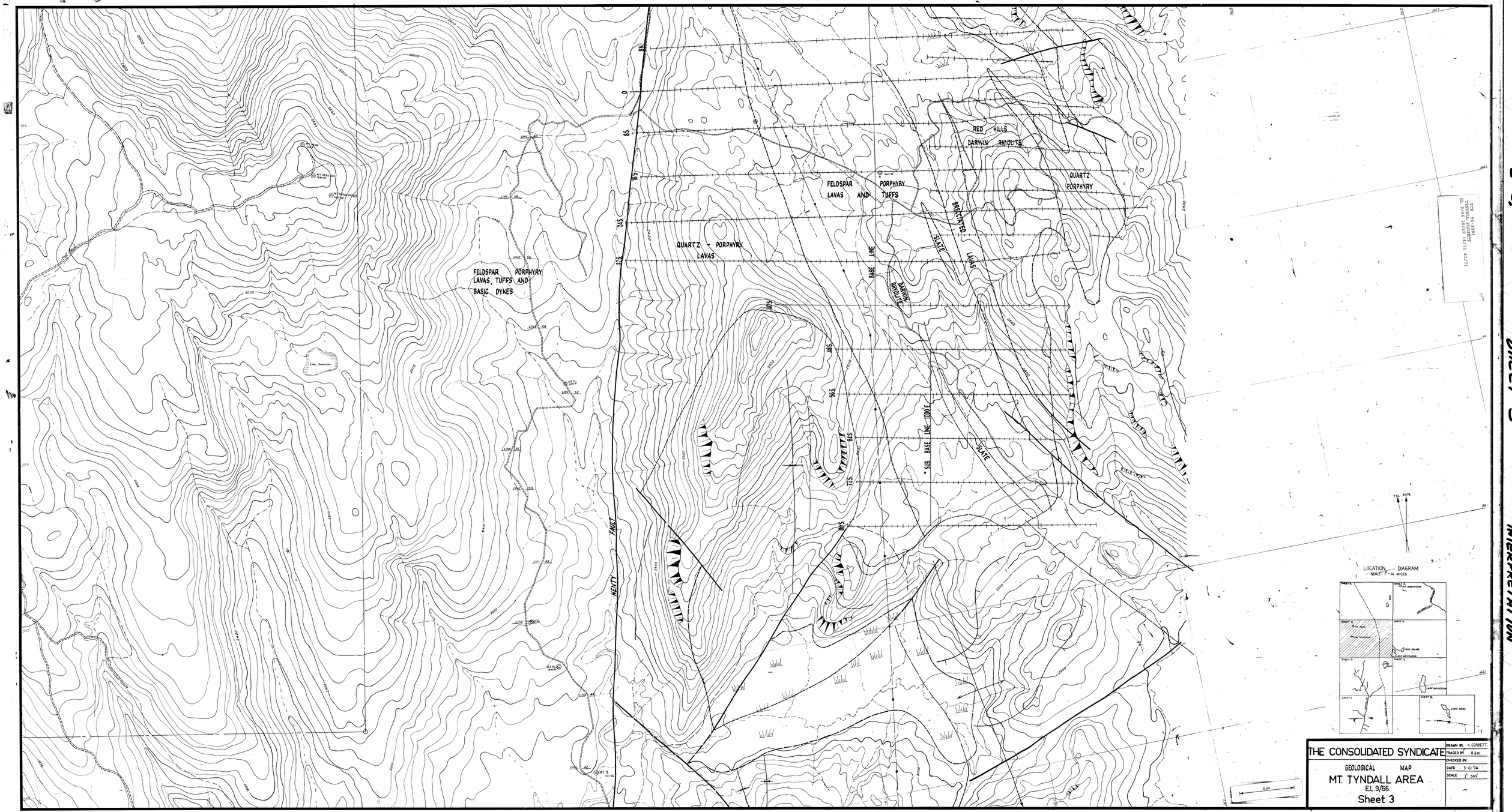
SCALE: 1" : 500'
CHECKED: [signature]
DATE: 24-6-69

MT. TYNDALL LEASE: LINE 38.

(SECTION LOOKING NORTH)

LINE 38

2016


FELDSPAR PORPHYRY LAVAS, TUFFS AND BASIC DYKES
QUARTZ - PORPHYRY LAVAS
FELDSPAR PORPHYRY LAVAS AND TUFFS
RED HILLS DARWIN RHYOLITE
QUARTZ PORPHYRY
BRECCIATED SLATE
SLATE
DARWIN RHYOLITE
SUB BASE LINE 1000
HENTY FAULT
DYKE
LIME STONE
LOCATION DIAGRAM
SCALE 1" = 16 MILES
SHEET 1
SHEET 2
SHEET 3
SHEET 4
SHEET 5
SHEET 6
SHEET 7
SHEET 8
LAKE ST. ALBANS
LAKE MACKINNON
LAKE SELINA
LAKE WESTWOOD
LAKE GRACE
LAKE ADELAIDE
5 cm
THE CONSOLIDATED SYNDICATE
GEOLOGICAL MAP
MT. TYNDALL AREA
EL. 9/66.
Sheet 3
DRAWN BY. K. CORSETT
TRACED BY. R.G.H.
CHECKED BY.
DATE 3-6-'74
SCALE 1" = 500'
TCN 24-3558
ELEVATION
23.9/66 10/69 14/71 41/71
1:6,000
TYNDALL
SHEET 3
GEOLOGY
INTERPRETATION
1974
5/20/74

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

TYNDALL SHEET 3

GEOLOGY OUTCROP

3/102

1975

ANG COORDINATES

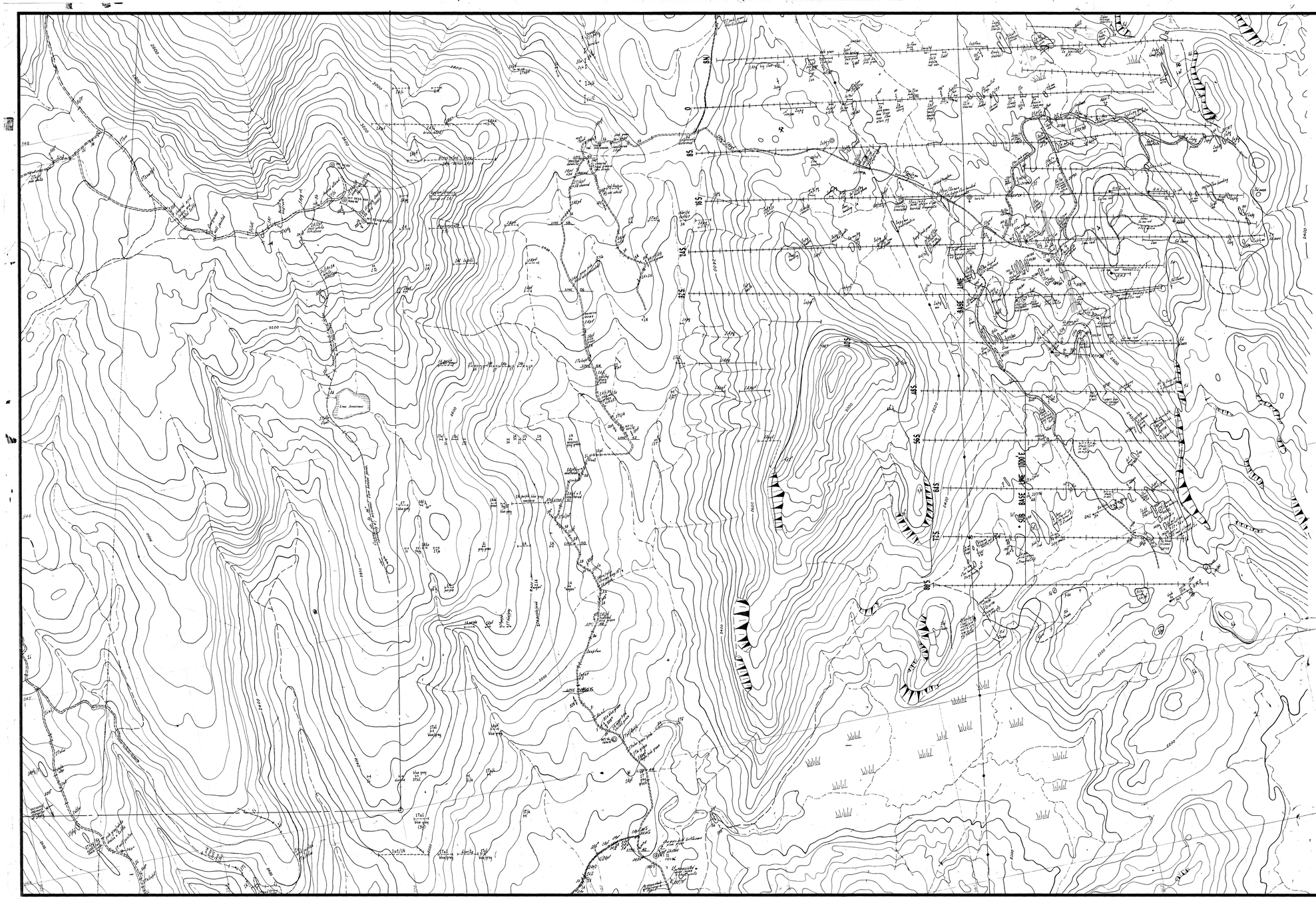
THE CONSOLIDATED SYNDICATE

DRAWN BY: N.W.F.M.
TRACED BY: R.G.W.
CHECKED BY:
DATE: 3 7 '75
SCALE: 1:6000

MT. TYNDALL AREA
E.L. 9/66
SHEET 3 WEST
OUTCROP. GEOLOGY

FIG. 10

5 cm



KEY

1 ACID
2 INTERMEDIATE
3 BASIC
4 ULTRABASIC

A EXTRUSIVE
B HYPABYSSAL
P PLUTONIC
T PYROCLASTIC
I IGNIMBRITE

w WELDED
x CRYSTAL
L LITHIC
v VITRIC
aa AUTOBRECCIATED
c AGGLOMERATE
p PHENOCRYSTS
f FELDSPAR
h HORNBLENDE
al ALBITE
q QUARTZ

SEDIMENTS.

5 a ARGILLACEOUS
b ARENACEOUS
c RUDACEOUS
d
e CHEMICAL

POLYMICT
OLIGMICT

c CLASTS
q QUARTZ
f FELDSPAR
v VOLCANIC CLASTS
s SEDIMENT CLASTS

- OUTCROP
- FLOAT INTERPRETATIONS
- FAULT
- FAULT ?
- UNCONFORMITY
- BEDDING, DIP
- FOLIATION
- JOINTS
- LINEATION
- LINEATION VERTICAL
- FACING

LOCATION DIAGRAM
SCALE: 1" = 16 MILES

SHEET A | SHEET B | SHEET C | SHEET D | SHEET E | SHEET F | SHEET G | SHEET H | SHEET J | SHEET K

LAKE MARJORIBANKS | LAKE SELWYN | LAKE WESTMINSTER | LAKE ANNECTENS | LAKE DAVIS | LAKE EDWARD

THE CONSOLIDATED SYNDICATE

OUTCROP GEOLOGY
MT. TYNDALL AREA
EL. 9/66
Sheet 3

DRAWN BY	N.S.H.
TRACED BY	R.G.W.
CHECKED BY	
DATE	JUNE '76
SCALE	1" = 500'

