1 of 335.

MICROFILMED
FICHE No. 01327 -

OPEN FILE

94-3581

List of transparencies of plans from portions of ELs 9/66, 10/69, 14/71 and 11/71 relinquished by Goldfields Exploration and covering the Beatrice, Red Hills, Howards, Henty River, Dora, Forest Tyndell, Tyndell, Basin Lake, Selina and White Spur areas.

Beatrice Grid	Contours	1:6 000	10/002
" "	Contours and Access	1:2 000	10/006
" "	Contours and Access	1:2 000	10/004
" "	Contours and Access	1:6 000	—
" "	Geology Section 1,600 mN	1:6 000	Fig 1
" "	Geology Section, South Mt Sedgwick	1:6 000	Fig 2
" "	Geology Section Lines 828,000 yN, 1,800 mN	1:6 000	Fig 49
" "	Soil Geochem Cu, Pb, Zn	1:6 000	10/302
" "	Soil Geochem Cu, Pb, Zn	1:2 000	10/305
" "	Rock Assays	1:2 000	10/303
" "	Geochem Sample Locations	1:15 840	Map 8
" "	Soil Geochem, Cu	1:6 000	10/308
" "	Soil Geochem, Zn	1:6 000	10/309
" "	Soil Geochem, Pb	1:6 000	Fig 52
" "	Gradient Array IP Lines 1,800 mN, 2,000 mN	1:2 500	Fig 57
" "	Ground Magnetic Contours	???	Plate 4
" "	Chargeability Contours	???	Fig 38
" "	Resistivity Contours	???	—
" "	Resistivity Contours	1:2 000	Plate 2
" "	Chargeability Contours	1:2 000	Plate 1
" "	Geophys Anomaly Compilation	???	Map 7
" "	Anomaly Compilation	1:6 000	10/304
" "	Drill Profiles Lines 16 and 18N	1:1 000	Fig 18
" "	Drill Profiles Lines 14, 16 and 18N	1:1 000	Fig 19
" "	Longitudinal Projection 365,200 yE	1:1 000	—
" "	Composite Profile, Line 12N	1:1 000	—
" "	Composite Profile, Line 14N	1:1 000	—
" "	Composite Profile, Line 16N	1:1 000	10/501
" "	Composite Profile, Line 18N	1:1 000	Fig 61
" "	Composite Profile, Line 18N and DDHMS5	1:1 000	Fig 62
" "	Composite Drill Sections, MS2 and 3	1:1 000	10/505
Red Hills	Alteration Patterns	1:5 000	Fig 4
" "	Geology & IP Anomalies	1:6 000	Fig 24
" "	Drill Hole Plan	1:2 000	—

Red Hills	Geology	1:2 400	Map 6
" "	Geophys Anomalies	1:5 000	Fig 4a
" "	Red Hills Grid	1:5 000	A2-216
" "	Sectn 1,150N	1:1 000	—
" "	Sectn 1,100N	1:1 000	—
" "	Sectn 2,650N	1:1 000	—
" "	Sectn 2,350N	1:1 000	—
" "	Sectn 1,200N	1:1 000	—
" "	Longitudinal Projection, North Area	1:1 000	—
" "	Drill Hole Locality Plan	1:1 000	—
" "	Drill Hole Locality Plan	1:5 000	—
" "	Composite Profile, Line 8S	1:1 200	—
" "	Composite Profile, Line 56S	1:1 200	—
" "	Ground Magnetic Contours	1:6 000	Plate 3
" "	Chargeability Contours	1:6 000	Plate 1
" "	Resistivity Contours	1:6 000	Plate 2
" "	Geophys Interp	1:6 000	Plate 4
" "	Composite Drill Profile, DDH RH8	1:1 200	—
" "	Composite Drill Profile, DDH RH9, RHP95	1:1 200	—
" "	Composite Drill Profile, DDH RH10	1:1 200	—
" "	Composite Drill Profile, DDH RH11	1:1 200	—
" "	Drill Sectns, DDH GN1 & GN2	1:1 200	—
" "	Drill Sectns, DDH RH7	1: 600	—
Howards	Access Base Sheet	1:6 000	—
" "	Contours and Access	1:5 000	A0-171
" "	Geochem Coverage	1:6 000	Fig 13
" "	Soil Geochem	1:5 000	—
" "	Stream Geochem ~TCR 81-1660	1:5 000	—
" "	Geophys Coverage	1:6 000	—
" "	Detailed Grid Base	1:2 500	A2-161
" "	Tyndall Mine Workings	1:500	A2-80
" "	EM & Magnetics, 1957	1:6 000	—
" "	Composite Profile Line 22N	1:1 000	2/509
" "	Drill Sectn, Line 16 N (DDH Tyndall No.3)	1:2 400	—
" "	Ground Magnetic Coverage	1:6 000	Fig 15
" "	IP Coverage	1:6 000	Fig 14
" "	Anomaly Compilation	1:6 000	Fig 12

Henty River Grid	Adit Sampling Assays	1:50	1/308
" " "	Access Base, Sheet 1	1:2 500	1/012
" " "	Access Base, Sheet 2	1:2 500	19/005
Dora	Lake Dora Geological Map	1:6 000	Map 3
" "	Geological Sectn, Lake Dora	1:6 000	9/202
" "	Geological Sectn, Lake Dora	1:6 000	Map 3'A-A'
" "	Copper Workings, 1938	1 in to 5 ch	6
" "	Contours and Access	1:5 000	A1-177
" "	Geology	1:5 000	Fig 21
" "	IP Coverage	1:5 000	A1-177-7
" "	Composite Profile, Line 192S	1:2 000	A0-188
East Tyndall	Anomaly Compilation	1:5 000	A0-209-2
" "	Soil Geochem (South)	1:5 000	Fig 41
" "	Soil Geochem (North)	1:5 000	Fig 40
" "	Soil Geochem, Zn (North)	1:5 000	Fig 42
" "	Stratigraphy	1:10 000	A1-164
" "	Contours and Access	1:5 000	A0-209
" "	Anomaly Compilation	1:5 000	A0-210-2
" "	Ground Magnetics	1:5 000	13
" "	Ground EM	1:5 000	Fig 51
" "	Resistivity Profiles, Lines 2N - 8N	1:2 000	A0-160-1
" "	Chargeability Profiles, Line 2N - 8N	1:2 000	A0-160-2
" "	IP Results, Lines 15N - 18N	1:2 000	A0-160
" "	IP Coverage	1:20 000	Fig 3
" "	Ground Magnetics	1:20 000	Fig 7
" "	IP Resistivity Contours	1:20 000	Fig 6b
" "	IP PFE Contours	1:20 000	Fig 5b
" "	IP Metal Factor Contours	1:20 000	Fig 5c
" "	IP Anomalies	1:20 000	Fig 5a
" "	Geophys Coverage	1:20 000	Fig 4
" "	EM Anomalies	1:20 000	Fig 8
" "	Resistivity Anomalies	1:20 000	Fig 6a
" "	Sectn Line 12N (DDH Tyndall No. 1)	1:600	—
" "	Sectn Line 4N (DDH Tyndall No. 2)	1:1 200	—
Tyndall	Sheet 1, Geology, 1969	1:6 000	1/101
" "	" " Geology, 1974	1:6 000	1/102
" "	" " Geology, 1975	1:6 000	1/104

Tyndall		Sheet 1, Soil Geochem, Cu	1:6 000	1/301
"	"	" " Soil Geochem, Pb	1:6 000	1/302
"	"	" " Soil Geochem, Zn	1:6 000	1/303
"	"	" " Soil Geochem, Cu, Pb, Zn	1:6 000	1/304
"	"	" " Soil Type Distribution	1:6 000	1/305
"	"	" " Soil Sampling	1:6 000	1/306
"	"	" " Ground Magnetics	1:6 000	1/401
"	"	" " McPhar IP Anomalies	1:6 000	1/402
"	"	" " McPhar IP Resitivity	1:6 000	1/403
"	"	" " McPhar IP Chargeability	1:6 000	1/404
"	"	" " McPhar IP Interp	1:6 000	1/405
"	"	" " IP and Magnetics	1:6 000	1/407
"	"	" " Composite Profiles, Lines 2N & 4N	1:6 000	1/007
"	"	" " Composite Profiles, Lines 6N & 8N	1:6 000	1/008
"	"	" " Composite Profiles, Lines 10N & 12N	1:6 000	1/009
"	"	" " Composite Profiles, Lines 14N & 16N	1:6 000	1/010
"	"	" " Composite Profiles, Lines 18N & 20N	1:6 000	1/011
"	"	Sheet 2, Geology, 1975	1:6 000	2/103
"	"	" " Soil Geochem, Cu	1:6 000	2/301
"	"	" " Soil Geochem, Pb	1:6 000	2/302
"	"	" " Soil Geochem, Zn	1:6 000	2/303
"	"	" " Soil Geochem, Cu Pb, Zn	1:6 000	2/304
"	"	" " Soil Type Distribution	1:6 000	2/305
"	"	" " Soil Sampling	1:6 000	2/307
"	"	" " Detailed Soil Sampling, Howards Anomaly & HFZ	1:6 000	2/306
"	"	" " Ground Magnetics	1:6 000	2/401
"	"	" " IP Anomlaies	1:6 000	2/402
"	"	" " IP Resisitivity	1:6 000	2/406
"	"	" " IP Chargeability	1:6 000	2/407
"	"	" " Geophys Interp	1:6 000	2/408
"	"	" " Magnetic Profiles and IP Anomalies	1:6 000	2/409
"	"	" " Composite Profiles, Lines 22 & 24	1:6 000	2/012
"	"	" " Composite Profiles, Lines 26 & 28	1:6 000	2/013
"	"	" " Composite Profiles, Lines 30 & 32	1:6 000	2/014
"	"	" " Composite Profiles, Lines 34 & 36	1:6 000	2/015
"	"	" " Composite Profile, Line 38	1:6 000	2/016
"	"	Sheet 3, Geology, 1974	1:6 000	3/204

Tyndall	Sheet 3, Geology, 1975	1:6 000	3/102
" "	" " Geology, 1976	1:6 000	3/101
" "	" " Geology Sections	???	3/206
" "	" " Survey Data	1:6 000	3/025
" "	" " Soil Geochem, Cu	1:6 000	3/301
" "	" " Soil Geochem, Pb	1:6 000	3/302
" "	" " Soil Geochem, Zn	1:6 000	3/303
" "	" " Soil Geochem, Cu, Pb, Zn (3 sheets)	1:6 000	3/322, 3/306, 3/323
" "	" " Magnetic Profiles & IP Anomalies	1:6 000	3/407
" "	" " Ground Magnetics (2 sheets)	1:6 000	3/401, 3/403
" "	" " Geophys Anomalies	1:6 000	3/402
" "	" " Composite Profiles, Lines 32S & 46N	1:2 400	3/317
" "	" " Composite Profiles, Line 48N	1:2 400	3/316
" "	" " Composite Profiles, Lines 49N & 50N	1:2 400	3/315
" "	" " Composite Profiles, Lines 50N & 51N	1:2 400	3/314
" "	" " Composite Profiles, Lines 51N, 52N & 53N	1:2 400	3/313
" "	" " Composite Profiles, Lines 53N, 54N & 55N	1:2 400	3/312
" "	" " Composite Profiles, Lines 55N & 56N	1:2 400	3/311
" "	" " Composite Profiles, Lines 57N & 60N	1:2 400	3/310
" "	" " Composite Profiles, Lines 61N, 62N & 63N	1:2 400	3/309
" "	" " Composite Profiles, Lines 40 & 42	1:6 000	3/013
" "	" " Composite Profiles, Lines 44 & 46	1:6 000	3/014
" "	" " Composite Profiles, Lines 48 & 50	1:6 000	3/015
" "	" " Composite Profiles, Lines 52 & 54	1:6 000	3/016
" "	" " Composite Profiles, Lines 56 & 58	1:6 000	3/017
" "	Sheet 4, Geology, 1976	1:6 000	4/101
" "	" " Soil Geochem, Cu, Pb, Zn	1:6 000	4/303
" "	" " Geophys & Geochem Compilation	1:6 000	4/401
" "	Sheet 5, Geology	1:6 000	5/101
" "	Sheet 6, Contours and Access	1:6 000	6/001
" "	Sheet 7, Contours and Access	1:6 000	7/001
" "	Sheet 8, Contours and Access	1:6 000	SHEET 8
" "	" " Geology	1:6 000	SHEET 8
" "	Sheet 11, Contours and Access	1:6 000	11/001
" "	" " Electrical Soundings	???	11/401
" "	Sheet 14, Soil Geochem, Cu, Pb, Zn	1:6 000	14/305
" "	Sheet 15, Contours and Access	1:6 000	15/001

Tyndall	Sheet 15, General Data	1:6 000	15/003
" "	" " Soil Geochem, Cu, Pb, Zn	1:6 000	15/302
" "	" " Ground Magnetic Contours	1:6 000	15/402
" "	" " Geophys Anomaly Compilation	1:6 000	15/401
" "	Sheet 16, Contours and Access	1:6 000	16/001
" "	Sheet 17, Contours and Access	1:6 000	17/001
" "	Sheet 20, Geology	1:6 000	—
" "	" " Sample Locations	1:6 000	—
" "	Sheet 23, Soil and Rock Geochem, Cu, Pb, Zn	1:6 000	—
" "	Sheet 29, Contours	1:6 000	29/001
" "	" " Soil Geochem, Cu, Pb, Zn	1:6 000	29/301
" "	Sheet 31, Contours	1:6 000	31/001
" "	" " Soil Geochem, Cu, Pb, Zn	1:6 000	31/301
" "	Sheet 33, Contours	1:6 000	33/001
Basin Lake	Contours	1:10 000	AO-224
" "	Contours and Access	1:6 000	—
" "	Grid Overlay	1:5 000	—
" "	Sample Locations	1:5 000	4
" "	Contours	1:5 000	—
" "	Stream Sediment Geochem	1:10 000	Fig 24
" "	Costean Line 00	1:240	Fig 6
" "	Soil Geochem 10 + 80#	1:6 000	—
" "	Soil Geochem - 80#	1:6 000	Fig 4
" "	Soil Geochem - 80#	1:6 000	Map 10
" "	EM Interp	1:5 000	10
" "	IP Anomalous Zones	1:5 000	—
" "	Resistivity Contours	1:5 000	Fig 49
" "	Chargeability Contours	1:5 000	Fig 48
" "	Contours and Access	1:5 000	—
" "	Composite Profiles, Line 72S (DDH BL 1)	1:1 200	Fig 7
" "	Composite Profiles, Line 48S (DDH BL2)	1:1 200	Fig 9
" "	Composite Profiles, Line 30S (DDH BL3)	1:1 000	19/504
" "	Composite Profiles, Line 30S (DDH BL4)	1:1 000	19/505
" "	Composite Profiles, Line 36S (DDH BL5)	1:1 000	Fig 44
" "	Geochem Pb	1:5 000	6
" "	Geochem Ag	1:5 000	8
" "	Geochem Cu	1:5 000	5

Basin Lake		Geochem Zn	1:5 000 7
"	"	Geochem Au	1:5 000 9
"	"	Geological Section DDH TYN(3 & 5)	1:2 000 Fig 5
"	"	Geophys Profiles, Lines 30S & 36S	1:2 000 Fig 11, 12
"	"	Down Hole Geophys, BL1 & BL2	1:1 000 Fig 8 + 10
"	"	Down Hole Geophys, BL3	1:1 000 A2-153
"	"	Down Hole EM Loop Locations	1:5 000 —
"	"	Chargeability	1:5 000 11
"	"	Resitivity	1:5 000 12
"	"	Composite Profile, Line 48S	1:1 200 —
"	"	Geochem & Geophys Profiles, Lines 72S, 78S & 84S	1:2 400 Map 6
"	"	IP line 78S	1:1 000 A2-228
"	"	Physical Properties	1:6 000 Plate 5
"	"	Ground Magnetic Contours	1:6 000 Plate 4
"	"	Resistivity Contours	1:6 000 Map 9
"	"	Chargeability Contours	1:6 000 Map 8
"	"	Geophys & Geochem Anolmalies	1:6 000 Fig 5
Selina		Geophys Anomaly Compilation	1:6 000 Fig 3a
"	"	Longitudinal Projection, Anomaly A1	??? Fig 6
"	"	Geology Interp	1:10 000 Fig 3
"	"	Contours and Access	1:5 000 A0-172
"	"	Contours	1:5 000 —
"	"	Rock Geochem Cu	1:5 000 28
"	"	Rock Geochem Pb	1:5 000 29
"	"	Rock Geochem Zn	1:5 000 30
"	"	Rock Geochem Ag	1:5 000 31
"	"	Composite Profiles, Line 184N (DDH LS8)	1:1 000 A0-143
"	"	Drilling Profile, DDH LS10	1:1 000 Fig 7
"	"	Ground Magnetic Contours, 1980	1:5 000 6/408
"	"	Ground Magnetic Contours, 1982	1:5 000 Fig 30
"	"	Areomag Contours, 1980	1:5 000 —
"	"	Resistivity Contours	1:5 000 Fig 28
"	"	Chargeability Contours	1:5 000 Fig 27
"	"	Anomaly Compilation	1:5 000 Fig 16
"	"	UTEM Interp	1:5 000 Fig 32
"	"	Drill Section, DDH LS6 & DDH LS9	1:1 000 Fig 6
"	"	Drill Section, DDH LS11	1:1 000 Fig 8

Selina		Drill Section, DDH LS12	1:1 000 Fig 9
"	"	Drill Section, DDH LS13	1:1 000 Fig 19
"	"	Composite Profile, Line 48N (DDH LS3)	1:600 –
"	"	Composite Profile, Line 64N (DDH LS2)	1:600 –
"	"	Composite Profile, Line 72N (DDH LS1)	1:600 Map 7
"	"	Composite Profile, Line 112N (DDH Selina No. 7)	1:1 200 Fig 3
"	"	Composite Profile, Line 120N (DDH Selina No. 4)	1:1 200 –
"	"	Composite Profile, Line 128N (DDH Selina No. 5)	1:1 200 Map 4
"	"	Composite Profile, Line 136N (DDH Selina No. 6)	1:1 200 Map 5
"	"	Sirotem Survey, DDH LS10 (x2)	1:2 000 Figs 3b • 4b Figs 3a • 4a
"	"	Sirotem Survey, DDH LS13 (x2)	1:2 000 Figs 6A • 7A Figs 6B • 7B
"	"	IP Coverage, 1981	1:5 000 Fig 3
"	"	Geophys Anomaly Compilation	1:6 000 Fig 36
"	"	Ground Magnetics	1:6 000 –
"	"	Anomaly Compilation, 1980	1:5 000 7/403
"	"	Chargebility Profiles, Lines 40N, 48N & 56N	1:2 000 A1-154
"	"	Resistivity Profiles, Lines 40N,, 48N & 56N	1:2 000 A1-154-1
"	"	IP profile, Line 120N	1:2 000 A2-170
"	"	IP Profile, Line 152N	1:2 000 A2-222
"	"	Genie EM Profiles, Lines 120N, 124N, 128N, 152N & 240N	1:2 000 A2-223
"	"	Composite Profile, Line 40N	1:2 000 A0-185
"	"	Composite Profile, Line 48N	1:2 000 A0-186
"	"	Composite Profile, Line 56N	1:2 000 A0-187
"	"	Composite Profile, Line 120N (DDH LS4)	1:1 000 6/506
"	"	Composite Profile, Line 120N	1:2 000 A0-184
"	"	Composite Profile, Line 128N	1:2 000 A0-176
"	"	Composite Profile, Line 144N	1:2 000 A0-183
"	"	Composite Profile, Line 184N	1:2 000 A0-182
"	"	Rock Sample Locations	1:5 000 7
"	"	Sample Locations	1:5 000 –
"	"	Soil Geochem, 1981	1:5 000 Fig 28
"	"	Geology Interp, 1981	1:5 000 Fig 2
"	"	Grid Overlay	1:5 000 –
"	"	Base Plan	1:10 000 –
"	"	Base Map	1:6 000 –
"	"	Rock Chip Sample Locations	??? 27
"	"	Base Map (x2)	1:5 000 6/008

Selina	Contour & Access	1:5 000 A0-203
" "	Turair Survey	1:10 000 Plates 1-2
" "	Anomaly Compilation	1:5 000 Fig 18
" "	Ground Magnetics, 1981	1:5 000 Fig 6
" "	Soil Geochem, 1982	1:5 000 Fig 17
" "	Soil Geochem, Cu, Pb, Zn	1:6 000 —
" "	Soil Geochem, Summary	1:6 000 Map 5
" "	Soil Geochem, Cu Contours	1:6 000 Fig 5a
" "	Soil Geochem, Zn Contours	1:6 000 Fig 5c
" "	Soil Geochem, Pb Contours	1:6 000 Fig 5b
" "	Soil Geochem, Pb Line Profiles	1:5 000 A2-191-1
" "	Soil Geochem, Zn Line Profiles	1:5 000 A2-191-2
" "	Soil Geochem, Ag Line Profiles	1:5 000 A2-191-3
White Spur	Ground EM, 1968	1:6 000 —
Zig Zag Hill	Geophys Interp	1:5 000 Fig 7
Newton Creek	Ground Magnetics	??? —
Leech Hill	Sirotem Survey (x4)	1:3 600 —
Tyndall	Work 1983-4	1:50 000 Fig 2
" "	Work 1984-5	1:50 000 Fig 1
" "	Work 1985-6 (x2)	1:50 000 Fig 3
Red Hills - Gooseneck	Geology	1:6 000 Map 9
Newton Creek - Henty River	Geology	1:6 000 306
Tyndall Area	Rock Sampling	1:15 840 Map 7
Henty River - West Tyndall	Interp Geology and Geophys	1:5 000 Fig 23

TCR 94-358
TYPOGRAPHICAL PRODUCT
EL 9/66 10/69 14/71 41/71

BEATRICE

MT. SEDGWICK
1147m

POMPHREY CREEK

ITAR CREEK

COMSTOCK CREEK

328,000 YDS N.

327,000 YDS N.

326,000 YDS N.

325,000 YDS N.

324,000 YDS N.

365,000 YDS E.

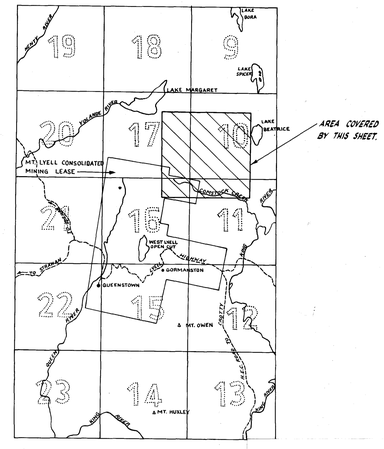
366,000 YDS E.

367,000 YDS E.

368,000 YDS E.

N

LOCATION



ANG COORDINATES

THE MOUNT LYELL M. & R. COY. LTD.	DRAWN.
GEOLOGICAL DEPARTMENT	TRACED.
	CHECKED.
E.L. 9/66	DATE.
BEATRICE GRID	SCALE. 1:6,000
5 cm	10/002

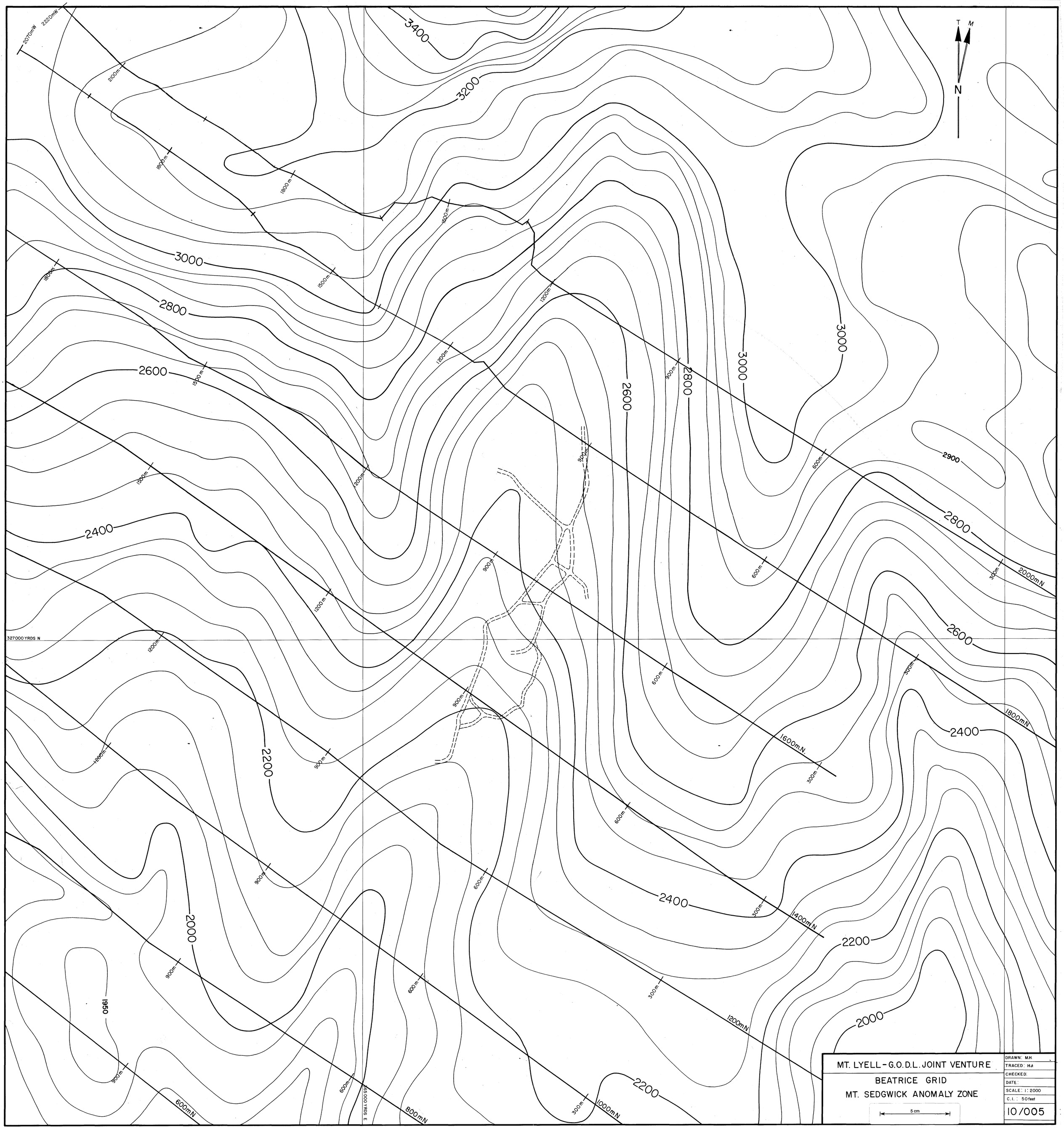
10/002

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

1:2000

BEATRICE GRID

CONTOUR + ACCESS BASE MAP

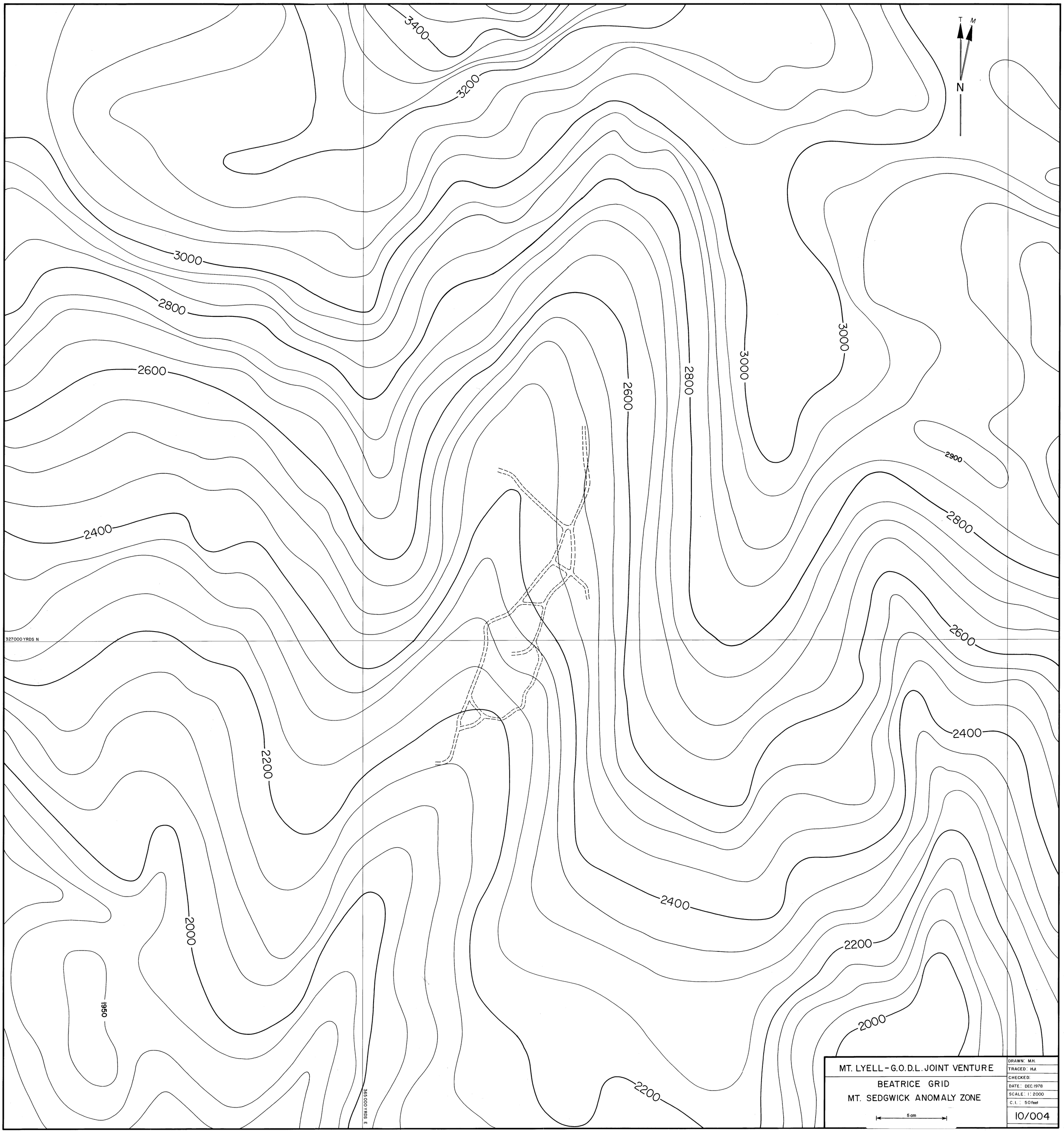


MT. LYELL - G.O.D.L. JOINT VENTURE	DRAWN: M.H.
BEATRICE GRID	TRACED: H.d.
MT. SEDGWICK ANOMALY ZONE	CHECKED:
5 cm	DATE:
	SCALE: 1:2000
	C.I.: 50 feet
	10/005

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

1:2000 BEATRICE GRID CONTOUR BASE MAP

ANG COORDINATES



MT. LYELL - G.O.D.L. JOINT VENTURE

BEATRICE GRID

MT. SEDGWICK ANOMALY ZONE

5 cm

DRAWN: M.H.
TRACED: H.d.
CHECKED:
DATE: DEC. 1978
SCALE: 1: 2000
C.I.: 50 feet

10/004

BEATRICE GRID
CONTOUR ACCESS
BASE MAP

1:6000

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

13

MT. SEDGWICK
1147m

828000 yds N.

825000 yds N.

826000 yds N.

824000 yds N.

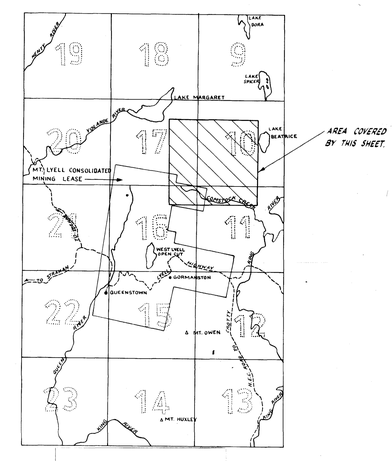
PORPHYRY CREEK

CONSTOCK CREEK

T M

N

LOCATION



ANG COORDINATES

THE MOUNT LYELL M. & R. COY. LTD. GEOLOGICAL DEPARTMENT	DRAWN.
	TRACED.
	CHECKED.
E.L. 9/66.	DATE.
BEATRICE GRID	SCALE 1:6000
6 cm	

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

1:6,000

BEATRICE GRID

GEOLOGY SECTION

N.W.

S.E.

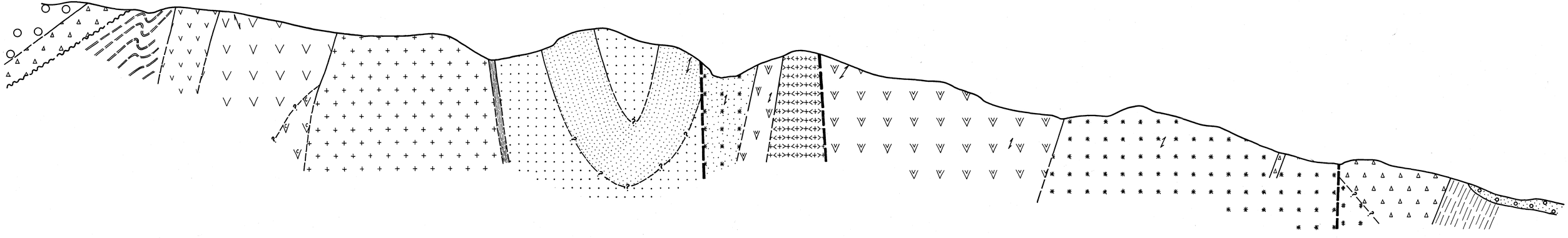


FIG. 1

SECTION ALONG LINE 1600 m N. (Brg: 122°) BEATRICE GRID

SCALE 1:6000 HORIZONTAL & VERTICAL

5 cm

LEGEND: REFER TO MAP 4

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

15

BEATRICE — SEDGWICK AREA

GEOLOGY INTERPRETATIVE SECTION

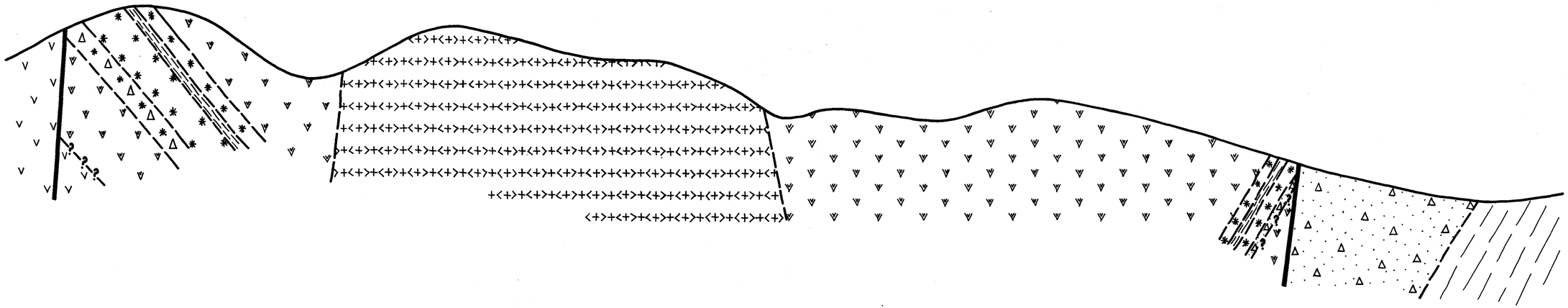
WEST.

SECTION THROUGH SOUTH MT. SEDGWICK

(MAP 4 'B-B')

FIG. 2

EAST.



SCALE: 1:6000. HORIZONTAL & VERTICAL.

NOTE: REFER TO MAP 4 FOR KEY.