MAP 3

8 cm

1:6,000

TYNDALL
SHEET 3

GEOLOGY
OUTCROP

1976

E 1101

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

TYNDALL SHEET 3

GEOLOGY SECTIONS

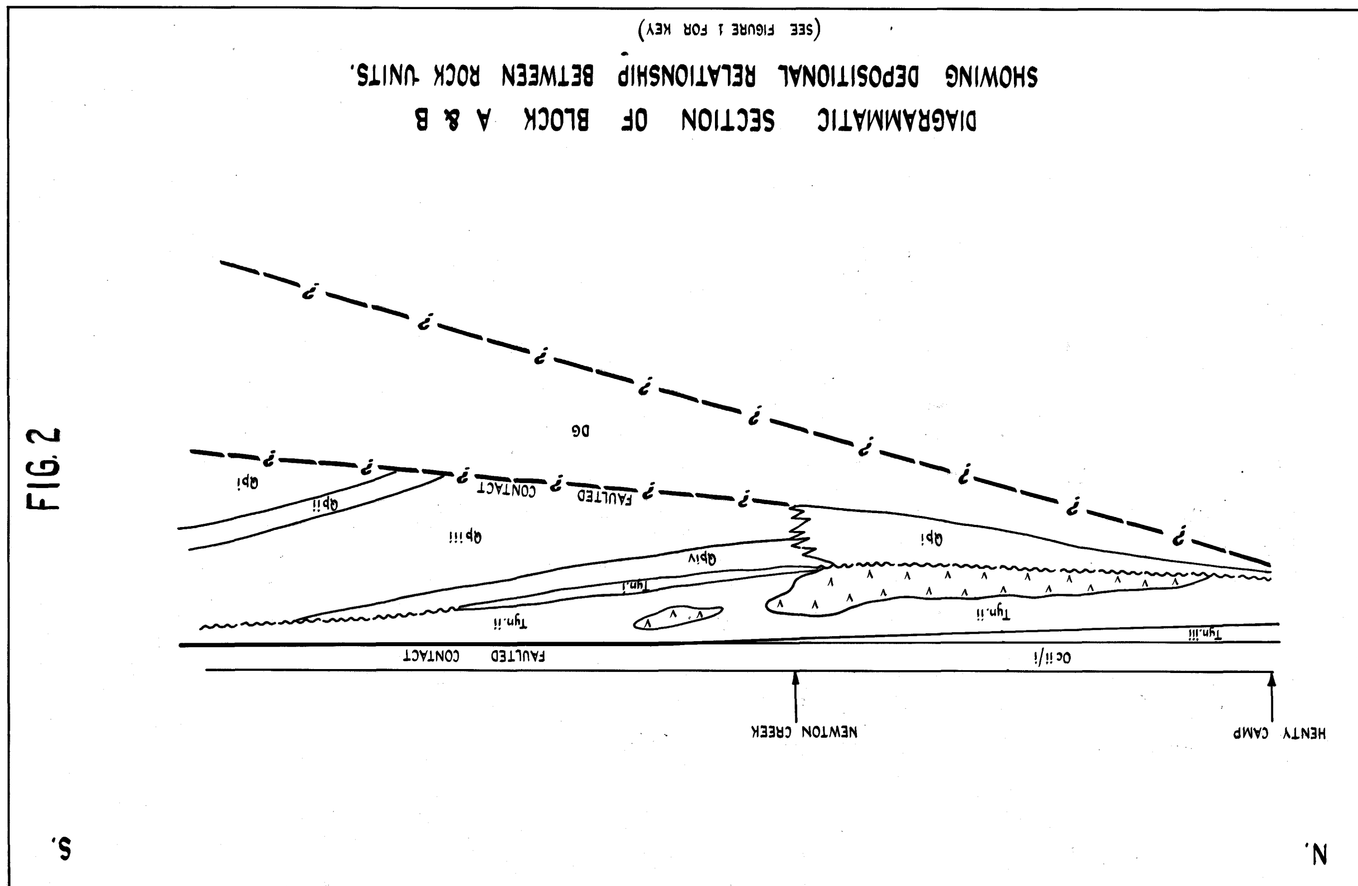


FIG. 2

DIAGRAMMATIC SECTION OF BLOCK A & B
SHOWING DEPOSITIONAL RELATIONSHIP BETWEEN ROCK UNITS.
(SEE FIGURE 1 FOR KEY)

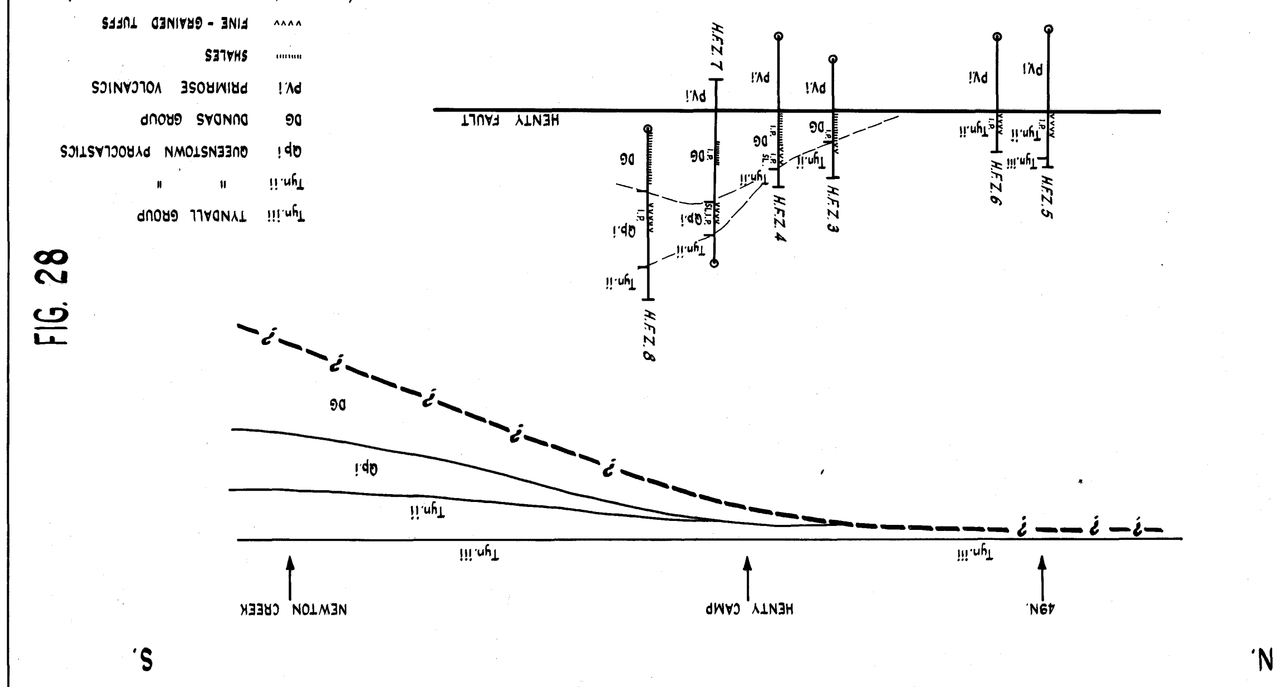


FIG. 28

DIAGRAMMATIC N.- S. STRATIGRAPHIC SECTION OF THE HENTY FAULT ZONE.

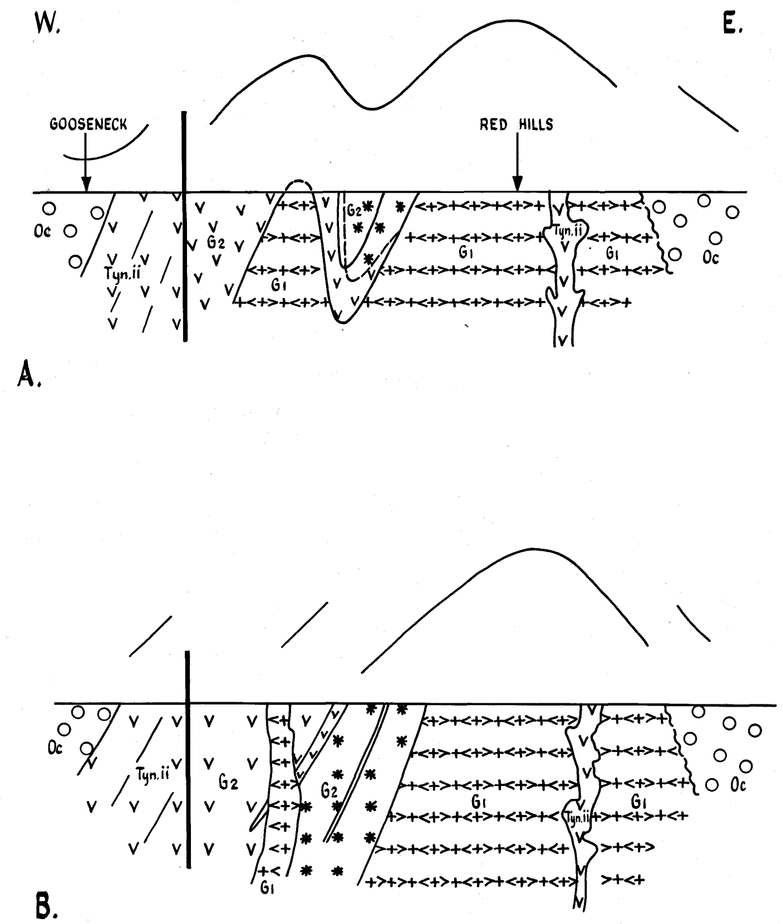


FIG. 4

DIAGRAMMATIC SECTION OF THE REDHILLS GOOSENECK AREA
SHOWING ALTERNATIVE STRUCTURAL INTERPRETATIONS.

PRIMROSE VOLCANICS

	ACID LAVAS	ACID WELDED TUFFS	QUARTZ FELDSPAR CRYSTAL TUFFS	FELDSPAR CRYSTAL TUFFS	AGGLOM.	SILTSTONE GREYWACKE F.GRAIN TUFF	BLACK SHALES	BASIC INTRUSIVES	ANDESITIC VOLC.	AERIAL CONDITION OF DEPOSITION	ALTERNATING SUBAERIAL SUBMARINE CONDITIONS OF DEPOSITION
UNIT v											
UNIT iv											
UNIT iii											
UNIT ii											
UNIT i											

TABLE 4

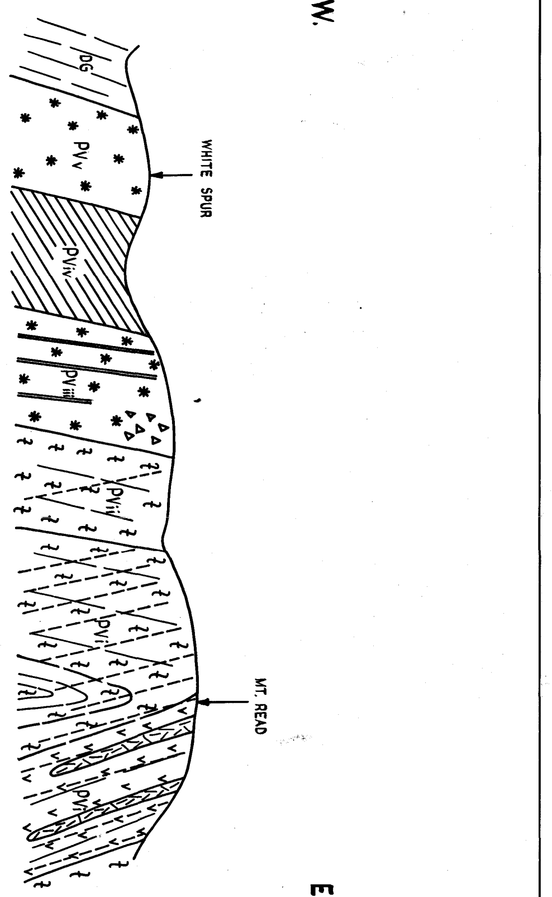


FIG. 3

DIAGRAMMATIC SECTION OF THE PRIMROSE VOLCANICS
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TCR 94-3581
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THE MOUNT LYELL M. & R. COY. LTD.
GEOLOGICAL DEPARTMENT

MT. TYNDALL LEASE
SHEET 3
GEOCHEMICAL SAMPLING RESULTS
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DRAWN BY: Z.A. Nitkowski
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CHECKED BY:
DATE:
SCALE: 1" = 200'

5 cm

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TYNDALL
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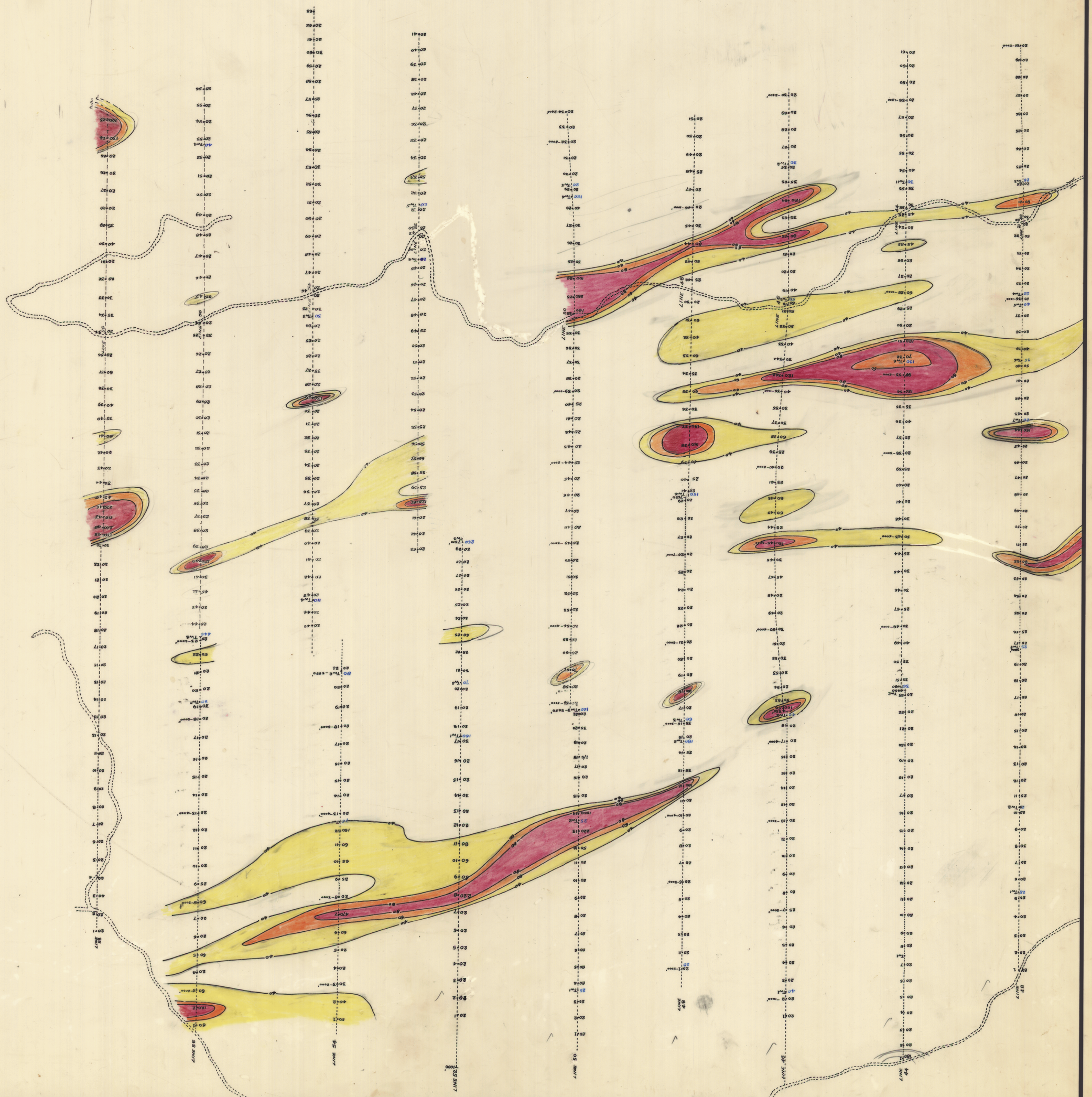
GEOCHEMISTRY
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TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

LEGEND
40 - 60 p.p.m.
60 - 80 p.p.m.
> 80 p.p.m.

THE MOUNT LYELL M & R. COY LTD.
GEOLOGICAL DEPARTMENT
MT. TYNDALL LEASE
SHEET 3
GEOCHEMICAL SAMPLING RESULTS
LEAD CONTOURS
DRAWN BY: J.C.Mc
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CHECKED BY:
DATE:
SCALE 1" = 500'
5 cm



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TYNDALL
SHEET 3

GEOCHEMISTRY
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3/303

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

161

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

DRAWN BY. L.A.N.
TRACED BY.
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SCALE 1" = 500'

MT. TYNDALL LEASE
SHEET 3
GEOCHEMICAL SAMPLING RESULTS
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5 cm

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TYNDALL
SHEET 3 (WEST)

GEOCHEMISTRY
SOIL RESULTS

3W/323

ANG COORDINATES

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

THE CONSOLIDATED SYNDICATE

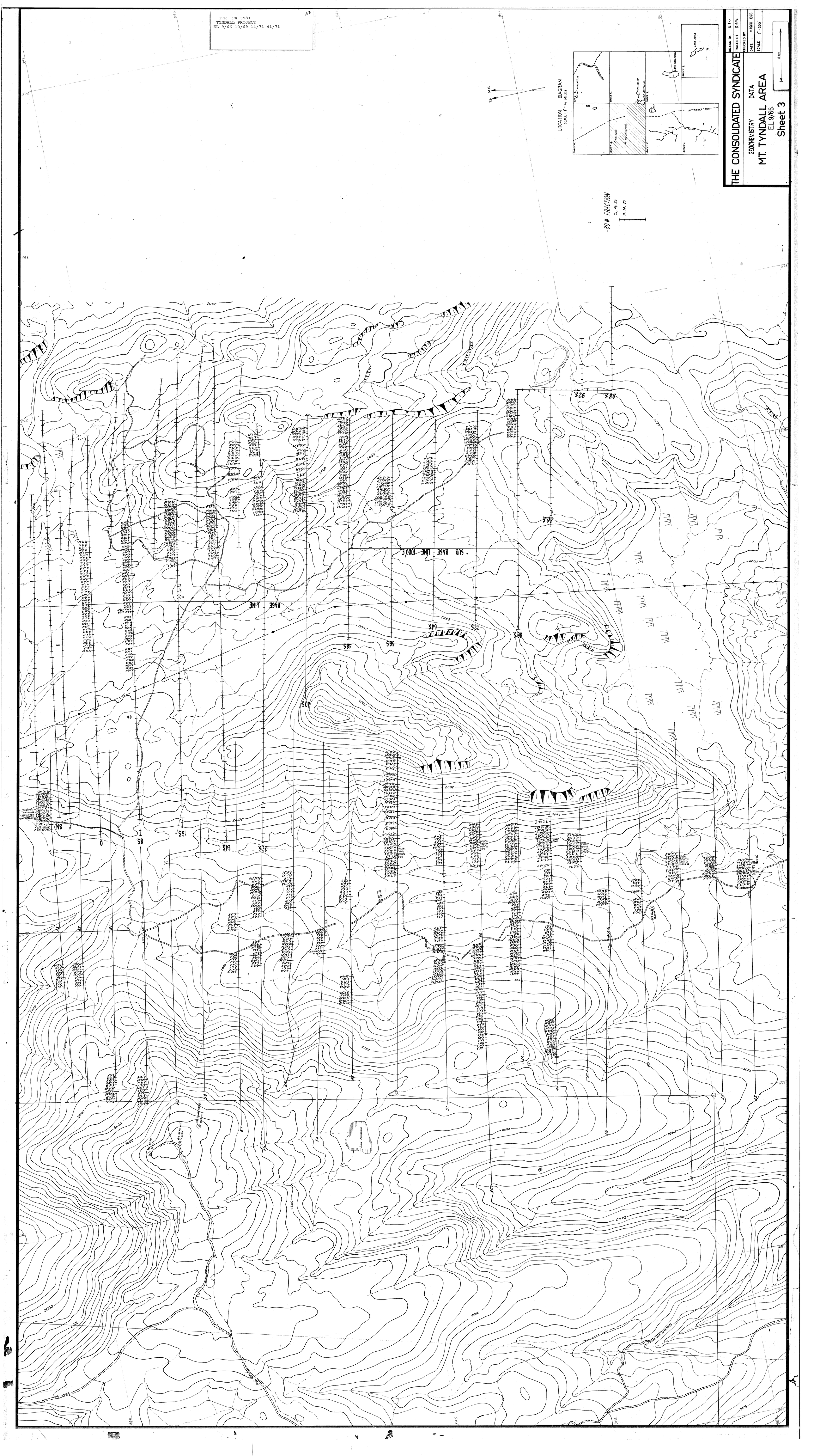
DRAWN BY P. BROPHY
TRACED BY R.G. WILSON
CHECKED BY
DATE 27-4-'77
SCALE 1"=6,000
8 cm

M.T. TYNDALL AREA
E.L. 9/66
SHEET 3 WEST
GEOCHEMISTRY DATA -80 # FRACTION

1:6000

TYNDALL
SHEET 3

GEOCHEMISTRY
SOIL RESULTS

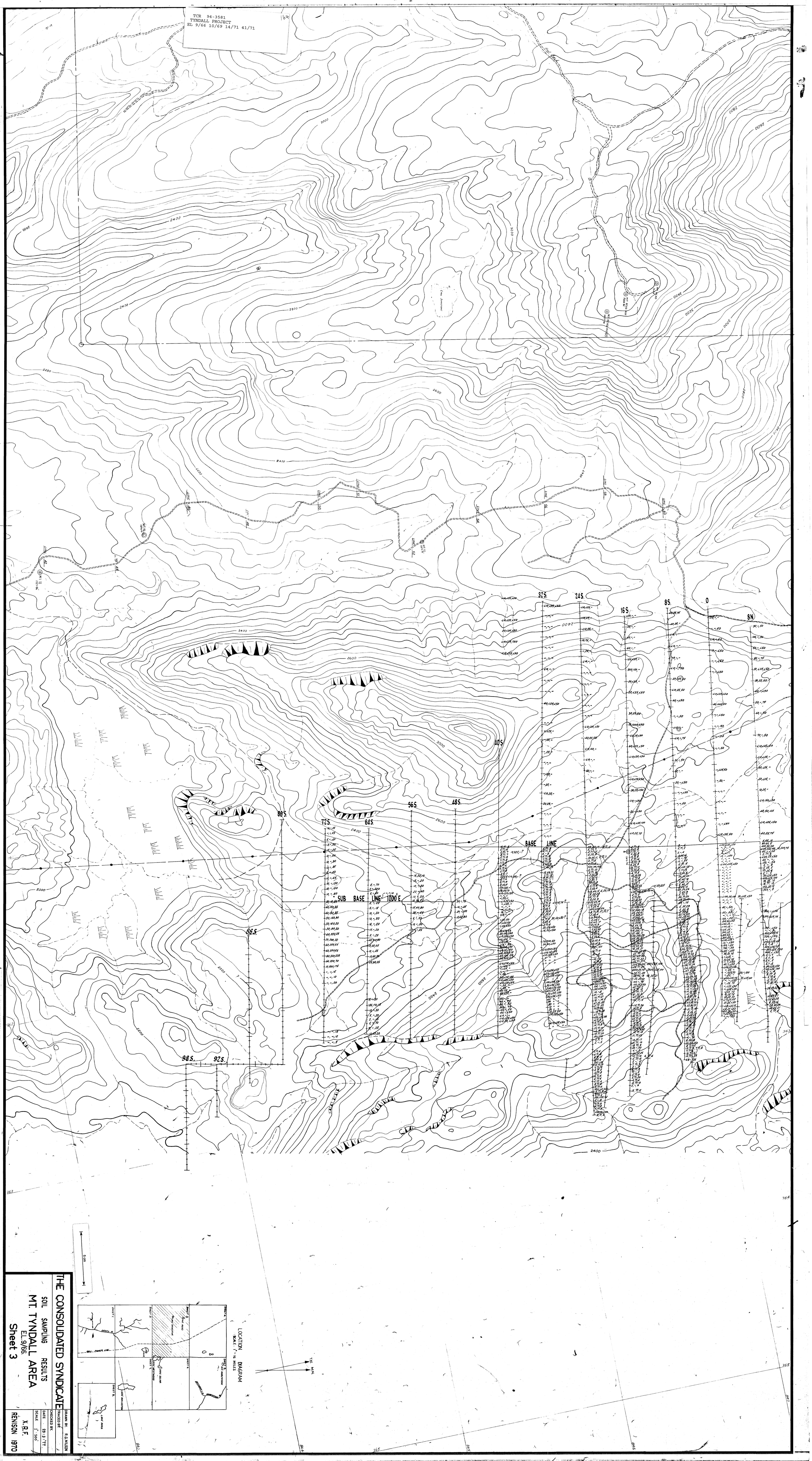


1:6,000

TYNDALL
SHEET 3

GEOCHEMISTRY
SOIL RESULTS

3/322



THE CONSOLIDATED SYNDICATE LIMITED

SOIL SAMPLING RESULTS

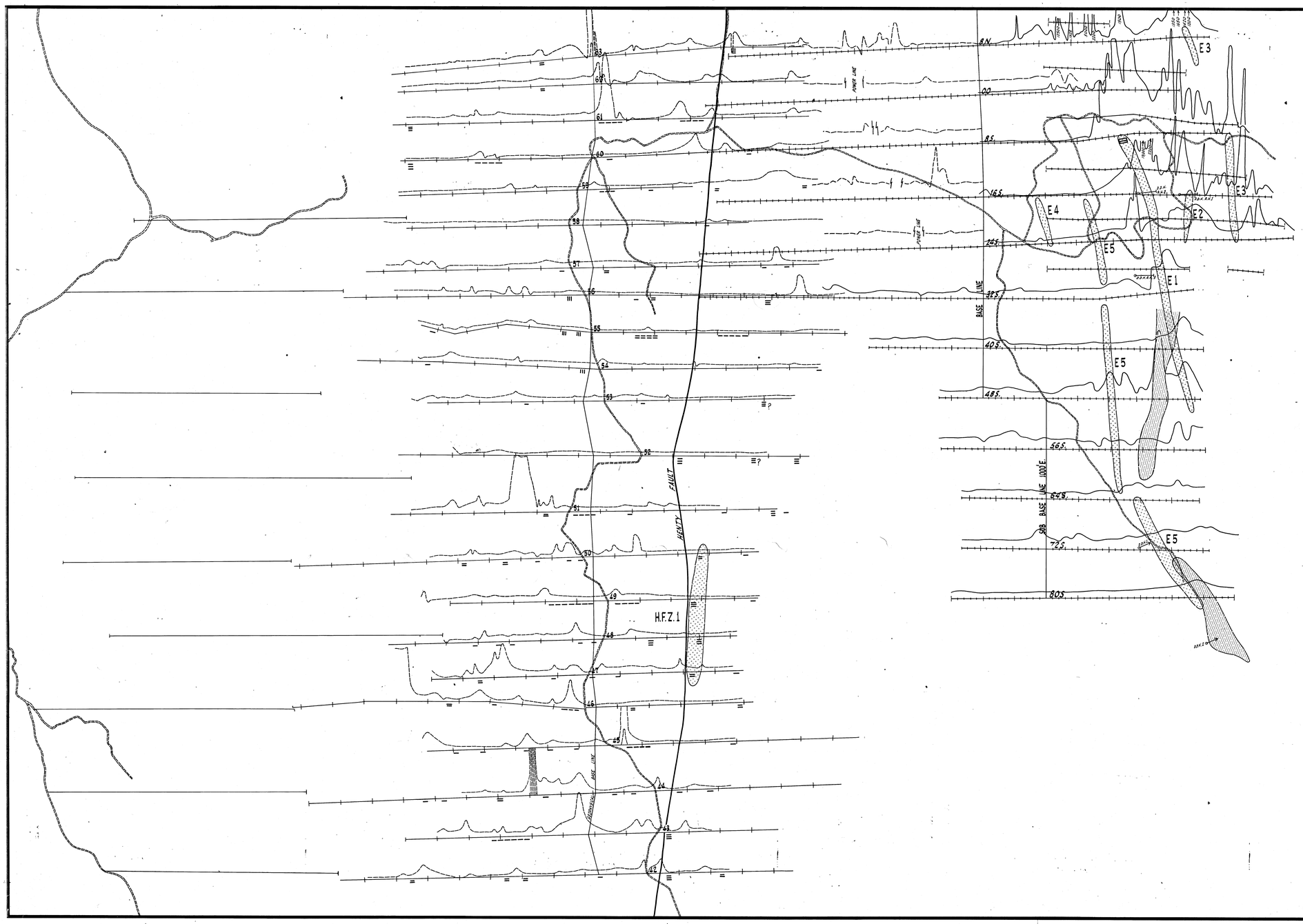
MT. TYNDALL AREA

EL.9/66.