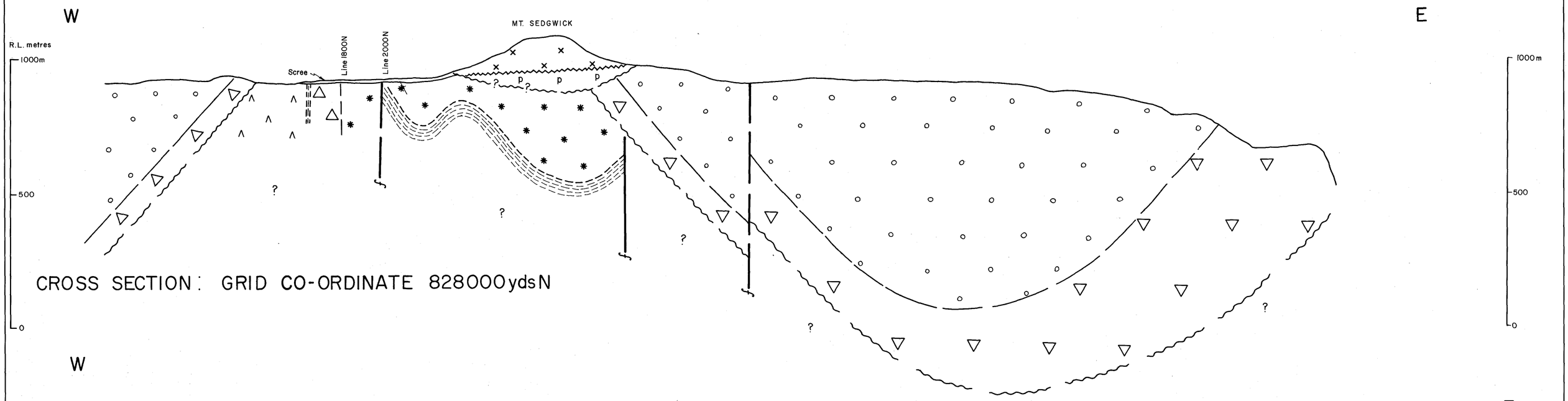
5 cm

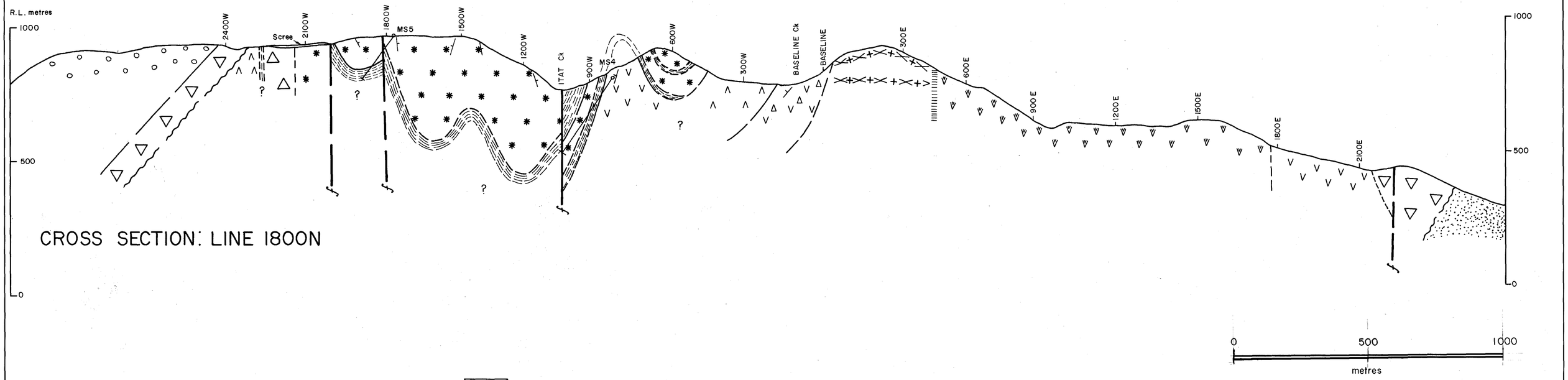
1:6,000

BEATRICE GRID

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

GEOLOGY SECTION





RECENT — Scree, moraine

JURASSIC — Dolerite

PERMIAN — Tillite

ORDOVICIAN — Owen conglomerate

UPPER CAMBRIAN — Tyndall group

CAMBRIAN
- Black shales
- Quartz-feldspar crystal tuffs (Sedgwick Porphyry)
- F.g. rhyolite & ash tuffs
- Lapilli tuffs
- Vitric tuffs
- Ash flow lapilli-vitric tuffs
- Felsic lavas
- Darwin-type rhyolite

LOWER CAMBRIAN — Micaceous sandstone

Conformable contact: Established, Approximate, Inferred, Gradational

Unconformable contact: Established, Approximate

Intrusive contact

Fault — Established, Inferred

Trace of bedding

Diamond drill hole — MS4

MT. LYELL - G.O.D.L. JOINT VENTURE
E.L. 9/66

BEATRICE GRID
GEOLOGICAL CROSS SECTIONS

5 cm

SCALE: H = 1:10000. V = 1:10000	DATE: 14-8-1980
AUTHOR: M. HUTTON	DRAFTSMAN: H.D.J.

10/204
FIG: 49

BEATRICE GRID
GEOCHEMISTRY
SOIL RESULTS

1:6,000

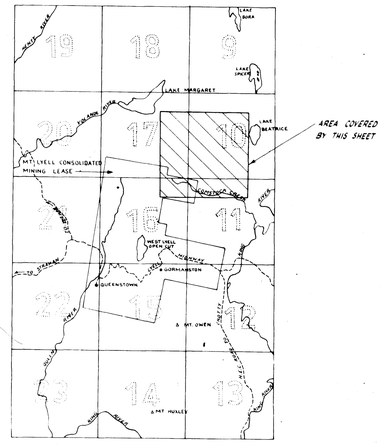
TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

MT. SEDGWICK
1147m

N

ANG COORDINATES

LOCATION



5cm

MT. LYELL - G.O.D.L. JOINT VENTURE EL 9/66	DRAWN M.H. TRACED R.G.W.
BEATRICE GRID SOIL GEOCHEMISTRY -80 # FRACTION COPPER, LEAD & ZINC	C.I. 50 feet DATE 9-7-79 SCALE 1:6000 10/302 FIG. 50

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

18

1:2000 BEATRICE GRID GEOCHEMISTRY SOIL RESULTS

ANG COORDINATES

T M N

3400 3200 3000 2800 2600 2400 2200 2000 1800 1600 1400 1200 1000 900 800 600 300

2070mW 2200mW 2100m 1800m 1500m 1200m 900m 600m 300m

327000 YRDS N

659000 YRDS E

1600mN 1400mN 1200mN 1000mN 800mN 600mN 2000mN 1800mN

BASE LINE

TATT CREEK

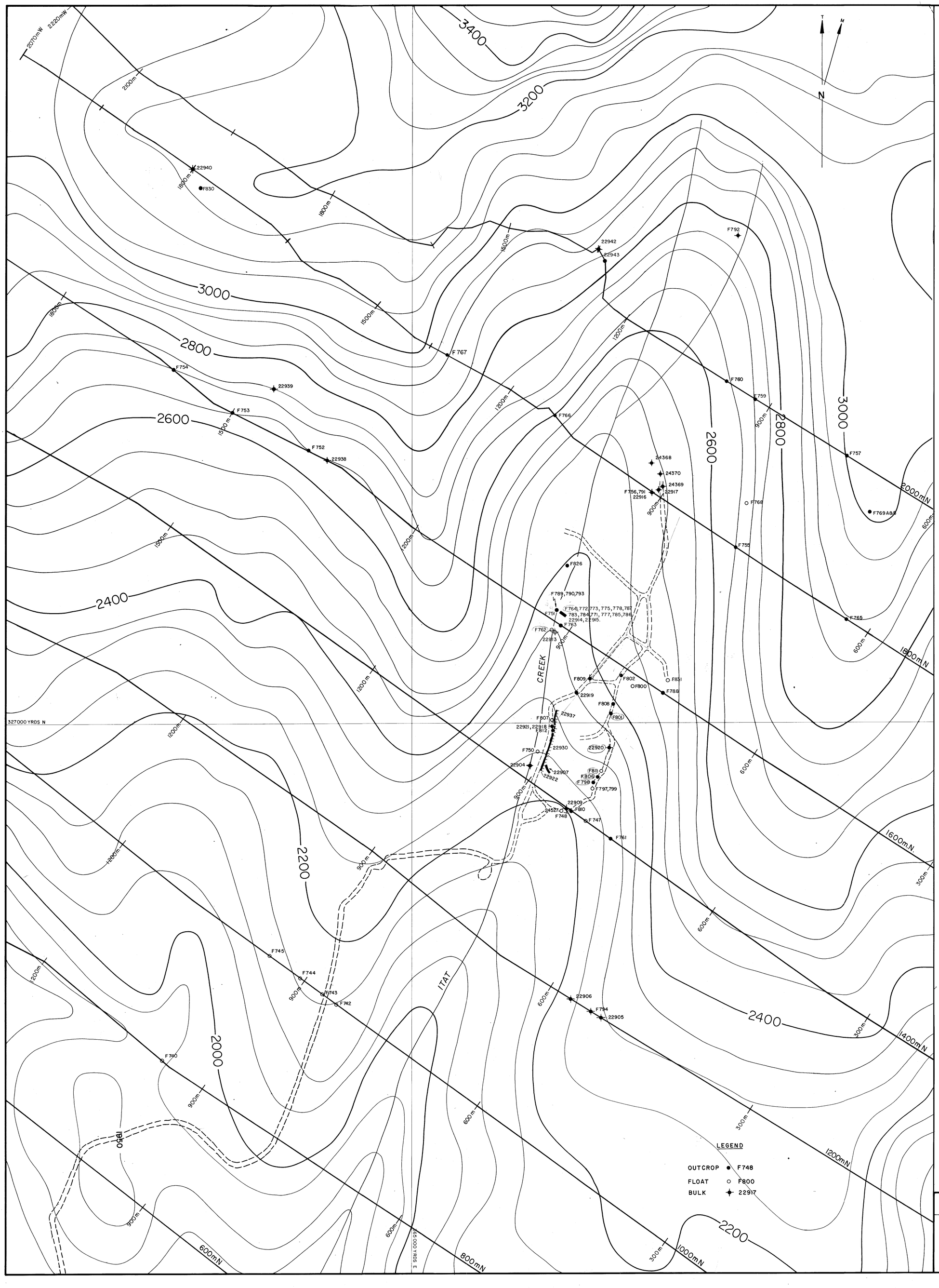
(A)=A horizon sample /Azonal soil

MT. LYELL - G.O.D.L. JOINT VENTURE	DRAWN: MH
	TRACED: HJ & P.R.
BEATRICE GRID	CHECKED:
MT. SEDGWICK ANOMALY ZONE	DATE: MAY 1979
SOIL GEOCHEMISTRY, -80 FRACTION	SCALE: 1: 2000
COPPER, LEAD & ZINC	C.I.: 50 feet
	10 / 305

5 cm

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

1:2000 BEATRICE GRID GEOCHEMISTRY ROCK ASSAYS



LEGEND

OUTCROP ● F748
FLOAT ○ F800
BULK ✦ 22917

Sample No.	Rock Type	Cu	Pb	Zn	Ag	Mn	S %	Au	Fe %
22904	Black Shale	132	2300	3000	9	790			
22905	Seric. Felsic Volc.	42	530	180	<1	3900			
F794	Seric. Felsic Volc.	150	40	85	<1	145			
22906	Seric. Felsic Volc.	55	560	285	<1	2180			
F761	Alt. Tuff	135	410	490	<1	8400			
F747	Seric. Vitric Tuff (Float)	155	740	4350	1	1910	0·4		
F748	Alt. Tuff	268	460	1230	2	370	0·4		
22908	Alt. Tuff (3m Channel)	260	450	1000	2	750	0·2		
22907	Felsic Volc. (20m Channel)	65	300	170	<1	920			
F750	Felsic Volc.	50	2570	2220	3	5100	0·5		
22913	Shale fragments	60	700	285	1	1100			
F762	Shale (Float)	620	3%	4200	57	700	2·7	0·6	
F763	Alt. Tuff (Float)	45	530	510	1	3300			
F751	Shale - sheared	350	5200	6800	20	1250	2·9		
F764	Alt. Tuff.	95	1400	3900	2	2700	1·8	<0·1	
F772	Alt. Tuff.	540	700	3·1%	3	470	3·1		
F773	Alt. Tuff.	175	580	0·4%	3	620	4·5		
F775	Alt. Tuff.	115	580	0·65%	1	890	1·8		
F778	Alt. Tuff.	320	560	2·0%	4	550	5·4		
F783	Alt. Tuff.	420	2850	2·9%	6	9700	3·4		
F784	Alt. Tuff	260	750	1·2%	3	1240	5·1		
22914	Bulk trench sample	400	1250	2·85%	5	2850	4·4		
22915	Bulk trench sample	330	840	2·2%	3	1040	2·7		
F755	Alt. Tuff.	95	200	740	2	2100	1·6		
F756	Shales	165	570	560	<1	2500			
22916	Surface Mn.	165	2000	4300	2	18%			
F759	Alt. Tuff with Fe - Ox	85	125	145	<1	65			
F760	Shale	136	1000	160	4	300	1·5		
F788	Fg. Volc.	90	480	230	<1	1300			
F771	Alt. Tuff and Shale	325	565	1·37%	2	290	2·8		
F777	Alt. Tuff and Shale	135	865	2450	2	1130	3·2		
F785	Alt. Tuff and Shale	770	1850	9·0%	7	640	6·4		
F786	Alt. Tuff and Shale	490	1380	1·88%	4	650	3·9		
F787	Alt. Tuff and Shale	155	820	0·66%	2	350	2·2		
F785	Shale	940	3·19%	3·55%	33	340	3·7		
F780	Shale	660	1·82%	2·10%	62	1800	1·8		
F793	Shale	530	1·02%	1·38%	51	1000	1·4		
F791	Shale	35	1260	1090	3	790	1·2		
F792	Shale	105	210	310	3	440	0·1		
22917	Py. Shale	90	550	240	<1	1300	2·5		
F797	Py. Shale	340	1·2%	1·47%	11	820	6·2		
F789	Fg. Tuff	35	1700	3000	2	7200	0·6		
F800	Alt. Tuff	40	100	830	1	720	0·3		
F802	Alt. Vitric Tuff	50	1700	1400	2	680	0·4		
F798	Alt. Vitric Tuff	120	5500	5400	5	480	1·1	<0·1	
F801	Alt. Vitric Tuff	350	1·46%	3·14%	8	2500	2·3	0·9	
F808	Tuff	130	1100	1500	<1	7600	0·2		
22921	Shale	200	5300	1·2%	4	500	1·9		
22918	Shale and Tuff	120	2300	4600	<1	2000	0·3		
22919	Shale	120	2500	7500	2	700	0·5		
F809	Tuff	360	6600	1·6%	4	800	2·0		
F807	Tuff	140	3000	1·15%	2	4000	1·2		
F810	Tuff	330	1·5%	3·10%	6	1400	2·1		
F812	Tuff	560	3800	3200	2	1300	0·4		
F801b	Tuff	130	2·1%	6600	8	5000	1·2		
F801d	Tuff	110	2800	3·5%	2	700	2·0		
F801f	Tuff	90	1800	4·0%	1	400	2·8		
F801c	Tuff	1600	2·6%	4·4%	6	1100	4·0		
F806	Tuff	250	4·1%	2·25%	10	800	2·1	0·8	
F811	Tuff	460	3·15%	3·4%	10	1000	2·6	0·7	
F801	Tuff	210	57%	1·85%	12	2700	1·8	0·5	
22920	Tuff	350	1·6%	2·95%	8	1100	2·2	0·4	
F768	Fe-Mn Oxide concretion	180	1700	1600		3%			28·0
24527	Mn WAD	85	5600	1650		7·5%			12·0
F830	Porphyry	80	20	65		280			1·3
F742	"	270	30	140		550			1·8
F745	"	320	270	410		840			3·0
F753	"	150	20	80		400			1·15
F740	"	110	60	280		350			2·0
F754	"	90	30	135		260			1·6
F765	"	95	40	45		150			1·2
F831	Fg. Tuff/Shale	210	2600	3%	2	3400			
F769A	Porphyry	50	20	10		30			0·2
F769B	"	70	30	15		300			0·75
F752	"	55	20	80		240			1·0
F757	"	35	10	15		30			0·3
F744	"	50	40	55		500			0·85
F743	"	60	20	100		400			0·85
F766	"	50	90	70		410			0·7
F767	"	50	20	65		370			1·0
22938	"	40	30	40		50			0·5
22939	"	25	30	25		110			1·0
22940	"	30	30	45		140			1·25
F826	"	25	140	115		1450			1·35
22941	" (MSI 328·7 metres)	370	40	50		650			1·4
24368	Black shales	45	670	150	2	1·9%			
24369	Black shales	45	2600	6400	2	850			
24370	Black shales	55	630	560	<2	600			
22922	Lithic Tuff	110	920	3400	2	2700			
22923	" "	120	450	1300	2	2500			
22924	" "	50	3200	8000	3	3200			
22925	" "	30	2500	3600	2	3500			
22926	" "	35	2500	6300	4	3800			
22927	Charty Tuff and Shale	30	1600	2150	4	2000			
22928	Lithic-Vitric Tuff	65	430	450	1	2400			
22929	" " "	80	950	2800	2	2000			
22930	F.G. Tuff	110	1100	720	2	2600			
22931	F.G. Tuff and Shale	35	1350	2300	3	7200			
22932	" " " "	80	5300	6500	6	1000			
22933	" " " "	45	1950	2600	4	2900			
22934	Vitric-Lithic Tuff	45	3350	5600	6	1500			
22935	Vitric Tuff and Shale	90	6300	5700	9	4800			
22936	Lithic-Vitric and Tuff	70	3060	2700	6	4400			
22937	" " " "	40	730	570	3	460			
22942	Black Shale	300	2050	8500	<2	40			1·33
22943	Travertine	280	1200	2200		<10			6·0

ANG COORDINATES

FIG. 36

MT. LYELL - G.O.D.L. JOINT VENTURE

BEATRICE GRID
MT. SEDGWICK ANOMALY ZONE
ROCK CHIP ASSAYS

DRAWN: MH
TRACED: HJ
CHECKED:
DATE: DEC 1978
SCALE: 1: 2000
C.I.: 50 feet

10/303

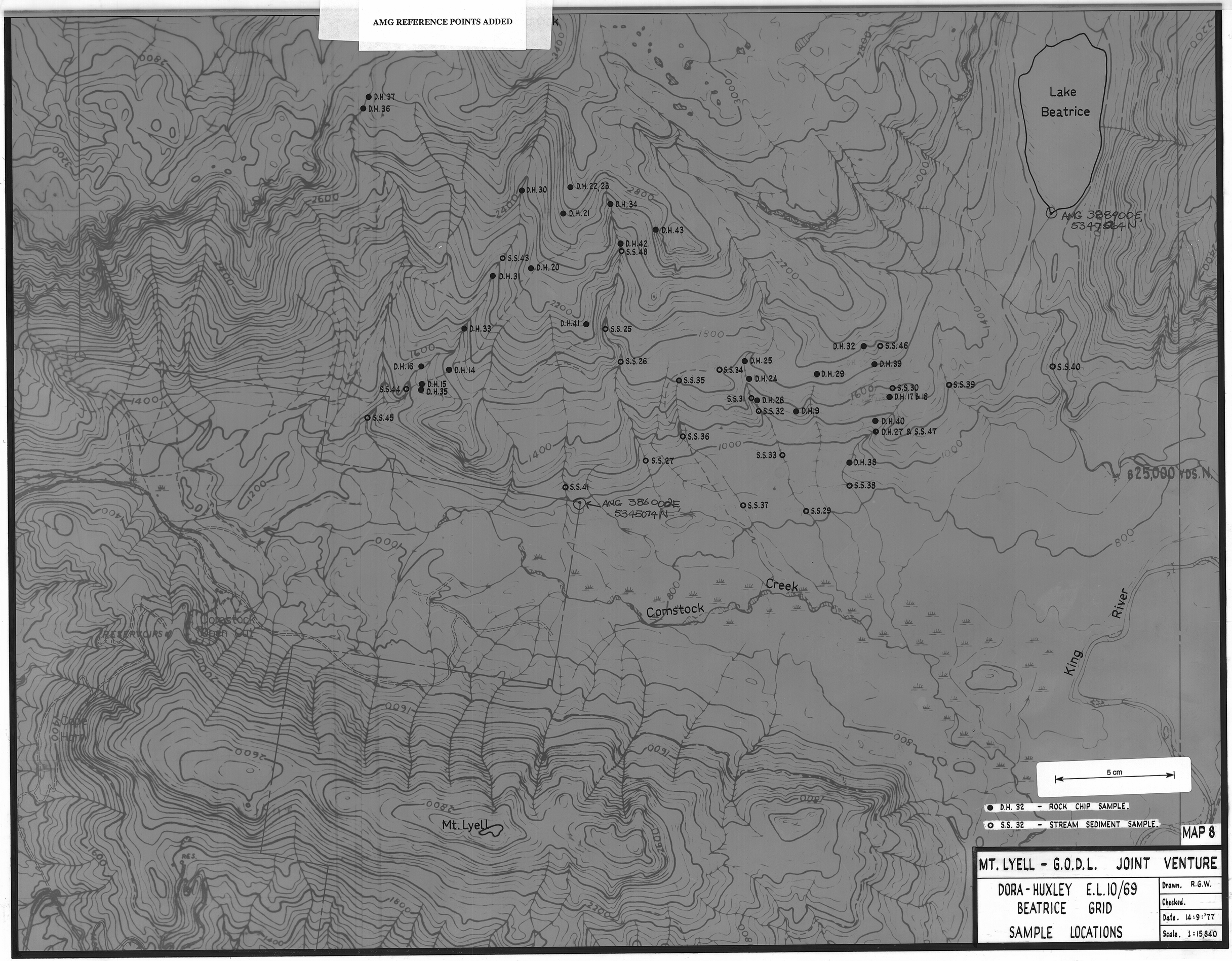
5 cm

BEATRICE — COMSTOCK

GEOCHEMISTRY SAMPLE LOCATIONS

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

AMG REFERENCE POINTS ADDED



MAP 8

MT. LYELL - G.O.D.L. JOINT VENTURE

DORA - HUXLEY E.L. 10/69
BEATRICE GRID
SAMPLE LOCATIONS

Drawn. R.G.W.
Checked.
Date. 14:9:'77
Scale. 1:15,840

BEATRICE GRID
GEOCHEMISTRY
SOIL RESULTS
- Cu -

SOIL GEOCHEMISTRY BLOCK AVERAGES

Contour Intervals

ppm 10 40 80 -80#

STREAM SEDIMENTS _ ppm _ -80#

100 200 400

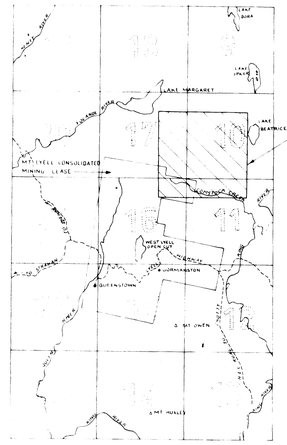
1:6,000

T M

N

ANG COORDINATES

LOCATION



5 cm

THE MOUNT LYELL M. & R. COY. LTD. GEOLOGICAL DEPARTMENT	DRAWN M.HUTTON TRACED CHECKED DATE SCALE 1:6000
E.L. 9/66. BEATRICE GRID SOIL & STREAM SEDIMENT GEOCHEMISTRY - Cu	10/308 FIG: 51

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

MT. SEDGWICK
1147m

SOIL GEOCHEMISTRY BLOCK AVERAGES

Contour Intervals

ppm 10 40 80 -80#

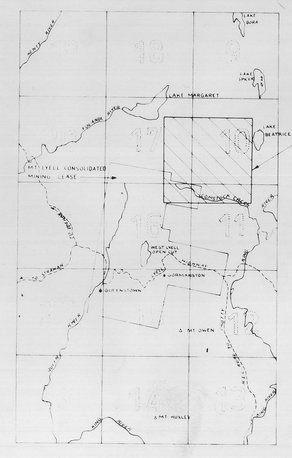
STREAM SEDIMENTS _ ppm _ -80#

100 200 400

ANG COORDINATES

N

LOCATION



THE MOUNT LYELL M. & R. COY. LTD GEOLOGICAL DEPARTMENT	DRAWN M. HUTTON TRACED CHECKED DATE SCALE 1:6000
E.L. 9/66. BEATRICE GRID SOIL & STREAM SEDIMENT GEOCHEMISTRY - Zn	10/309 FIG: 53

5 cm

1:6,000

BEATRICE GRID
GEOCHEMISTRY
SOIL RESULTS
- Zn -

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

BEATRICE GRID
GEOCHEMISTRY SOIL RESULTS - Pb -

1:6,000

SOIL GEOCHEMISTRY BLOCK AVERAGES

Contour Intervals

ppm 10 40 80 -80#

STREAM SEDIMENTS _ ppm _ -80#

100 200 400

ANG COORDINATES

MT. SEDGWICK 1147m

PORPHYRY CREEK

COMSTOCK CREEK

826,000 FEET N.

825,000 FEET N.

824,000 FEET N.

376,000 FEET N.

365,000 FEET E.

366,000 FEET E.

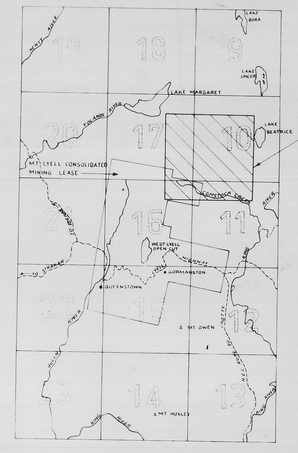
367,000 FEET E.

368,000 FEET E.

T M

N

LOCATION



THE MOUNT LYELL M. & R. COY. LTD. GEOLOGICAL DEPARTMENT	DRAWN M HUTTON
	TRACED
	CHECKED
	DATE
E.L. 9/66. BEATRICE GRID SOIL & STREAM SEDIMENT GEOCHEMISTRY - Pb	SCALE 1:6000
	MAP NUMBER: 10/307
	FIG. 52

5 cm

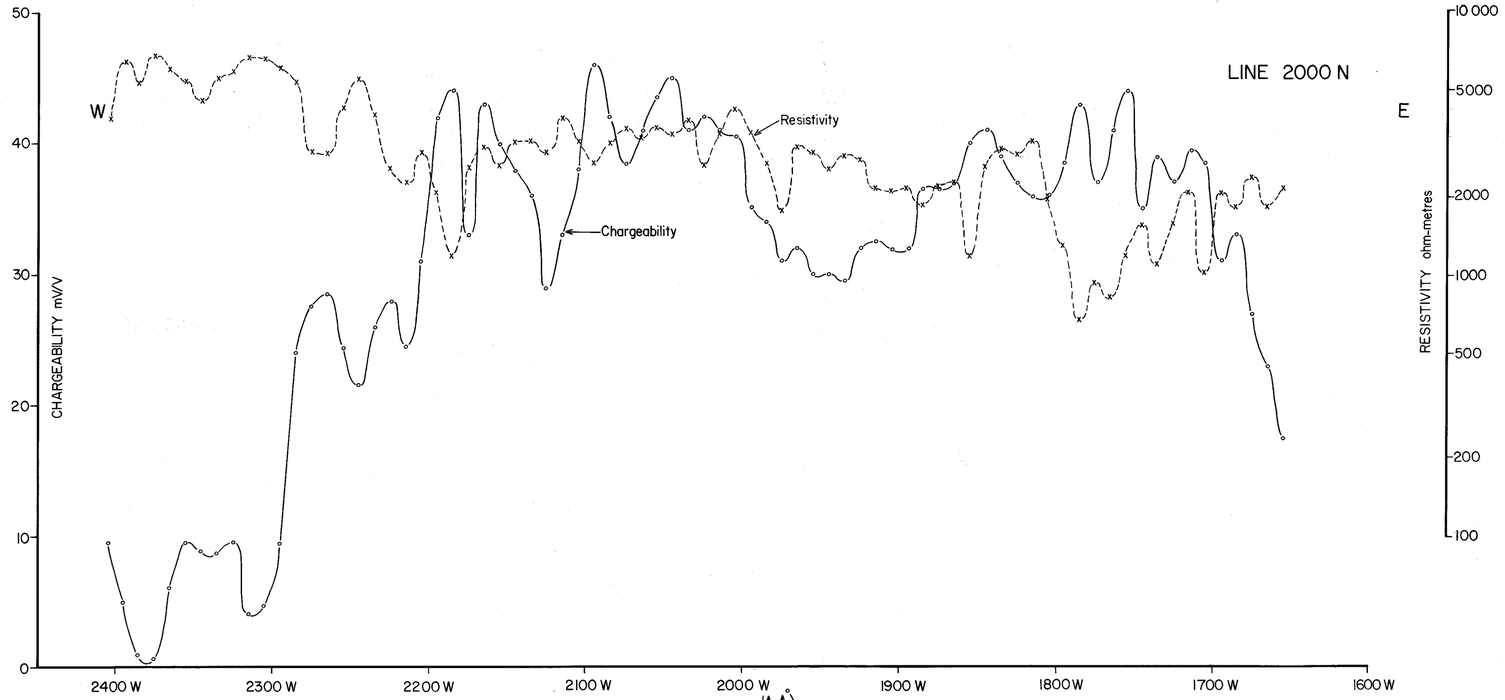
TCR 94-3581
TENDALL PROJECT
EL 9/66 10/69 14/71 41/71

GRADIENT I.P.
LINES
1800N + 2000N

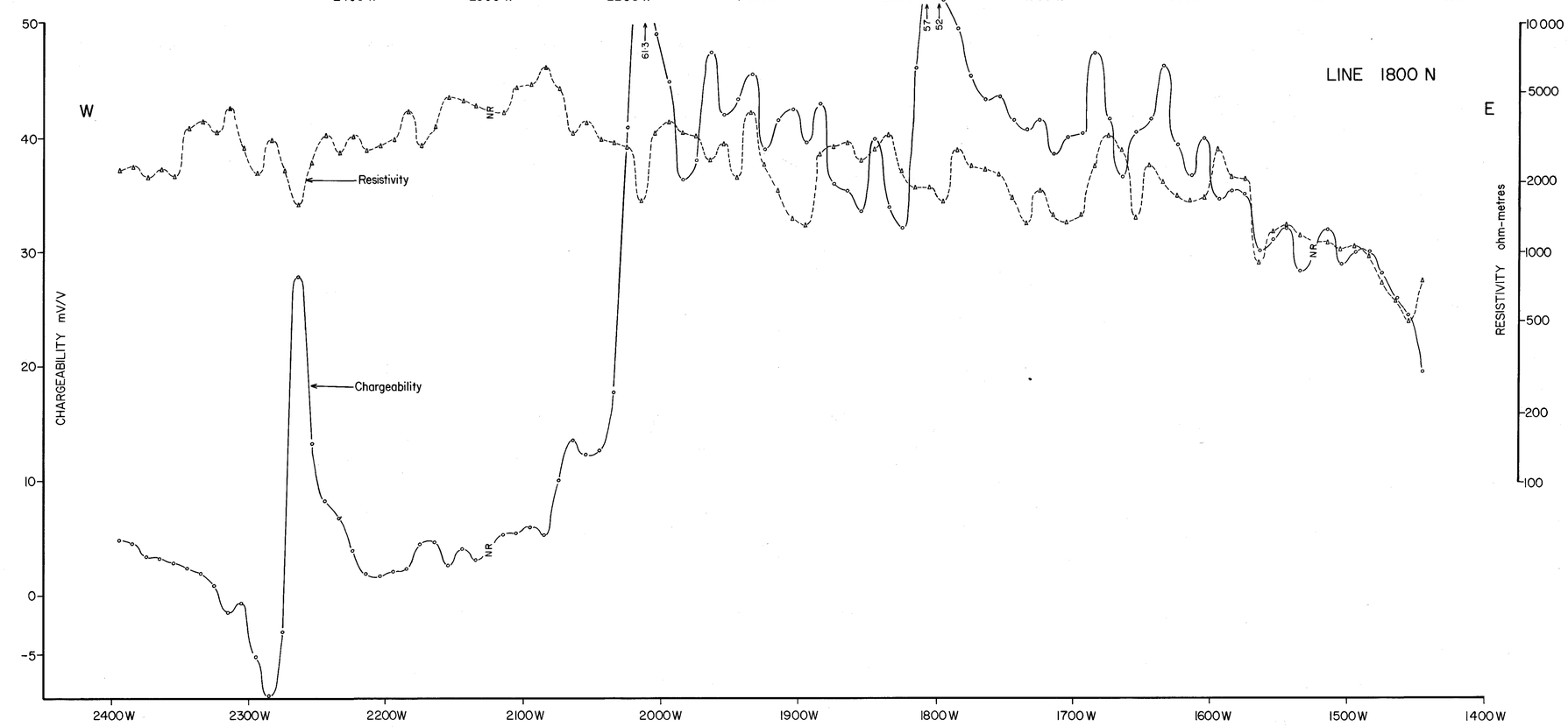
BEATRICE GRID
1
TY

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

LINE 2000 N



LINE 1800 N



Chargeability scale
10 cm = 30 mV/V

Resistivity scale
6·67 cm = 1 log cycle

Current electrode positions
C_1 at 1800N / 2700W
C_2 at 1800N / 900 W

Potential dipole spacing
$P_1 - P_2$ = 10 m

Station interval = 10 m

Transmission cycle = 4 sec

Chargeability recorded on one slice of Scintrex IPR-8 receiver

5 cm

MT LYELL–G.O.D.L. JOINT VENTURE

BEATRICE GRID
DETAILED GRADIENT ARRAY
LINE PROFILES 1800N & 2000N

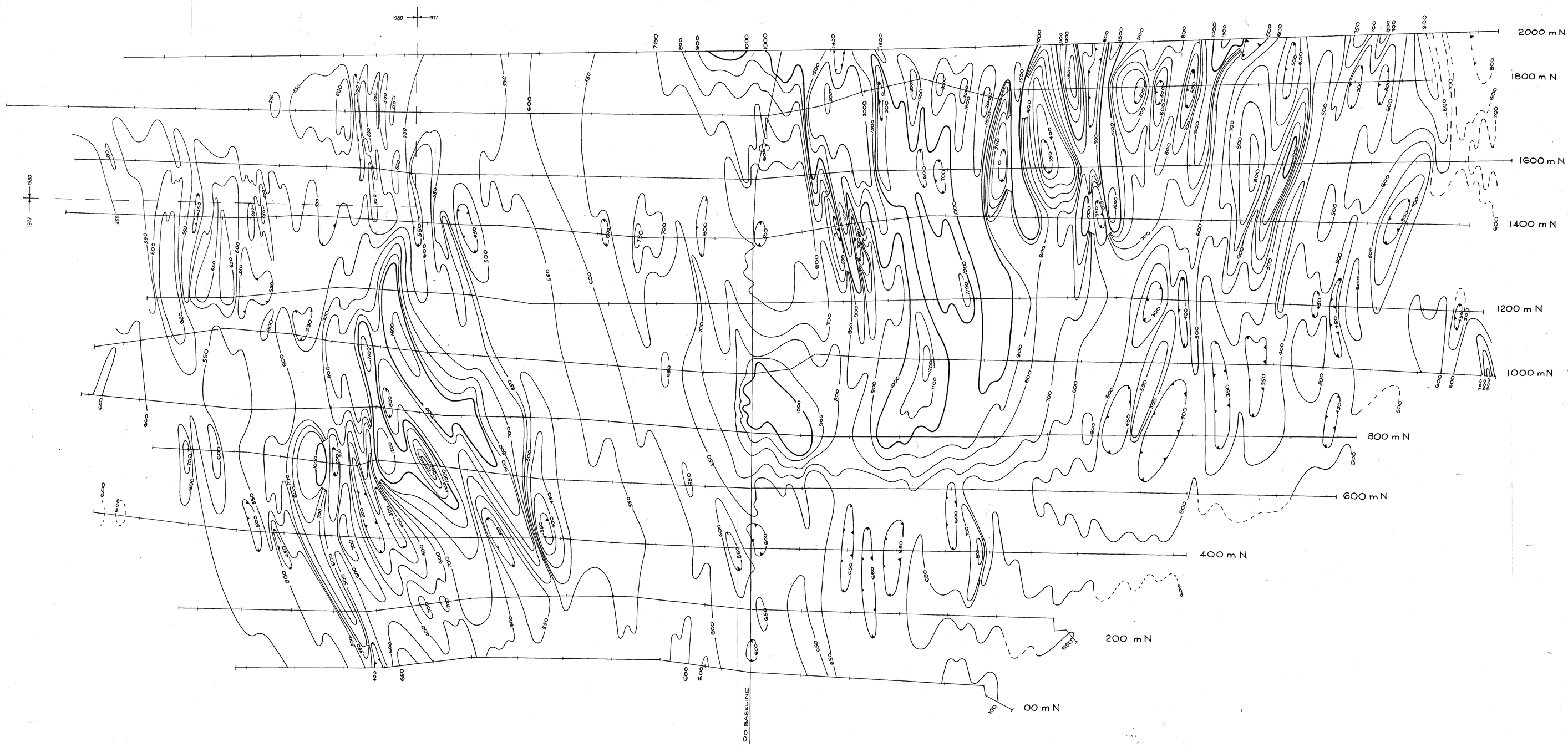
SCALE: 1:2500	DRAWN: M.HUTTON	FIG: 57
DATE: 13-8-80	DRAFTSMAN: P.RIMMER	A2-57

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

BEATRICE GRID

GEOPHYSICS MAGNETICS

1977



NOTE: For correct total magnetic field, add 62000 gammas to all values.

MOUNT LYELL MINING & RAILWAY COMPANY LTD.

BEATRICE GRID

(NR.) QUEENSTOWN - WEST COAST TASMANIA

TOTAL FIELD MAGNETOMETER SURVEY

CONTOUR PLAN

5 cm

SURVEYED & COMPILED BY
SCINTREX PTY. LTD.

FEBRUARY 1977

240 180 120 90 60 30 00 120 240 (metres)

JOB Nº TAS-035-D
-073-C

Sheet 1 of 1

PLATE 4.