Sheet 3

DRAWN BY: R.S.WILSON
CHECKED BY:
DATE: 23 JULY
SCALE: 1" = 200'

K.B.F.
RENISON 1970



S.P. ANOMALY

I.P. ANOMALIES

- FIRST ORDER ANOMALY.
- SECOND ORDER ANOMALY.
- THIRD ORDER ANOMALY.
- I.P. ZONES.

MAGNETICS

1 INCH = 1000 GAMMAS.

- FLUXGATE VERTICAL FIELD.
- PROTON TOTAL FIELD.

E.M. ANOMALIES

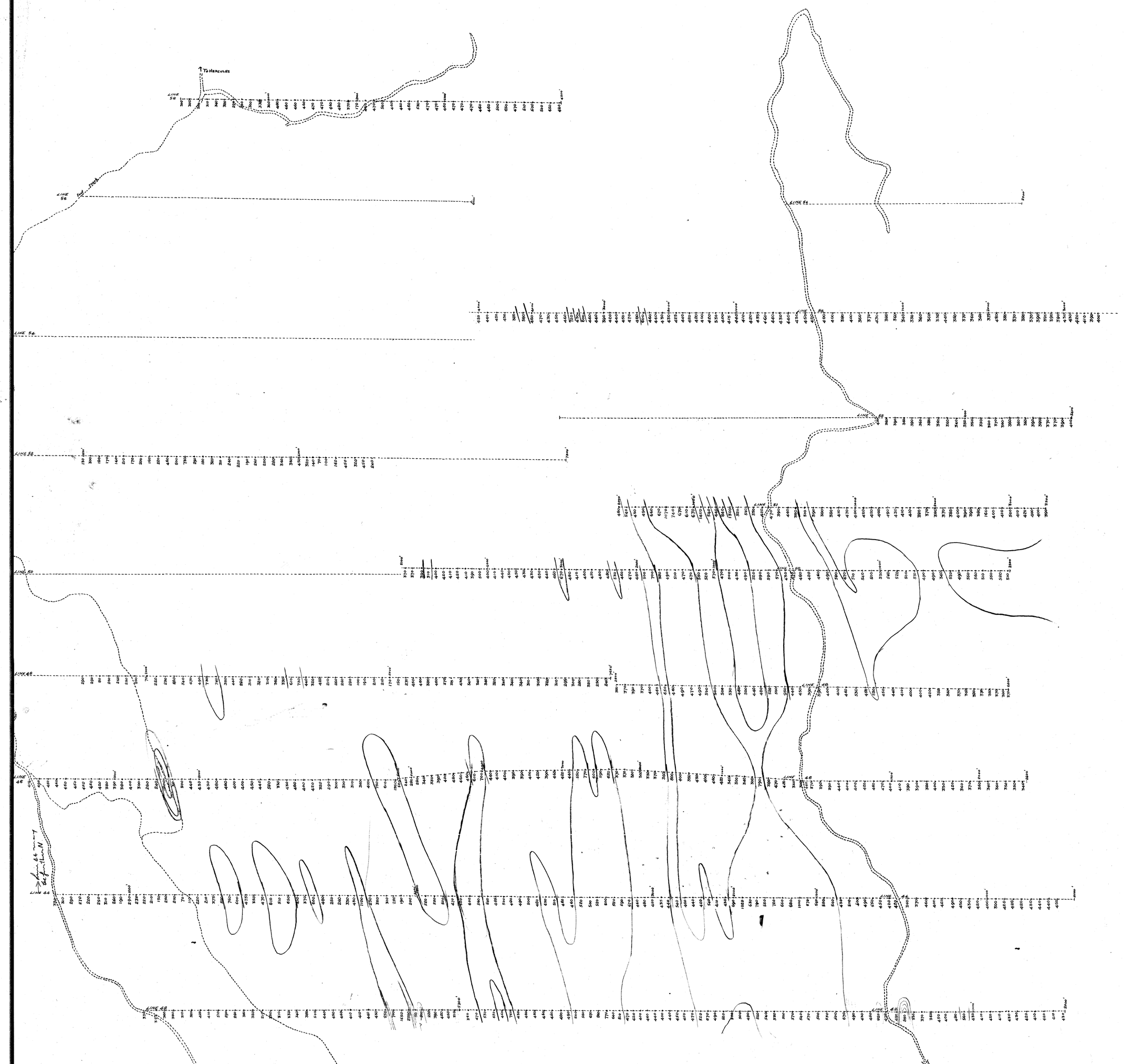
- TURAM ANOMALOUS ZONES.
- E.M. CONDUCTORS.

5 cm

THE CONSOLIDATED SYNDICATE	DRAWN BY: N.S-H.
	TRACED BY: R.G.W.
	CHECKED BY:
	DATE: JUNE '66
	SCALE: 1" = 1,000
MT. TYNDALL AREA E.L. 9/66 SHEET 3 MAGNETIC PROFILES & I.P. ANOMALIES	MAP 6

TYNDALL 1:6,000
SHEET 3.
GEOPHYSICS
I.P. + MAGS.

3/407



THE MOUNT LYELL M. & R. COY. LTD.	DRAWN BY: L.A.N.
GEOLOGICAL DEPARTMENT	TRACED BY:
MT. TYNDALL LEASE	CHECKED BY: "
GROUND MAGNETICS SURVEY	DATE:
SHEET 3	SCALE: 1" = 500'
	5 cm

1:6,000

TYNDALL
SHEET 3
GEOPHYSICS
GROUND MAG.

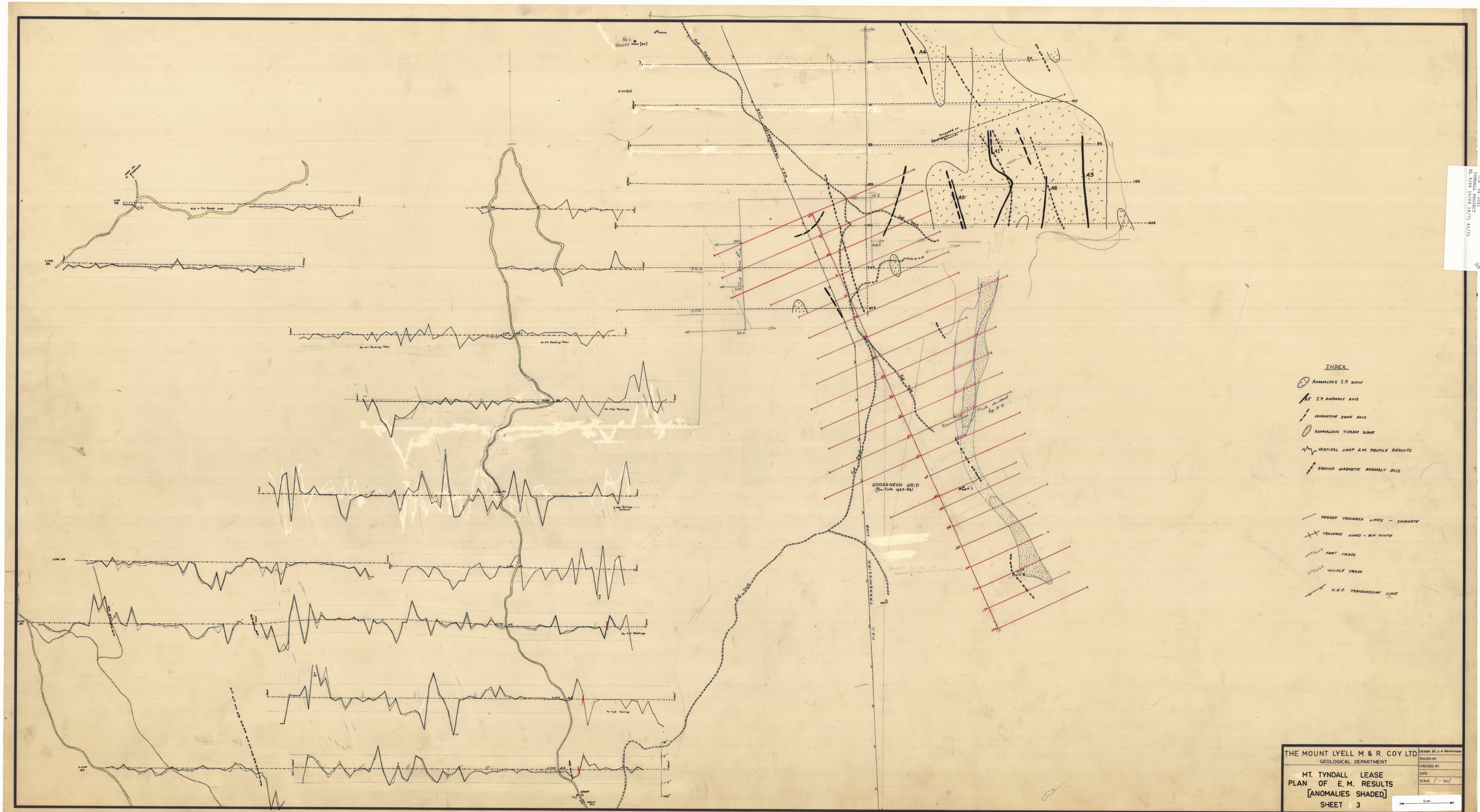
E 7401

TYNDALL
SHEET 3

GEOPHYSICS
GROUND MAG.

1:6,000

3A03


INDEX
Anomalous I.P. zone
I.P. anomaly axis
Conductive zone axis
Anomalous Turam zone
Vertical loop E.M. profile results
Ground magnetic anomaly axis
Pegged traverse lines — syndicate
Traverse lines — R/S tinted
Foot track
Vehicle track
H.E.C. transmission line
GOOSENECK GRID
(Ex-Tullo 1967-68)
TRANSMISSION LINE
H.E.C.
A1
A2
A3
A4
A5
Mt. Lyell
Queenstown
Strahan
Zeehan
Tullah
Rosebery
Renison Bell
Pieman R.
Henty R.
Linda Valley
Farm Cove
Transmission Line
Transmission Line Track
Transmission Line Track
Transmission Line Track

3/317

COMPOSITE LINE PROFILES LINE 32S+46N

TYNDALL SHEET 3
MT. READ
RED HILLS

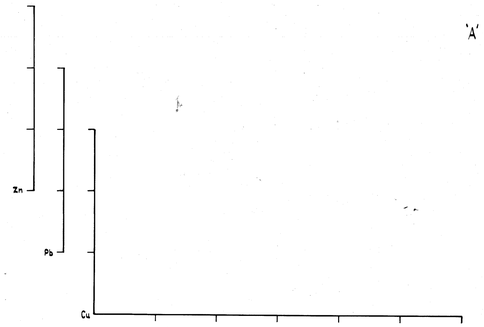
1:2400

TCR. 94-3581
TYNDALL PROJECT
EL. 9/66 10/69 14/71 41/71

AREA. RED HILLS LINE No. 32S.

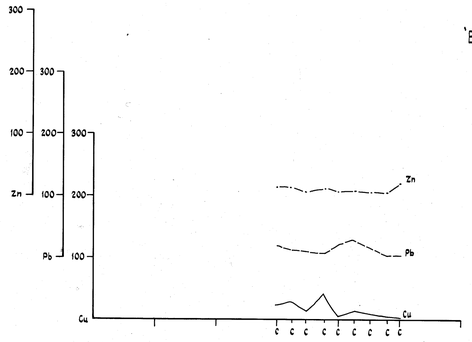
'A' -10+80 FRACTION

SOIL SAMPLING (p.p.m.)