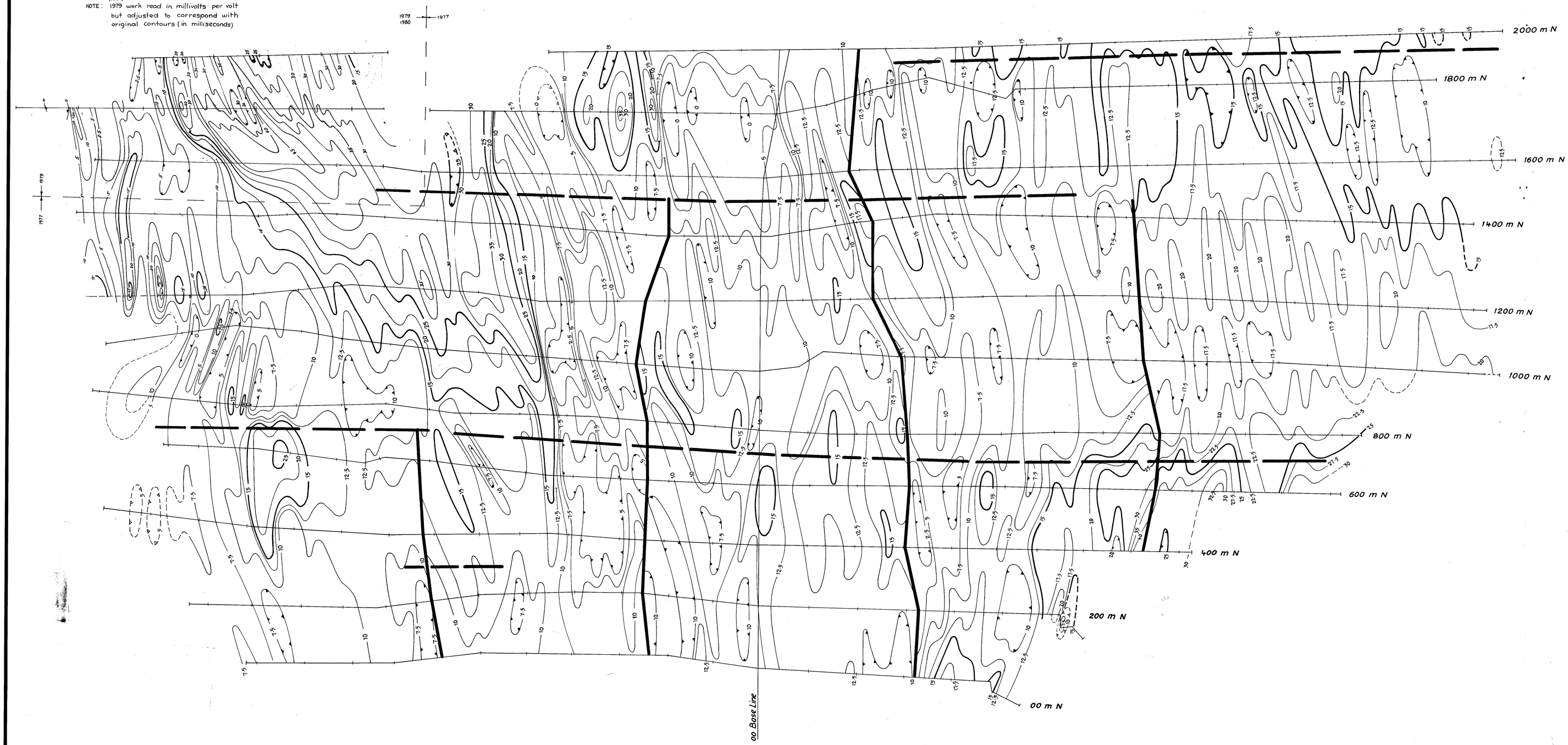
TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

BEATRICE GRID

GEOPHYSICS CHARGEABILITY

1979

NOTE: (1980) 1979 work read in millivolts per volt but adjusted to correspond with original contours (in milliseconds)



LEGEND

Chargeability contours in milliseconds

Gradient block boundary

MOUNT LYELL MINING & RAILWAY COMPANY LTD.

BEATRICE GRID

(NR.) QUEENSTOWN - WEST COAST TASMANIA

ELECTRICAL INDUCED POLARIZATION SURVEY
GRADIENT ARRAY
CHARGEABILITY CONTOUR PLAN

5 cm

SURVEYED & COMPILED BY
SCINTREX PTY., LTD.

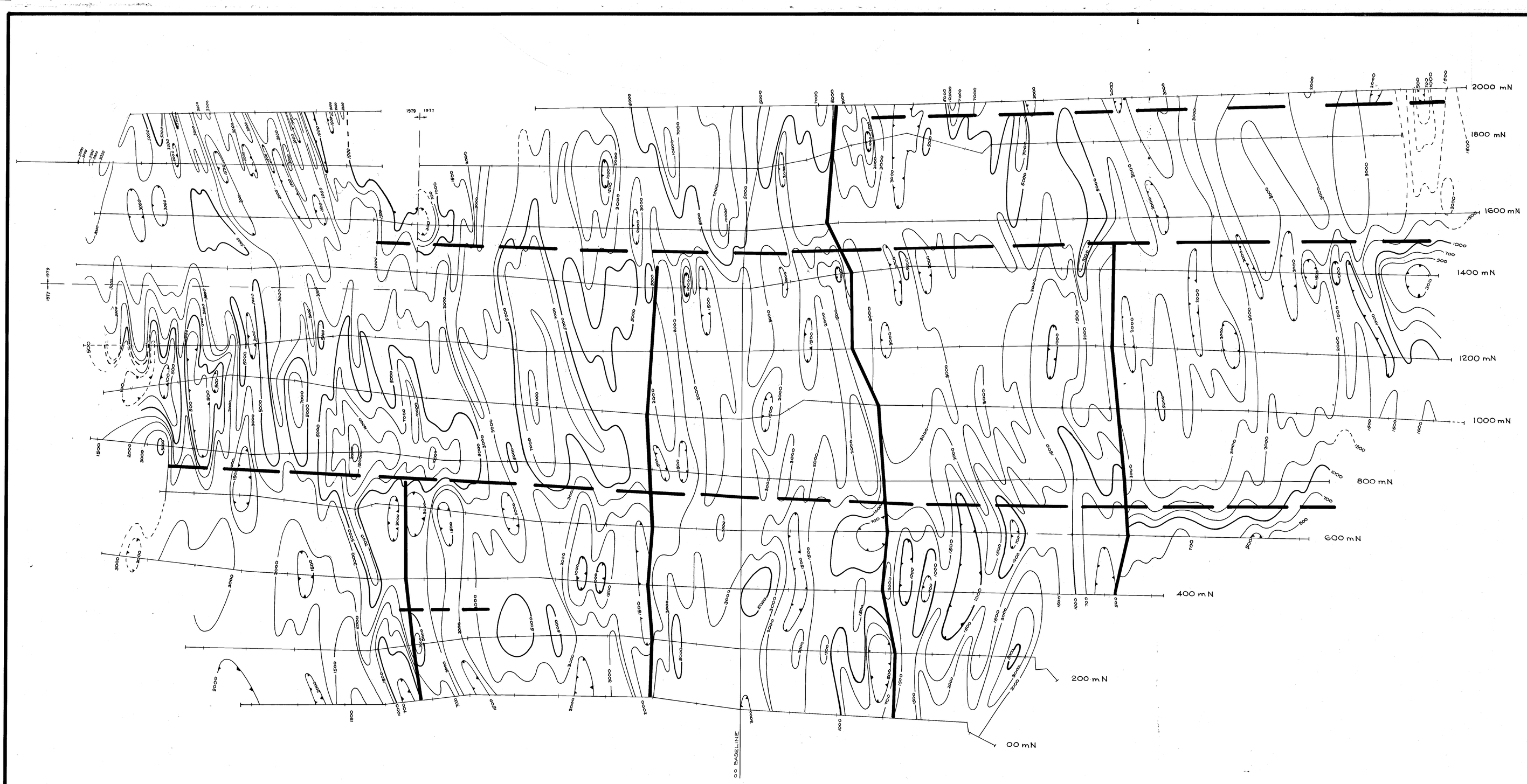
FEBRUARY 1977
Revised APRIL 1979

240 180 120 90 60 30 00 120 240 (metres)

JOB Nº TAS-035-D. -062-A -073-C Sheet 1 of 1 PLATE FIG 38

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

BEATRICE GRID GEOPHYSICS RESISTNITY 1979



LEGEND :

Resistivity contours in ohm-metres

Gradient block boundary

MOUNT LYELL MINING & RAILWAY COMPANY LTD.

BEATRICE GRID

(NR.) QUEENSTOWN - WEST COAST TASMANIA

ELECTRICAL INDUCED POLARIZATION SURVEY
GRADIENT ARRAY
RESISTIVITY CONTOUR PLAN

5 cm

SURVEYED & COMPILED BY
SCINTREX PTY., LTD.

FEBRUARY 1977
Revised APRIL 1979

240 180 120 90 60 30 00 120 240 (metres)

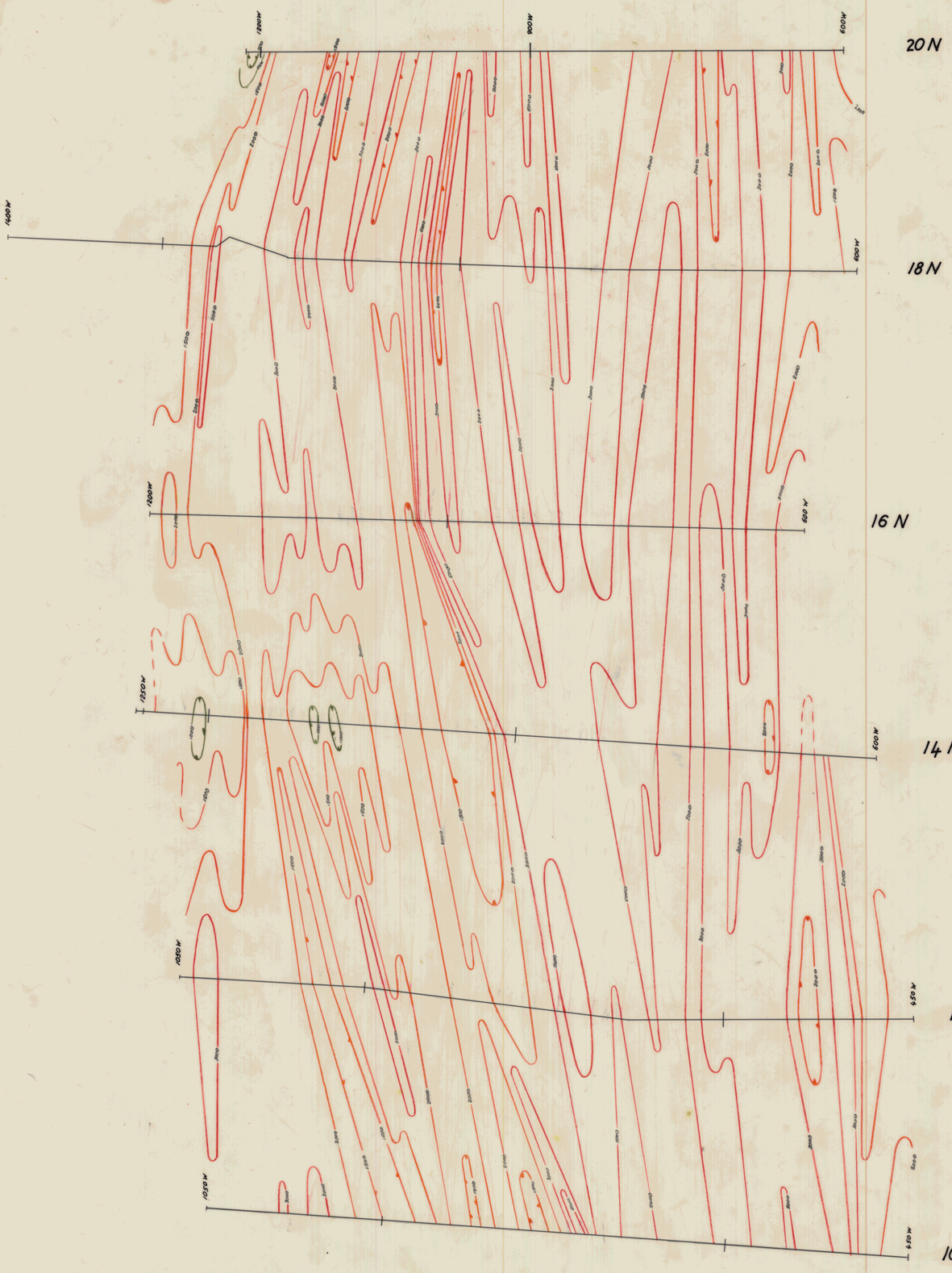
JOB Nº TAS-035-D Sheet 1 of 1 PLATE
-062-A
-073-C

BEATRICE GRID

GEOPHYSICS
RESISTIVITY

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

1:2000



MOUNT LYELL MINING RAILWAY COMPANY

BEATRICE GRID
QUEENSTOWN - WEST COAST - TAS

GRADIENT ARRAY E.I.P. DETAIL
RESISTIVITY CONTOUR PLAN

SURVEYED & COMPILED BY
SCINTREX
DECEMBER 1978

SCALE 1:2000
NOTE ENLARGED SCALE

JOB Nº TAS-062

SHT 1 of 1

PLATE 2.

Revised 23-2-79

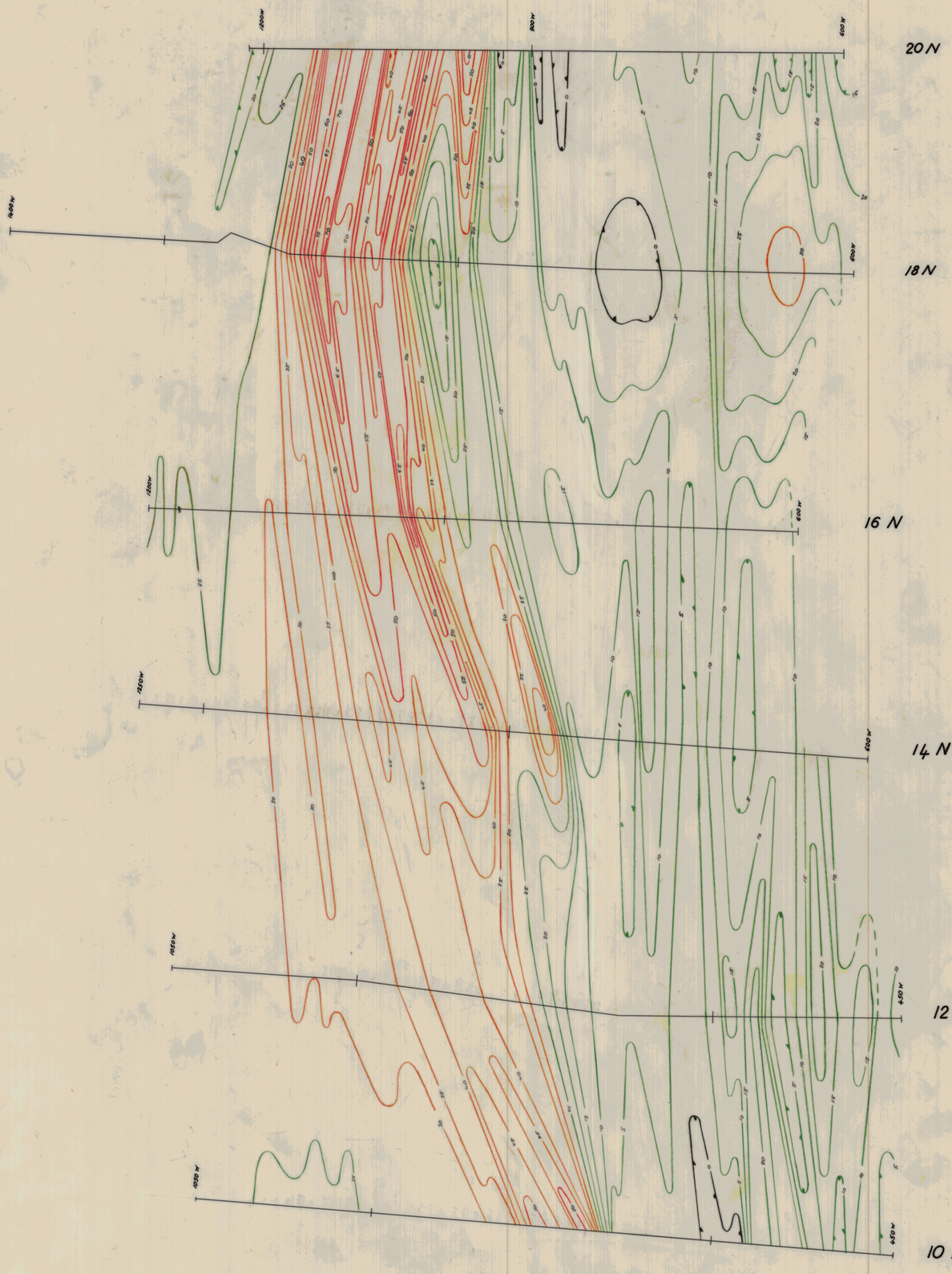
5 cm

BEATRICE GRID

GEOPHYSICS

CHARGEABILITY

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71
1:2000
24



MOUNT LYELL MINING & RAILWAY COMPANY

BEATRICE GRID

QUEENSTOWN - WEST COAST - TAS.

GRADIENT ARRAY EIP DETAIL
CHARGEABILITY CONTOUR PLAN

SURVEYED & COMPILED BY

SCINTREX

DECEMBER 1978

SCALE 1:2000

NOTE ENLARGED SCALE

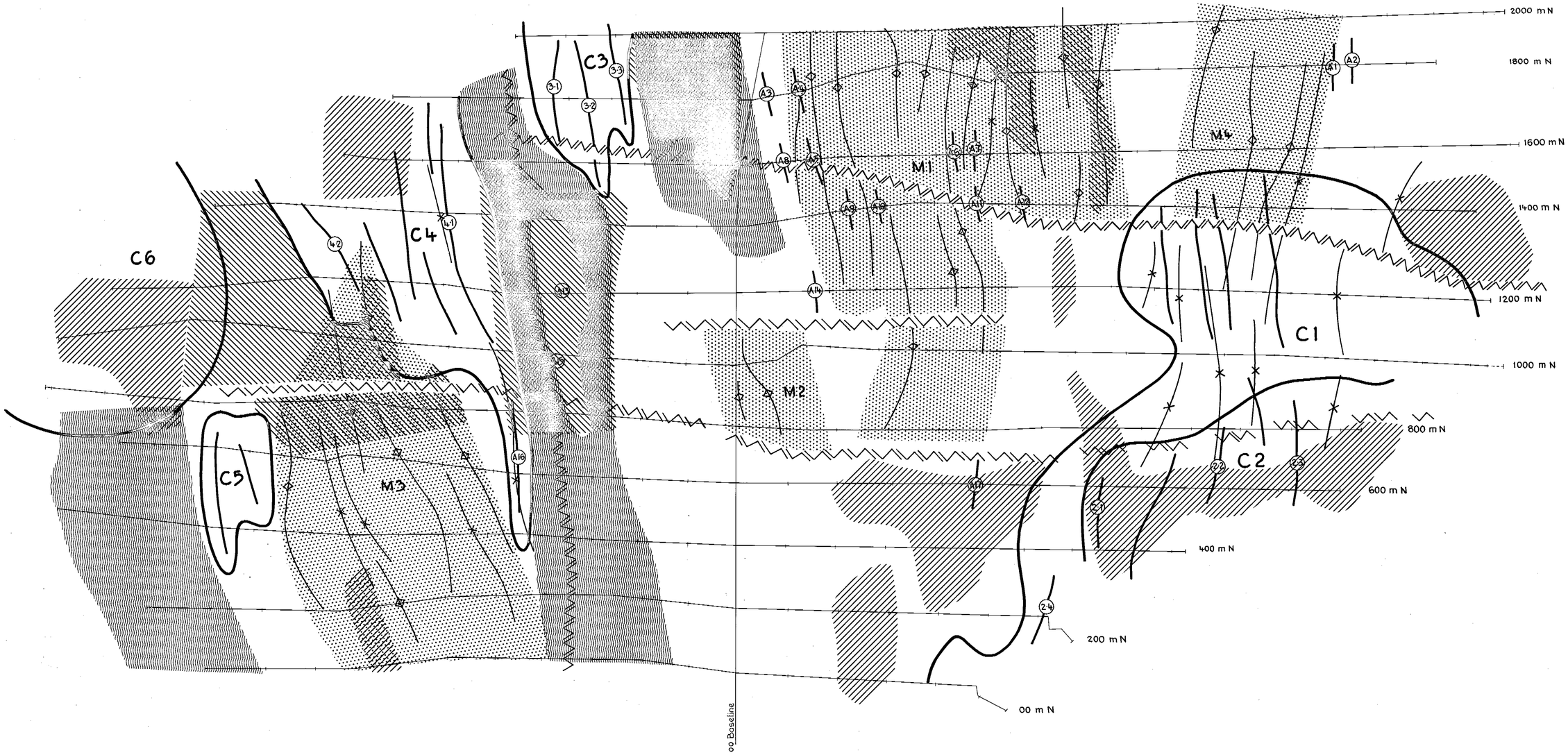
JOB Nº TAS-062

SHT 1 of 1 PLATE 1,

Revised 23-2-79

5 cm

10/



LEGEND

- Areas of low resistivity
- Areas of high resistivity
- C — Areas of high chargeability background
- Areas of abnormaly low chargeability
- M — Areas of high magnetic background
- Induced polarization responses
- Magnetic lows
- Magnetic highs
- Possible faults

MOUNT LYELL MINING & RAILWAY COMPANY LTD.

BEATRICE GRID

(NR.) QUEENSTOWN - WEST COAST TASMANIA

ELECTRICAL INDUCED POLARIZATION SURVEY

INTERPRETATION PLAN

5 cm

SURVEYED & COMPILED BY
SCINTREX PTY., LTD.

FEBRUARY 1977

240 180 120 90 60 30 00 120 240 (metres)

MAP 7

BEATRICE GRID
GEOPHYSICS
ANOMALY CORRELATION

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

BEATRICE GRID ANOMALY COMPILATION

1:6000

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

ANG COORDINATES

LEGEND

SOIL GEOCHEMISTRY

A Horizon	B, C Horizons	
x	x	Ag ≥ 2 ppm
o	●	Zn ≥ 100ppm
o	●	Pb ≥ 300ppm
o	●	Cu ≥ 100ppm

E.I.P. GEOPHYSICS – RECONNAISSANCE GRADIANT ARRAY

Chargeability /////////// >20 milliseconds

Resistivity \\\\\\\\\\ <1000 ohm-metres

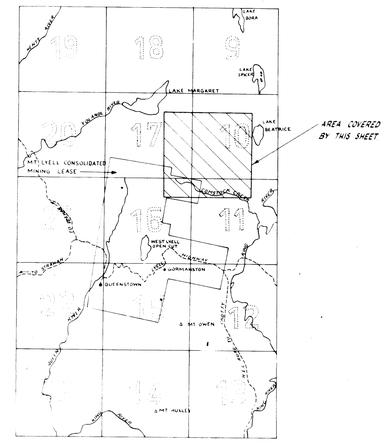
(LB20N/12I5W – 750W Detailed Gradient Array)

Major E.I.P. trends

Diamond Drill Holes

N

LOCATION



5 cm

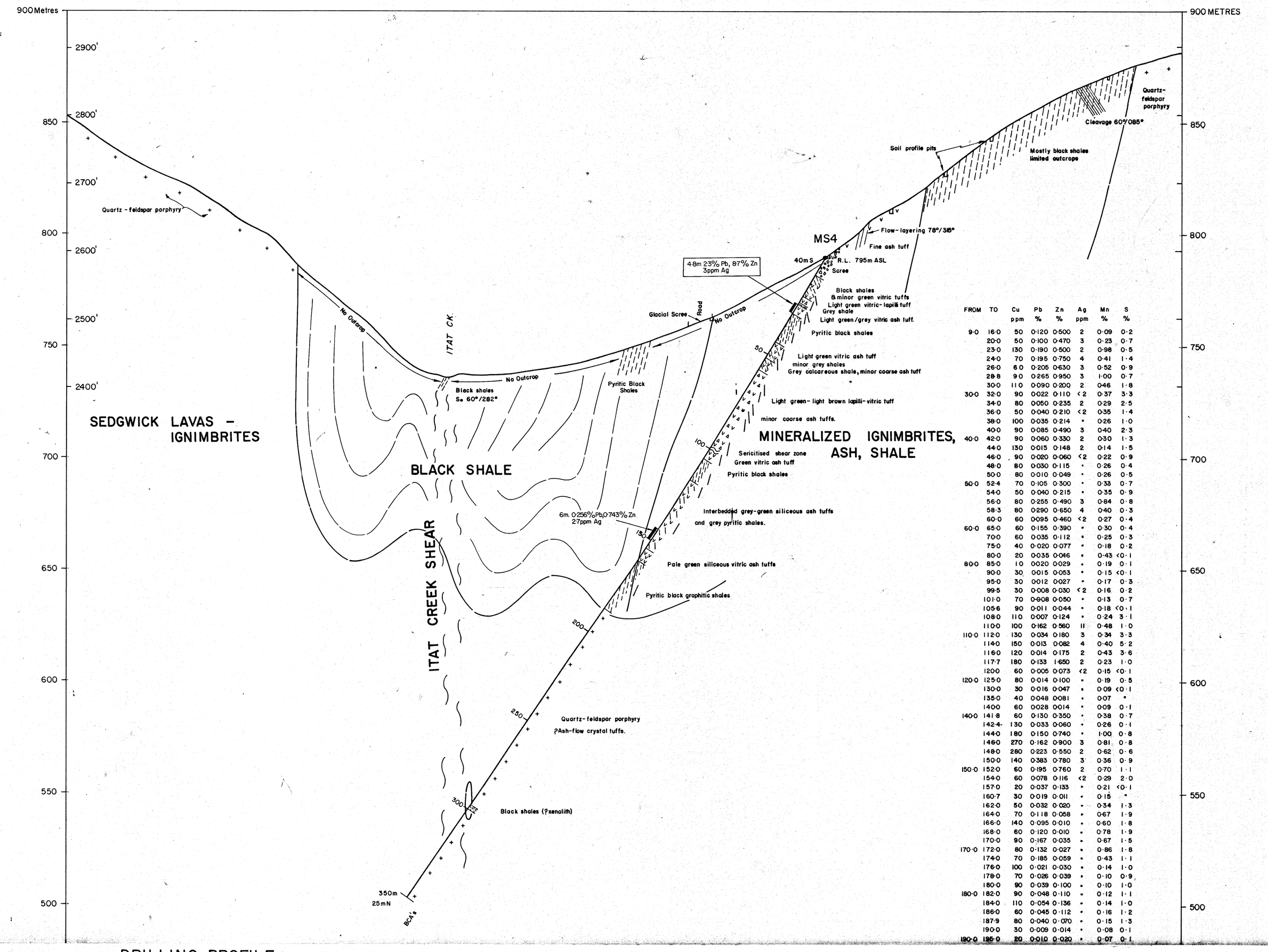
MT. LYELL – G.O.D.L. JOINT VENTURE.
GEOLOGICAL DEPARTMENT

E.L. 9/66.
BEATRICE GRID
ANOMALY COMPILATION

DRAWN	M.H.
TRACED	P.R.
CHECKED	
DATE	AUG' 79
SCALE	1 : 6000

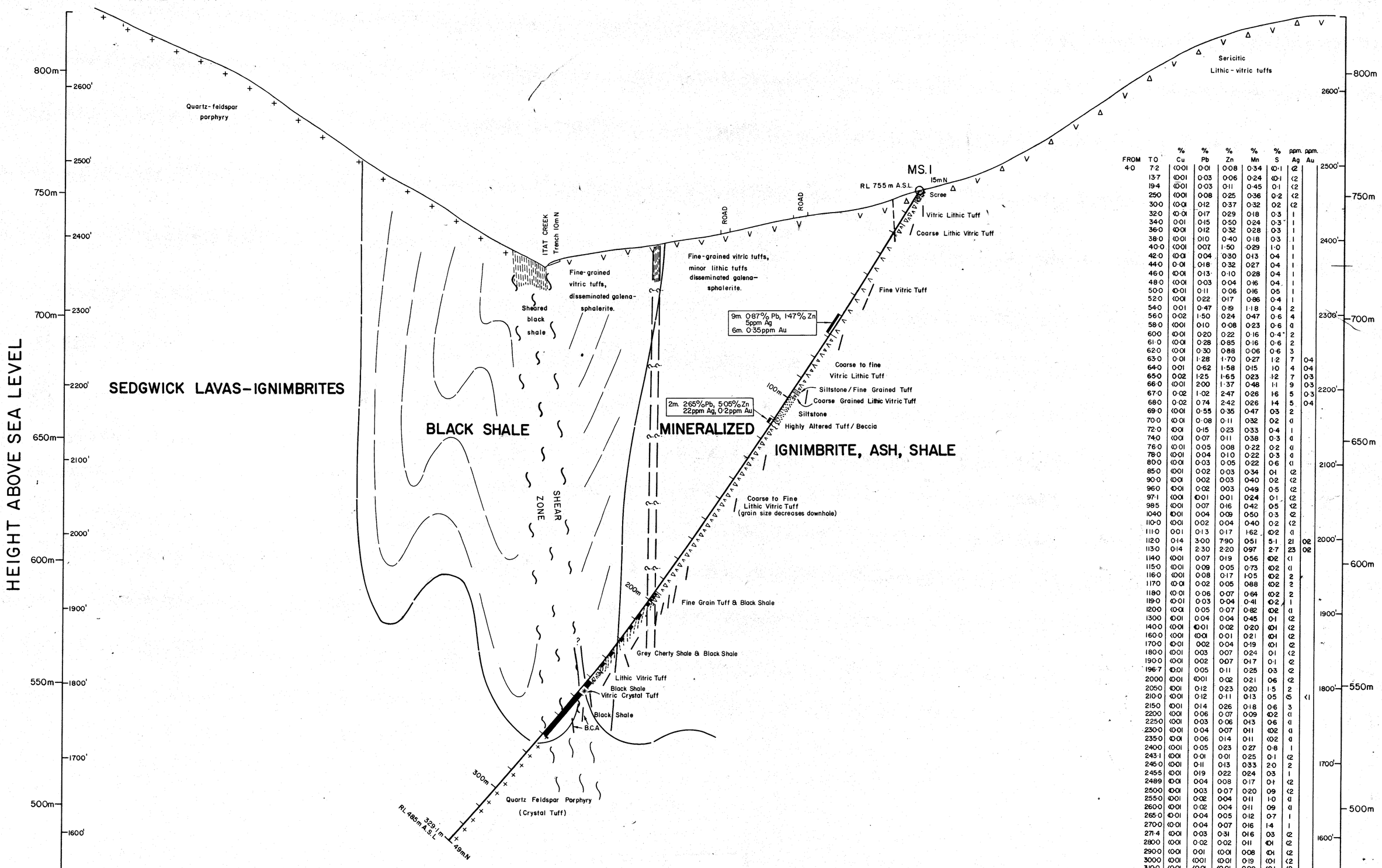
10/304

DRILLING PROFILE LINE 18N



FROM	TO	Cu ppm	Pb %	Zn %	Ag ppm	Mn %	S %
9·0	16·0	50	0·120	0·500	2	0·09	0·2
	20·0	50	0·100	0·470	3	0·23	0·7
	23·0	130	0·190	0·500	2	0·98	0·5
	24·0	70	0·195	0·750	4	0·41	1·4
	26·0	60	0·205	0·630	3	0·52	0·9
	28·8	90	0·265	0·950	3	1·00	0·7
	30·0	110	0·090	0·200	2	0·46	1·8
30·0	32·0	90	0·022	0·110	<2	0·37	3·3
	34·0	80	0·050	0·235	2	0·29	2·5
	36·0	50	0·040	0·210	<2	0·35	1·4
	38·0	100	0·035	0·214	"	0·26	1·0
	40·0	90	0·085	0·490	3	0·40	2·3
40·0	42·0	90	0·060	0·330	2	0·30	1·3
	44·0	130	0·015	0·148	2	0·14	1·5
	46·0	90	0·020	0·060	<2	0·22	0·9
	48·0	80	0·030	0·115	"	0·26	0·4
	50·0	80	0·010	0·049	"	0·26	0·5
50·0	52·4	70	0·105	0·300	"	0·33	0·7
	54·0	50	0·040	0·215	"	0·35	0·9
	56·0	80	0·255	0·490	3	0·84	0·8
	58·3	80	0·290	0·650	4	0·40	0·3
	60·0	60	0·095	0·460	<2	0·27	0·4
60·0	65·0	60	0·155	0·390	"	0·30	0·4
	70·0	60	0·035	0·112	"	0·25	0·3
	75·0	40	0·020	0·077	"	0·18	0·2
	80·0	20	0·035	0·046	"	0·43	<0·1
80·0	85·0	10	0·020	0·029	"	0·19	0·1
	90·0	30	0·015	0·053	"	0·15	<0·1
	95·0	30	0·012	0·027	"	0·17	0·3
	99·5	30	0·008	0·030	<2	0·16	0·2
	101·0	70	0·908	0·050	"	0·13	0·7
	105·6	90	0·011	0·044	"	0·18	<0·1
	108·0	110	0·007	0·124	"	0·24	3·1
	110·0	100	0·162	0·560	11	0·48	1·0
110·0	112·0	130	0·034	0·180	3	0·34	3·3
	114·0	150	0·013	0·082	4	0·40	5·2
	116·0	120	0·014	0·175	2	0·43	3·6
	117·7	180	0·133	1·650	2	0·23	1·0
	120·0	60	0·005	0·073	<2	0·15	<0·1
120·0	125·0	80	0·014	0·100	"	0·19	0·5
	130·0	30	0·016	0·047	"	0·09	<0·1
	135·0	40	0·048	0·081	"	0·07	"
	140·0	60	0·028	0·014	"	0·09	0·1
140·0	141·8	60	0·130	0·350	"	0·38	0·7
	142·4	130	0·033	0·060	"	0·26	0·1
	144·0	180	0·150	0·740	"	1·00	0·8
	146·0	270	0·162	0·900	3	0·81	0·8
	148·0	280	0·223	0·550	2	0·62	0·6
	150·0	140	0·383	0·780	3	0·36	0·9
150·0	152·0	60	0·195	0·760	2	0·70	1·1
	154·0	60	0·078	0·116	<2	0·29	2·0
	157·0	20	0·037	0·133	"	0·21	<0·1
	160·7	30	0·019	0·011	"	0·15	"
	162·0	50	0·032	0·020	"	0·34	1·3
	164·0	70	0·118	0·058	"	0·67	1·9
	166·0	140	0·095	0·010	"	0·60	1·8
	168·0	60	0·120	0·010	"	0·78	1·9
	170·0	90	0·167	0·035	"	0·67	1·5
170·0	172·0	80	0·132	0·027	"	0·86	1·8
	174·0	70	0·185	0·059	"	0·43	1·1
	176·0	100	0·021	0·030	"	0·14	1·0
	178·0	70	0·026	0·039	"	0·10	0·9
	180·0	90	0·039	0·100	"	0·10	1·0
180·0	182·0	90	0·048	0·110	"	0·12	1·1
	184·0	110	0·054	0·136	"	0·14	1·0
	186·0	60	0·045	0·112	"	0·16	1·2
	187·9	80	0·040	0·070	"	0·15	1·3
	190·0	30	0·009	0·014	"	0·08	0·1
190·0	195·0	20	0·010	0·020	"	0·07	0·1

DRILLING PROFILE LINE 16 N



FROM	TO	% Cu	% Pb	% Zn	% Mn	% S	ppm Ag	ppm Au
4·0	7·2	<0·01	0·01	0·08	0·34	<0·1	<2	
	13·7	<0·01	0·03	0·06	0·24	<0·1	<2	
	19·4	<0·01	0·03	0·11	0·45	0·1	<2	
	25·0	<0·01	0·08	0·25	0·36	0·2	<2	
	30·0	<0·01	0·12	0·37	0·32	0·2	<2	
	32·0	<0·01	0·17	0·29	0·18	0·3	1	
	34·0	0·01	0·15	0·50	0·24	0·3	1	
	36·0	<0·01	0·12	0·32	0·28	0·3	1	
	38·0	<0·01	0·10	0·40	0·18	0·3	1	
	40·0	<0·01	0·07	1·50	0·29	1·0	1	
	42·0	<0·01	0·04	0·30	0·13	0·4	1	
	44·0	0·01	0·18	0·32	0·27	0·4	1	
	46·0	<0·01	0·13	0·10	0·28	0·4	1	
	48·0	<0·01	0·03	0·04	0·16	0·4	1	
	50·0	<0·01	0·11	0·06	0·16	0·5	1	
	52·0	<0·01	0·22	0·17	0·86	0·4	1	
	54·0	0·01	0·47	0·19	1·18	0·4	2	
	56·0	0·02	1·50	0·24	0·47	0·6	4	
	58·0	<0·01	0·10	0·08	0·23	0·6	<1	
	60·0	<0·01	0·20	0·22	0·16	0·4	2	
	61·0	<0·01	0·28	0·85	0·16	0·6	2	
	62·0	<0·01	0·30	0·88	0·06	0·6	3	
	63·0	0·01	1·28	1·70	0·27	1·2	7	0·4
	64·0	0·01	0·62	1·58	0·15	1·0	4	0·4
	65·0	0·02	1·25	1·65	0·23	1·2	7	0·3
	66·0	<0·01	2·00	1·37	0·48	1·1	9	0·3
	67·0	0·02	1·02	2·47	0·26	1·6	5	0·3
	68·0	0·02	0·74	2·42	0·26	1·4	5	0·4
	69·0	<0·01	0·55	0·35	0·47	0·3	2	
	70·0	<0·01	0·08	0·11	0·32	0·2	<1	
	72·0	<0·01	0·15	0·23	0·33	0·4	1	
	74·0	<0·01	0·07	0·11	0·38	0·3	<1	
	76·0	<0·01	0·05	0·08	0·22	0·2	<1	
	78·0	<0·01	0·04	0·10	0·22	0·3	<1	
	80·0	<0·01	0·03	0·05	0·22	0·6	<1	
	85·0	<0·01	0·02	0·03	0·34	0·1	<2	
	90·0	<0·01	0·02	0·03	0·40	0·2	<2	
	96·0	<0·01	0·02	0·03	0·49	0·5	<2	
	97·1	<0·01	<0·01	0·01	0·24	0·1	<2	
	98·5	<0·01	0·07	0·16	0·42	0·5	<2	
	104·0	<0·01	0·04	0·09	0·50	0·3	<2	
	110·0	<0·01	0·02	0·04	0·40	0·2	<2	
	111·0	0·01	0·13	0·17	1·62	<0·2	<1	
	112·0	0·14	3·00	7·90	0·51	5·1	21	0·2
	113·0	0·14	2·30	2·20	0·97	2·7	23	0·2
	114·0	<0·01	0·07	0·19	0·56	<0·2	<1	
	115·0	<0·01	0·09	0·05	0·73	<0·2	<1	
	116·0	<0·01	0·08	0·17	1·05	<0·2	2	
	117·0	<0·01	0·02	0·05	0·88	<0·2	2	
	118·0	<0·01	0·06	0·07	0·64	<0·2	2	
	119·0	<0·01	0·03	0·04	0·41	<0·2	1	
	120·0	<0·01	0·05	0·07	0·82	<0·2	<1	
	130·0	<0·01	0·04	0·04	0·45	0·1	<2	
	140·0	<0·01	<0·01	0·02	0·20	<0·1	<2	
	160·0	<0·01	<0·01	0·01	0·21	<0·1	<2	
	170·0	<0·01	0·02	0·04	0·19	<0·1	<2	
	180·0	<0·01	0·03	0·07	0·24	0·1	<2	
	190·0	<0·01	0·02	0·07	0·17	0·1	<2	
	196·7	<0·01	0·05	0·11	0·25	0·3	<2	
	200·0	<0·01	<0·01	0·02	0·21	0·6	<2	
	205·0	<0·01	0·12	0·23	0·20	1·5	2	
	210·0	<0·01	0·12	0·11	0·13	0·5	<5	<1
	215·0	<0·01	0·14	0·26	0·18	0·6	3	
	220·0	<0·01	0·06	0·07	0·09	<0·2	<1	
	225·0	<0·01	0·03	0·06	0·13	0·6	<1	
	230·0	<0·01	0·04	0·07	0·11	<0·2	<1	
	235·0	<0·01	0·06	0·14	0·11	<0·2	<1	
	240·0	<0·01	0·05	0·23	0·27	0·8	1	
	243·1	<0·01	0·01	0·01	0·25	0·1	<2	
	245·0	<0·01	0·11	0·13	0·33	2·0	2	
	245·5	<0·01	0·19	0·22	0·24	0·3	1	
	248·9	<0·01	0·04	0·08	0·17	0·1	<2	
	250·0	<0·01	0·03	0·07	0·20	0·9	<2	
	255·0	<0·01	0·02	0·04	0·11	1·0	<1	
	260·0	<0·01	0·02	0·04	0·11	0·9	<1	
	265·0	<0·01	0·04	0·05	0·12	0·7	1	
	270·0	<0·01	0·04	0·07	0·16	1·4	1	
	271·4	<0·01	0·03	0·31	0·16	0·3	<2	
	280·0	<0·01	0·02	0·02	0·11	<0·1	<2	
	290·0	<0·01	0·01	<0·01	0·08	<0·1	<2	
	300·0	<0·01	<0·01	<0·01	0·19	<0·1	<2	
	310·0	<0·01	<0·01	<0·01	0·09	<0·1	<2	
	320·0	<0·01	<0·01	0·01	0·10	<0·1	<2	
	329·1	<0·01	0·03	0·02	0·11	<0·1	<2	

5 cm

GOLD FIELDS EXPLORATION PTY. LIMITED

E.L. 9/66

BEATRICE GRID

ITAT CREEK

INTERPRETATION A

DRAWN BY : R.P.