'B' -80 FRACTION

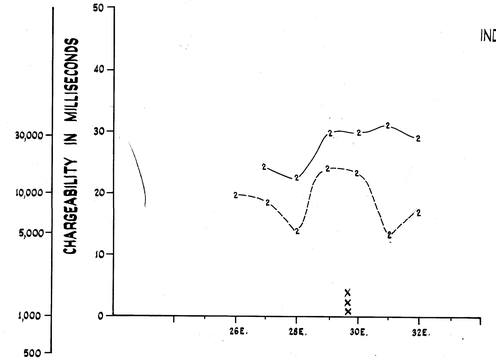
SOIL SAMPLING (p.p.m.)



INDUCED POLARISATION

RESISTIVITY IN OHM-METRES

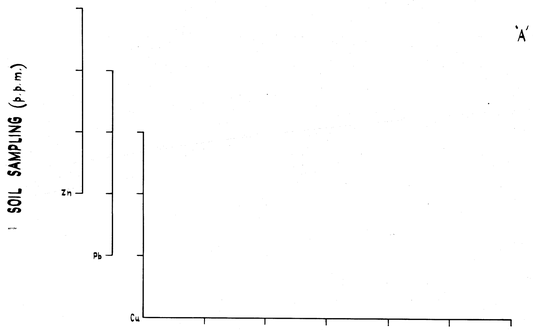
CHARGEABILITY IN MILLISECONDS



AREA. MT. READ LINE No. 46N.

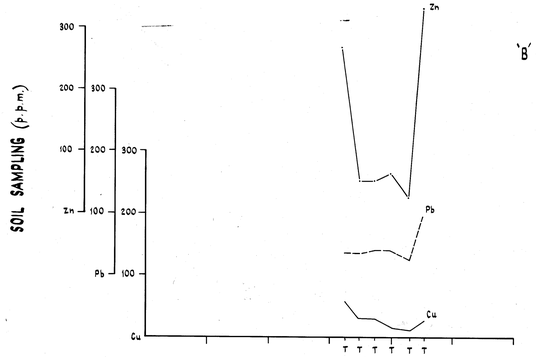
'A' -10+80 FRACTION

SOIL SAMPLING (p.p.m.)



'B' -80 FRACTION

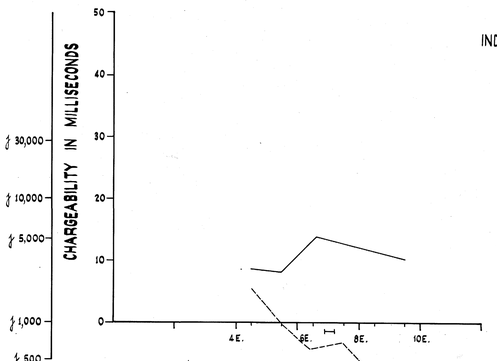
SOIL SAMPLING (p.p.m.)



INDUCED POLARISATION

RESISTIVITY IN OHM-METRES

CHARGEABILITY IN MILLISECONDS



RESISTIVITY ——— ---1---1--- RECEIVER 1
---2---2--- RECEIVER 2

CHARGEABILITY —— — —— —1—1— RECEIVER 1
—2—2— RECEIVER 2

ANOMALY ~ C.G.G. INTERPRETATION XX

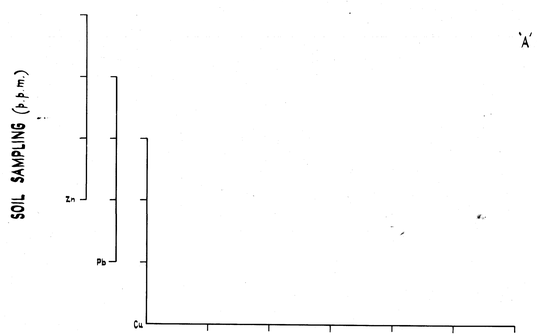
RESIDUAL SOILS A A HORIZON
B B HORIZON
C C HORIZON

NON RESIDUAL SOILS T

AREA. LINE No.

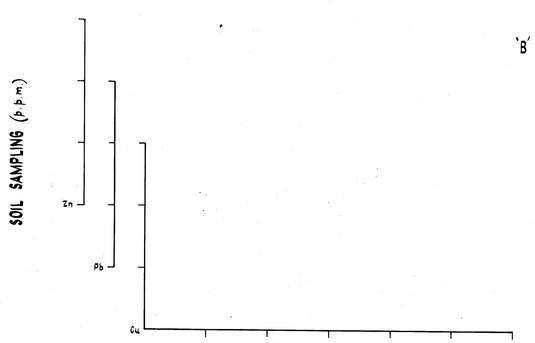
'A' -10+80 FRACTION

SOIL SAMPLING (p.p.m.)



'B' -80 FRACTION

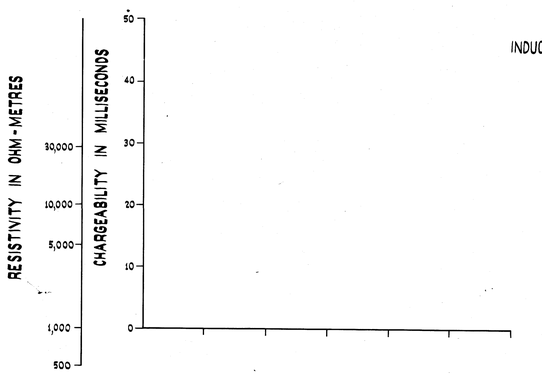
SOIL SAMPLING (p.p.m.)



INDUCED POLARISATION

RESISTIVITY IN OHM-METRES

CHARGEABILITY IN MILLISECONDS



5 cm

THE MT. LYELL M. & R. CO. LTD.	DRAWN. N.S-H.
	TRACED. R.G.W.
MT. TYNDALL E.L. 9/66	CHECKED.
INDUCED POLARISATION AND	DATE. JUNE '76
GEOCHEMICAL PROFILES	SCALE. 1:2400
	MAP 8

3/316

TYNDALL SHEET 3
MT. READ AREA
1:2400

COMPOSITE LINE PROFILE
LINE 48N

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

AREA. MT. READ LINE No. 48 N.

'A' - 10 + 80 FRACTION

SOIL SAMPLING (p.p.m.)

Zn
Pb
Cu

'B' - 80 FRACTION

SOIL SAMPLING (p.p.m.)

300
200
100
Zn
Pb
Cu

INDUCED POLARISATION

RESISTIVITY IN OHM-METRES

30,000
10,000
5,000
1,000
500

CHARGEABILITY IN MILLISECONDS

50
40
30
20
10
0

26W. 24W. 22W. 20W. 18W.

AREA. MT. READ LINE No. 48 N.

'B' - 80 FRACTION

SOIL SAMPLING (p.p.m.)

Zn
Pb
Cu

'A' - 10 + 80 FRACTION

SOIL SAMPLING (p.p.m.)

300
200
100
Zn
Pb
Cu

INDUCED POLARISATION

RESISTIVITY IN OHM-METRES

30,000
10,000
5,000
1,000
500

CHARGEABILITY IN MILLISECONDS

50
40
30
20
10
0

6W. 4W. 2W. 0D

AREA. MT. READ LINE No. 48 N.

'A' - 10 + 80 FRACTION

SOIL SAMPLING (p.p.m.)

Zn
Pb
Cu

'B' - 80 FRACTION

SOIL SAMPLING (p.p.m.)

300
200
100
Zn
Pb
Cu

INDUCED POLARISATION

RESISTIVITY IN OHM-METRES

30,000
10,000
5,000
1,000
500

CHARGEABILITY IN MILLISECONDS

50
40
30
20
10
0

4E. 6E. 8E. 10E. 12E.

RESISTIVITY ------ RECEIVER 1 / RECEIVER 2

CHARGEABILITY — — — RECEIVER 1 / RECEIVER 2

ANOMALY - SCINTREX INTERPRETATION

RESIDUAL SOILS A A HORIZON, B B HORIZON, C C HORIZON

NON RESIDUAL SOILS T

5 cm

THE MT. LYELL M. & R. CO. LTD.	DRAWN. N.S-H.
	TRACED. R.B.W.
MT. TYNDALL E.L. 9/66	CHECKED.
INDUCED POLARISATION AND	DATE. JUNE '70
GEOCHEMICAL PROFILES	SCALE. 1:2400
	MAP 20

3/315

TYNDALL SHEET 3
MT. READ AREA
1:2400

COMPOSITE LINE PROFILES
LINES 49N+50N

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

AREA. MT. READ LINE No. 50 N.

'A' -10+80 FRACTION

SOIL SAMPLING (p.p.m.)

Zn
Pb
Cu

'B' -80 FRACTION

SOIL SAMPLING (p.p.m.)

300
200
100
Zn
60
40
Pb
20
Cu

INDUCED POLARISATION

RESISTIVITY IN OHM-METRES
CHARGEABILITY IN MILLISECONDS

30,000
10,000
5,000
1,000
500
50
40
30
20
10
0
10W. 8W. 6W. 4W. 2W. 0

AREA. MT. READ LINE No. 49 N.

'A' -10+80 FRACTION

SOIL SAMPLING (p.p.m.)

Zn
Pb
Cu

'B' -80 FRACTION

SOIL SAMPLING (p.p.m.)

300
200
100
Zn
Pb
Cu

INDUCED POLARISATION

RESISTIVITY IN OHM-METRES
CHARGEABILITY IN MILLISECONDS

30,000
10,000
5,000
1,000
500
50
40
30
20
10
0
10W. 8W. 6W. 4W. 2W.

AREA. MT. READ LINE No. 49 N.

'A' -10+80 FRACTION

SOIL SAMPLING (p.p.m.)

Zn
Pb
Cu

'B' -80 FRACTION

SOIL SAMPLING (p.p.m.)

300
200
100
Zn
Pb
Cu

INDUCED POLARISATION

RESISTIVITY IN OHM-METRES
CHARGEABILITY IN MILLISECONDS

30,000
10,000
5,000
1,000
500
50
40
30
20
10
0
00 2E. 4E. 6E.

RESISTIVITY ------- ---1---1--- RECEIVER 1
---2---2--- RECEIVER 2

CHARGEABILITY — — — —1—1— RECEIVER 1
—2—2— RECEIVER 2

ANOMALY - SCINTREX INTERPRETATION H

RESIDUAL SOILS A A HORIZON
B B HORIZON
C C HORIZON

NON RESIDUAL SOILS T

5 cm

THE MT. LYELL M. & R. CO. LTD.	DRAWN. N.S-K.
	TRACED. R.G.W.
MT. TYNDALL E.L. 9/66	CHECKED.
INDUCED POLARISATION AND GEOCHEMICAL PROFILES	DATE. JUNE '76
	SCALE. 1:2400
	MAP 19

3/314

TYNDALL SHEET 3
MT. READ AREA
1:2400

COMPOSITE LINE PROFILES
LINES 50N, 51N

TCR 94-2581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

AREA. MT. READ LINE No. 51N.

'A' -10+80 FRACTION

SOIL SAMPLING (p.p.m.)

Zn
Pb
Cu

'B' -80 FRACTION

SOIL SAMPLING (p.p.m.)

300
200
100
Zn
Pb
Cu
T T T T T T T T T

INDUCED POLARISATION

RESISTIVITY IN OHM-METRES

30,000
10,000
5,000
1,000
500

CHARGEABILITY IN MILLISECONDS

50
40
30
20
10
0
6W. 4W. 2W. 0O

AREA. MT. READ LINE No. 51N.

'A' -10+80 FRACTION

SOIL SAMPLING (p.p.m.)

Zn
Pb
Cu

'B' -80 FRACTION

SOIL SAMPLING (p.p.m.)

300
200
100
Zn
Pb
Cu
T T T T T T T T T C C C C C C C C C C T T

INDUCED POLARISATION

RESISTIVITY IN OHM-METRES

30,000
10,000
5,000
1,000
500

CHARGEABILITY IN MILLISECONDS

50
40
30
20
10
0
2E. 4E. 6E. 8E. 10E. 12E.

RESISTIVITY ------ ---1---1--- RECEIVER 1
---2---2--- RECEIVER 2

CHARGEABILITY —— — —1—1— RECEIVER 1
—2—2— RECEIVER 2

ANOMALY - SCINTREX INTERPRETATION ⊢

RESIDUAL SOILS A A HORIZON
B B HORIZON
C C HORIZON

NON RESIDUAL SOILS T

AREA. MT. READ LINE No. 50N.

'A' -10+80 FRACTION

SOIL SAMPLING (p.p.m.)

Zn
Pb
Cu

'B' -80 FRACTION

SOIL SAMPLING (p.p.m.)

300
200
100
Zn
Pb
Cu
C C C C C C C C C C

3/313

TYNDALL SHEET 3
MT. READ AREA
1:2400

COMPOSITE LINE PROFILES
LINES 51N, 52N, 53N.

TCR 94-3581
TYNDALL PROJECT
EL. 9/66 10/69 14/71 41/71

AREA. MT. READ LINE No. 53 N.

'A' - 10 + 80 FRACTION

SOIL SAMPLING (p.p.m.)

Zn
Pb
Cu

'B' - 80 FRACTION

SOIL SAMPLING (p.p.m.)

300
200
100
Zn
Pb
Cu

INDUCED POLARISATION

RESISTIVITY IN OHM-METRES

CHARGEABILITY IN MILLISECONDS

30,000
10,000
5,000
1,000
500
50
40
30
20
10
0
16W. 14W. 12W. 10W.

AREA. HENTY FAULT ZONE LINE No. 52N.

'A' - 10 + 80 FRACTION

SOIL SAMPLING (p.p.m.)

Zn
Pb
Cu

'B' - 80 FRACTION

SOIL SAMPLING (p.p.m.)

300
200
100
Zn
Pb
Cu

INDUCED POLARISATION

RESISTIVITY IN OHM-METRES

CHARGEABILITY IN MILLISECONDS

30,000
10,000
5,000
1,000
500
50
40
30
20
10
0
2E. 4E. 6E. 8E. 10E. 12E.

RESISTIVITY ------ ---1---1--- RECEIVER 1
---2---2--- RECEIVER 2

CHARGEABILITY — - — —1—1— RECEIVER 1
—2—2— RECEIVER 2

ANOMALY - SCINTREX INTERPRETATION H

RESIDUAL SOILS A A HORIZON
B B HORIZON
C C HORIZON

NON RESIDUAL SOILS T

AREA. HENTY FAULT ZONE LINE No. 51 N.

'A' - 10 + 80 FRACTION

SOIL SAMPLING (p.p.m.)

Zn
Pb
Cu

'B' - 80 FRACTION

SOIL SAMPLING (p.p.m.)

300
200
100
Zn
Pb
Cu

INDUCED POLARISATION

RESISTIVITY IN OHM-METRES

CHARGEABILITY IN MILLISECONDS

30,000
10,000
5,000
1,000
500
50
40
30
20
10
0
14E. 16E. 18E. 20E. 22E.

5 cm

THE MT. LYELL M. & R. CO. LTD.	DRAWN. N.S-H.
	TRACED. R.G.W.
MT. TYNDALL E.L. 9/66	CHECKED.
INDUCED POLARISATION AND	DATE. JUNE '76
GEOCHEMICAL PROFILES	SCALE. 1:2400
	MAP 17

3/312

TYNDALL SHEET 3
MT. READ AREA
1:2400

COMPOSITE LINE PROFILES - LINES 53N, 54N, 55N -

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

AREA. MT. READ LINE No. 55N.

SOIL SAMPLING (p.p.m.)

'A' -10+80 FRACTION

Zn
Pb
Cu

'B' -80 FRACTION

Zn
Pb
Cu

T T T T T T T T T % C % C T

INDUCED POLARISATION

RESISTIVITY IN OHM-METRES
CHARGEABILITY IN MILLISECONDS

4E. 6E. 8E. 10E. 12E.

AREA. MT. READ LINE No. 54N.

SOIL SAMPLING (p.p.m.)

'B' - 80 FRACTION

'A'-10+80 FRACTION

Zn
Pb
Cu

C C C C C % C C

INDUCED POLARISATION PLUS TURAM

RESISTIVITY IN OHM-METRES
CHARGEABILITY IN MILLISECONDS

PHASE +5 0 -5
F.S.R. 1·10 1·00 0·90

6W. 4W. 2W. 00 2E.

AREA. MT. READ LINE No. 53N.

SOIL SAMPLING (p.p.m.)

'A' -10+80 FRACTION

Zn
Pb
Cu

'B' -80 FRACTION

Zn
Pb
Cu

C T T T T T T T T

INDUCED POLARISATION

RESISTIVITY IN OHM-METRES
CHARGEABILITY IN MILLISECONDS

2E. 4E. 6E. 8E.

RESISTIVITY ------ ---1---1--- RECEIVER 1 ---2---2--- RECEIVER 2

CHARGEABILITY — — — —1—1— RECEIVER 1 —2—2— RECEIVER 2

ANOMALY - SCINTREX INTERPRETATION ⊢

RESIDUAL SOILS A A HORIZON B B HORIZON C C HORIZON

NON RESIDUAL SOILS T

TURAM E.M.
X FIELD STRENGTH RATIO.
O PHASE.

5 cm

THE MT. LYELL M. & R. CO. LTD.	DRAWN. N.S-H
	TRACED. R.G.W.
MT. TYNDALL E.L. 9/66	CHECKED.
INDUCED POLARISATION AND	DATE. JUNE '76
GEOCHEMICAL PROFILES	SCALE. 1:2400
	MAP 16

3/311

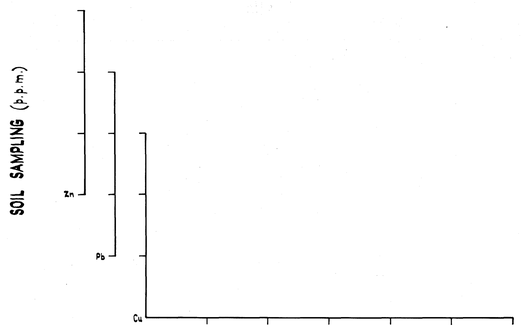
TYNDALL SHEET 3
MT. READ AREA
1:2400

COMPOSITE LINE PROFILES 55N+56N

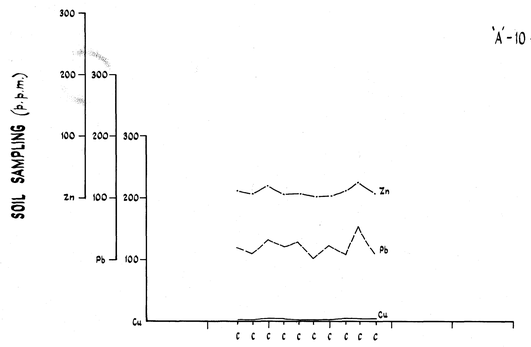
TCR 14-3581
TYNDALL 9 PROJECT
EL 9/66 10/69 14/71 41/71

AREA. MT. READ LINE No. 56 N.

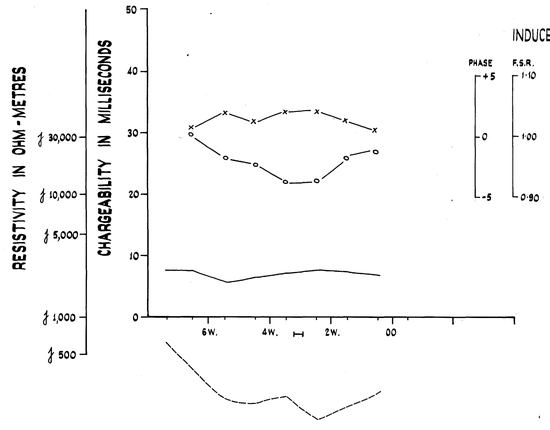
'B' - 80 FRACTION



'A' -10 + 80 FRACTION



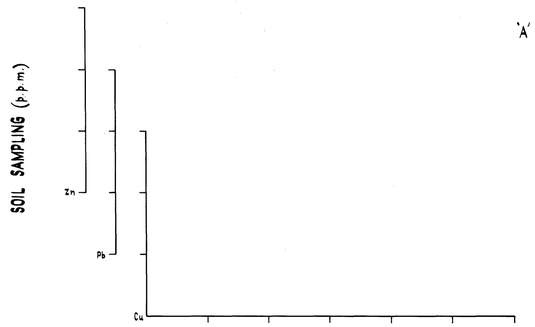
INDUCED POLARISATION + TURAM



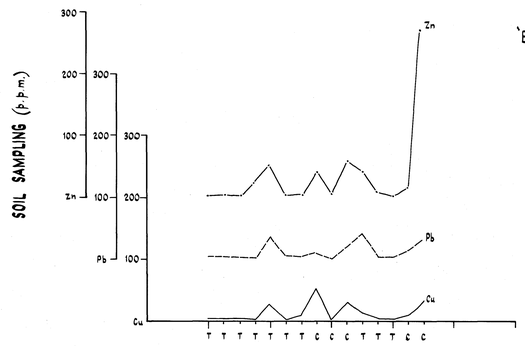
TURAM E.M.
X FIELD STRENGTH RATIO.
O PHASE.

AREA. MT. READ LINE No. 56N.

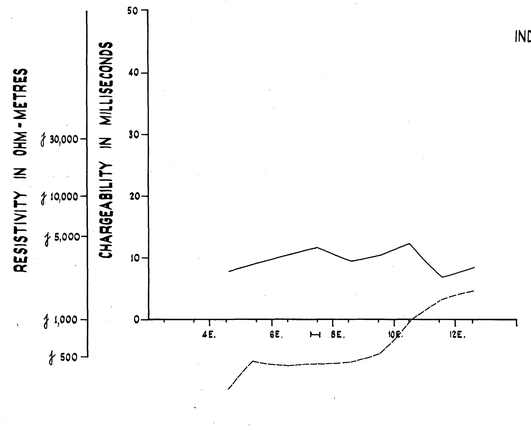
'A' -10+80 FRACTION



'B' -80 FRACTION



INDUCED POLARISATION



RESISTIVITY ------- ---1---1--- RECEIVER 1
---2---2--- RECEIVER 2

CHARGEABILITY — — — —1—1— RECEIVER 1
—2—2— RECEIVER 2

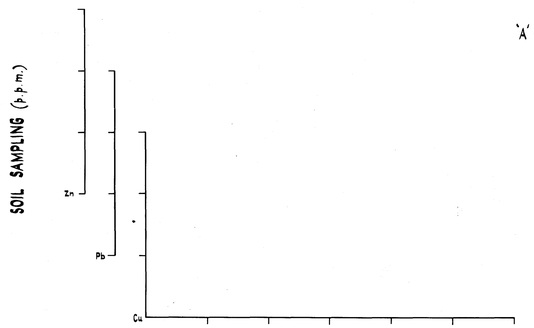
ANOMALY - SCINTREX INTERPRETATION ⊢

RESIDUAL SOILS A A HORIZON
B B HORIZON
C C HORIZON

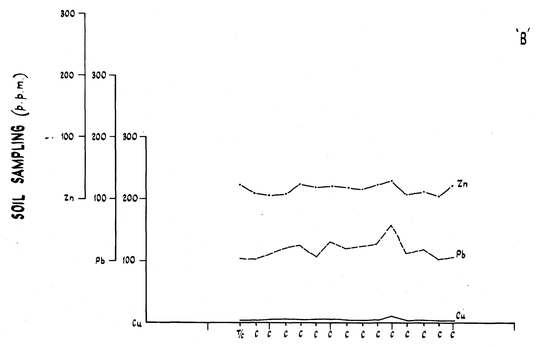
NON RESIDUAL SOILS T

AREA. MT. READ LINE No. 55 N.

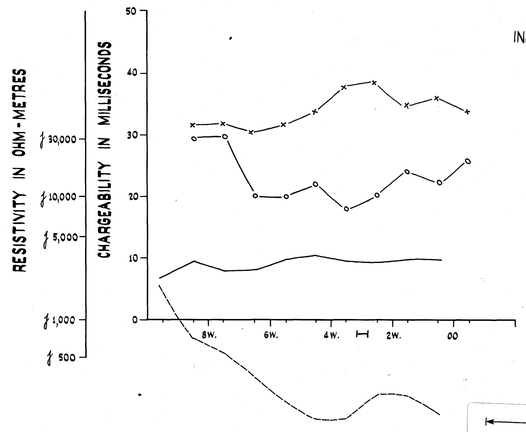
'A' -10+80 FRACTION



'B' -80 FRACTION



INDUCED POLARISATION



5 cm

THE MT. LYELL M. & R. CO. LTD.	DRAWN. N.S-H.
	TRACED. R.G.W.
MT. TYNDALL E.L. 9/66	CHECKED.
INDUCED POLARISATION AND	DATE. JUNE '78
GEOCHEMICAL PROFILES	SCALE. 1:2400
	MAP 15

3/310

TYNDALL SHEET 3
MT. READ AREA
1:2400

COMPOSITE LINE PROFILES
57N + 60N

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

AREA. MT. READ LINE No. 60N.

'A' -10+80 FRACTION

SOIL SAMPLING (p.p.m.)

Zn
Pb
Cu

'B' -80 FRACTION

SOIL SAMPLING (p.p.m.)

300
200 300
100 200 300
Zn
Pb 100 200
Cu

INDUCED POLARISATION

RESISTIVITY IN OHM-METRES
CHARGEABILITY IN MILLISECONDS

50
40
30
20
10
0
30,000
10,000
5,000
1,000
500

32W. 30W. 28W. 26W.

AREA. MT. READ LINE No. 57N.