DRAFTSMAN: T.G.D.S.

DATE : June 1983

REVISIONS :

FILE NO.

SCALE 1:1000 — 20 10 0 10 20 30 40 METRES

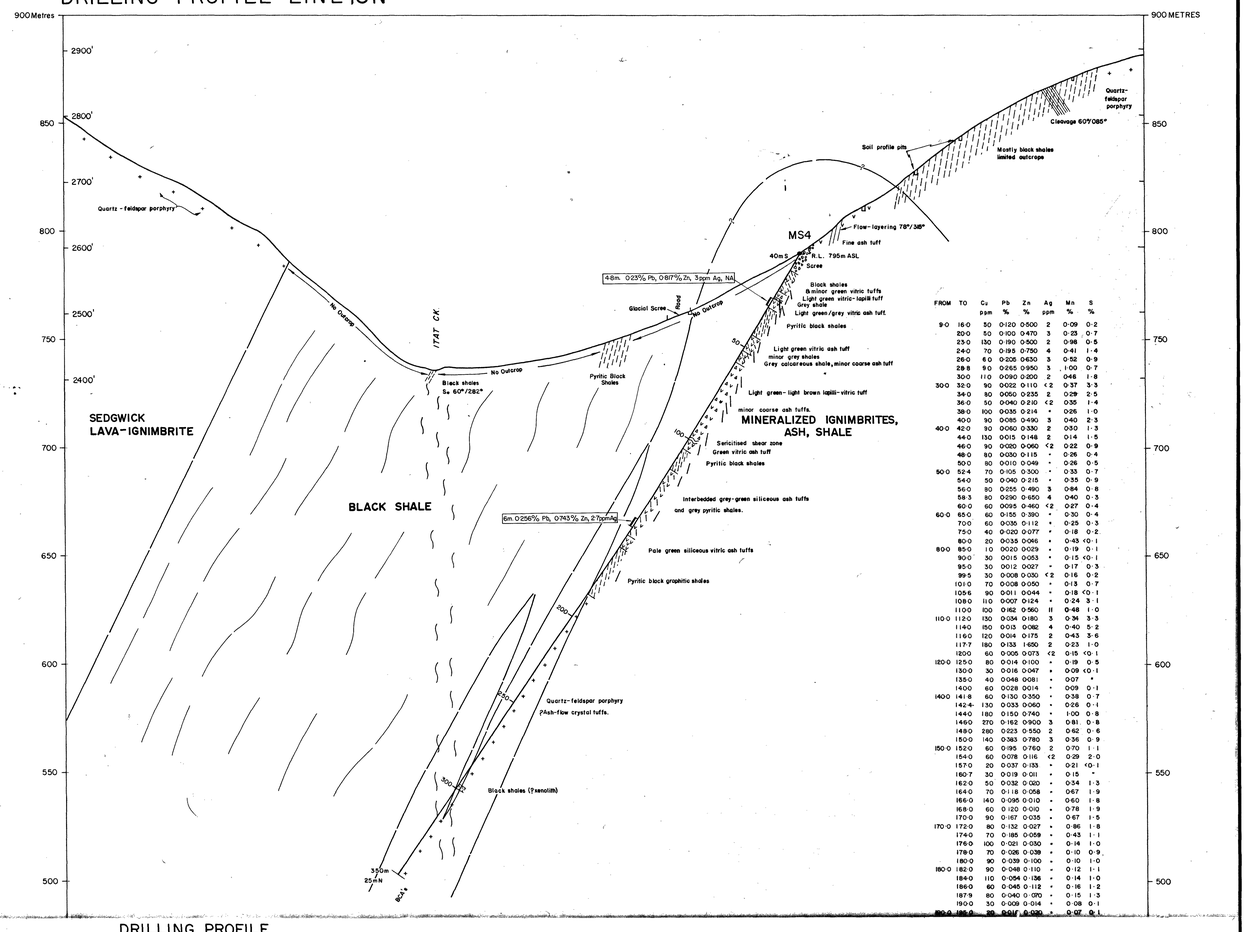
FIG. 18

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

DRILL PROFILE
(INTERP. A)

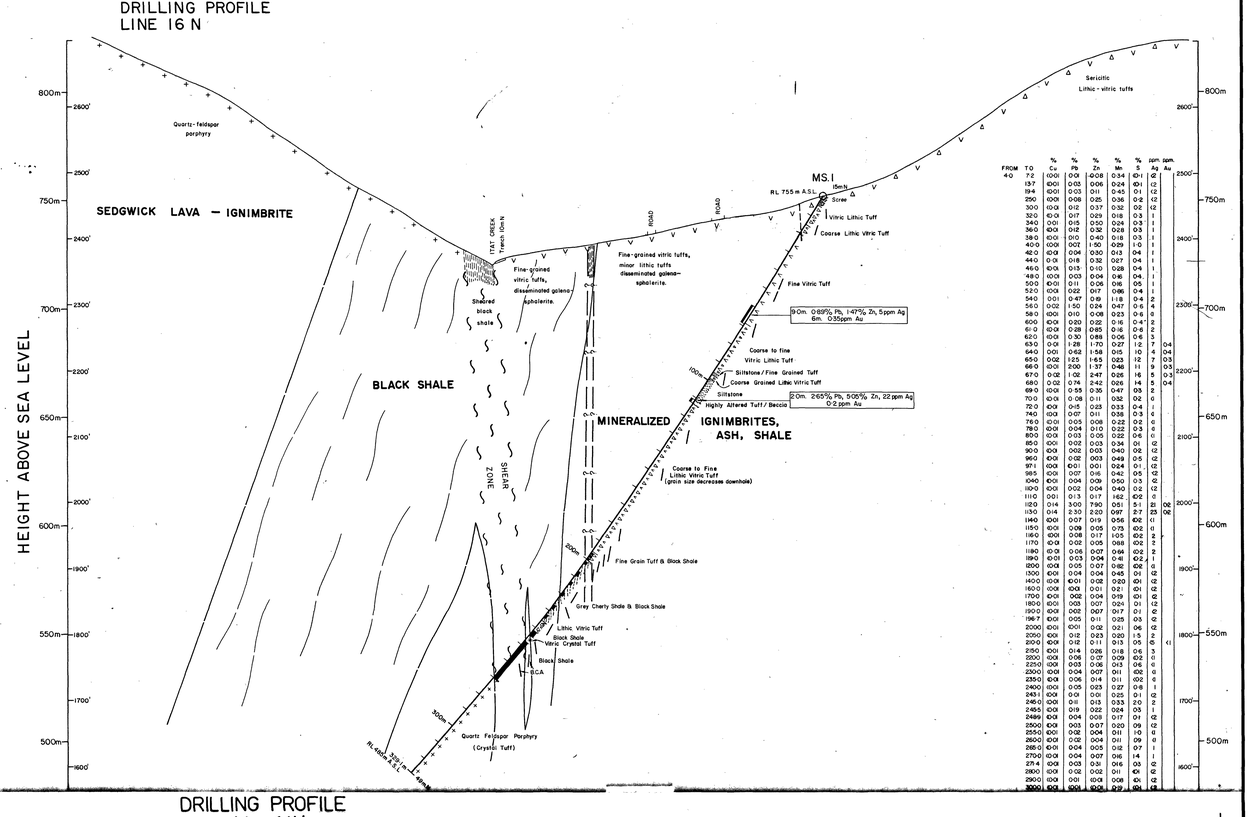
1:1000

DRILLING PROFILE LINE 18N



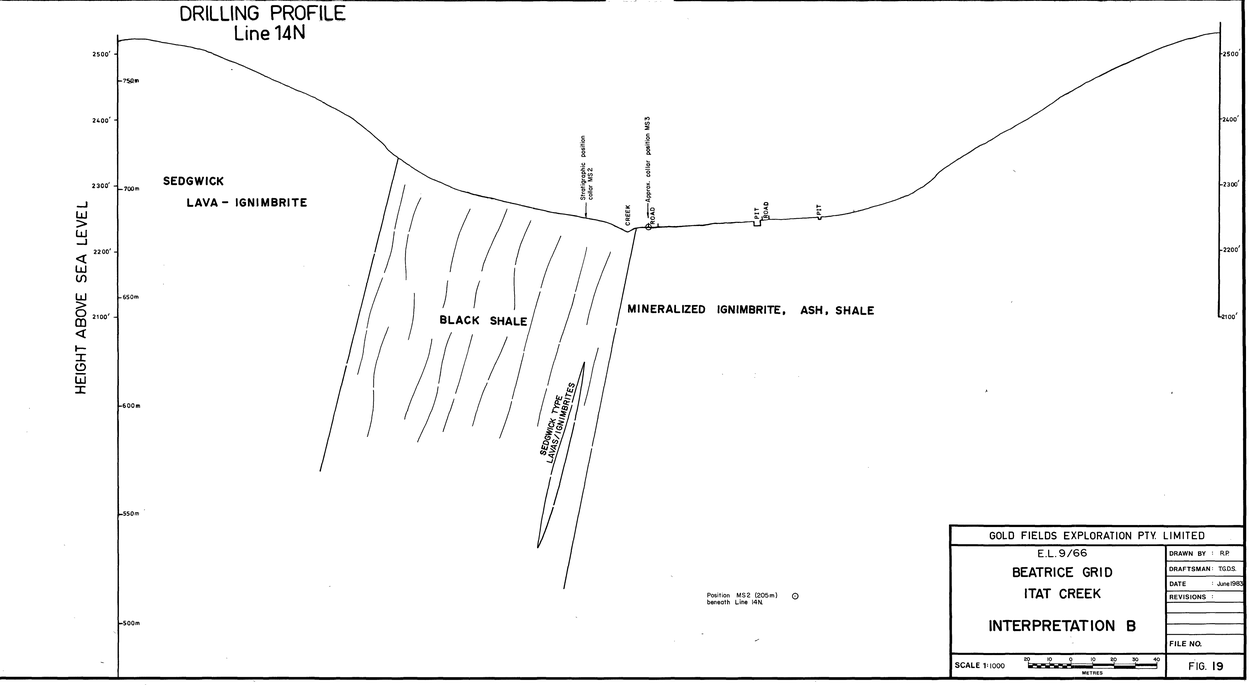
FROM	TO	Cu ppm	Pb %	Zn %	Ag ppm	Mn %	S %
9·0	16·0	50	0·120	0·500	2	0·09	0·2
	20·0	50	0·100	0·470	3	0·23	0·7
	23·0	130	0·190	0·500	2	0·98	0·5
	24·0	70	0·195	0·750	4	0·41	1·4
	26·0	60	0·205	0·630	3	0·52	0·9
	28·8	90	0·265	0·950	3	1·00	0·7
	30·0	110	0·090	0·280	2	0·48	1·8
30·0	32·0	90	0·022	0·110	<2	0·37	3·3
	34·0	80	0·050	0·220	2	0·29	2·5
	36·0	50	0·040	0·210	<2	0·35	1·4
	38·0	100	0·035	0·214	"	0·26	1·0
	40·0	90	0·085	0·490	3	0·40	2·3
40·0	42·0	90	0·060	0·330	2	0·30	1·3
	44·0	130	0·015	0·148	2	0·14	1·5
	46·0	90	0·020	0·090	<2	0·22	0·9
	48·0	80	0·030	0·115	"	0·26	0·4
	50·0	80	0·010	0·049	"	0·26	0·5
50·0	52·4	70	0·105	0·300	"	0·33	0·7
	54·0	50	0·040	0·215	"	0·35	0·9
	56·0	90	0·255	0·490	3	0·84	0·8
	58·3	80	0·290	0·650	4	0·40	0·3
	60·0	60	0·095	0·460	<2	0·27	0·4
60·0	65·0	60	0·155	0·390	"	0·30	0·4
	70·0	60	0·035	0·112	"	0·25	0·3
	75·0	40	0·020	0·077	"	0·18	0·2
	80·0	20	0·035	0·046	"	0·43	<0·1
80·0	85·0	10	0·020	0·029	"	0·19	0·1
	90·0	30	0·015	0·053	"	0·15	<0·1
	95·0	30	0·012	0·027	"	0·17	0·3
	99·5	30	0·008	0·030	<2	0·16	0·2
	101·0	70	0·008	0·050	"	0·13	0·7
	105·6	90	0·011	0·044	"	0·18	<0·1
	108·0	110	0·007	0·024	"	0·24	3·1
	110·0	100	0·162	0·560	11	0·48	1·0
110·0	112·0	150	0·034	0·180	3	0·34	3·3
	114·0	150	0·013	0·082	4	0·40	5·2
	116·0	120	0·014	0·175	2	0·43	3·6
	117·7	180	0·133	1·650	2	0·23	1·0
	120·0	60	0·005	0·073	<2	0·15	<0·1
120·0	125·0	80	0·014	0·100	"	0·19	0·5
	130·0	30	0·016	0·047	"	0·09	<0·1
	135·0	40	0·048	0·081	"	0·07	"
	140·0	60	0·028	0·014	"	0·09	0·1
140·0	141·8	60	0·130	0·350	"	0·38	0·7
	142·4	130	0·033	0·060	"	0·26	0·1
	144·0	180	0·150	0·740	"	1·00	0·8
	146·0	270	0·162	0·900	3	0·81	0·8
	148·0	280	0·223	0·550	2	0·62	0·6
	150·0	140	0·383	0·780	3	0·56	0·9
150·0	152·0	60	0·195	0·760	2	0·70	1·1
	154·0	60	0·078	0·116	<2	0·29	2·0
	157·0	20	0·037	0·133	"	0·21	<0·1
	160·7	30	0·019	0·011	"	0·15	"
	162·0	50	0·032	0·020	"	0·34	1·3
	164·0	70	0·118	0·058	"	0·67	1·9
	166·0	140	0·095	0·010	"	0·60	1·8
	168·0	60	0·120	0·010	"	0·78	1·9
	170·0	90	0·167	0·035	"	0·67	1·5
170·0	172·0	80	0·132	0·027	"	0·86	1·8
	174·0	70	0·185	0·059	"	0·43	1·1
	176·0	100	0·021	0·050	"	0·16	1·0
	178·0	70	0·028	0·038	"	0·10	0·9
	180·0	90	0·039	0·100	"	0·10	1·0
180·0	182·0	90	0·048	0·110	"	0·12	1·1
	184·0	110	0·054	0·136	"	0·14	1·0
	186·0	60	0·046	0·112	"	0·16	1·2
	187·9	60	0·040	0·170	"	0·15	1·3
	190·0	30	0·009	0·014	"	0·08	0·1
190·0	195·0	30	0·017	0·020	"	0·07	0·1

DRILLING PROFILE LINE 16 N



FROM	TO	% Cu	% Pb	% Zn	% Mn	% S	ppm Ag	ppm Au
4·0	7·2	1·001	0·01	0·008	0·34	<0·1	<2	
	13·7	1·001	0·005	0·006	0·24	<0·1	<2	
	19·4	1·001	0·003	0·011	0·45	0·1	<2	
	25·0	1·001	0·009	0·025	0·036	0·2	<2	
	30·0	1·002	0·012	0·037	0·032	0·2	<2	
	32·0	1·002	0·017	0·029	0·018	0·3	1	
	34·0	1·001	0·015	0·020	0·024	0·3	1	
	36·0	1·002	0·012	0·032	0·028	0·3	1	
	38·0	1·002	0·010	0·022	0·018	0·3	1	
	40·0	1·002	0·007	1·50	0·029	1·0	1	
	42·0	1·004	0·004	0·300	0·13	0·4	1	
	44·0	1·003	0·018	0·032	0·027	0·4	1	
	46·0	1·003	0·013	0·010	0·028	0·4	1	
	48·0	1·002	0·003	0·004	0·016	0·4	1	
	50·0	1·001	0·004	0·006	0·016	0·5	1	
	52·0	1·001	0·022	0·017	0·046	0·4	1	
	54·0	1·001	0·047	0·18	1·18	0·4	2	
	56·0	1·002	0·024	0·047	0·56	0·4	4	
	58·0	1·001	0·010	0·009	0·023	0·4	2	
	60·0	1·002	0·010	0·022	0·016	0·4	2	
	61·0	1·002	0·028	0·285	0·016	0·4	2	
	62·0	1·002	0·010	0·030	0·088	0·6	3	
	63·0	1·001	1·28	1·70	0·27	1·2	7	0·04
	64·0	1·001	0·62	1·58	0·15	1·0	4	0·04
	65·0	1·002	1·25	1·65	0·23	1·2	7	0·03
	66·0	1·001	2·00	1·37	0·48	1·1	9	0·03
	67·0	1·002	1·02	2·47	0·26	1·6	5	0·03
	68·0	1·002	0·76	2·42	0·26	1·4	5	0·04
	69·0	1·002	0·58	0·30	0·47	0·5	2	
	70·0	1·001	0·08	0·111	0·32	0·2	6	
	72·0	1·001	0·05	0·023	0·233	0·4	2	
	74·0	1·001	0·007	0·011	0·038	0·3	6	
	76·0	1·001	0·005	0·008	0·022	0·2	6	
	78·0	1·001	0·004	0·010	0·022	0·3	6	
	80·0	1·001	0·003	0·009	0·022	0·4	6	
	85·0	1·001	0·002	0·003	0·034	0·1	<2	
	90·0	1·001	0·002	0·003	0·040	0·2	<2	
	96·0	1·001	0·002	0·003	0·049	0·5	<2	
	98·5	1·001	0·007	0·016	0·042	0·5	<2	
	104·0	1·001	0·004	0·009	0·050	0·3	<2	
	107·0	1·001	0·002	0·002	0·040	0·2	<2	
	111·0	1·001	0·013	0·017	1·62	<0·1	<2	
	112·0	1·014	3·00	7·90	0·051	5·1	23	0·2
	113·0	1·014	2·30	2·20	0·097	2·7	23	0·2
	114·0	1·003	0·007	0·019	0·056	<0·1	11	
	115·0	1·001	0·009	0·005	0·75	<0·1	11	
	116·0	1·002	0·008	0·017	1·05	<0·1	<2	
	117·0	1·001	0·002	0·005	0·088	<0·1	2	
	118·0	1·001	0·005	0·007	0·066	<0·1	2	
	119·0	1·001	0·003	0·006	0·048	<0·1	<2	
	120·0	1·001	0·005	0·007	0·082	<0·1	<2	
	130·0	1·001	0·004	0·006	0·045	0·1	<2	
	140·0	1·001	0·001	0·002	0·020	<0·1	<2	
	150·0	1·001	0·003	0·001	0·021	<0·1	<2	
	170·0	1·001	0·002	0·004	0·019	<0·1	<2	
	180·0	1·001	0·003	0·007	0·024	0·1	<2	
	190·0	1·001	0·002	0·007	0·017	0·1	<2	
	196·7	1·001	0·005	0·011	0·025	0·3	<2	
	200·0	1·001	0·001	0·002	0·021	0·6	<2	
	205·0	1·001	0·012	0·023	0·220	1·5	2	
	210·0	1·001	0·012	0·011	0·161	0·5	<2	<1
	215·0	1·001	0·014	0·026	0·018	0·6	3	
	220·0	1·001	0·008	0·017	0·009	0·2	<2	
	225·0	1·001	0·003	0·006	0·013	0·6	<2	
	230·0	1·001	0·004	0·007	0·011	0·6	<2	
	235·0	1·001	0·006	0·014	0·011	0·2	<2	
	240·0	1·001	0·005	0·023	0·027	0·8	1	
	243·1	1·001	0·001	0·001	0·025	0·1	<2	
	245·0	1·001	0·011	0·013	0·033	2·0	2	
	245·5	1·001	0·019	0·022	0·024	0·5	1	
	248·5	1·001	0·004	0·003	0·017	0·1	<2	
	250·0	1·001	0·003	0·007	0·020	0·9	<2	
	255·0	1·001	0·002	0·004	0·011	1·0	<2	
	260·0	1·001	0·001	0·004	0·011	0·9	<2	
	265·0	1·001	0·004	0·005	0·012	0·7	1	
	270·0	1·001	0·004	0·007	0·016	1·4	1	
	274·0	1·001	0·003	0·001	0·016	0·3	<2	
	280·0	1·001	0·001	0·002	0·011	0·1	<2	
	290·0	1·001	0·001	0·001	0·008	<0·1	<2	
	300·0	1·001	0·001	0·001	0·019	<0·1	<2	

DRILLING PROFILE Line 14N



GOLD FIELDS EXPLORATION PTY. LIMITED	
E.L. 9/66	DRAWN BY : R.P.
BEATRICE GRID	DRAFTSMAN : T.G.D.S.
ITAT CREEK	DATE : June 1983
INTERPRETATION B	REVISIONS :
	FILE NO.
SCALE 1:1000 (80 40 20 10 0 10 20 30 40 METRES)	FIG. 19

1:1000

BEATRICE TYNDALL PROJECT

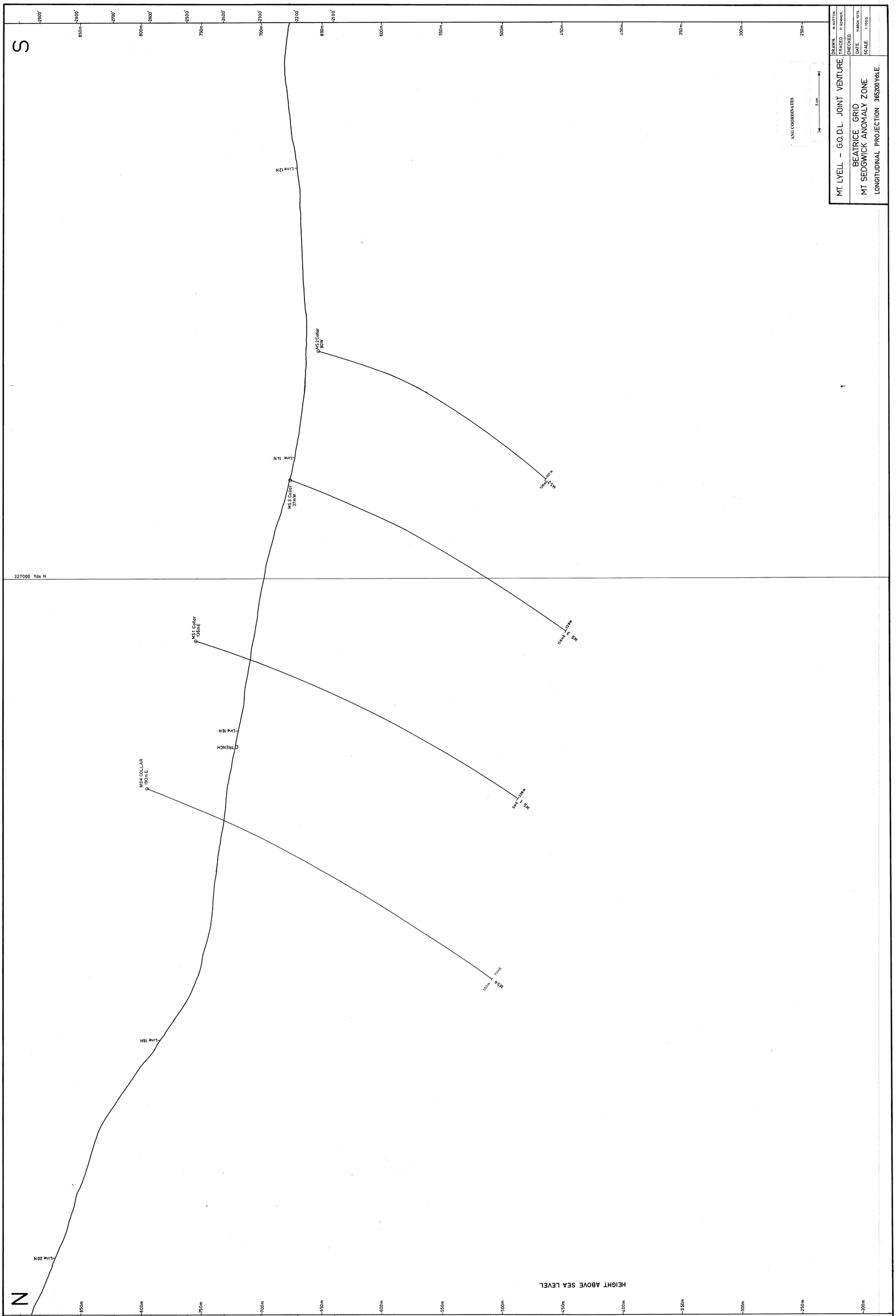
DRILL PROFILE (INTERP. B)

1:1,000

BEATRICE GRID

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

LONGITUDINAL PROJECTION



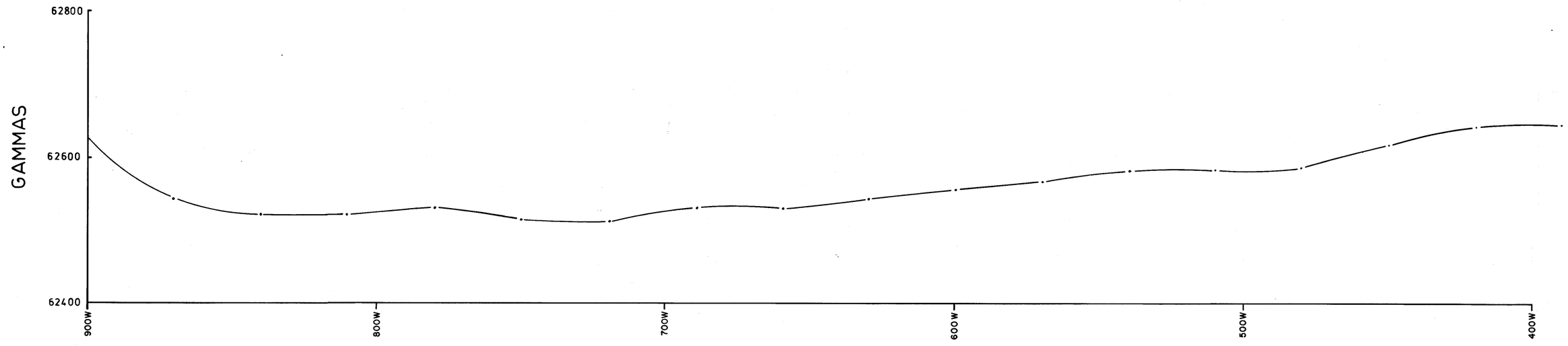
1:1,000

BEATRICE GRID

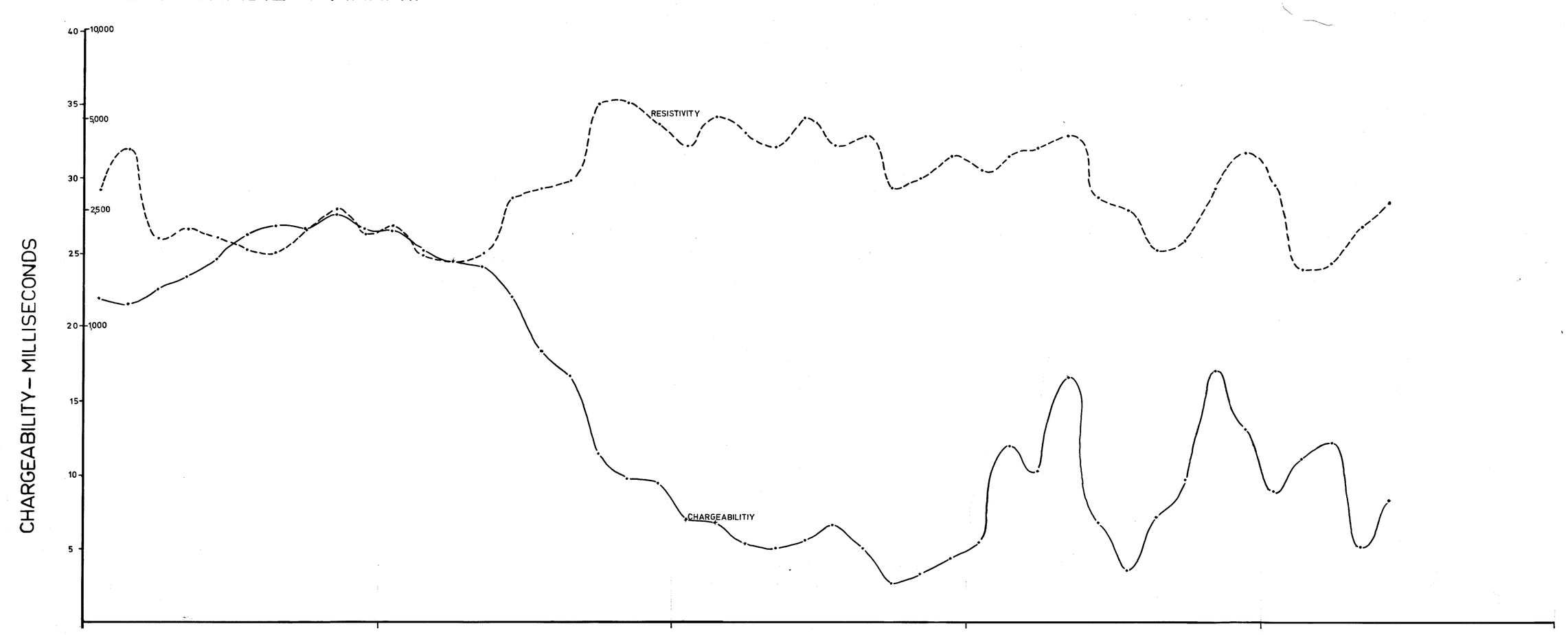
TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

COMPOSITE LINE
PROFILE LINE 12N

TOTAL MAGNETIC FIELD.

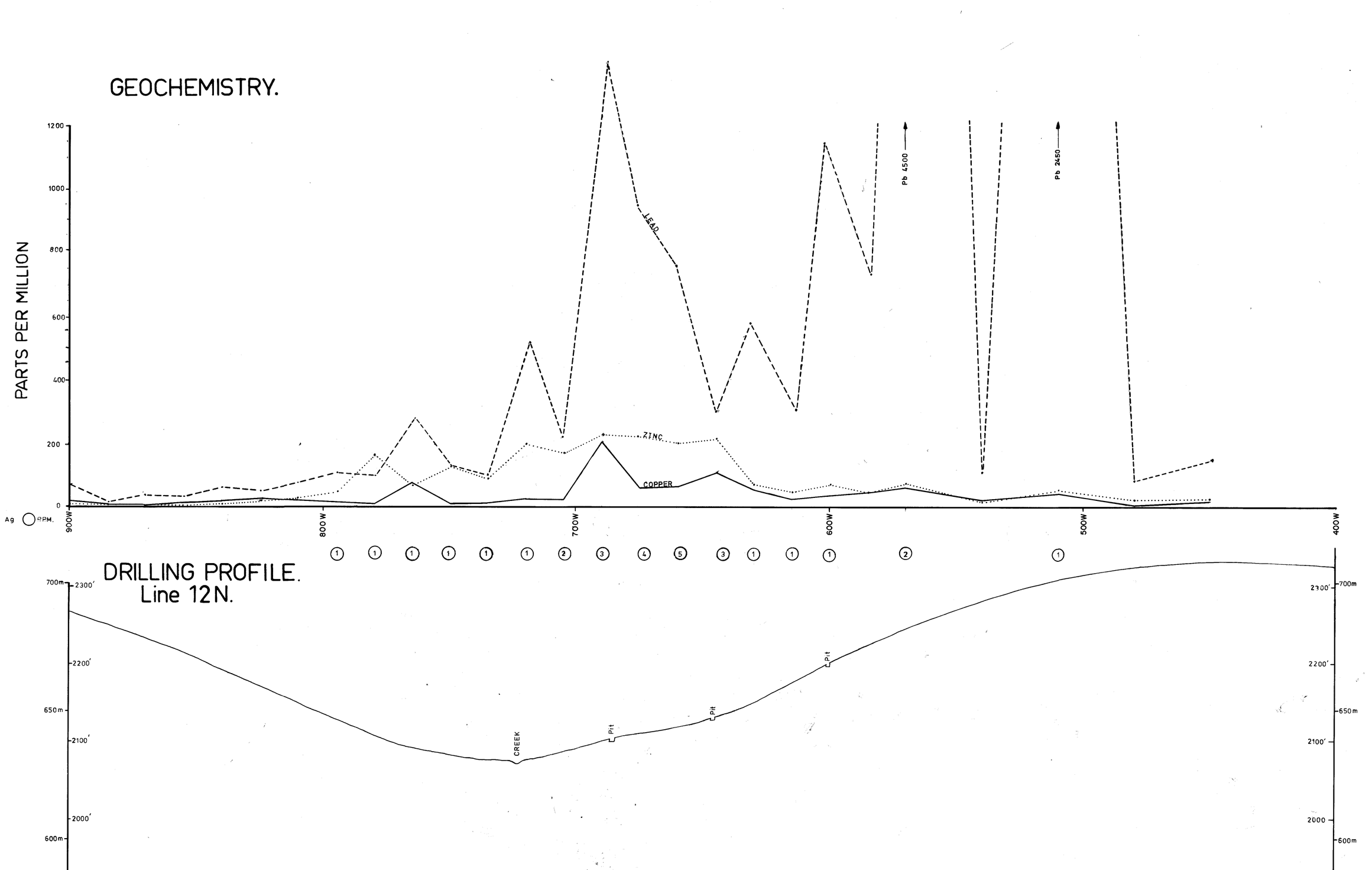


E.I.P. GRADIENT ARRAY.



GEOCHEMISTRY.

DRILLING PROFILE.
Line 12N.



5 cm

MT. LYELL - G.O.D.L. JOINT VENTURE	DRAWN. M.H.
	TRACED. P.R
BEATRICE GRID	CHECKED.
MT. SEDGWICK ANOMALY ZONE	DATE.
DRILLING PROFILE LINE 12 N.	SCALE. 1:1000

1:1,000

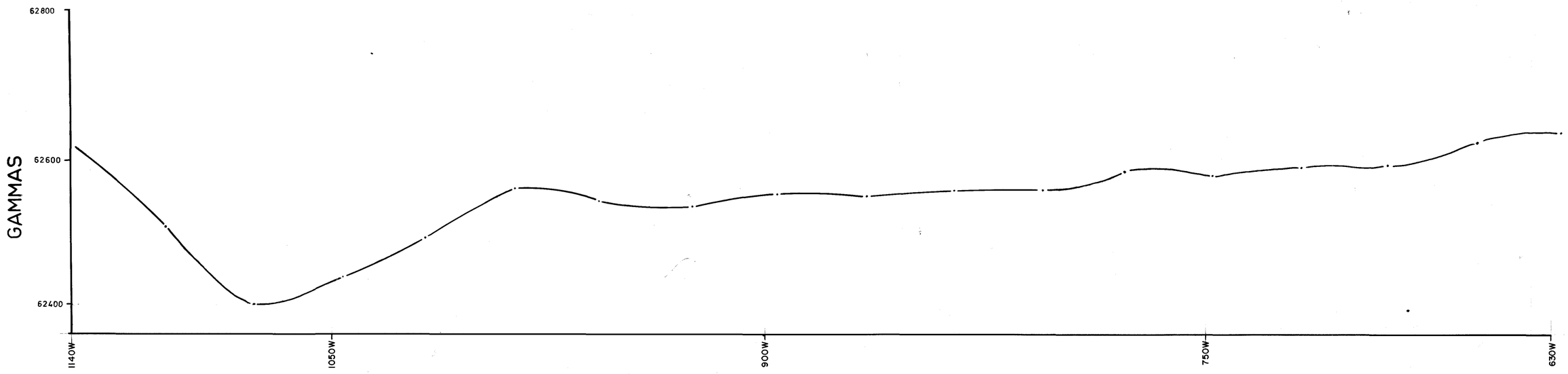
BEATRICE GRID

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

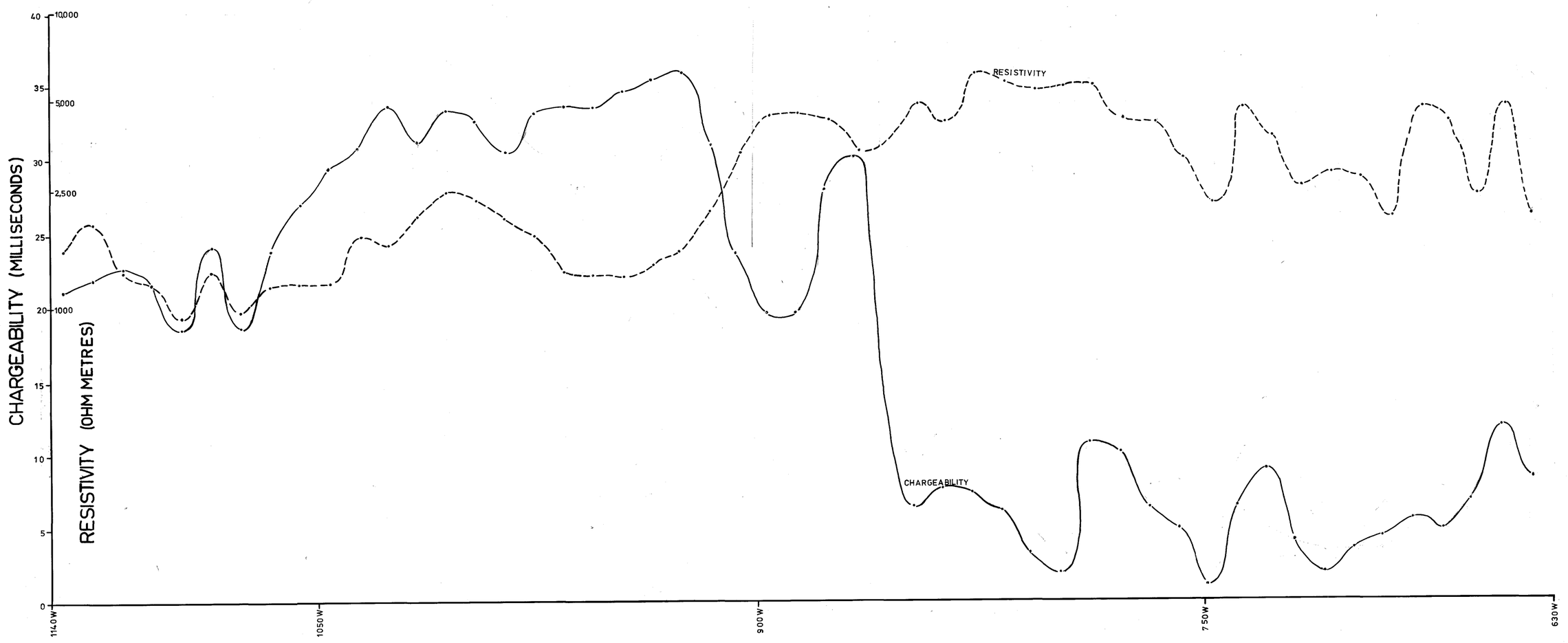
36

COMPOSITE LINE
PROFILE: LINE 14N

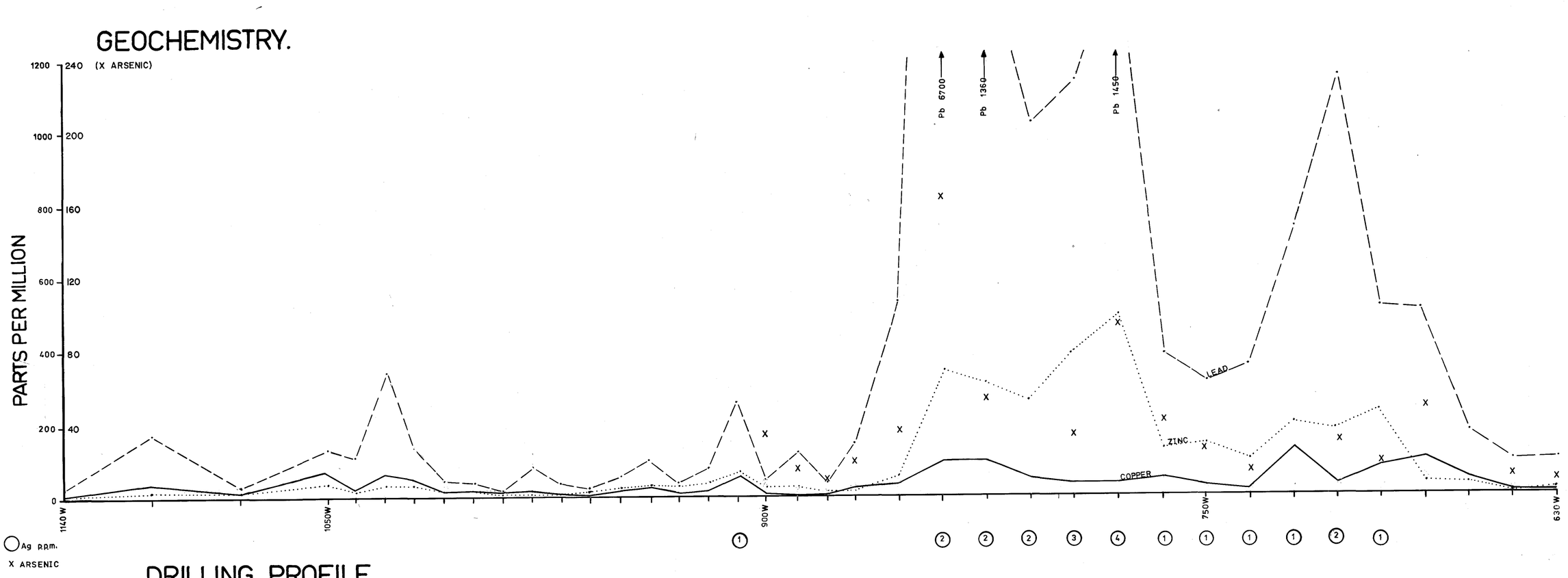
TOTAL MAGNETIC FIELD.



E.I.P. GRADIENT ARRAY

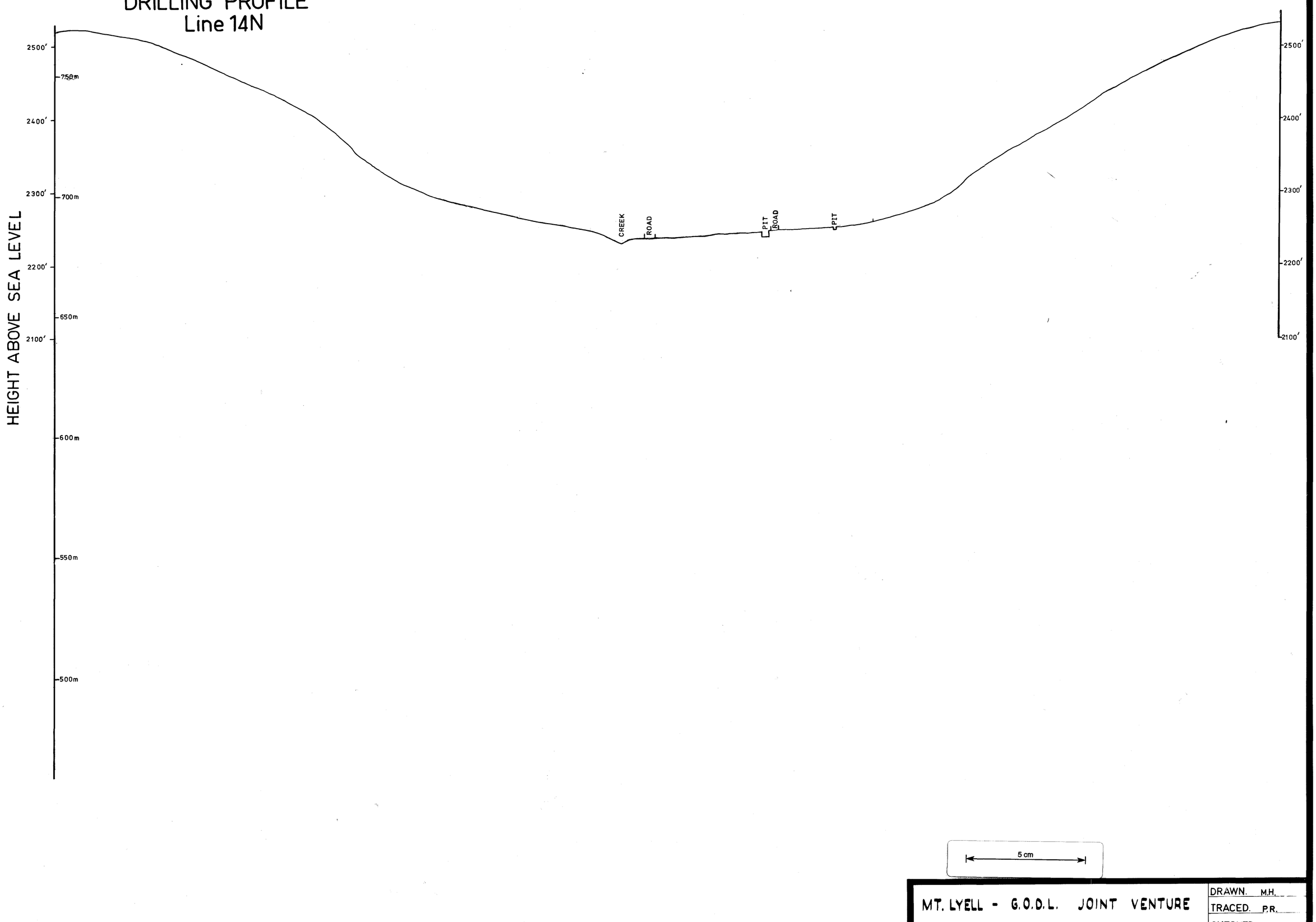


GEOCHEMISTRY.



○ Ag p.p.m.
X ARSENIC

DRILLING PROFILE
Line 14N



5 cm

MT. LYELL - G.O.D.L. JOINT VENTURE	DRAWN. M.H.
	TRACED. P.R.
BEATRICE GRID	CHECKED.
MT SEDGWICK ANOMALY ZONE	DATE. 5/1/'79
DRILLING PROFILE LINE 14N	SCALE. 1:1000

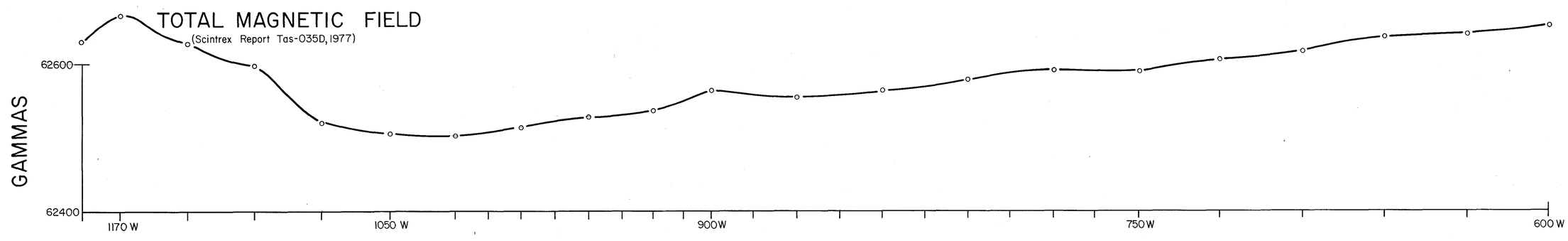
1:1,000

BEATRICE GRID

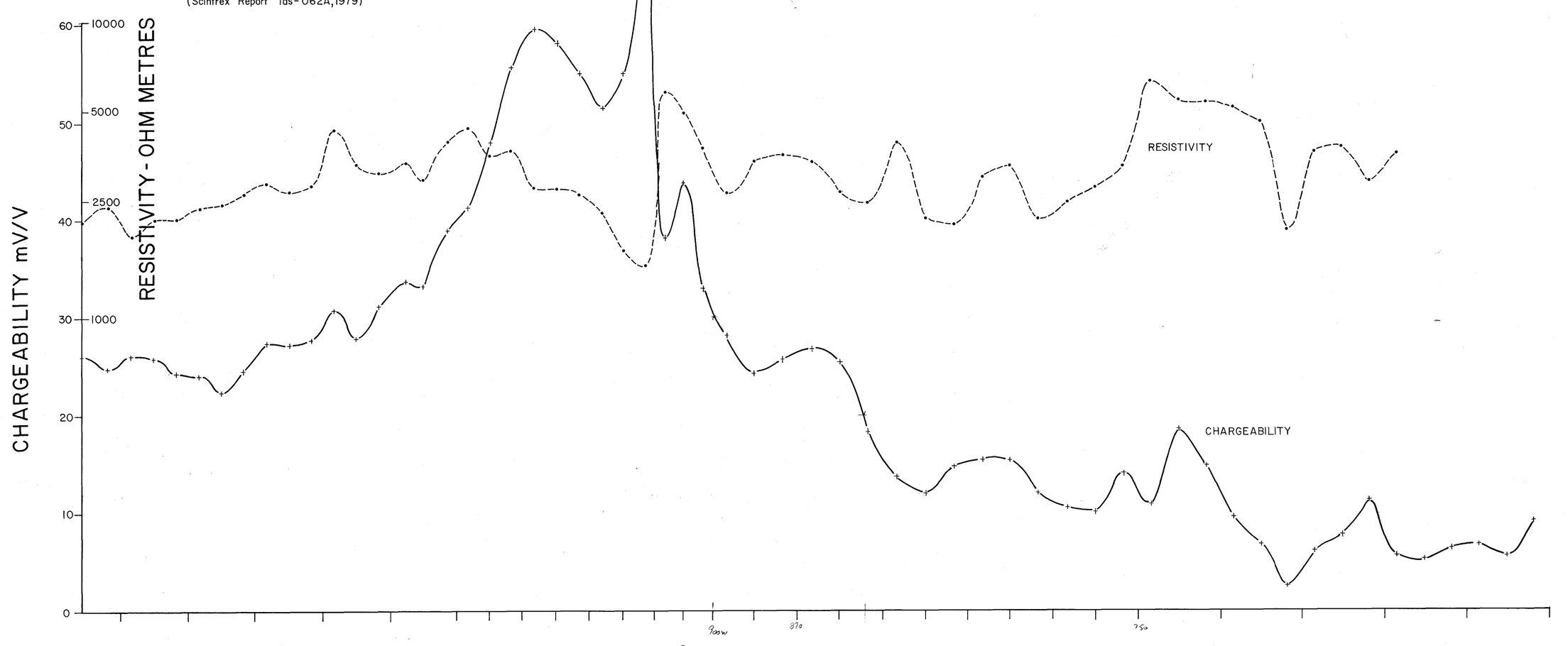
TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

COMPOSITE LINE PROFILE-LINE 16N
DDH MS 1

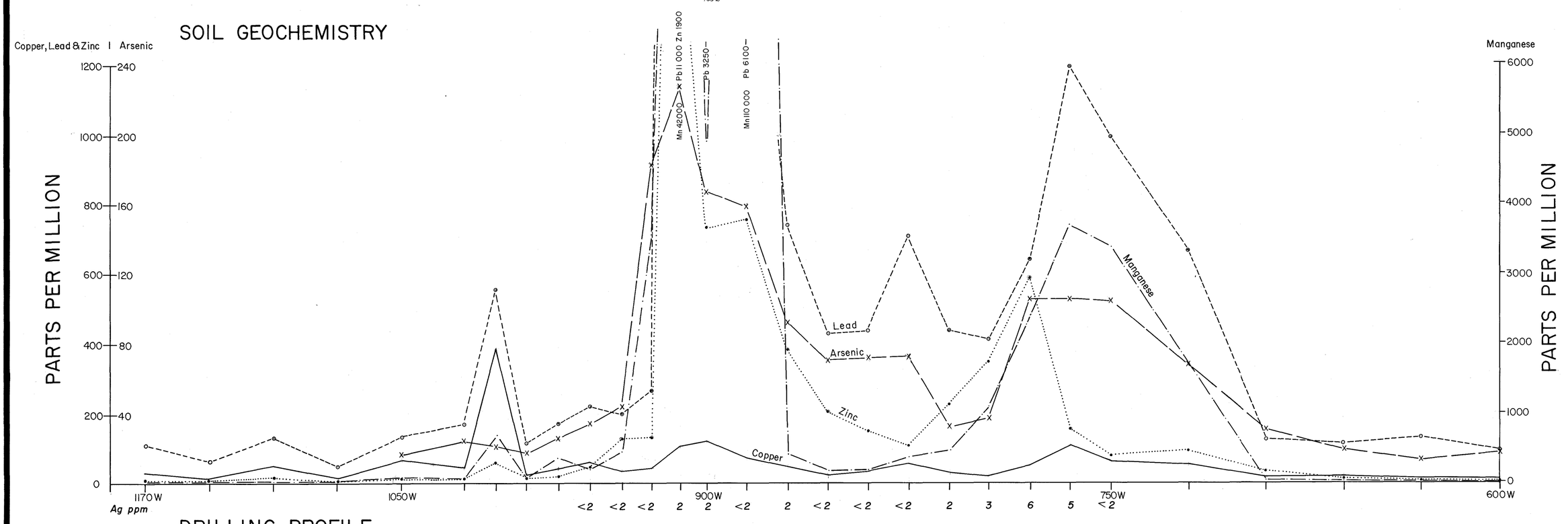
TOTAL MAGNETIC FIELD
(Scintrex Report Tas-035D, 1977)



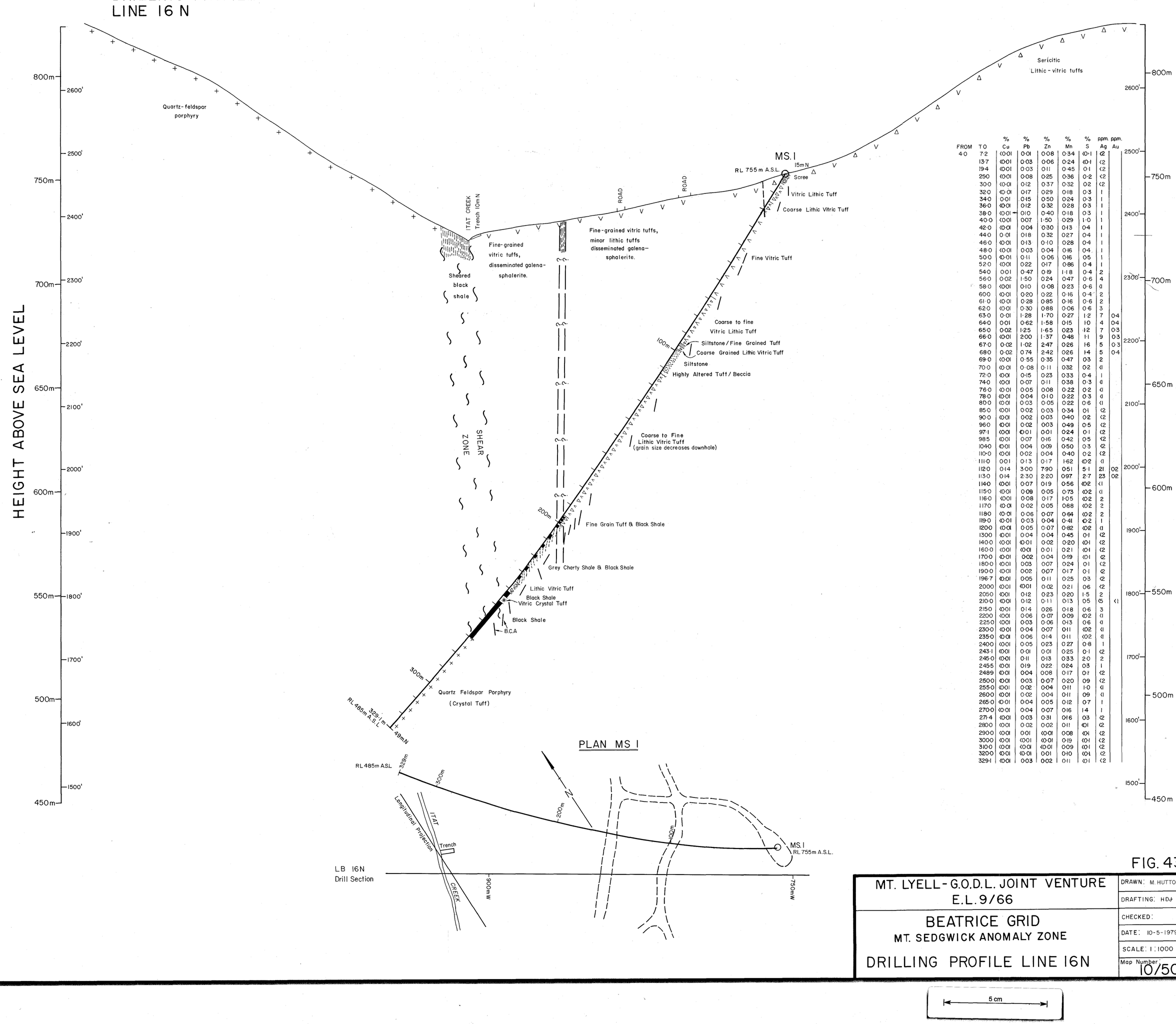
E.I.P. GRADIENT ARRAY
(Scintrex Report Tas-062A, 1979)



SOIL GEOCHEMISTRY



DRILLING PROFILE
LINE 16 N



FROM	TO	% Cu	% Pb	% Zn	% Mn	% S	ppm. Ag	ppm. Au
4·0	7·2	<0·01	0·01	0·08	0·34	<0·1	<2	
	13·7	<0·01	0·03	0·06	0·24	<0·1	<2	
	19·4	<0·01	0·03	0·11	0·45	0·1	<2	
	25·0	<0·01	0·08	0·25	0·36	0·2	<2	
	30·0	<0·01	0·12	0·37	0·32	0·2	<2	
	32·0	<0·01	0·17	0·29	0·18	0·3	1	
	34·0	0·01	0·15	0·50	0·24	0·3	1	
	36·0	<0·01	0·12	0·32	0·28	0·3	1	
	38·0	<0·01	0·10	0·40	0·18	0·3	1	
	40·0	<0·01	0·07	1·50	0·29	1·0	1	
	42·0	<0·01	0·04	0·30	0·13	0·4	1	
	44·0	0·01	0·18	0·32	0·27	0·4	1	
	46·0	<0·01	0·13	0·10	0·28	0·4	1	
	48·0	<0·01	0·03	0·04	0·16	0·4	1	
	50·0	<0·01	0·11	0·06	0·16	0·5	1	
	52·0	<0·01	0·22	0·17	0·86	0·4	1	
	54·0	0·01	0·47	0·19	1·18	0·4	2	
	56·0	0·02	1·50	0·24	0·47	0·6	4	
	58·0	<0·01	0·10	0·08	0·23	0·6	<1	
	60·0	<0·01	0·20	0·22	0·16	0·4	2	
	61·0	<0·01	0·28	0·85	0·16	0·6	2	
	62·0	<0·01	0·30	0·88	0·06	0·6	3	
	63·0	0·01	1·28	1·70	0·27	1·2	7	0·4
	64·0	0·01	0·62	1·58	0·15	1·0	4	0·4
	65·0	0·02	1·25	1·65	0·23	1·2	7	0·3
	66·0	<0·01	2·00	1·37	0·48	1·1	9	0·3
	67·0	0·02	1·02	2·47	0·26	1·6	5	0·3
	68·0	0·02	0·74	2·42	0·26	1·4	5	0·4
	69·0	<0·01	0·55	0·35	0·47	0·3	2	
	70·0	<0·01	0·08	0·11	0·32	0·2	<1	
	72·0	<0·01	0·15	0·23	0·33	0·4	1	
	74·0	<0·01	0·07	0·11	0·38	0·3	<1	
	76·0	<0·01	0·05	0·08	0·22	0·2	<1	
	78·0	<0·01	0·04	0·10	0·22	0·3	<1	
	80·0	<0·01	0·03	0·05	0·22	0·6	<1	
	85·0	<0·01	0·02	0·03	0·34	0·1	<2	
	90·0	<0·01	0·02	0·03	0·40	0·2	<2	
	96·0	<0·01	0·02	0·03	0·49	0·5	<2	
	97·1	<0·01	<0·01	0·01	0·24	0·1	<2	
	98·5	<0·01	0·07	0·16	0·42	0·5	<2	
	104·0	<0·01	0·04	0·09	0·50	0·3	<2	
	110·0	<0·01	0·02	0·04	0·40	0·2	<2	
	111·0	0·01	0·13	0·17	1·62	<0·2	<1	
	112·0	0·14	3·00	7·90	0·51	5·1	21	0·2
	113·0	0·14	2·30	2·20	0·97	2·7	23	0·2
	114·0	<0·01	0·07	0·19	0·56	<0·2	<1	
	115·0	<0·01	0·09	0·05	0·73	<0·2	<1	
	116·0	<0·01	0·08	0·17	1·05	<0·2	2	
	117·0	<0·01	0·02	0·05	0·88	<0·2	2	
	118·0	<0·01	0·06	0·07	0·64	<0·2	2	
	119·0	<0·01	0·03	0·04	0·41	<0·2	1	
	120·0	<0·01	0·05	0·07	0·82	<0·2	<1	
	130·0	<0·01	0·04	0·04	0·45	0·1	<2	
	140·0	<0·01	<0·01	0·02	0·20	<0·1	<2	
	160·0	<0·01	<0·01	0·01	0·21	<0·1	<2	
	170·0	<0·01	0·02	0·04	0·19	<0·1	<2	
	180·0	<0·01	0·03	0·07	0·24	0·1	<2	
	190·0	<0·01	0·02	0·07	0·17	0·1	<2	
	196·7	<0·01	0·05	0·11	0·25	0·3	<2	
	200·0	<0·01	<0·01	0·02	0·21	0·6	<2	
	205·0	<0·01	0·12	0·23	0·20	1·5	2	
	210·0	<0·01	0·12	0·11	0·13	0·5	<5	<1
	215·0	<0·01	0·14	0·26	0·18	0·6	3	
	220·0	<0·01	0·06	0·07	0·09	<0·2	<1	
	225·0	<0·01	0·03	0·06	0·13	0·6	<1	
	230·0	<0·01	0·04	0·07	0·11	<0·2	<1	
	235·0	<0·01	0·06	0·14	0·11	<0·2	<1	
	240·0	<0·01	0·05	0·23	0·27	0·8	1	
	243·1	<0·01	0·01	0·01	0·25	0·1	<2	
	245·0	<0·01	0·11	0·13	0·33	2·0	2	
	245·5	<0·01	0·19	0·22	0·24	0·3	1	
	248·9	<0·01	0·04	0·08	0·17	0·1	<2	
	250·0	<0·01	0·03	0·07	0·20	0·9	<2	
	255·0	<0·01	0·02	0·04	0·11	1·0	<1	
	260·0	<0·01	0·02	0·04	0·11	0·9	<1	
	265·0	<0·01	0·04	0·05	0·12	0·7	1	
	270·0	<0·01	0·04	0·07	0·16	1·4	1	
	271·4	<0·01	0·03	0·31	0·16	0·3	<2	
	280·0	<0·01	0·02	0·02	0·11	<0·1	<2	
	290·0	<0·01	0·01	<0·01	0·08	<0·1	<2	
	300·0	<0·01	<0·01	<0·01	0·19	<0·1	<2	
	310·0	<0·01	<0·01	<0·01	0·09	<0·1	<2	
	320·0	<0·01	<0·01	0·01	0·10	<0·1	<2	
	329·1	<0·01	0·03	0·02	0·11	<0·1	<2	

PLAN MS I

FIG. 43

MT. LYELL - G.O.D.L. JOINT VENTURE E.L. 9/66	DRAWN: M. HUTTON
	DRAFTING: HDJ
BEATRICE GRID MT. SEDGWICK ANOMALY ZONE	CHECKED:
	DATE: 10-5-1979
	SCALE: 1:1000
DRILLING PROFILE LINE 16N	Map Number: 10/501

5 cm

1:1,000

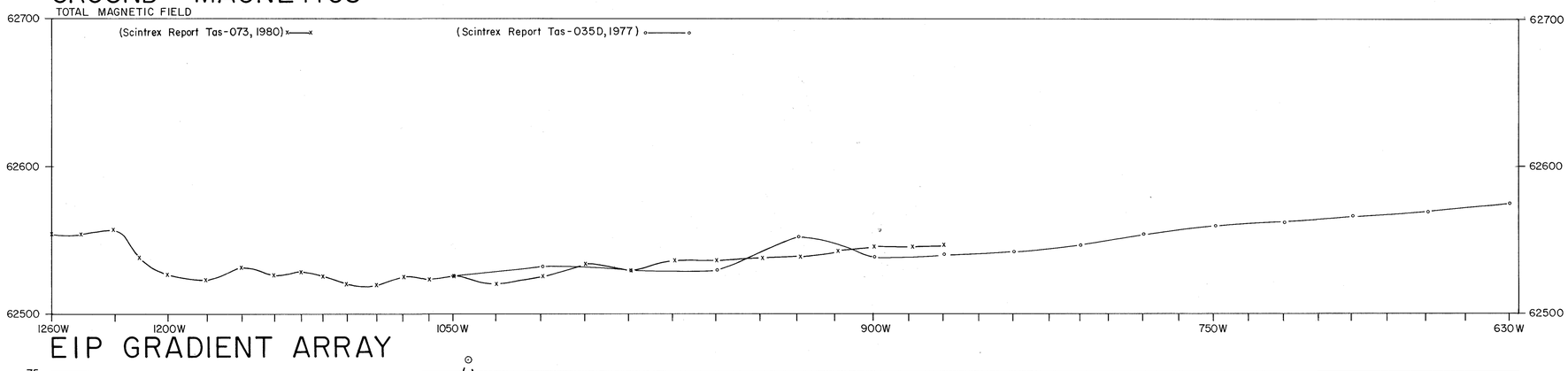
BEATRICE GRID

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

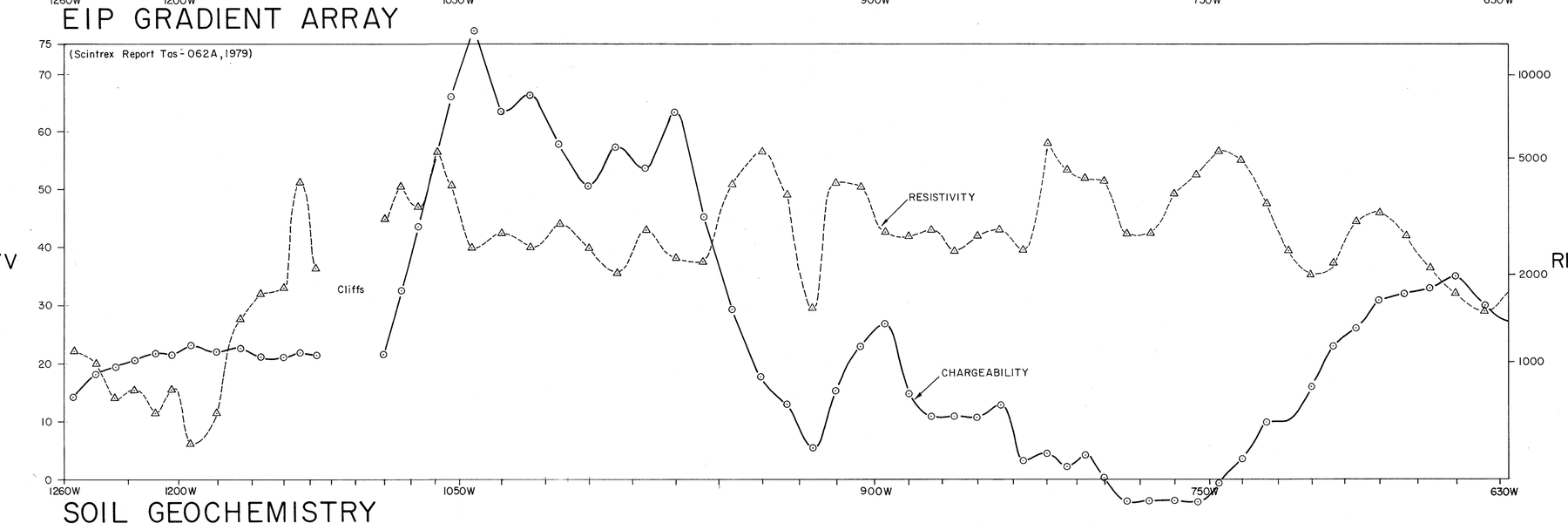
COMPOSITE LINE
PROFILE - LINE 18N
DDH MS 4