'A' -10+80 FRACTION

SOIL SAMPLING (p.p.m.)

Zn
Pb
Cu

'B' -80 FRACTION

SOIL SAMPLING (p.p.m.)

300
200 300
100 200 300
Zn
Pb 100 200
Cu

INDUCED POLARISATION

RESISTIVITY IN OHM-METRES
CHARGEABILITY IN MILLISECONDS

50
40
30
20
10
0
30,000
10,000
5,000
1,000
500

4W. 2W. 0

RESISTIVITY ------ ---1---1--- RECEIVER 1 ---2---2--- RECEIVER 2

CHARGEABILITY — — — —1—1— RECEIVER 1 —2—2— RECEIVER 2

ANOMALY - SCINTREX INTERPRETATION ⊢

RESIDUAL SOILS A A HORIZON B B HORIZON C C HORIZON

NON RESIDUAL SOILS T

AREA. MT. READ LINE No. 57N.

'A' -10+80 FRACTION

SOIL SAMPLING (p.p.m.)

Zn
Pb
Cu

'B' -80 FRACTION

SOIL SAMPLING (p.p.m.)

300
200 300
100 200 300
Zn
Pb 100 200
Cu

INDUCED POLARISATION

RESISTIVITY IN OHM-METRES
CHARGEABILITY IN MILLISECONDS

50
40
30
20
10
0
30,000
10,000
5,000
1,000
500

4E. 6E. 8E.

5 cm

THE MT. LYELL M. & R. CO. LTD.	DRAWN. N.S-H.
	TRACED. R.G.W.
MT. TYNDALL E.L. 9/66	CHECKED.
INDUCED POLARISATION AND	DATE. JUNE '76
GEOCHEMICAL PROFILES	SCALE. 1:2400
	MAP 1/4

3/309

TYNDALL SH. 3
MT. READ AREA

COMPOSITE LINE PROFILES
61N+62N+63N

1:2400

TCR. 94-3581
TYNDALL 3 PROJECT
EL. 9/66 10/69 14/71 41/71

41

AREA. MT. READ LINE No. 63N.

'A' -10+80 FRACTION

SOIL SAMPLING (p.p.m.)

Zn
Pb
Cu

'B' -80 FRACTION

SOIL SAMPLING (p.p.m.)

300
200 300
100 200 300
Zn 100 200
Pb 100
Cu

Zn
Pb
Cu

C T C C C C C C C

INDUCED POLARISATION

RESISTIVITY IN OHM-METRES

CHARGEABILITY IN MILLISECONDS

50
40
30
20
10
0
30,000
10,000
5,000
1,000
500

12W. 10W. 8W. 6W.

AREA. MT. READ LINE No. 62N.

'A' -10+80 FRACTION

SOIL SAMPLING (p.p.m.)

Zn
Pb
Cu

'B' -80 FRACTION

SOIL SAMPLING (p.p.m.)

300
200 300
100 200 300
Zn 100 200
Pb 100
Cu

Zn
Pb
Cu

C T C C C C C C B

INDUCED POLARISATION

RESISTIVITY IN OHM-METRES

CHARGEABILITY IN MILLISECONDS

50
40
30
20
10
0
30,000
10,000
5,000
1,000
500

10W. 8W. 6W. 4W.

AREA. MT. READ LINE No. 61N.

'A' -10+80 FRACTION

SOIL SAMPLING (p.p.m.)

Zn
Pb
Cu

'B' -80 FRACTION

SOIL SAMPLING (p.p.m.)

300
200 300
100 200 300
Zn 100 200
Pb 100
Cu

Zn
Pb
Cu

C C C C C C C C C C

INDUCED POLARISATION

RESISTIVITY IN OHM-METRES

CHARGEABILITY IN MILLISECONDS

50
40
30
20
10
0
30,000
10,000
5,000
1,000
500

END OF GRID
32W. 30W. 28W. 26W.

RESISTIVITY ------ ---1---1--- RECEIVER 1
---2---2--- RECEIVER 2

CHARGEABILITY — — — —1——1— RECEIVER 1
—2——2— RECEIVER 2

ANOMALY - SCINTREX INTERPRETATION ⊢

RESIDUAL SOILS A A HORIZON
B B HORIZON
C C HORIZON

NON RESIDUAL SOILS T

5 cm

THE MT. LYELL M. & R. CO. LTD.

MT. TYNDALL E.L. 9/66
INDUCED POLARISATION AND
GEOCHEMICAL PROFILES

DRAWN. N.S-H.
TRACED. R.G.W.
CHECKED.
DATE. JUNE 1ST/G
SCALE. 1:2400

MAP 13

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

TYNDALL SHEET 3

COMPOSITE LINE PROFILE

3/013

LINES 40+42

MT. TYNDALL LEASE: LINE 42

(SECTION LOOKING NORTH)

SCALE: 1" = 500'
CHECKED: J. Williams
DATE: 23-6-69

5 cm

HEIGHT ABOVE S.L. 2500' 2000' 1500'

E.M. DIP ANGLES +10° 0° -10°

600 cps. 2400 cps.

100' 400'

GROUND MAGNETICS (GAMMAS) 1500 1000 500 0

2390

SOIL CONTENT (Cu-Pb-Zn) IN P.P.M. 160 140 120 100 80 60 40 20 0

Cu Pb Zn

2150

FOOT TRACK

HENTY RIVER

EASTERN ROAD

WESTERN ROAD

WESTERN GRID

EASTERN GRID

MT. TYNDALL LEASE: LINE 40

(SECTION LOOKING NORTH)

SCALE: 1" = 500'
CHECKED: J. Williams
DATE: 23-6-69

5 cm

HEIGHT ABOVE S.L. 2500' 2000' 1500'

E.M. DIP ANGLES +10° 0° -10°

600 c.p.s. 2400 c.p.s.

100' 400'

GROUND MAGNETICS (GAMMAS) 1500 1000 500 0

SOIL CONTENT (Cu-Pb-Zn) IN p.p.m. 160 140 120 100 80 60 40 20 0

Cu Pb Zn

2150

2390

FOOT TRACK

HENTY RIVER

EASTERN ROAD

WESTERN ROAD

WESTERN GRID

EASTERN GRID

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

179

TYNDALL SHEET 3

COMPOSITE LINE PROFILES

LINES 44+46

3/014

(SECTION LOOKING NORTH)

MT. TYNDALL LEASE. LINE 46

5 cm

SCALE: 1"=500'
CHECKED:
DATE: 23-6-69

SOIL CONTENT (Cu-Pb-Zn) IN p.p.m.

GROUND MAGNETICS (GAMMAS)

E.M. DIP ANGLES

HEIGHT ABOVE S.L.

Cu
Pb
Zn

Zn 150
Zn 200
Zn 200
Zn 170
Zn 150
Pb 180
Zn 210

600 c.p.s.
2400 c.p.s.

100'
400'
R
T

1800

EASTERN ROAD

FOOT TRACK

WESTERN ROAD

WESTERN GRID | EASTERN GRID

(SECTION LOOKING NORTH)

MT. TYNDALL LEASE. LINE 44

5 cm

SCALE: 1"=500'
CHECKED:
DATE: 23-6-69

SOIL CONTENT (Cu-Pb-Zn) IN p.p.m.

GROUND MAGNETICS (GAMMAS)

E.M. DIP ANGLES

HEIGHT ABOVE S.L.

Cu
Pb
Zn

Zn 160
Zn 280
Zn 360
Pb 180

600 c.p.s.
2400 c.p.s.

NO HIGH READINGS

100'
400'

22

EASTERN ROAD

FOOT TRACK

WESTERN ROAD

WESTERN GRID | EASTERN GRID

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

TYNDALL SHEET 3

COMPOSITE LINE PROFILES

LINES 48+50

3/015

MT. TYNDALL LEASE: LINE 48

(SECTION LOOKING NORTH)

5 cm

SCALE: 1"=500'
CHECKED: J.A.M.
DATE: 23-6-69

SOIL CONTENT (Cu-Pb-Zn) IN p.p.m.

Cu
Pb
Zn

Zn 340
Zn 170
Pb 180
Zn 230
Pb 160
Pb 180
Zn 150
FOOT TRACK

GROUND MAGNETICS (GAMMAS)

E.M. DIP ANGLES

600 c.p.s.
2400 c.p.s.

NO HIGH READINGS

HEIGHT ABOVE S.L.

EASTERN ROAD

WESTERN GRID | EASTERN GRID

MT. TYNDALL LEASE: LINE 50

(SECTION LOOKING NORTH)

5 cm

SCALE: 1"=500'
CHECKED: J.A.M.
DATE: 23-6-69

SOIL CONTENT (Cu-Pb-Zn) IN p.p.m.

Cu
Pb
Zn

Zn 210
Zn 220
Zn 180
Pb 260
Zn 190
Pb 220
Zn 150
Pb 1000

GROUND MAGNETICS (GAMMAS)

E.M. DIP ANGLES

600 c.p.s.
2400 c.p.s.

HEIGHT ABOVE S.L.

EASTERN ROAD

WESTERN GRID | EASTERN GRID

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

(41)

TYNDALL SHEET 3

COMPOSITE LINE PROFILES

LINES 52 + 54

MT. TYNDALL LEASE LINE 52

(SECTION LOOKING NORTH)

SCALE: 1" = 500'
CHECKED: A.A. Thornton
DATE: 24-6-69

5 cm

HEIGHT ABOVE S.L.

E.M. DIP ANGLES

GROUND MAGNETICS (GAMMAS)

SOIL CONTENT (Cu-Pb-Zn) IN p.p.m.

EASTERN ROAD

WESTERN GRID | EASTERN GRID

600 c.p.s.
2400 c.p.s.

NO H.F. READINGS TAKEN

Cu
Pb
Zn

Zn 260
Pb 220
Zn 180

MT. TYNDALL LEASE LINE 54:

(SECTION LOOKING NORTH)

SCALE: 1" = 500'
CHECKED: A.A. Thornton
DATE: 24-6-69

5 cm

HEIGHT ABOVE S.L.

E.M. DIP ANGLES

GROUND MAGNETICS (GAMMAS)

SOIL CONTENT (Cu-Pb-Zn) IN p.p.m.

EASTERN ROAD

WESTERN GRID | EASTERN GRID

LAKE JOHNSTONE

600 c.p.s.

NO HIGH FREQUENCY READINGS TAKEN

Cu
Pb
Zn

Zn 280
Pb 160
Zn 140
Pb 470

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

TYNDALL SHEET 3

COMPOSITE LINE PROFILES

3/017

LINES 56+58

MT. TYNDALL LEASE: LINE 56

(SECTION LOOKING NORTH)

SCALE: 1"=500'
DATE: 24-6-69
CHECKED:

5 cm

HEIGHT ABOVE S.L. 3500' 3000' 2500' 2000'

E.M. DIP ANGLES +10° 0° -10°

600 c.p.s.
2400 c.p.s.

R
T
100'
400'

GROUND MAGNETICS (GAMMAS) 1500 1000 500 0

SOIL CONTENT (Cu-Pb-Zn) IN p.p.m. 140 120 100 80 60 40 20 0

Cu
Pb
Zn

ROAD
EASTERN GRID
WESTERN GRID
FOOT TRACK

MT. TYNDALL LEASE: LINE 58

(SECTION LOOKING NORTH)

SCALE: 1"=500'
DATE: 24-6-69
CHECKED:

5 cm

HEIGHT ABOVE S.L. 3500' 3000' 2500' 2000'

E.M. DIP ANGLES +10° 0° -10°

600 c.p.s.
2400 c.p.s.