GROUND MAGNETICS

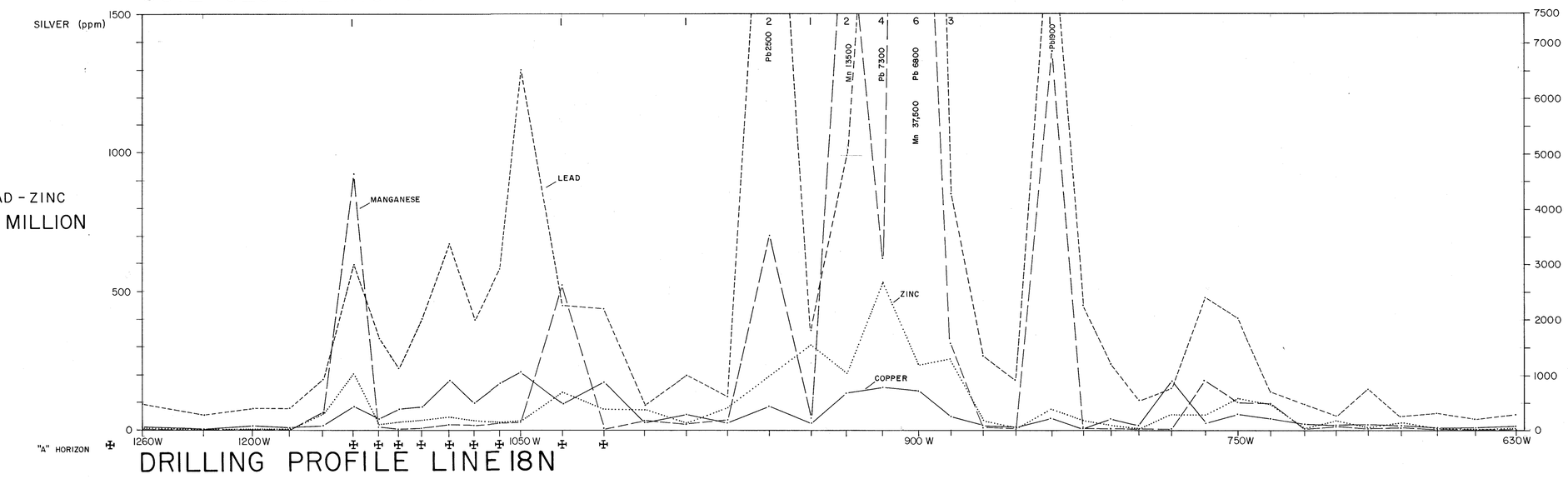
TOTAL MAGNETIC FIELD



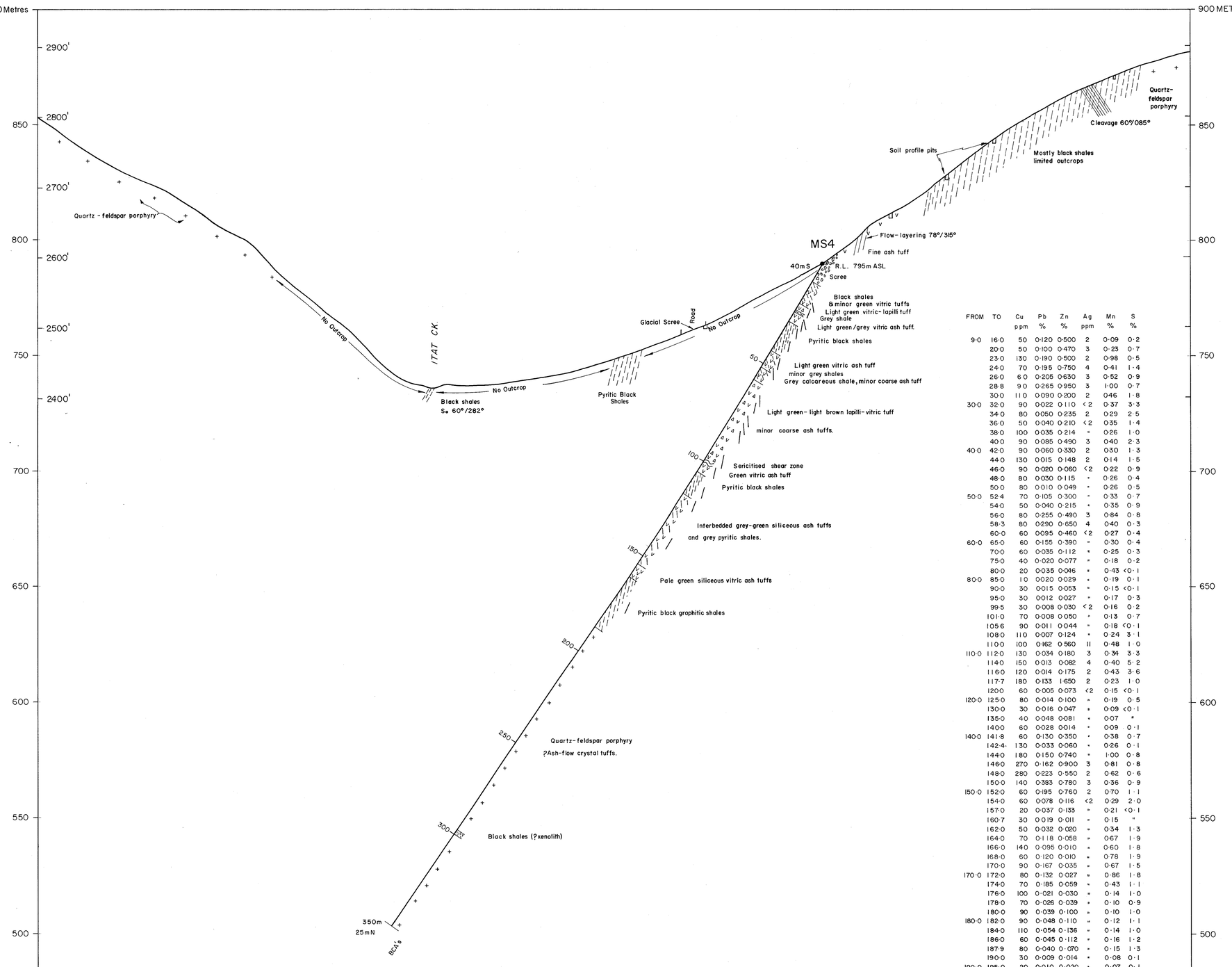
EIP GRADIENT ARRAY



SOIL GEOCHEMISTRY

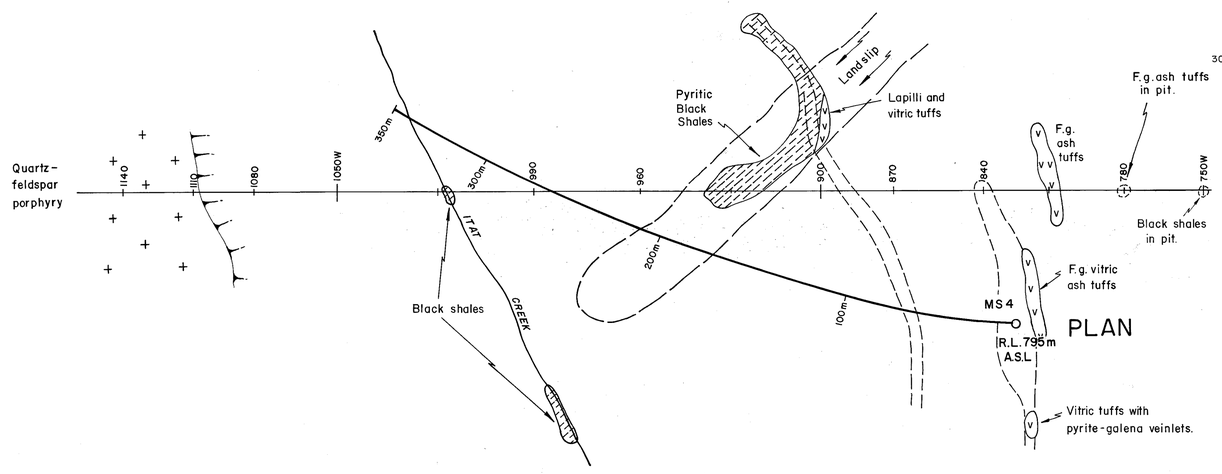


DRILLING PROFILE LINE 18N



FROM	TO	Cu ppm	Pb %	Zn %	Ag ppm	Mn %	S %
9·0	16·0	50	0·120	0·500	2	0·09	0·2
	20·0	50	0·100	0·470	3	0·23	0·7
	23·0	130	0·190	0·500	2	0·98	0·5
	24·0	70	0·195	0·750	4	0·41	1·4
	26·0	60	0·205	0·630	3	0·52	0·9
	28·8	90	0·265	0·950	3	1·00	0·7
	30·0	110	0·090	0·200	2	0·46	1·8
30·0	32·0	90	0·022	0·110	<2	0·37	3·3
	34·0	80	0·050	0·235	2	0·29	2·5
	36·0	50	0·040	0·210	<2	0·35	1·4
	38·0	100	0·035	0·214	"	0·26	1·0
	40·0	90	0·085	0·490	3	0·40	2·3
40·0	42·0	90	0·060	0·330	2	0·30	1·3
	44·0	130	0·015	0·148	2	0·14	1·5
	46·0	90	0·020	0·060	<2	0·22	0·9
	48·0	80	0·030	0·115	"	0·26	0·4
	50·0	80	0·010	0·049	"	0·26	0·5
50·0	52·4	70	0·105	0·300	"	0·33	0·7
	54·0	50	0·040	0·215	"	0·35	0·9
	56·0	80	0·255	0·490	3	0·84	0·8
	58·3	80	0·290	0·650	4	0·40	0·3
	60·0	60	0·095	0·460	<2	0·27	0·4
60·0	65·0	60	0·155	0·390	"	0·30	0·4
	70·0	60	0·035	0·112	"	0·25	0·3
	75·0	40	0·020	0·077	"	0·18	0·2
	80·0	20	0·035	0·046	"	0·43	<0·1
80·0	85·0	10	0·020	0·029	"	0·19	0·1
	90·0	30	0·015	0·053	"	0·15	<0·1
	95·0	30	0·012	0·027	"	0·17	0·3
	99·5	30	0·008	0·030	<2	0·16	0·2
	101·0	70	0·008	0·050	"	0·13	0·7
	105·6	90	0·011	0·044	"	0·18	<0·1
	108·0	110	0·007	0·124	"	0·24	3·1
	110·0	100	0·162	0·560	11	0·48	1·0
110·0	112·0	130	0·034	0·180	3	0·34	3·3
	114·0	150	0·013	0·082	4	0·40	5·2
	116·0	120	0·014	0·175	2	0·43	3·6
	117·7	180	0·133	1·650	2	0·23	1·0
	120·0	60	0·005	0·073	<2	0·15	<0·1
120·0	125·0	80	0·014	0·100	"	0·19	0·5
	130·0	30	0·016	0·047	"	0·09	<0·1
	135·0	40	0·048	0·081	"	0·07	"
	140·0	60	0·028	0·014	"	0·09	0·1
140·0	141·8	60	0·130	0·350	"	0·38	0·7
	142·4	130	0·033	0·060	"	0·26	0·1
	144·0	180	0·150	0·740	"	1·00	0·8
	146·0	270	0·162	0·900	3	0·81	0·8
	148·0	280	0·223	0·550	2	0·62	0·6
	150·0	140	0·383	0·780	3	0·36	0·9
150·0	152·0	60	0·195	0·760	2	0·70	1·1
	154·0	60	0·078	0·116	<2	0·29	2·0
	157·0	20	0·037	0·133	"	0·21	<0·1
	160·7	30	0·019	0·011	"	0·15	"
	162·0	50	0·032	0·020	"	0·34	1·3
	164·0	70	0·118	0·058	"	0·67	1·9
	166·0	140	0·095	0·010	"	0·60	1·8
	168·0	60	0·120	0·010	"	0·78	1·9
	170·0	90	0·167	0·035	"	0·67	1·5
170·0	172·0	80	0·132	0·027	"	0·86	1·8
	174·0	70	0·185	0·059	"	0·43	1·1
	176·0	100	0·021	0·030	"	0·14	1·0
	178·0	70	0·026	0·039	"	0·10	0·9
	180·0	90	0·039	0·100	"	0·10	1·0
180·0	182·0	90	0·048	0·110	"	0·12	1·1
	184·0	110	0·054	0·136	"	0·14	1·0
	186·0	60	0·045	0·112	"	0·16	1·2
	187·9	80	0·040	0·070	"	0·15	1·3
	190·0	30	0·009	0·014	"	0·08	0·1
190·0	195·0	20	0·010	0·020	"	0·07	0·1
	200·0	30	0·042	0·047	"	0·09	0·1
	205·0	30	0·014	0·009	"	0·05	0·1
	210·0	20	0·011	0·005	"	0·07	0·1
	215·0	20	0·008	0·008	"	0·07	0·1
	220·0	20	0·004	0·006	"	0·08	0·1
220·0	225·0	30	0·010	0·017	"	0·08	<0·1
	230·0	20	0·015	0·012	"	0·08	"
	235·0	10	0·004	0·008	"	0·08	"
	240·0	20	0·004	0·004	"	0·10	0·1
	245·0	40	0·006	0·011	"	0·12	0·1
	250·0	20	0·014	0·017	"	0·10	<0·1
250·0	255·0	30	0·013	0·022	"	0·10	"
	260·0	20	0·002	0·007	"	0·09	0·1
	265·0	20	0·009	0·018	"	0·09	0·1
	270·0	20	0·004	0·007	"	0·10	<0·1
	275·0	20	0·013	0·013	"	0·11	"
	280·0	20	0·024	0·040	"	0·15	0·1
	285·0	40	0·015	0·018	"	0·11	0·1
	290·0	30	0·007	0·011	"	0·13	0·1
	295·0	20	0·002	0·006	"	0·12	<0·1
	298·3	40	0·007	0·006	"	0·11	"
	300·0	120	0·030	0·046	"	0·29	"
300·0	305·0	140	0·010	0·015	"	0·09	"
	310·0	30	0·002	0·003	"	0·11	0·1
	315·0	20	0·006	0·012	"	0·10	<0·1
	320·0	70	0·021	0·041	"	0·12	"
	325·0	60	0·006	0·016	"	0·11	0·1
	330·0	80	0·003	0·003	"	0·15	<0·1
	335·0	50	0·001	0·003	"	0·10	"
	340·0	30	0·008	0·007	"	0·13	"
	345·0	50	0·004	0·004	"	0·13	"
	350·0	20	0·004	0·012	"	0·13	"

DRILL SECTION
LINE 18



MT. LYELL - G.O.D.L. JOINT VENTURE
E.L. 9/66

BEATRICE GRID
MT SEDGWICK ANOMALY ZONE
DRILLING PROFILE LINE 18N
D.D.H. MS4

Revision

Map Number 10/502

Scale : 1:1000 | Date : 24·10·1979
Drawn by : M. HUTTON | Draftsman : H.D.J

FIG: 61

5 cm

1:1,000

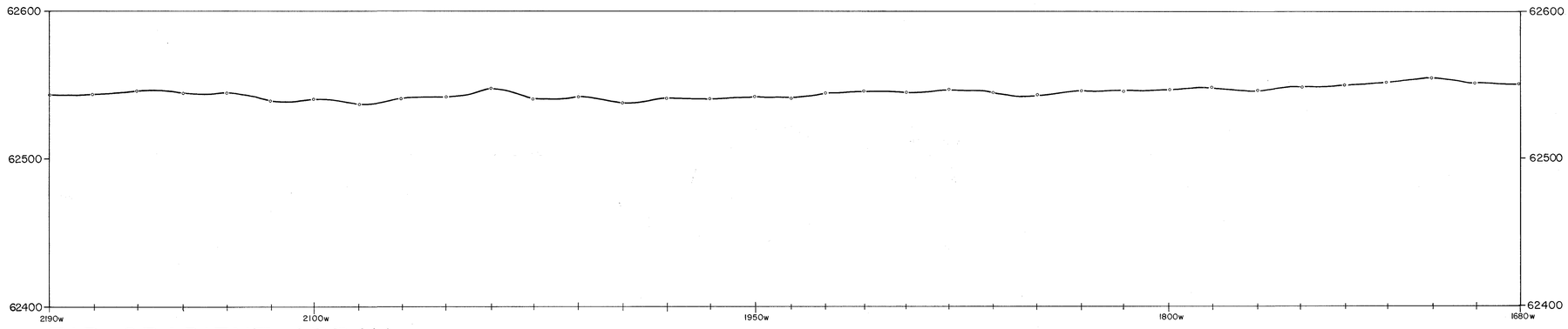
BEATRICE GRID

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

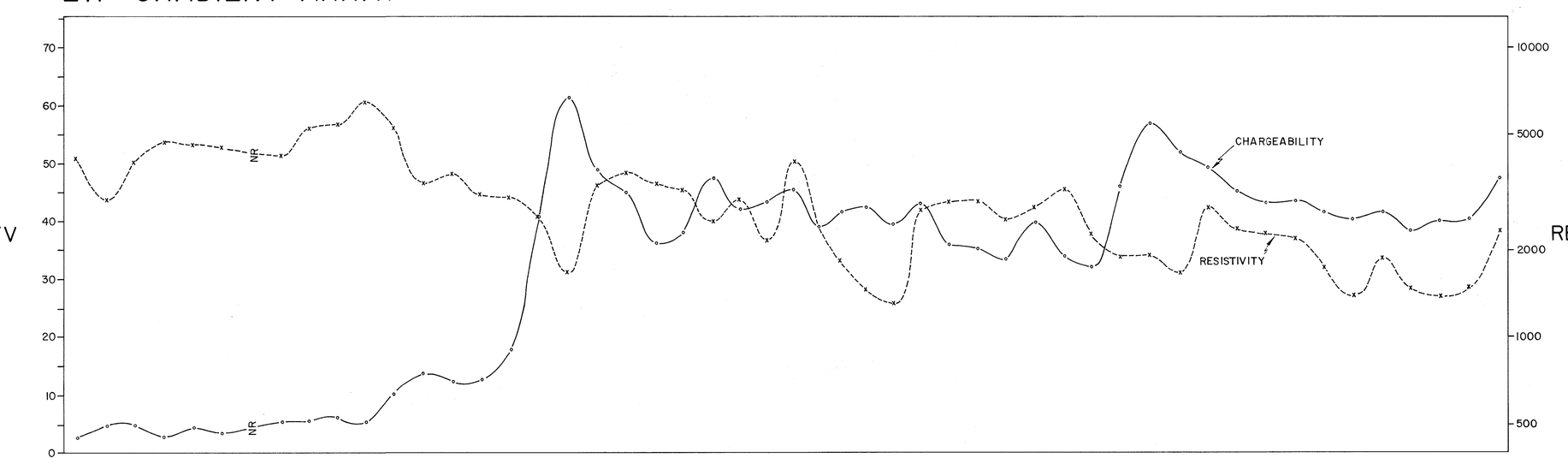
39

COMPOSITE LINE PROFILE
LINE 18N; D.D.H. MS 5

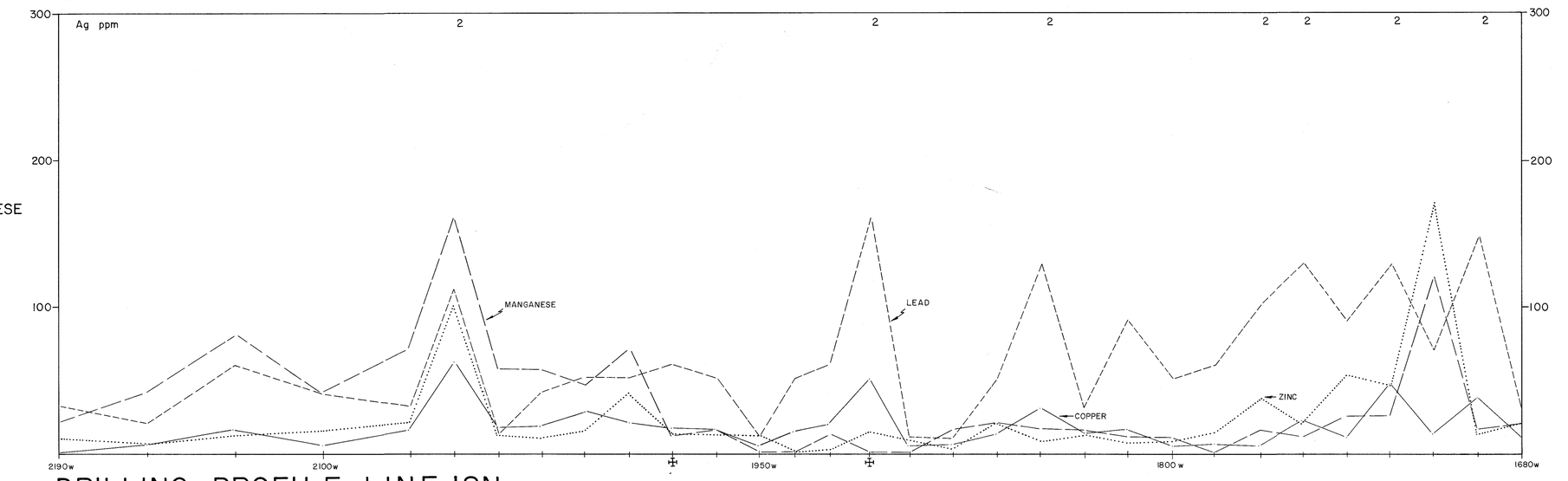
GROUND MAGNETICS



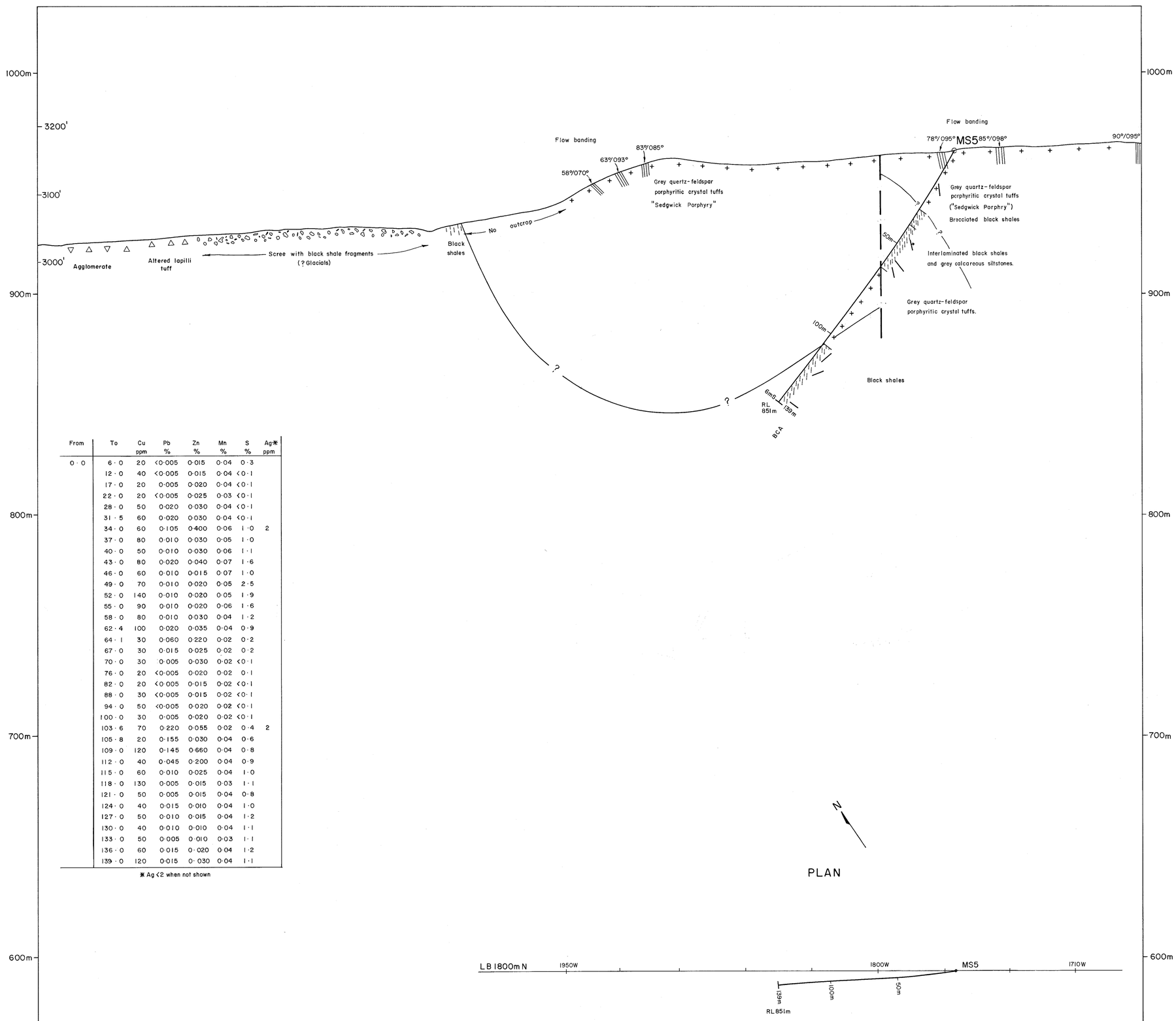
EIP GRADIENT ARRAY



SOIL GEOCHEMISTRY



DRILLING PROFILE LINE 18N



From	To	Cu ppm	Pb %	Zn %	Mn %	S %	Ag* ppm
0·0	6·0	20	<0·005	0·015	0·04	0·3	
	12·0	40	<0·005	0·015	0·04	<0·1	
	17·0	20	0·005	0·020	0·04	<0·1	
	22·0	20	<0·005	0·025	0·03	<0·1	
	28·0	50	0·020	0·030	0·04	<0·1	
	31·5	60	0·020	0·030	0·04	<0·1	
	34·0	60	0·105	0·400	0·06	1·0	2
	37·0	80	0·010	0·030	0·05	1·0	
	40·0	50	0·010	0·030	0·06	1·1	
	43·0	80	0·020	0·040	0·07	1·6	
	46·0	60	0·010	0·015	0·07	1·0	
	49·0	70	0·010	0·020	0·05	2·5	
	52·0	140	0·010	0·020	0·05	1·9	
	55·0	90	0·010	0·020	0·06	1·6	
	58·0	80	0·010	0·030	0·04	1·2	
	62·4	100	0·020	0·035	0·04	0·9	
	64·1	30	0·060	0·220	0·02	0·2	
	67·0	30	0·015	0·025	0·02	0·2	
	70·0	30	0·005	0·030	0·02	<0·1	
	76·0	20	<0·005	0·020	0·02	0·1	
	82·0	20	<0·005	0·015	0·02	<0·1	
	88·0	30	<0·005	0·015	0·02	<0·1	
	94·0	50	<0·005	0·020	0·02	<0·1	
	100·0	30	0·005	0·020	0·02	<0·1	
	103·6	70	0·220	0·055	0·02	0·4	2
	105·8	20	0·155	0·030	0·04	0·6	
	109·0	120	0·145	0·660	0·04	0·8	
	112·0	40	0·045	0·200	0·04	0·9	
	115·0	60	0·010	0·025	0·04	1·0	
	118·0	130	0·005	0·015	0·03	1·1	
	121·0	50	0·005	0·015	0·04	0·8	
	124·0	40	0·015	0·010	0·04	1·0	
	127·0	50	0·010	0·015	0·04	1·2	
	130·0	40	0·010	0·010	0·04	1·1	
	133·0	50	0·005	0·010	0·03	1·1	
	136·0	60	0·015	0·020	0·04	1·2	
	139·0	120	0·015	0·030	0·04	1·1	

* Ag <2 when not shown

N

PLAN

MT. LYELL - G.O.D.L. JOINT VENTURE
E.L. 9/66

BEATRICE GRID
DRILLING PROFILE LINE 18N
D.D.H. MS5

5 cm

Revision

Map Number 10/508

Scale : 1:1000 | Date : 22·1·1980
Drawn by : M. HUTTON | Draftsman : H.D.J.

FIG:62

1:1,000

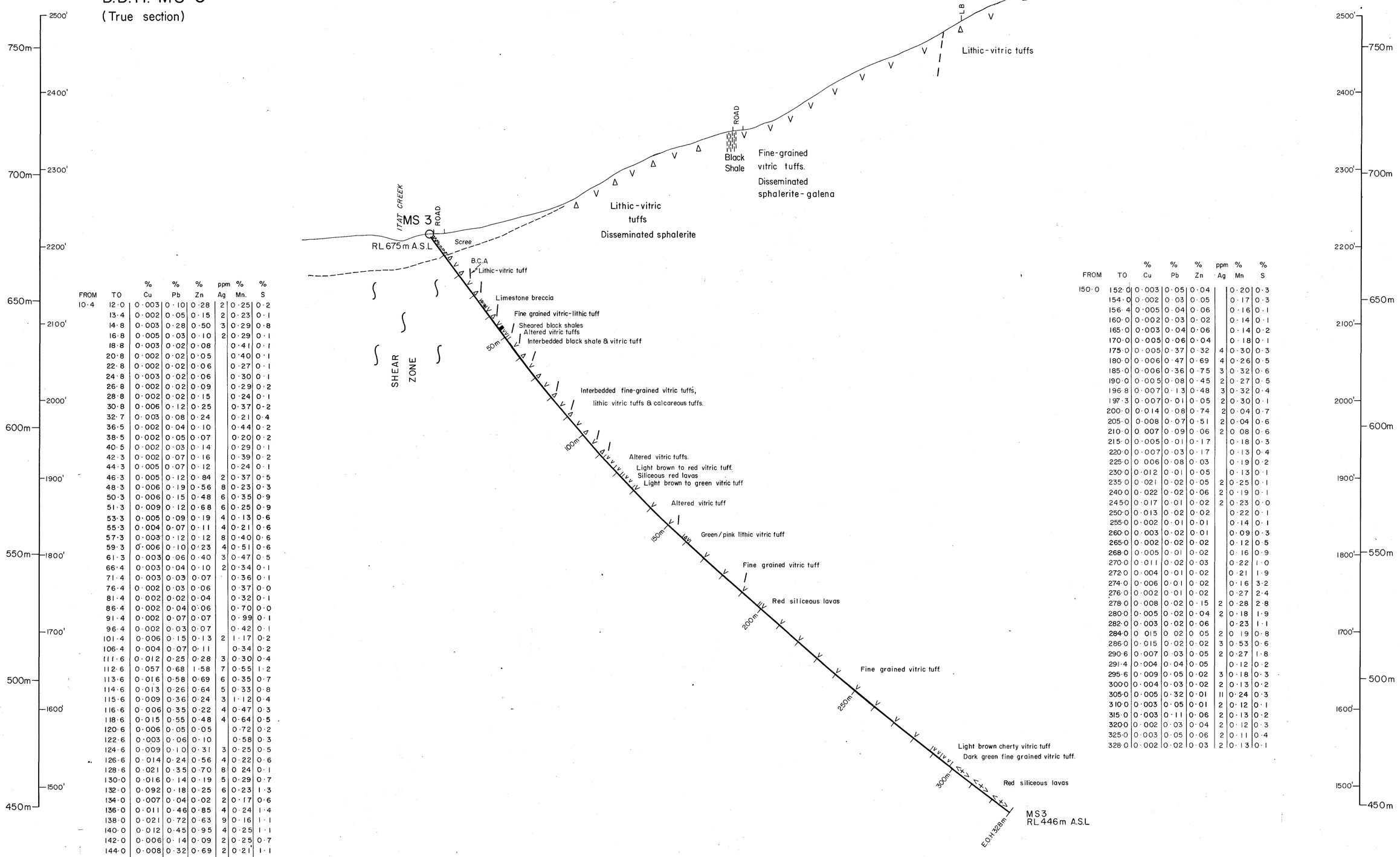
BEATRICE GRID

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

40

COMPOSITE DRILL SECTIONS
MS 2; MS 3

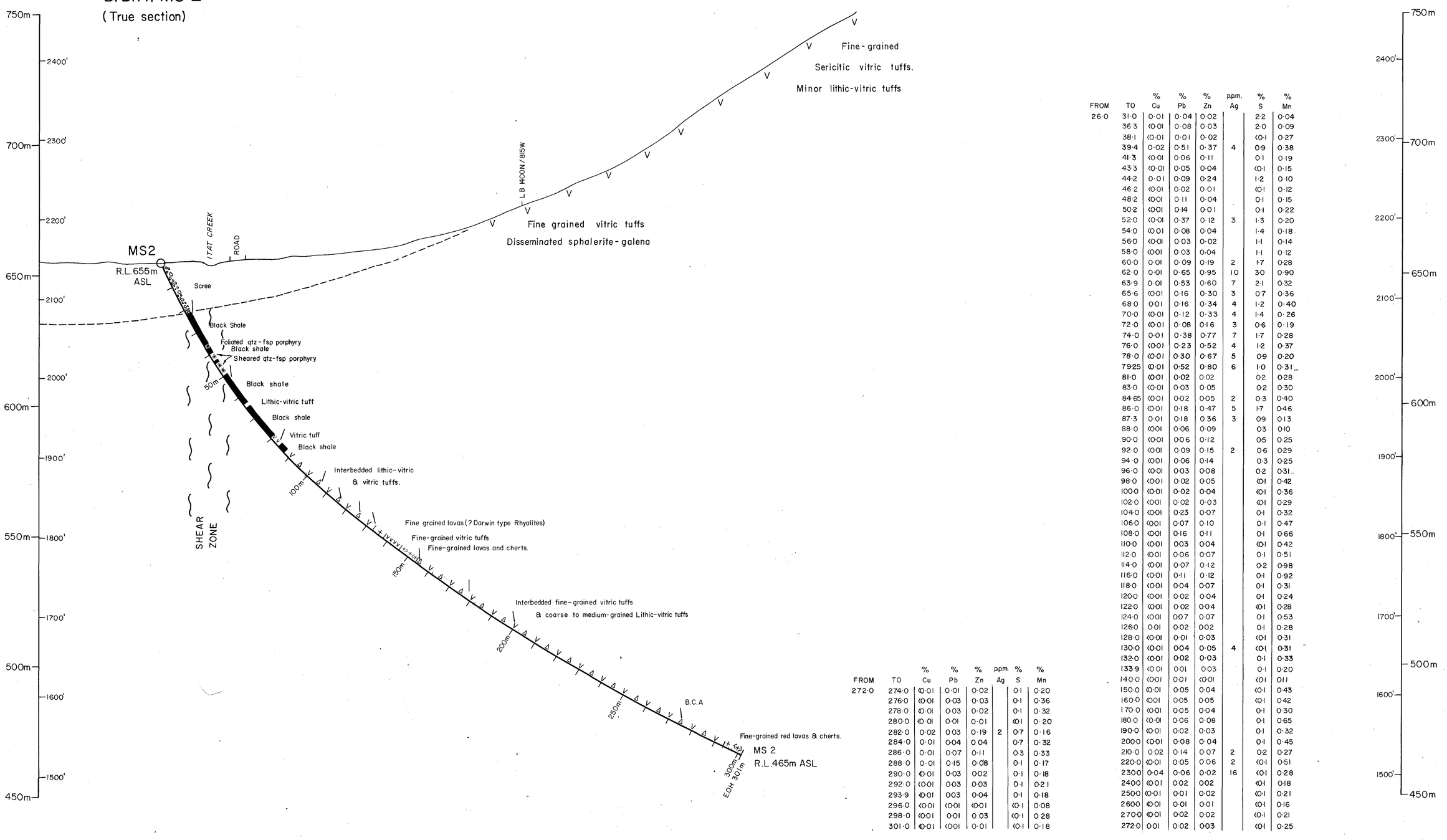
DRILLING PROFILE
D.D.H. MS 3
(True section)



FROM	TO	% Cu	% Pb	% Zn	ppm Ag	% Mn.	% S
10·4	12·0	0·003	0·10	0·28	2	0·25	0·2
	13·4	0·002	0·05	0·15	2	0·23	0·1
	14·8	0·003	0·28	0·50	3	0·29	0·8
	16·8	0·005	0·03	0·10	2	0·29	0·1
	18·8	0·003	0·02	0·08		0·41	0·1
	20·8	0·002	0·02	0·05		0·40	0·1
	22·8	0·002	0·02	0·06		0·27	0·1
	24·8	0·003	0·02	0·06		0·30	0·1
	26·8	0·002	0·02	0·09		0·29	0·2
	28·8	0·002	0·02	0·15		0·24	0·1
	30·8	0·006	0·12	0·25		0·37	0·2
	32·7	0·003	0·08	0·24		0·21	0·4
	36·5	0·002	0·04	0·10		0·44	0·2
	38·5	0·002	0·05	0·07		0·20	0·2
	40·5	0·002	0·03	0·14		0·29	0·1
	42·3	0·002	0·07	0·16		0·39	0·2
	44·3	0·005	0·07	0·12		0·24	0·1
	46·3	0·005	0·12	0·84	2	0·37	0·5
	48·3	0·006	0·19	0·56	8	0·23	0·3
	50·3	0·006	0·15	0·48	6	0·35	0·9
	51·3	0·009	0·12	0·68	6	0·25	0·9
	53·3	0·005	0·09	0·19	4	0·13	0·6
	55·3	0·004	0·07	0·11	4	0·21	0·6
	57·3	0·003	0·12	0·12	8	0·40	0·6
	59·3	0·006	0·10	0·23	4	0·51	0·6
	61·3	0·003	0·06	0·40	3	0·47	0·5
	66·4	0·003	0·04	0·10	2	0·34	0·1
	71·4	0·003	0·03	0·07		0·36	0·1
	76·4	0·002	0·03	0·06		0·37	0·0
	81·4	0·002	0·02	0·04		0·32	0·1
	86·4	0·002	0·04	0·06		0·70	0·0
	91·4	0·002	0·07	0·07		0·99	0·1
	96·4	0·002	0·03	0·07		0·42	0·1
	101·4	0·006	0·15	0·13	2	1·17	0·2
	106·4	0·004	0·07	0·11		0·34	0·2
	111·6	0·012	0·25	0·28	3	0·30	0·4
	112·6	0·057	0·68	1·58	7	0·55	1·2
	113·6	0·016	0·58	0·69	6	0·35	0·7
	114·6	0·013	0·26	0·64	5	0·33	0·8
	115·6	0·009	0·36	0·24	3	1·12	0·4
	116·6	0·006	0·35	0·22	4	0·47	0·3
	118·6	0·015	0·55	0·48	4	0·64	0·5
	120·6	0·006	0·05	0·05		0·72	0·2
	122·6	0·003	0·06	0·10		0·58	0·3
	124·6	0·009	0·10	0·31	3	0·25	0·5
	126·6	0·014	0·24	0·56	4	0·22	0·6
	128·6	0·021	0·35	0·70	8	0·24	0·1
	130·0	0·016	0·14	0·19	5	0·29	0·7
	132·0	0·092	0·18	0·25	6	0·23	1·3
	134·0	0·007	0·04	0·02	2	0·17	0·6
	136·0	0·011	0·46	0·85	4	0·24	1·4
	138·0	0·021	0·72	0·63	9	0·16	1·1
	140·0	0·012	0·45	0·95	4	0·25	1·1
	142·0	0·006	0·14	0·09	2	0·25	0·7
	144·0	0·008	0·32	0·69	2	0·21	1·1
	146·0	0·007	0·72	0·81	4	0·25	1·0
	148·0	0·007	0·32	0·65	2	0·23	0·8
	150·0	0·007	0·09	0·63	2	0·19	0·7

FROM	TO	% Cu	% Pb	% Zn	ppm Ag	% S	% Mn
150·0	152·0	0·003	0·05	0·04		0·20	0·3
	154·0	0·002	0·03	0·05		0·17	0·3
	156·4	0·005	0·04	0·06		0·16	0·1
	160·0	0·002	0·03	0·02		0·14	0·1
	165·0	0·003	0·04	0·06		0·14	0·2
	170·0	0·005	0·06	0·04		0·18	0·1
	175·0	0·005	0·37	0·32	4	0·30	0·3
	180·0	0·006	0·47	0·69	4	0·26	0·5
	185·0	0·006	0·36	0·75	3	0·32	0·6
	190·0	0·005	0·08	0·45	2	0·27	0·5
	196·8	0·007	0·13	0·48	3	0·32	0·4
	197·3	0·007	0·01	0·05	2	0·30	0·1
	200·0	0·014	0·08	0·74	2	0·04	0·7
	205·0	0·008	0·07	0·51	2	0·04	0·6
	210·0	0·007	0·09	0·06	2	0·08	0·6
	215·0	0·005	0·01	0·17		0·18	0·3
	220·0	0·007	0·03	0·17		0·13	0·4
	225·0	0·006	0·08	0·03		0·19	0·2
	230·0	0·012	0·01	0·05		0·13	0·1
	235·0	0·021	0·02	0·05	2	0·25	0·1
	240·0	0·022	0·02	0·06	2	0·19	0·1
	245·0	0·017	0·01	0·02	2	0·23	0·0
	250·0	0·013	0·02	0·02		0·22	0·1
	255·0	0·002	0·01	0·01		0·14	0·1
	260·0	0·003	0·02	0·01		0·09	0·3
	265·0	0·002	0·02	0·02		0·12	0·5
	268·0	0·005	0·01	0·02		0·16	0·9
	270·0	0·011	0·02	0·03		0·22	1·0
	272·0	0·004	0·01	0·02		0·21	1·9
	274·0	0·006	0·01	0·02		0·16	3·2
	276·0	0·002	0·01	0·02		0·27	2·4
	278·0	0·008	0·02	0·15	2	0·28	2·8
	280·0	0·005	0·02	0·04	2	0·18	1·9
	282·0	0·003	0·02	0·06		0·23	1·1
	284·0	0·015	0·02	0·05	2	0·19	0·8
	286·0	0·015	0·02	0·02	3	0·53	0·6
	290·6	0·007	0·03	0·05	2	0·27	1·8
	291·4	0·004	0·04	0·05		0·12	0·2
	295·6	0·009	0·05	0·02	3	0·18	0·3
	300·0	0·004	0·03	0·02	2	0·13	0·2
	305·0	0·005	0·32	0·01	11	0·24	0·3
	310·0	0·003	0·05	0·01	2	0·12	0·1
	315·0	0·003	0·11	0·06	2	0·13	0·2
	320·0	0·002	0·03	0·04	2	0·12	0·3
	325·0	0·003	0·05	0·06	2	0·11	0·4
	328·0	0·002	0·02	0·03	2	0·13	0·1

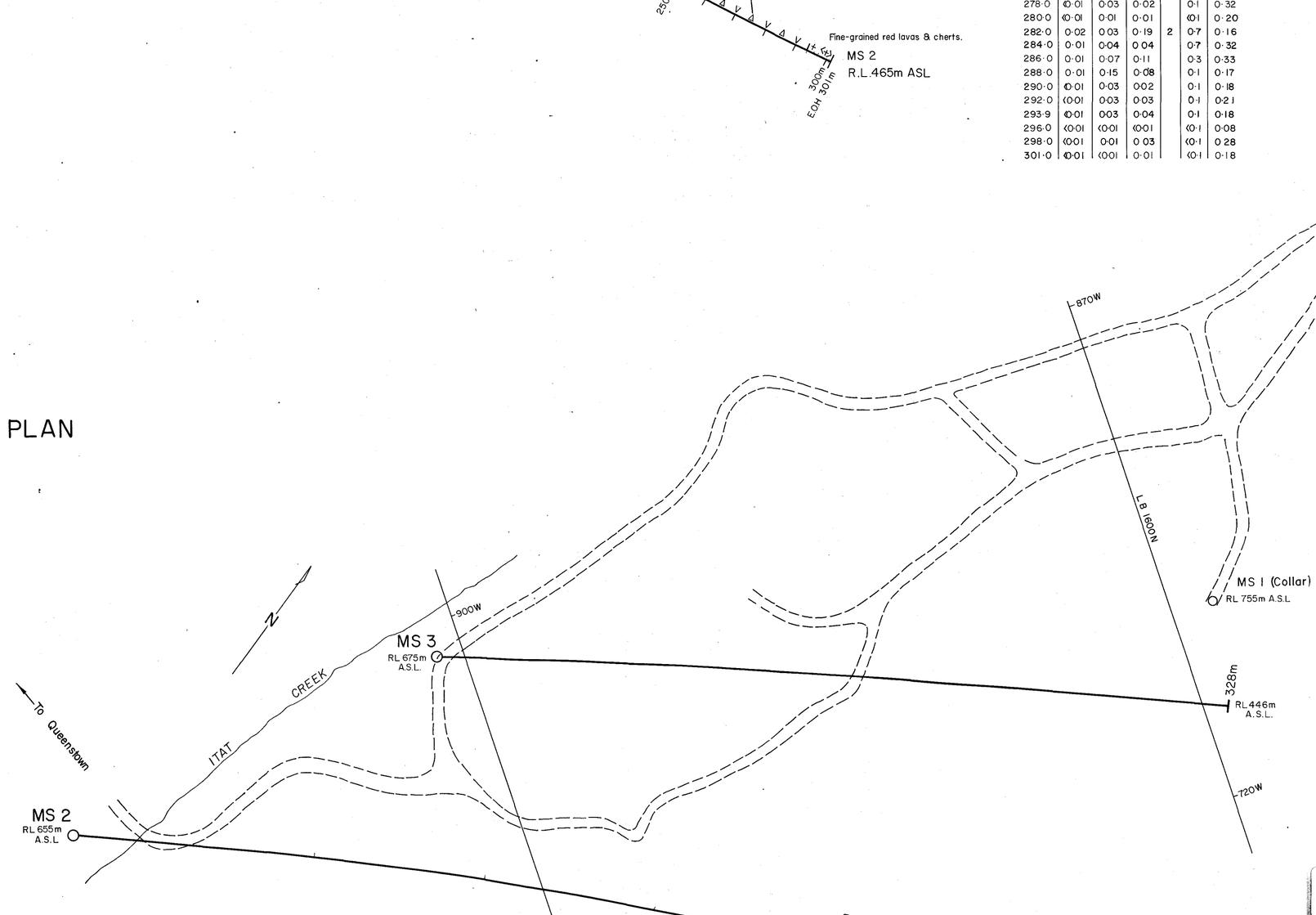
DRILLING PROFILE
D.D.H. MS 2
(True section)



FROM	TO	% Cu	% Pb	% Zn	p.p.m. Ag	% S	% Mn
26·0	31·0	0·01	0·04	0·02		2·2	0·04
	36·3	<0·01	0·08	0·03		2·0	0·09
	38·1	<0·01	0·01	0·02		<0·1	0·27
	39·4	0·02	0·51	0·37	4	0·9	0·38
	41·3	<0·01	0·06	0·11		0·1	0·19
	43·3	<0·01	0·05	0·04		<0·1	0·15
	44·2	0·01	0·09	0·24		1·2	0·10
	46·2	<0·01	0·02	0·01		<0·1	0·12
	48·2	<0·01	0·11	0·04		0·1	0·15
	50·2	<0·01	0·14	0·01		0·1	0·22
	52·0	<0·01	0·37	0·12	3	1·3	0·20
	54·0	<0·01	0·08	0·04		1·4	0·18
	56·0	<0·01	0·03	0·02		1·1	0·14
	58·0	<0·01	0·03	0·04		1·1	0·12
	60·0	0·01	0·09	0·19	2	1·7	0·28
	62·0	0·01	0·65	0·95	10	3·0	0·90
	63·9	0·01	0·53	0·60	7	2·1	0·32
	65·6	<0·01	0·16	0·30	3	0·7	0·36
	68·0	0·01	0·16	0·34	4	1·2	0·40
	70·0	<0·01	0·12	0·33	4	1·4	0·26
	72·0	<0·01	0·08	0·16	3	0·6	0·19
	74·0	0·01	0·38	0·77	7	1·7	0·28
	76·0	<0·01	0·23	0·52	4	1·2	0·37
	78·0	<0·01	0·30	0·67	5	0·9	0·20
	79·25	<0·01	0·52	0·80	6	1·0	0·31
	81·0	<0·01	0·02	0·02		0·2	0·28
	83·0	<0·01	0·03	0·05		0·2	0·30
	84·65	<0·01	0·02	0·05	2	0·3	0·40
	86·0	<0·01	0·18	0·47	5	1·7	0·46
	87·3	0·01	0·18	0·36	3	0·9	0·13
	88·0	<0·01	0·06	0·09		0·3	0·10
	90·0	<0·01	0·06	0·12		0·5	0·25
	92·0	<0·01	0·09	0·15	2	0·6	0·29
	94·0	<0·01	0·06	0·14		0·3	0·25
	96·0	<0·01	0·03	0·08		0·2	0·31
	98·0	<0·01	0·02	0·05		<0·1	0·42
	100·0	<0·01	0·02	0·04		<0·1	0·36
	102·0	<0·01	0·02	0·03		<0·1	0·29
	104·0	<0·01	0·23	0·07		0·1	0·32
	106·0	<0·01	0·07	0·10		0·1	0·47
	108·0	<0·01	0·16	0·11		0·1	0·66
	110·0	<0·01	0·03	0·04		<0·1	0·42
	112·0	<0·01	0·06	0·07		0·1	0·51
	114·0	<0·01	0·07	0·12		0·2	0·98
	116·0	<0·01	0·11	0·12		0·1	0·92
	118·0	<0·01	0·04	0·07		0·1	0·31
	120·0	<0·01	0·02	0·04		0·1	0·24
	122·0	<0·01	0·02	0·04		<0·1	0·28
	124·0	<0·01	0·07	0·07		0·1	0·53
	126·0	0·01	0·02	0·02		0·1	0·28
	128·0	<0·01	0·01	0·03		<0·1	0·31
	130·0	<0·01	0·04	0·05	4	<0·1	0·31
	132·0	<0·01	0·02	0·03		0·1	0·33
	133·9	<0·01	0·01	0·03		0·1	0·20
	140·0	<0·01	0·01	<0·01		<0·1	0·11
	150·0	<0·01	0·05	0·04		<0·1	0·43
	160·0	<0·01	0·05	0·05		<0·1	0·42
	170·0	<0·01	0·05	0·04		0·1	0·30
	180·0	<0·01	0·06	0·08		0·1	0·65
	190·0	<0·01	0·02	0·03		0·1	0·32
	200·0	<0·01	0·08	0·04		0·1	0·45
	210·0	0·02	0·14	0·07	2	0·2	0·27
	220·0	<0·01	0·05	0·06	2	<0·1	0·51
	230·0	<0·01	0·04	0·06	16	<0·1	0·28
	240·0	<0·01	0·02	0·02		<0·1	0·18
	250·0	<0·01	0·01	0·02		<0·1	0·21
	260·0	<0·01	0·01	0·01		<0·1	0·16
	270·0	<0·01	0·02	0·02		<0·1	0·21
	272·0	0·01	0·02	0·03		<0·1	0·25

FROM	TO	% Cu	% Pb	% Zn	ppm Ag	% S	% Mn
272·0	274·0	<0·01	0·01	0·02		0·1	0·20
	276·0	<0·01	0·03	0·03		0·1	0·36
	278·0	<0·01	0·03	0·02		0·1	0·32
	280·0	<0·01	0·01	0·01		<0·1	0·20
	282·0	0·02	0·03	0·19	2	0·7	0·16
	284·0	0·01	0·04	0·04		0·7	0·32
	286·0	0·01	0·07	0·11		0·3	0·33
	288·0	0·01	0·15	0·08		0·1	0·17
	290·0	<0·01	0·03	0·02		0·1	0·18
	292·0	<0·01	0·03	0·03		0·1	0·21
	293·9	<0·01	0·03	0·04		0·1	0·18
	296·0	<0·01	<0·01	<0·01		<0·1	0·08
	298·0	<0·01	0·01	0·03		<0·1	0·28
	301·0	<0·01	<0·01	0·01		<0·1	0·18

PLAN



5 cm

FIG. 44

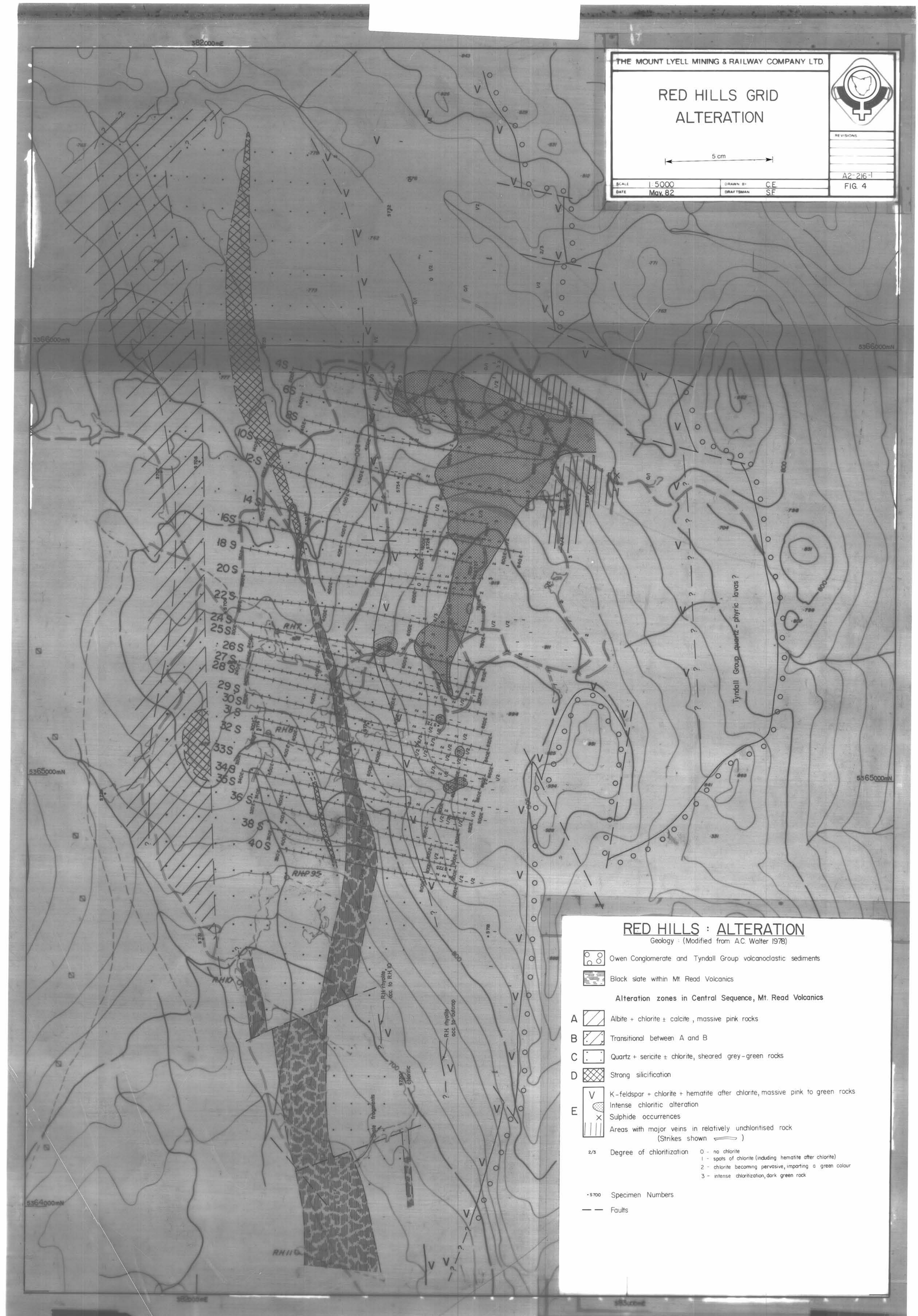
MT. LYELL - G.O.D.L. JOINT VENTURE E.L. 9/66	DRAWN: M. HUTTON DRAFTING: H.D.J.
BEATRICE GRID MT. SEDGWICK ANOMALY ZONE DRILLING PROFILES D.D.H - MS 2 & 3	CHECKED: DATE: 1-6-1979 SCALE: 1:1000 Map Number: 10/505

1:5,000

RED HILLS

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

ALTERATION PATTERNS



THE MOUNT LYELL MINING & RAILWAY COMPANY LTD

RED HILLS GRID
ALTERATION

5 cm

SCALE	1:5000	DRAWN BY	C.E.
DATE	May 82	DRAFTSMAN	S.F.

REVISIONS

A2-216-1
FIG. 4

RED HILLS : ALTERATION

Geology : (Modified from A.C. Walter 1978)

- Owen Conglomerate and Tyndall Group volcanoclastic sediments
- Black slate within Mt Read Volcanics

Alteration zones in Central Sequence, Mt. Read Volcanics

- A — Albite + chlorite ± calcite, massive pink rocks
- B — Transitional between A and B
- C — Quartz + sericite ± chlorite, sheared grey-green rocks
- D — Strong silicification
- E — K-feldspar + chlorite + hematite after chlorite, massive pink to green rocks
  - Intense chloritic alteration
  - Sulphide occurrences
  - Areas with major veins in relatively unchloritised rock (Strikes shown ⟋)

2/3 Degree of chloritization
- 0 - no chlorite
- 1 - spots of chlorite (including hematite after chlorite)
- 2 - chlorite becoming pervasive, imparting a green colour
- 3 - intense chloritization, dark green rock

•5700 Specimen Numbers

— — Faults

RED HILLS

GEOLOGY + GEOPHYSICAL ANOMALIES

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

LEGEND

ORDOVICIAN

- OWEN CONGLOMERATE.

CAMBRIAN

- VOLCANOCLASTIC SEDIMENTS (JUKES)
- QUARTZ PORPHYRITIC LAVAS.
- FINE - MEDIUM GRAINED FELDSPAR PORPHYRITIC FELSIC CRYSTAL TUFF.
- FELDSPAR (CHLORITE) PORPHYRITIC MEDIUM - FINE GRAINED FELSIC (MINOR ANDESITIC) LAVAS.
- SHEARED ALTERED CHLORITIC CONTACT ZONE. (HENTY FAULT ZONE - NORTH EXTENSION)
- FELDSPAR PORPHYRITIC FELSIC LAVAS.
- AGGLOMERATES.
- MEDIUM - COARSE GRAINED CRYSTAL LITHIC TUFFS & INTERBEDDED FINE GRAINED SILIC. LAVAS.
- FINE GRAINED PINK FELSIC LAVA.
- ×××× CHARGEABILITY HIGH.

5 cm

LINE 24 SOUTH.

FIG. 24

MT. LYELL - G.O.D.L. JOINT VENTURE

MT. TYNDALL E.L. 9/66
RED HILLS NORTH GRID
GEOLOGY & E.I.P. ANOMALIES

DRAWN: A.C.W.
CHECKED:
DATE: 16:10:'78
SCALE: 1:6000

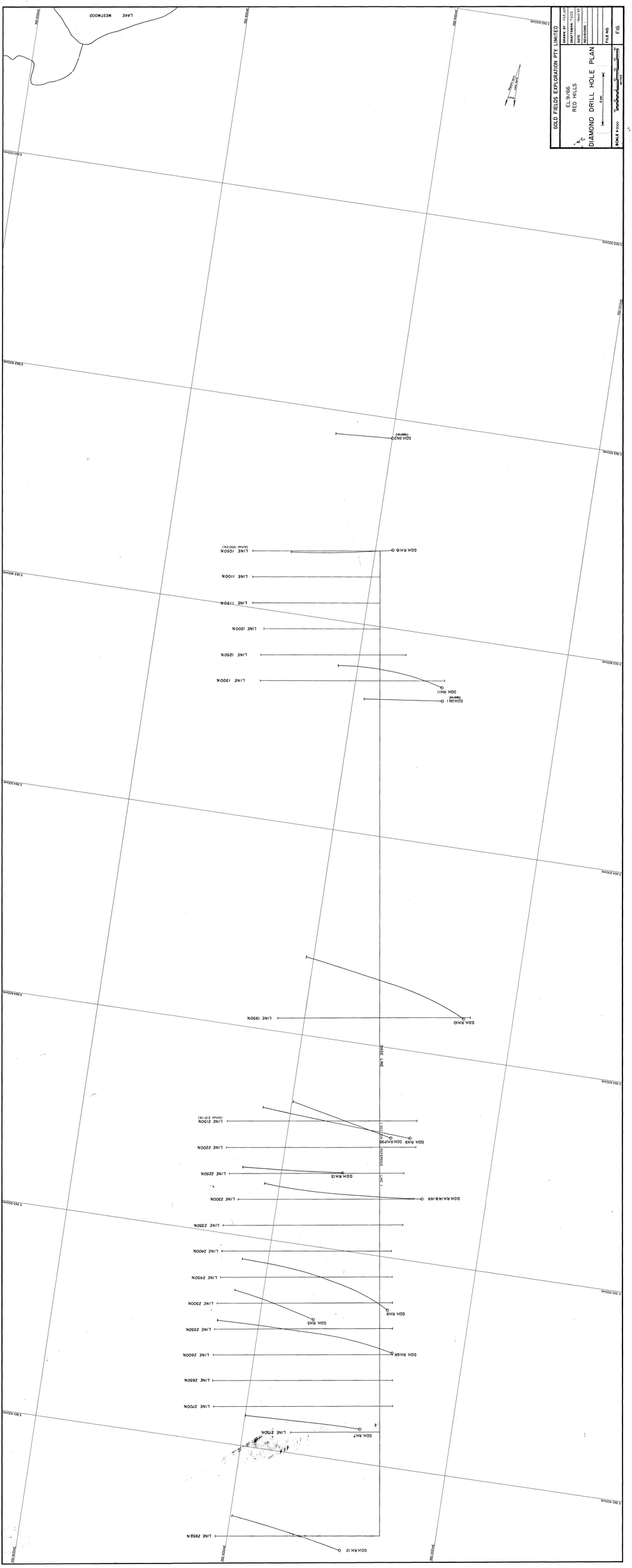
1:2,000

RED HILLS

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

TYI

DRILL HOLE LOCALITY PLAN



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

RED HILLS
1:2400

GEOLOGY

THE CONSOLIDATED SYNDICATE

RED HILLS AREA

GEOLOGICAL MAP

MAP 6

DRAWN: R.P.
TRACED: R.G.W.
CHECKED: [illegible]
DATE: 21-1-71
SCALE: 1" = 200'

MAPPED BY: R. POSTOCK.

5 cm

LEGEND

- SWAMP AND SOIL COVERAGE.
- CONGLOMERATE SCREE.
- OWEN CONGLOMERATE.
- JUKES BRECCIA.
- BLACK SHALES - SLIGHTLY PYRITIC AND INTERBEDDED WITH TUFFS AND GREY SILTSTONES.
- ACID VOLCANICS - SHEARED CONTAINING ABUNDANT HEMATITE, CHLORITE, MAGNETITE WITH PYRITE AND CHALCO.
- QUARTZ SERICITE SCHIST - POSSIBLY VERY SHEARED COARSE ACID TUFF.
- QUARTZ PORPHYRY.
- HEMATITIC ACID VOLCANICS - MAUVE TO DARK RED - HEMATITE AND MAGNETITE IN VEINS AND NODULES - LITTLE SULPHIDE SEEN ASSOCIATED WITH THIS.
- ACID VOLCANICS - INCLUDING VERY FINE QUARTZ → MEDIUM GRAINED FELDSPAR AND QUARTZ PORPHYRY LENSES. THESE ROCKS NOT GENERALLY AFFECTED BY SHEARING.
- TUFFS AND AGGLOMERATE - BOTH BEING SHEARED.
- TUFF - FINE GRAINED - GREY TO ORANGE (WITH PEPPER AND SALT APPEARANCE)
- AGGLOMERATE - BLOCKS OF FINE PINK ACID VOLCANICS <1/2" MATRIX, INDETERMINATE AND VERY CHLORITIC WITH SMALL PINK PARTICLES WHICH MAY POSSIBLY BE FELDSPAR
- HEMATITE, CHLORITE, MAGNETITE CONTAINING PYRITE AND CHALCO.
- ADIT.
- COSTEAN.
- GEOLOGICAL BOUNDARY.
- DIAMOND DRILL HOLES.

TRUE NORTH
MAGNETIC NORTH

RED HILLS Nº1
RED HILLS Nº2
RED HILLS Nº3
RDD

POSSIBLE CHERT BEDS

INTERBEDDED ACID VOLCANICS PLUS TUFFS

Small Scattered Adits Pit

Hematite + chlorite + magnetite + chalcopyrite + pyrite

Hematite + chlorite + magnetite + pyrite

Chlorite Nodules

Hematite + chlorite + magnetite + pyrite

Chlorite + hematite + magnetite + pyrite

Chlorite + hematite + magnetite + pyrite

Chlorite + hemat

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

1:5,000 RED HILLS TYNDALL PROJECT GEOPHYSICAL ANOMALIES

381 000mE
382 000mE
383 000mE
5 367 000mN.
5 366 000mN.
5 365 000mN.
5 364 000mN.
5 363 000mN.
12N.
16N.
8N.
4N.
4S.
8S.
12S.
16S.
20S.
24S.
28S.
32S.
36S.
40S.
44S.
48S.
52S.
54S.
64S.
68S.
72S.
76S.
80S.
74S.
88S.
92S.
98S.
Axis of weak IP chargeability < 20 m sec.
DISCONTINUITY
ELECTRICAL
IN
3E
00
RHP 94
R.H. 4
2N
R.H.12
2950N
R.H.2
R.H.1
4S
R.H.7
2750N
8S
2700N
2650N
2E
1E
12S
2600N
1W
R.H.6R
2550N
R.H.5
6S
2500N
R.H.8
R.H.3
2450N
20S
2400N
2350N
2W
2300N.
24S.
2250N.
R.H.14 & 14R
R.H.13
2200N.
2150N.
28S.
R.H.P. 95
R.H.9
40S.
32S.
1950N.
R.H.10
36S.
48S.
40S.
44S.
56S.
DISCONTINUITY
ELECTRICAL
52S.
54S.
64S.
G.N.1
(approx.)
1300 N.
R.H.11
1250 N.
68S.
1200 N.
1150N.
1100 N.
62S.
72S.
1050N.
G.O.D. - Mt. Lyell Grid
1982-83
R.H.15
66S.
70S.
80S.
G.N.2
(approx.)
74S.
78S.
86S.
?
R.T.E. - E.Z. Grid
Idealized
Location Approximate
1957 - 59
Mt. Lyell Imperial grid
(1969-71)
92S.
98S.
Mt. Lyell
Imperial Grid
1976 - 77 (extended)
H.E.C. TRANSMISSION LINE
LAKE
WESTWOOD

LEGEND

- GRAVITY (residual bouger) ≥ 0·2 mgal (RTAE 1958-59)
- E.M. (Turam) ≥ 6° phase difference (RTAE 1957-59)
- I.P. (pole-dipole) RESISTIVITY ≤ 500 ohm m. (CGG 1970-71)
- I.P. (pole-dipole) CHARGEABILITY ≥ 40m. sec. (CGG 1970-71)
- I.P. (gradient array) RESISTIVITY approx. ≤ 1000ohm m (Scintrex 1977)
- I.P. (gradient array) CHARGEABILITY ≥ 40m. sec. (Scintrex 1977)
- MAGNETICS (vertical field) ≥800γ (Mt. Lyell 1969-71) (RTAE 1958-59)

GOLD FIELDS EXPLORATION PTY. LIMITED

E.L.9/66
RED HILLS

GEOPHYSICS COMPILATION

ANOMALIES

DRAWN BY : F.G.F.
DRAFTSMAN: T.G.D.S.
DATE : April '83
REVISIONS :
FILE NO.

SCALE 1:5000 — 100 50 0 50 100 150 200 METRES

FIG. 4a

5 cm

1:5,000

RED HILLS

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

ACCESS — BASE

THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

RED HILLS GRID

5 cm

REVISIONS:

A2-216-

SCALE	1:5000	DRAWN BY	C.E.
DATE	May 82	DRAFTSMAN	S.F.

382000mE
383000mE
5366000mN
5365000mN
5364000mN

1:1,000

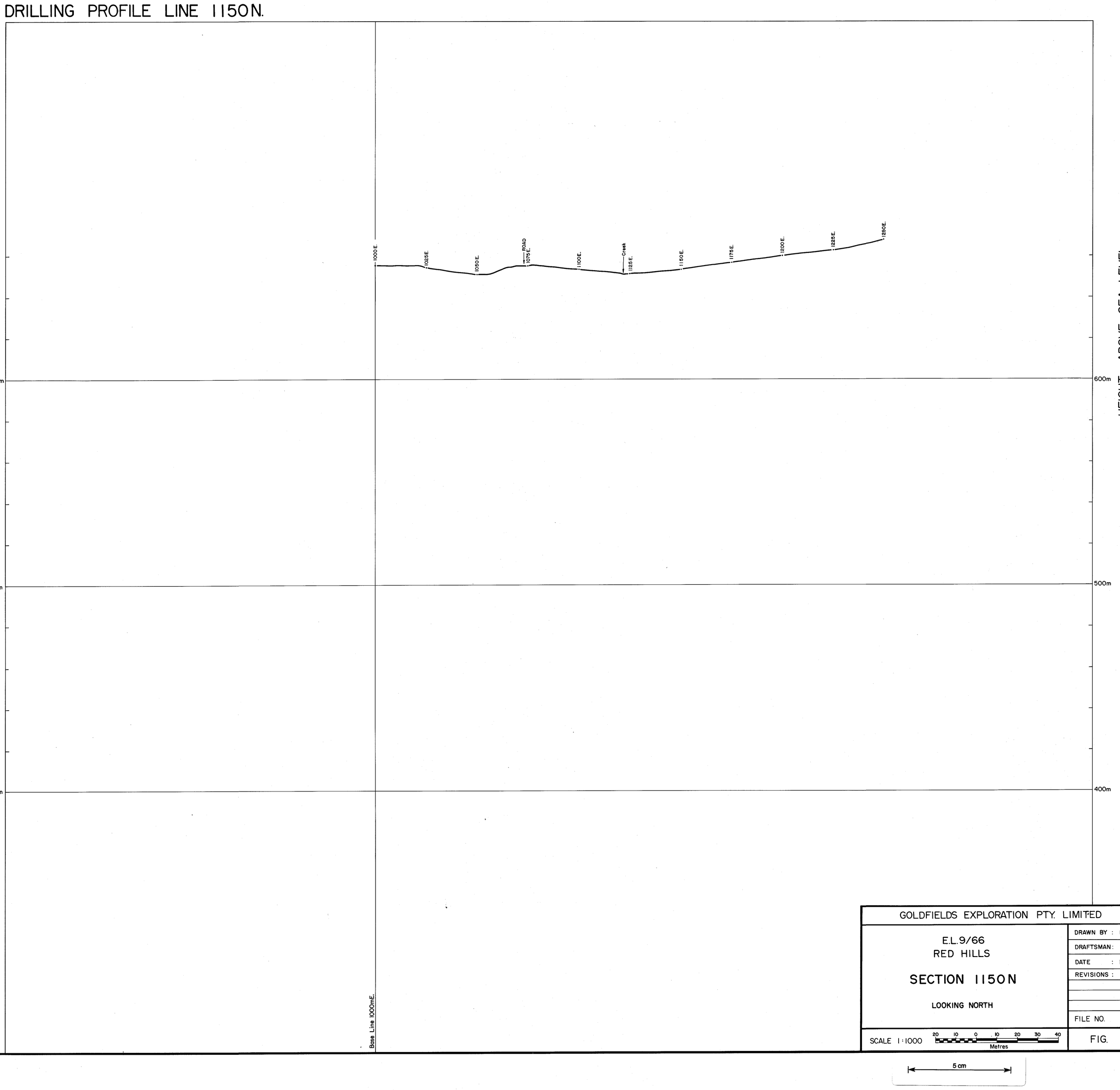
RED HILLS

TY

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

SECTION
1150N

DRILLING PROFILE LINE 1150N.



GOLDFIELDS EXPLORATION PTY. LIMITED	
E.L.9/66 RED HILLS SECTION 1150N LOOKING NORTH	DRAWN BY : F.G.F. DRAFTSMAN: T.G.D.S. DATE : Dec. '82 REVISIONS : FILE NO.
SCALE 1:1000 20 10 0 10 20 30 40 Metres	FIG.

5 cm

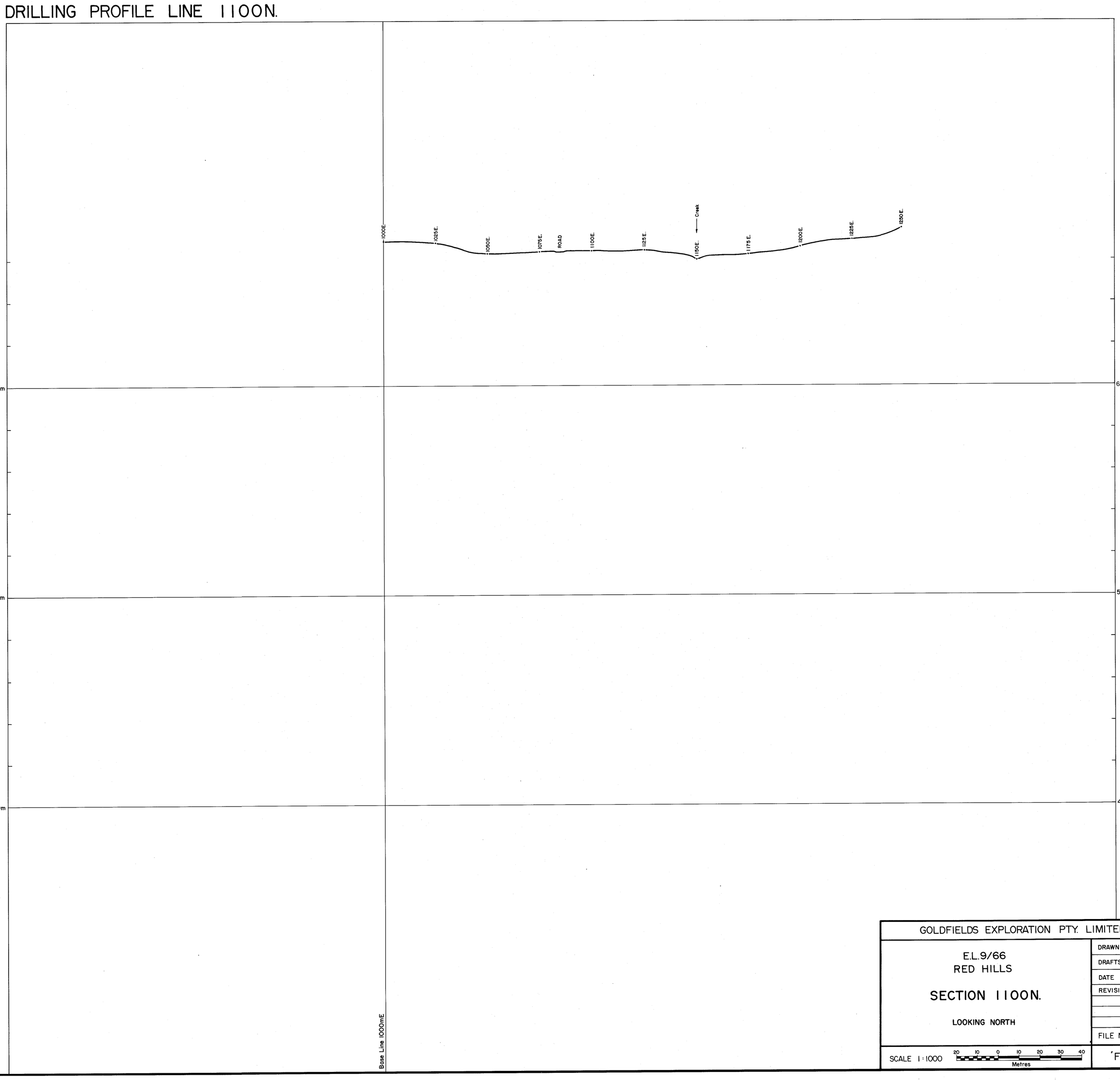
1:1,000

RED HILLS

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

SECTION
1100N

DRILLING PROFILE LINE 1100N.



GOLDFIELDS EXPLORATION PTY. LIMITED

E.L.9/66
RED HILLS

SECTION 1100N.

LOOKING NORTH

DRAWN BY : F.G.F.
DRAFTSMAN: T.G.D.S.
DATE : Dec.'82
REVISIONS :

FILE NO.

SCALE 1:1000 20 10 0 10 20 30 40 Metres

FIG.