R
T
100'
400'

NO HIGH READINGS TAKEN

GROUND MAGNETICS (GAMMAS) 1500 1000 500 0

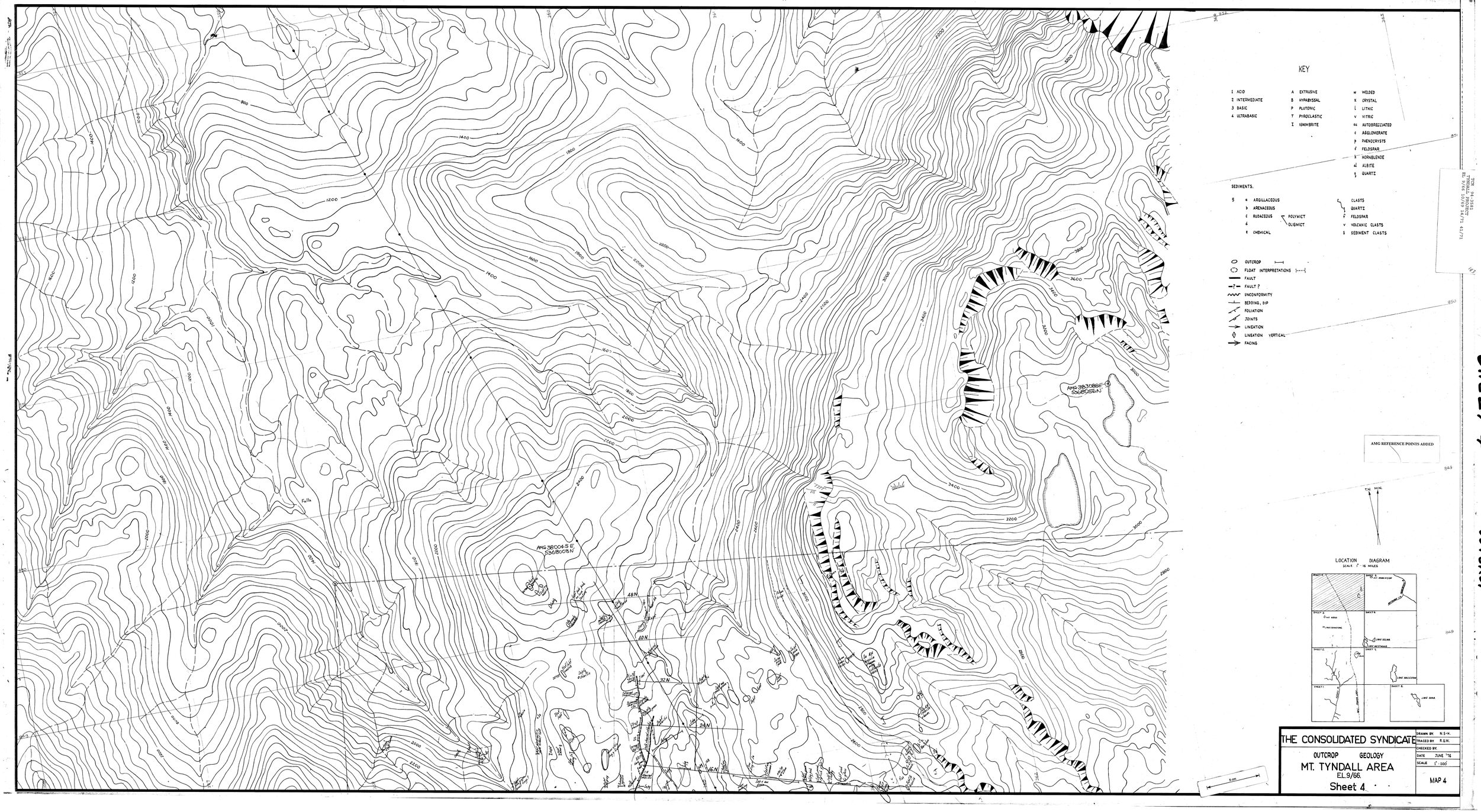
SOIL CONTENT (Cu-Pb-Zn) IN p.p.m. 140 120 100 80 60 40 20 0

Cu
Pb
Zn

Zn 300
Pb 220
Pb 230
Pb 230
Zn 1605

ROAD
EASTERN GRID
WESTERN GRID
TRACK

NO READINGS TAKEN
T.V. POWER LINE



1:6,000

TYNDALL SHEET 4

GEOLOGY OUTCROP

1976

4/101

1:6000

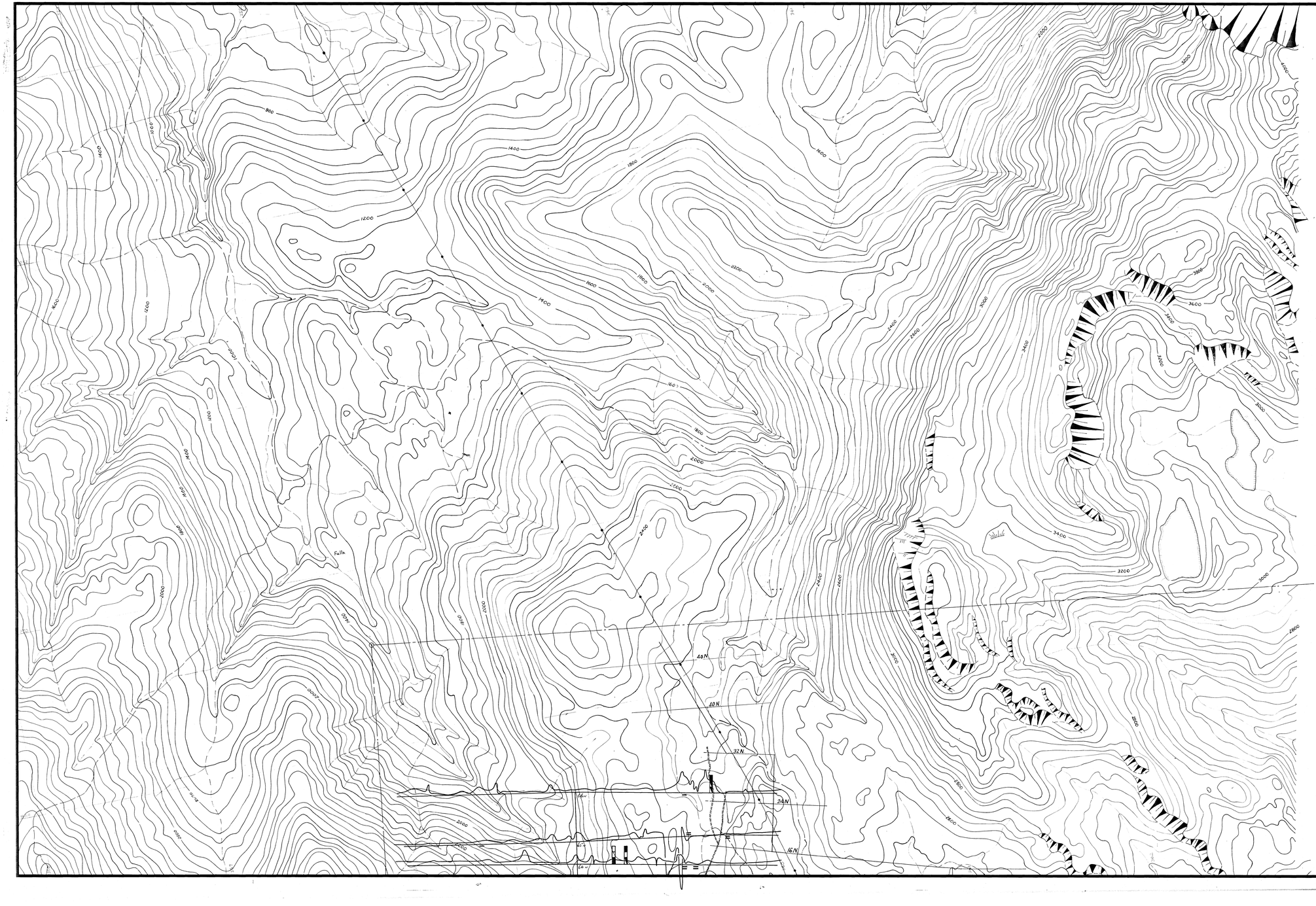
TYNDALL
SHEET 4

GEOCHEMISTRY

4/303

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71





1:6,000

TYNDALL SHEET 4

GEOPHYSICS COMPILATION

TCR 94-3583
TCR 94-3584
EES 9/66-10/69 14/71 41/71

Zn
Pb
Cu
Cu
Pb
Zn

80 m

FIRST ORDER ANOMALY
SECOND ORDER ANOMALY

I.P. ANOMALIES

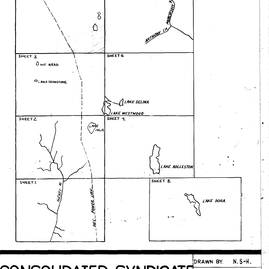
FIRST ORDER ANOMALY.
SECOND ORDER ANOMALY.
THIRD ORDER ANOMALY.

MAGNETICS

1 INCH = 1000 GAMMAS.
——— = FLUXGATE VERTICAL FIELD.
– – – = PROTON TOTAL FIELD.

TRUE NORTH
MAGNETIC NORTH

LOCATION DIAGRAM
SCALE 1" = 16 MILES



5 cm

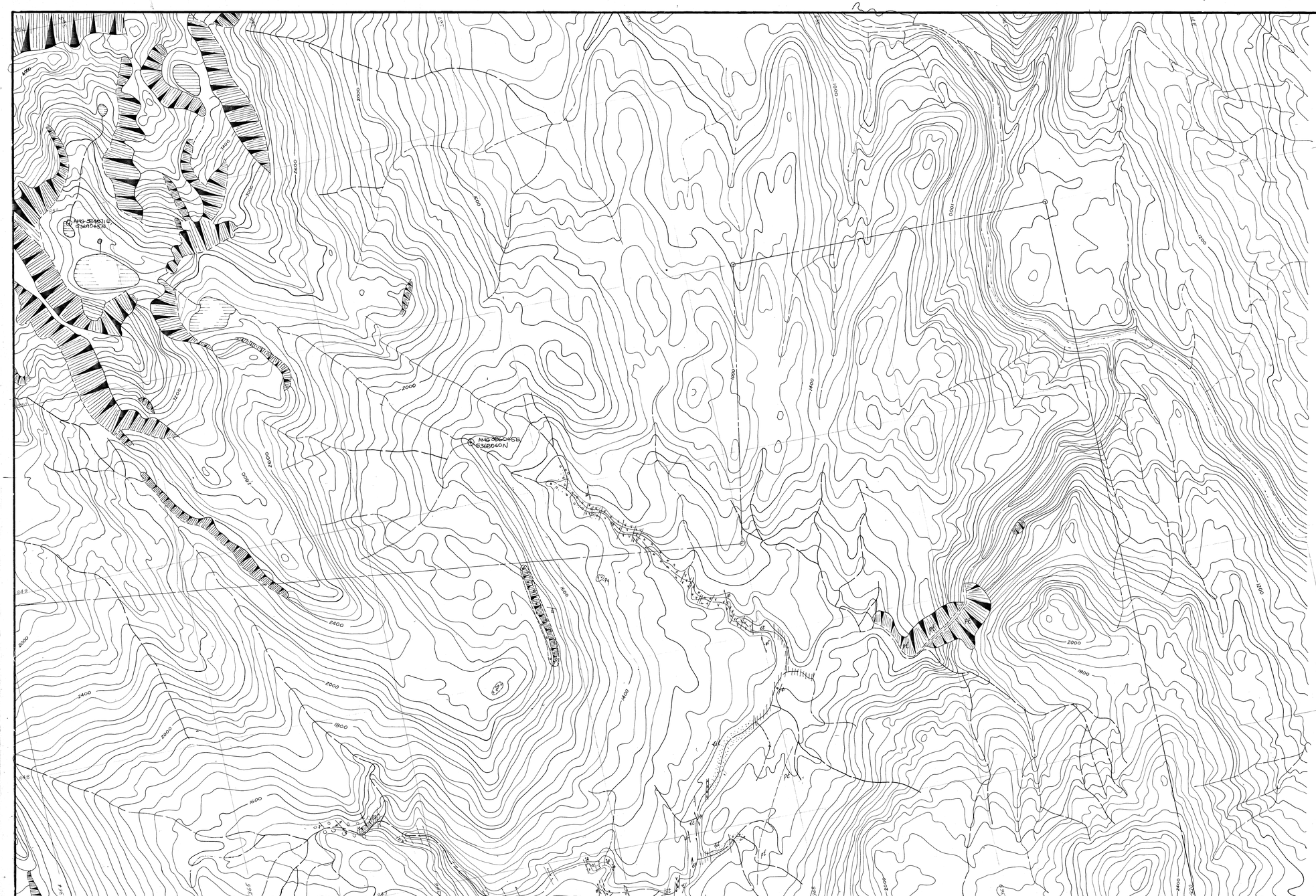
THE CONSOLIDATED SYNDICATE

GEOCHEM. ANOMALIES & GEOPHYSICAL DATA
MT. TYNDALL AREA
EL. 9/66.
Sheet 4

DRAWN BY	N.S-H.
TRACED BY	R.G.W.
CHECKED BY	
DATE	8-71-'72
SCALE	1" = 500'

FIG. 15

4401



1:6000

TYNDALL SHEETS

GEOLOGY

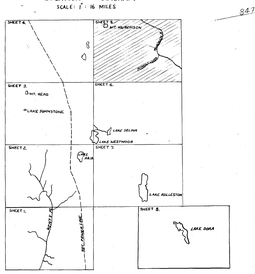
5/101

TCR 84-3581
AMG 384031E 5346045N
RL 2/66 10/69 24/71 41/71

LEGEND

- SCREE AND MORAINE.
- OWEN CONGLOMERATE.
- JUKES BRECCIA.
- MURCHISON GRANITE.
- TUFF - AGGLOMERATE.
- ACID LAVAS.
- GREYWACKE.
- SANDSTONE.
- SHALE.
- PC PRECAMBRIAN QUARTZITE.

LOCATION DIAGRAM
SCALE 1" = 1/2 MILES



AMG REFERENCE POINTS ADDED

5 cm

THE CONSOLIDATED SYNDICATE	DRAWN BY
	TRACED BY
GEOLOGICAL MAP	CHECKED BY
MT. TYNDALL AREA	DATE
E.L. 9/66	SCALE 1" = 500'
Sheet 5	