5 cm

1:1,000

RED HILLS

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

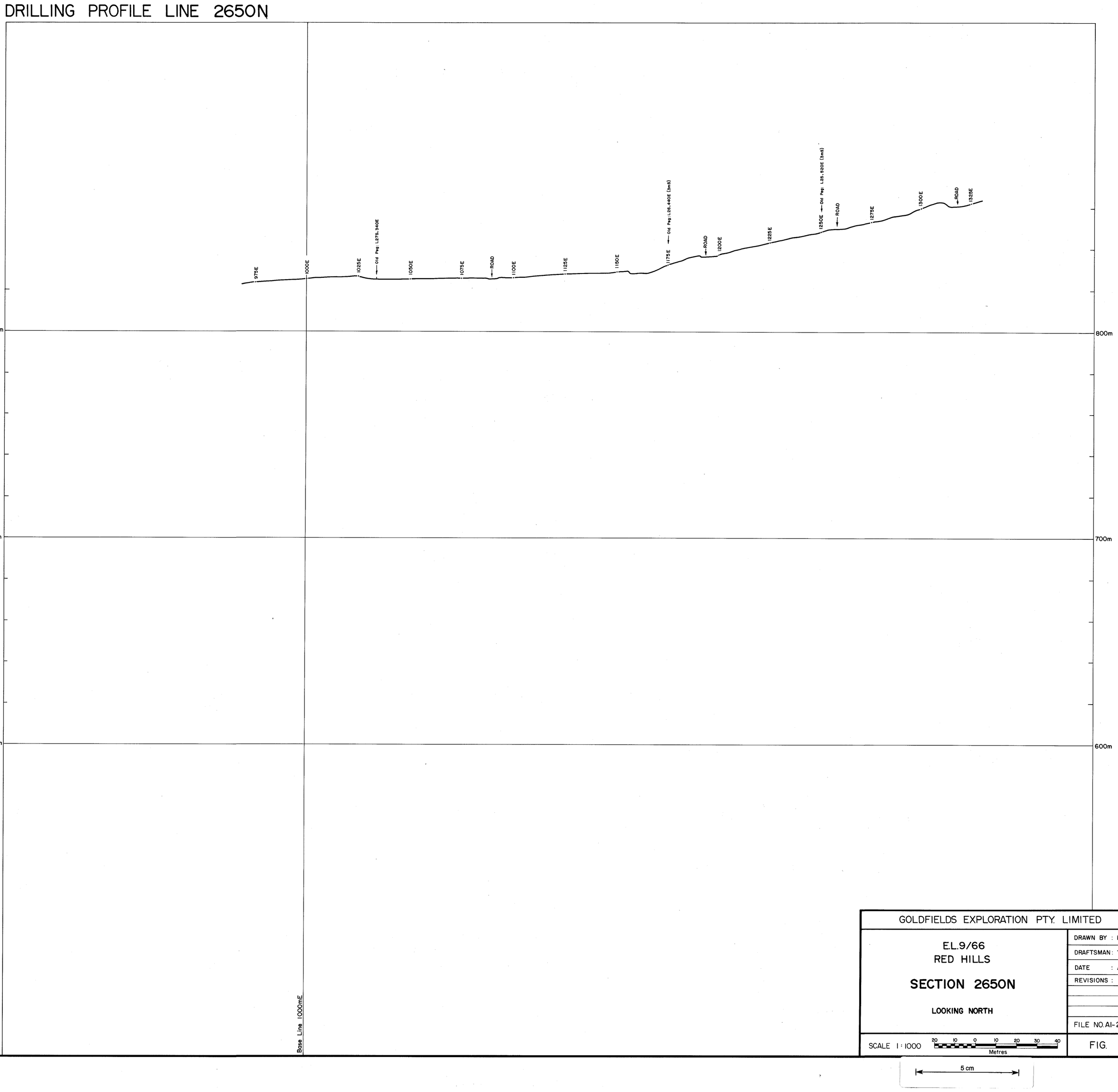
49

T

SECTION

2650N

DRILLING PROFILE LINE 2650N



GOLDFIELDS EXPLORATION PTY. LIMITED

E.L.9/66
RED HILLS

SECTION 2650N

LOOKING NORTH

DRAWN BY : F.G.F.
DRAFTSMAN : T.G.D.S.
DATE : Aug.'82
REVISIONS :

FILE NO. AI-247-3

SCALE 1:1000 — 20 10 0 10 20 30 40 Metres

FIG.

5 cm

1:1,000

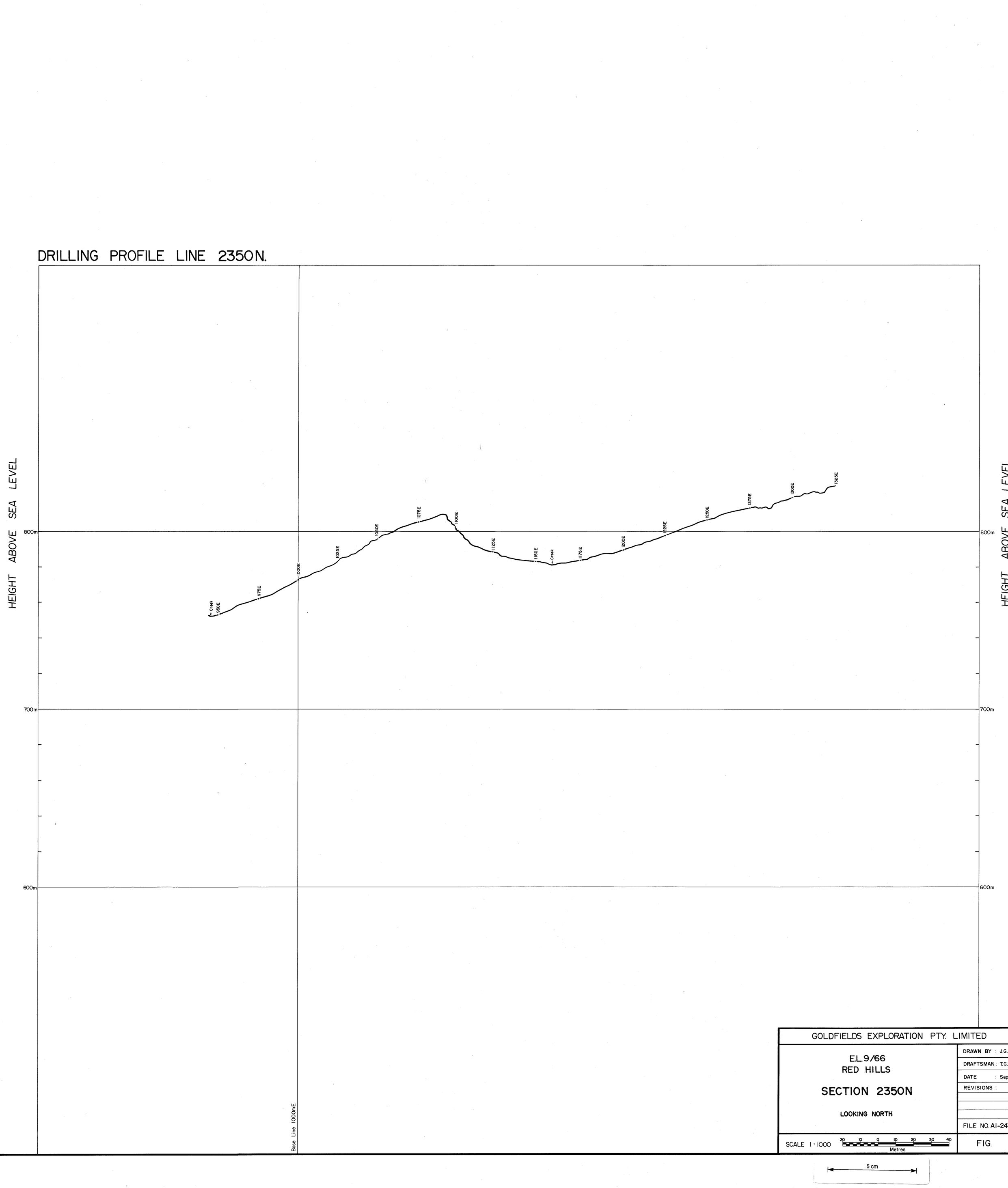
RED HILLS

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

SECTION

2350

DRILLING PROFILE LINE 2350N.



GOLDFIELDS EXPLORATION PTY. LIMITED

E.L. 9/66
RED HILLS

SECTION 2350N

LOOKING NORTH

DRAWN BY : J.G.P.
DRAFTSMAN : T.G.D.S.
DATE : Sept.'82
REVISIONS :

FILE NO. A1-247-9

SCALE 1:1000 — 20 10 0 10 20 30 40 Metres

FIG.

5 cm

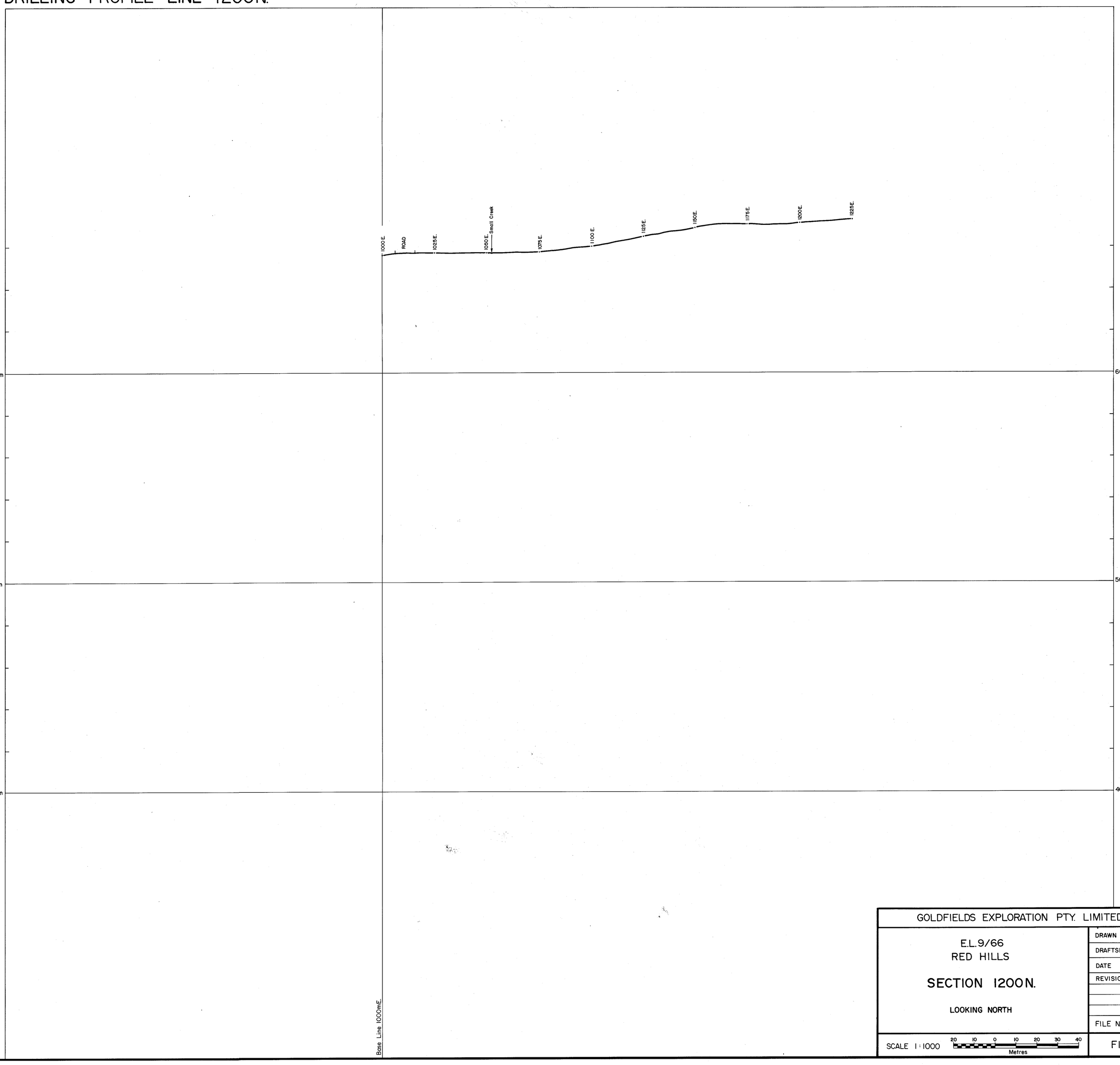
1:1,000

RED HILLS

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

SECTION
1200N

DRILLING PROFILE LINE 1200N.



GOLDFIELDS EXPLORATION PTY. LIMITED

E.L. 9/66
RED HILLS

SECTION 1200N.

LOOKING NORTH

DRAWN BY : F.G.F.
DRAFTSMAN: T.G.D.S.
DATE : Dec. '82
REVISIONS :

FILE NO.

SCALE 1:1000 20 10 0 10 20 30 40 Metres

FIG.

NORTH

SOUTH

2950mN. 2900mN. 2850mN. 2800mN. 2750mN. 2700mN. 2650mN. 2600mN. 2550mN. 2500mN. 2450mN. 2400mN. 2350mN. 2300mN. 2250mN. 2200mN. 2150mN. 2100mN. 2050mN. 2000mN. 1950mN. 1900mN. 1850mN.

RL 800m.

RL 700m.

RL 600m.

RL 500m.

RL 400m.

PROFILE ALONG SURFACE TRACE OF PROJECTED HOST ROCK HORIZON

R.H.5
2-6m. massive sulphide sediment
10m. cherty mud 30cm. semi-massive sulphide.
3m. 32% Zn, 11% Pb, 0·3% Cu, 142 g/t Ag, g/t Au

R.H.7
2m. mudstone
No Assays

R.H. 8
10cm. semi-massive sulphide
15m. 17% Zn, 14% Pb

R.H. 8
6m. cherty and tuffaceous sediment
4·5m 0·3% Zn

R.H.6R
2m. muddy chert
15m. 1% Zn 0·2% Pb
(135m 0·8% Zn, down hole)

Site A
(260m.)

Site B
(60m)

Site C
(445m.)

R.H.9
10m. mixed silt & tuff sands
9m. 1·6% Zn, 0·3% Pb
3m. 0·6% Zn, 0·2% Pb

R.H.9
15m. mainly coarse clastic sediment & 20cm. semi-massive sulphide
15m. 0·3% Zn, 0·1% Pb
15m. 3·3% Zn, 2% Pb
(105m. 2% Zn down hole)

R.H.10
2m. tuffaceous sediment
2·2m. 0·6% Cu

LEGEND

- Top Massive - Semi Massive Sulphide Intersection (drill thickness L.H.S., significant assays R.H.S.)
- Top Host Rock Horizon (Western Contact) Intersection (drill thickness L.H.S., significant assays R.H.S.)
- Projected Drill Hole Intersection of Projected Host Horizon (Total Depth of Hole)

GOLD FIELDS EXPLORATION PTY. LIMITED	
EL.9/66 RED HILLS LONGITUDINAL PROJECTION LOOKING EAST	DRAWN BY : F.G.F. DRAFTSMAN : T.G.D.S. DATE : Oct '82 REVISIONS : FILE NO. FIG.
SCALE 1:1000 — 0 10 20 30 40 METRES	

5 cm

RED HILLS

1:1,000

LONGITUDINAL PROJECTION -NORTH AREA-

TCDS 94-3581
EL 9/66 10/69 5/71 41/71
TV

1:1000

RED HILLS (NORTH)

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

DRILL HOLE LOCALITY PLAN

GOLD FIELDS EXPLORATION PTY. LIMITED

DRAWN BY : F.G.F./J.G.P.
DRAFTSMAN: T.G.D.S.
DATE : Mar. '84
REVISIONS :

EL.9/66
RED HILLS

DIAMOND DRILL HOLE PLAN

5 cm

SCALE 1:1000
METRES 20 10 0 10 20 30 40

FILE NO. AO-246

FIG.

382 600mE
382 400mE
382 200mE
382 000mE
5 364 400mN
5 364 600mN
5 364 800mN
5 365 000mN
5 365 200mN
5 365 400mN
5 365 600mN
5 365 800mN
LINE 1950N.
LINE 2150N. (Actual 2151-1.N.)
LINE 2200N.
LINE 2250N.
LINE 2300N.
LINE 2350N.
LINE 2400N.
LINE 2450N.
LINE 2500N.
LINE 2550N.
LINE 2600N.
LINE 2650N.
LINE 2700N.
LINE 2750N.
1325E
1300E
1200E
1100E
1000E
900E
825E
BASE LINE
REFERENCE LINE (SECTION)
DDH. RH10
DDH. RH9
DDH. RHP95
DDH. RH13
D.DH. 14 & 14R
DDH. RH8
DDH. RH16
DDH. RH15
DDH. RH6R
DDH. RH7
DDH. RH12
700
720
740
760
780
800
820
840
860
880
900
920
940
960
980
1000
1020
1040
1060
1080
1100
1120
1140
1160
1180
1200
1220
1240
1260
1280
1300
1320
1340
1360
1380
1400
1420
1440
1460
1480
1500
1520
1540
1560
1580
1600
1620
1640
1660
1680
1700
1720
1740
1760
1780
1800
1820
1840
1860
1880
1900
1920
1940
1960
1980
2000
2020
2040
2060
2080
2100
2120
2140
2160
2180
2200
2220
2240
2260
2280
2300
2320
2340
2360
2380
2400
2420
2440
2460
2480
2500
2520
2540
2560
2580
2600
2620
2640
2660
2680
2700
2720
2740
2760
2780
2800
2820
2840
2860
2880
2900
2920
2940
2960
2980
3000
3020
3040
3060
3080
3100
3120
3140
3160
3180
3200
3220
3240
3260
3280
3300
3320
3340
3360
3380
3400
3420
3440
3460
3480
3500
3520
3540
3560
3580
3600
3620
3640
3660
3680
3700
3720
3740
3760
3780
3800
3820
3840
3860
3880
3900
3920
3940
3960
3980
4000
4020
4040
4060
4080
4100
4120
4140
4160
4180
4200
4220
4240
4260
4280
4300
4320
4340
4360
4380
4400
4420
4440
4460
4480
4500
4520
4540
4560
4580
4600
4620
4640
4660
4680
4700
4720
4740
4760
4780
4800
4820
4840
4860
4880
4900
4920
4940
4960
4980
5000
5020
5040
5060
5080
5100
5120
5140
5160
5180
5200
5220
5240
5260
5280
5300
5320
5340
5360
5380
5400
5420
5440
5460
5480
5500
5520
5540
5560
5580
5600
5620
5640
5660
5680
5700
5720
5740
5760
5780
5800
5820
5840
5860
5880
5900
5920
5940
5960
5980
6000
6020
6040
6060
6080
6100
6120
6140
6160
6180
6200
6220
6240
6260
6280
6300
6320
6340
6360
6380
6400
6420
6440
6460
6480
6500
6520
6540
6560
6580
6600
6620
6640
6660
6680
6700
6720
6740
6760
6780
6800
6820
6840
6860
6880
6900
6920
6940
6960
6980
7000
7020
7040
7060
7080
7100
7120
7140
7160
7180
7200
7220
7240
7260
7280
7300
7320
7340
7360
7380
7400
7420
7440
7460
7480
7500
7520
7540
7560
7580
7600
7620
7640
7660
7680
7700
7720
7740
7760
7780
7800
7820
7840
7860
7880
7900
7920
7940
7960
7980
8000
8020
8040
8060
8080
8100
8120
8140
8160
8180
8200
8220
8240
8260
8280
8300
8320
8340
8360
8380
8400
8420
8440
8460
8480
8500
8520
8540
8560
8580
8600
8620
8640
8660
8680
8700
8720
8740
8760
8780
8800
8820
8840
8860
8880
8900
8920
8940
8960
8980
9000
9020
9040
9060
9080
9100
9120
9140
9160
9180
9200
9220
9240
9260
9280
9300
9320
9340
9360
9380
9400
9420
9440
9460
9480
9500
9520
9540
9560
9580
9600
9620
9640
9660
9680
9700
9720
9740
9760
9780
9800
9820
9840
9860
9880
9900
9920
9940
9960
9980
10000
10020
10040
10060
10080
10100
10120
10140
10160
10180
10200
10220
10240
10260
10280
10300
10320
10340
10360
10380
10400
10420
10440
10460
10480
10500
10520
10540
10560
10580
10600
10620
10640
10660
10680
10700
10720
10740
10760
10780
10800
10820
10840
10860
10880
10900
10920
10940
10960
10980
11000
11020
11040
11060
11080
11100
11120
11140
11160
11180
11200
11220
11240
11260
11280
11300
11320
11340
11360
11380
11400
11420
11440
11460
11480
11500
11520
11540
11560
11580
11600
11620
11640
11660
11680
11700
11720
11740
11760
11780
11800
11820
11840
11860
11880
11900
11920
11940
11960
11980
12000
12020
12040
12060
12080
12100
12120
12140
12160
12180
12200
12220
12240
12260
12280
12300
12320
12340
12360
12380
12400
12420
12440
12460
12480
12500
12520
12540
12560
12580
12600
12620
12640
12660
12680
12700
12720
12740
12760
12780
12800
12820
12840
12860
12880
12900
12920
12940
12960
12980
13000
13020
13040
13060
13080
13100
13120
13140
13160
13180
13200
13220
13240
13260
13280
13300
13320
13340
13360
13380
13400
13420
13440
13460
13480
13500
13520
13540
13560
13580
13600
13620
13640
13660
13680
13700
13720
13740
13760
13780
13800
13820
13840
13860
13880
13900
13920
13940
13960
13980
14000
14020
14040
14060
14080
14100
14120
14140
14160
14180
14200
14220
14240
14260
14280
14300
14320
14340
14360
14380
14400
14420
14440
14460
14480
14500
14520
14540
14560
14580
14600
14620
14640
14660
14680
14700
14720
14740
14760
14780
14800
14820
14840
14860
14880
14900
14920
14940
14960
14980
15000
15020
15040
15060
15080
15100
15120
15140
15160
15180
15200
15220
15240
15260
15280
15300
15320
15340
15360
15380
15400
15420
15440
15460
15480
15500
15520
15540
15560
15580
15600
15620
15640
15660
15680
15700
15720
15740
15760
15780
15800
15820
15840
15860
15880
15900
15920
15940
15960
15980
16000
16020
16040
16060
16080
16100
16120
16140
16160
16180
16200
16220
16240
16260
16280
16300
16320
16340
16360
16380
16400
16420
16440
16460
16480
16500
16520
16540
16560
16580
16600
16620
16640
16660
16680
16700
16720
16740
16760
16780
16800
16820
16840
16860
16880
16900
16920
16940
16960
16980
17000
17020
17040
17060
17080
17100
17120
17140
17160
17180
17200
17220
17240
17260
17280
17300
17320
17340
17360
17380
17400
17420
17440
17460
17480
17500
17520
17540
17560
17580
17600
17620
17640
17660
17680
17700
17720
17740
17760
17780
17800
17820
17840
17860
17880
17900
17920
17940
17960
17980
18000
18020
18040
18060
18080
18100
18120
18140
18160
18180
18200
18220
18240
18260
18280
18300
18320
18340
18360
18380
18400
18420
18440
18460
18480
18500
18520
18540
18560
18580
18600
18620
18640
18660
18680
18700
18720
18740
18760
18780
18800
18820
18840
18860
18880
18900
18920
18940
18960
18980
19000
19020
19040
19060
19080
19100
19120
19140
19160
19180
19200
19220
19240
19260
19280
19300
19320
19340
19360
19380
19400
19420
19440
19460
19480
19500
19520
19540
19560
19580
19600
19620
19640
19660
19680
19700
19720
19740
19760
19780
19800
19820
19840
19860
19880
19900
19920
19940
19960
19980
20000
20020
20040
20060
20080
20100
20120
20140
20160
20180
20200
20220
20240
20260
20280
20300
20320
20340
20360
20380
20400
20420
20440
20460
20480
20500
20520
20540
20560
20580
20600
20620
20640
20660
20680
20700
20720
20740
20760
20780
20800
20820
20840
20860
20880
20900
20920
20940
20960
20980
21000
21020
21040
21060
21080
21100
21120
21140
21160
21180
21200
21220
21240
21260
21280
21300
21320
21340
21360
21380
21400
21420
21440
21460
21480
21500
21520
21540
21560
21580
21600
21620
21640
21660
21680
21700
21720
21740
21760
21780
21800
21820
21840
21860
21880
21900
21920
21940
21960
21980
22000
22020
22040
22060
22080
22100
22120
22140
22160
22180
22200
22220
22240
22260
22280
22300
22320
22340
22360
22380
22400
22420
22440
22460
22480
22500
22520
22540
22560
22580
22600
22620
22640
22660
22680
22700
22720
22740
22760
22780
22800
22820
22840
22860
22880
22900
22920
22940
22960
22980
23000
23020
23040
23060
23080
23100
23120
23140
23160
23180
23200
23220
23240
23260
23280
23300
23320
23340
23360
23380
23400
23420
23440
23460
23480
23500
23520
23540
23560
23580
23600
23620
23640
23660
23680
23700
23720
23740
23760
23780
23800
23820
23840
23860
23880
23900
23920
23940
23960
23980
24000
24020
24040
24060
24080
24100
24120
24140
24160
24180
24200
24220
24240
24260
24280
24300
24320
24340
24360
24380
24400
24420
24440
24460
24480
24500
24520
24540
24560
24580
24600
24620
24640
24660
24680
24700
24720
24740
24760
24780
24800
24820
24840
24860
24880
24900
24920
24940
24960
24980
25000
25020
25040
25060
25080
25100
25120
25140
25160
25180
25200
25220
25240
25260
25280
25300
25320
25340
25360
25380
25400
25420
25440
25460
25480
25500
25520
25540
25560
25580
25600
25620
25640
25660
25680
25700
25720
25740
25760
25780
25800
25820
25840
25860
25880
25900
25920
25940
25960
25980
26000
26020
26040
26060
26080
26100
26120
26140
26160
26180
26200
26220
26240
26260
26280
26300
26320
26340
26360
26380
26400
26420
26440
26460
26480
26500
26520
26540
26560
26580
26600
26620
26640
26660
26680
26700
26720
26740
26760
26780
26800
26820
26840
26860
26880
26900
26920
26940
26960
26980
27000
27020
27040
27060
27080
27100
27120
27140
27160
27180
27200
27220
27240
27260
27280
27300
27320
27340
27360
27380
27400
27420
27440
27460
27480
27500
27520
27540
27560
27580
27600
27620
27640
27660
27680
27700
27720
27740
27760
27780
27800
27820
27840
27860
27880
27900
27920
27940
27960
27980
28000
28020
28040
28060
28080
28100
28120
28140
28160
28180
28200
28220
28240
28260
28280
28300
28320
28340
28360
28380
28400
28420
28440
28460
28480
28500
28520
28540
28560
28580
28600
28620
28640
28660
28680
28700
28720
28740
28760
28780
28800
28820
28840
28860
28880
28900
28920
28940
28960
28980
29000
29020
29040
29060
29080
29100
29120
29140
29160
29180
29200
29220
29240
29260
29280
29300
29320
29340
29360
29380
29400
29420
29440
29460
29480
29500
29520
29540
29560
29580
29600
29620
29640
29660
29680
29700
29720
29740
29760
29780
29800
29820
29840
29860
29880
29900
29920
29940
29960
29980
30000
30020
30040
30060
30080
30100
30120
30140
30160
30180
30200
30220
30240
30260
30280
30300
30320
30340
30360
30380
30400
30420
30440
30460
30480
30500
30520
30540
30560
30580
30600
30620
30640
30660
30680
30700
30720
30740
30760
30780
30800
30820
30840
30860
30880
30900
30920
30940
30960
30980
31000
31020
31040
31060
31080
31100
31120
31140
31160
31180
31200
31220
31240
31260
31280
31300
31320
31340
31360
31380
31400
31420
31440
31460
31480
31500
31520
31540
31560
31580
31600
31620
31640
31660
31680
31700
31720
31740
31760
31780
31800
31820
31840
31860
31880
31900
31920
31940
31960
31980
32000
32020
32040
32060
32080
32100
32120
32140
32160
32180
32200
32220
32240
32260
32280
32300
32320
32340
32360
32380
32400
32420
32440
32460
32480
32500
32520
32540
32560
32580
32600
32620
32640
32660
32680
32700
32720
32740
32760
32780
32800
32820
32840
32860
32880
32900
32920
32940
32960
32980
33000
33020
33040
33060
33080
33100
33120
33140
33160
33180
33200
33220
33240
33260
33280
33300
33320
33340
33360
33380
33400
33420
33440
33460
33480
33500
33520
33540
33560
33580
33600
33620
33640
33660
33680
33700
33720
33740
33760
33780
33800
33820
33840
33860
33880
33900
33920
33940
33960
33980
34000
34020
34040
34060
34080
34100
34120
34140
34160
34180
34200
34220
34240
34260
34280
34300
34320
34340
34360
34380
34400
34420
34440
34460
34480
34500
34520
34540
34560
34580
34600
34620
34640
34660
34680
34700
34720
34740
34760
34780
34800
34820
34840
34860
34880
34900
34920
34940
34960
34980
35000
35020
35040
35060
35080
35100
35120
35140
35160
35180
35200
35220
35240
35260
35280
35300
35320
35340
35360
35380
35400
35420
35440
35460
35480
35500
35520
35540
35560
35580
35600
35620
35640
35660
35680
35700
35720
35740
35760
35780
35800
35820
35840
35860
35880
35900
35920
35940
35960
35980
36000
36020
36040
36060
36080
36100
36120
36140
36160
36180
36200
36220
36240
36260
36280
36300
36320
36340
36360
36380
36400
36420
36440
36460
36480
36500
36520
36540
36560
36580
36600
36620
36640
36660
36680
36700
36720
36740
36760
36780
36800
36820
36840
36860
36880
36900
36920
36940
36960
36980
37000
37020
37040
37060
37080
37100
37120
37140
37160
37180
37200
37220
37240
37260
37280
37300
37320
37340
37360
37380
37400
37420
37440
37460
37480
37500
37520
37540
37560
37580
37600
37620
37640
37660
37680
37700
37720
37740
37760
37780
37800
37820
37840
37860
37880
37900
37920
37940
37960
37980
38000
38020
38040
38060
38080
38100
38120
38140
38160
38180
38200
38220
38240
38260
38280
38300
38320
38340
38360
38380
38400
38420
38440
38460
38480
38500
38520
38540
38560
38580
38600
38620
38640
38660
38680
38700
38720
38740
38760
38780
38800
38820
38840
38860
38880
38900
38920
38940
38960
38980
39000
39020
39040
39060
39080
39100
39120
39140
39160
39180
39200
39220
39240
39260
39280
39300
39320
39340
39360
39380
39400
39420
39440
39460
39480
39500
39520
39540
39560
39580
39600
39620
39640
39660
39680
39700
39720
39740
39760
39780
39800
39820
39840
39860
39880
39900
39920
39940
39960
39980
40000
40020
40040
40060
40080
40100
40120
40140
40160
40180
40200
40220
40240
40260
40280
40300
40320
40340
40360
40380
40400
40420
40440
40460
40480
40500
40520
40540
40560
40580
40600
40620
40640
40660
40680
40700
40720
40740
40760
40780
40800
40820
40840
40860
40880
40900
40920
40940
40960
40980
41000
41020
41040
41060
41080
41100
41120
41140
41160
41180
41200
41220
41240
41260
41280
41300
41320
41340
41360
41380
41400
41420
41440
41460
41480
41500
41520
41540
41560
41580
41600
41620
41640
41660
41680
41700
41720
41740
41760
41780
41800
41820
41840
41860
41880
41900
41920
41940
41960
41980
42000
42020
42040
42060
42080
42100
42120
42140
42160
42180
42200
42220
42240
42260
42280
42300
42320
42340
42360
42380
42400
42420
42440
42460
42480
42500
42520
42540
42560
42580
42600
42620
42640
42660
42680
42700
42720
42740
42760
42780
42800
42820
42840
42860
42880
42900
42920
42940
42960
42980
43000
43020
43040
43060
43080
43100
43120
43140
43160
43180
43200
43220
43240
43260
43280
43300
43320
43340
43360
43380
43400
43420
43440
43460
43480
43500
43520
43540
43560
43580
43600
43620
43640
43660
43680
43700
43720
43740
43760
43780
43800
43820
43840
43860
43880
43900
43920
43940
43960
43980
44000
44020
44040
44060
44080
44100
44120
44140
44160
44180
44200
44220
44240
44260
44280
44300
44320
44340
44360
44380
44400
44420
44440
44460
44480
44500
44520
44540
44560
44580
44600
44620
44640
44660
44680
44700
44720
44740
44760
44780
44800
44820
44840
44860
44880
44900
44920
44940
44960
44980
45000
45020
45040
45060
45080
45100
45120
45140
45160
45180
45200
45220
45240
45260
45280
45300
45320
45340
45360
45380
45400
45420
45440
45460
45480
45500
45520
45540
45560
45580
45600
45620
45640
45660
45680
45700
45720
45740
45760
45780
45800
45820
45840
45860
45880
45900
45920
45940
45960
45980
46000
46020
46040
46060
46080
46100
46120
46140
46160
46180
46200
46220
46240
46260
46280
46300
46320
46340
46360
46380
46400
46420
46440
46460
46480
46500
46520
46540
46560
46580
46600
46620
46640
46660
46680
46700
46720
46740
46760
46780
46800
46820
46840
46860
46880
46900
46920
46940
46960
46980
47000
47020
47040
47060
47080
47100
47120
47140
47160
47180
47200
47220
47240
47260
47280
47300
47320
47340
47360
47380
47400
47420
47440
47460
47480
47500
47520
47540
47560
47580
47600
47620
47640
47660
47680
47700
47720
47740
47760
47780
47800
47820
47840
47860
47880
47900
47920
47940
47960
47980
48000
48020
48040
48060
48080
48100
48120
48140
48160
48180
48200
48220
48240
48260
48280
48300
48320
48340
48360
48380
48400
48420
48440
48460
48480
48500
48520
48540
48560
48580
48600
48620
48640
48660
48680
48700
48720
48740
48760
48780
48800
48820
48840
48860
48880
48900
48920
48940
48960
48980
49000
49020
49040
49060
49080
49100
49120
49140
49160
49180
49200
49220
49240
49260
49280
49300
49320
49340
49360
49380
49400
49420
49440
49460
49480
49500
49520
49540
49560
49580
49600
49620
49640
49660
49680
49700
49720
49740
49760
49780
49800
49820
49840
49860
49880
49900
49920
49940
49960
49980
50000
50020
50040
50060
50080
50100
50120
50140
50160
50180
50200
50220
50240
50260
50280
50300
50320
50340
50360
50380
50400
50420
50440
50460
50480
50500
50520
50540
50560
50580
50600
50620
50640
50660
50680
50700
50720
50740
50760
50780
50800
50820
50840
50860
50880
50900
50920
50940
50960
50980
51000
51020
51040
51060
51080
51100
51120
51140
51160
51180
51200
51220
51240
51260
51280
51300
51320
51340
51360
51380
51400
51420
51440
51460
51480
51500
51520
51540
51560
51580
51600
51620
51640
51660
51680
51700
51720
51740
51760
51780
51800
51820
51840
51860
51880
51900
51920
51940
51960
51980
52000
52020
52040
52060
52080
52100
52120
52140
52160
52180
52200
52220
52240
52260
52280
52300
52320
52340
52360
52380
52400
52420
52440
52460
52480
52500
52520
52540
52560
52580
52600
52620
52640
52660
52680
52700
52720
52740
52760
52780
52800
52820
52840
52860
52880
52900
52920
52940
52960
52980
53000
53020
53040
53060
53080
53100
53120
53140
53160
53180
53200
53220
53240
53260
53280
53300
53320
53340
53360
53380
53400
53420
53440
53460
53480
53500
53520
53540
53560
53580
53600
53620
53640
53660
53680
53700
53720
53740
53760
53780
53800
53820
53840
53860
53880
53900
53920
53940
53960
53980
54000
54020
54040
54060
54080
54100
54120
54140
54160
54180
54200
54220
54240
54260
54280
54300
54320
54340
54360
54380
54400
54420
54440
54460
54480
54500
54520
54540
54560
54580
54600
54620
54640
54660
54680
54700
54720
54740
54760
54780
54800
54820
54840
54860
54880
54900
54920
54940
54960
54980
55000
55020
55040
55060
55080
55100
55120
55140
55160
55180
55200
55220
55240
55260
55280
55300
55320
55340
55360
55380
55400
55420
55440
55460
55480
55500
55520
55540
55560
55580
55600
55620
55640
55660
55680
55700
55720
55740
55760
55780
55800
55820
55840
55860
55880
55900
55920
55940
55960
55980
56000
56020
56040
56060
56080
56100
56120
56140
56160
56180
56200
56220
56240
56260
56280
56300
56320
56340
56360
56380
56400
56420
56440
56460
56480
56500
56520
56540
56560
56580
56600
56620
56640
56660
56680
56700
56720
56740
56760
56780
56800
56820
56840
56860
56880
56900
56920
56940
56960
56980
57000
57020
57040
57060
57080
57100
57120
57140
57160
57180
57200
57220
57240
57260
57280
57300
57320
57340
57360
57380
57400
57420
57440
57460
57480
57500
57520
57540
57560
57580
57600
57620
57640
57660
57680
57700
57720
57740
57760
57780
57800
57820
57840
57860
57880
57900
57920
57940
57960
57980
58000
58020
58040
58060
58080
58100
58120
58140
58160
58180
58200
58220
58240
58260
58280
58300
58320
58340
58360
58380
58400
58420
58440
58460
58480
58500
58520
58540
58560
58580
58600
58620
58640
58660
58680
58700
58720
58740
58760
58780
58800
58820
58840
58860
58880
58900
58920
58940
58960
58980
59000
59020
59040
59060
59080
59100
59120
59140
59160
59180
59200
59220
59240
59260
59280
59300
59320
59340
59360
59380
59400
59420
59440
59460
59480
59500
59520
59540
59560
59580
59600
59620
59640
59660
59680
59700
59720
59740
59760
59780
59800
59820
59840
59860
59880
59900
59920
59940
59960
59980
60000
60020
60040
60060
60080
60100
60120
60140
60160
60180
60200
60220
60240
60260
60280
60300
60320
60340
60360
60380
60400
60420
60440
60460
60480
60500
60520
60540
60560
60580
60600
60620
60640
60660
60680
60700
60720
60740
60760
60780
60800
60820
60840
60860
60880
60900
60920
60940
60960
60980
61000
61020
61040
61060
61080
61100
61120
61140
61160
61180
61200
61220
61240
61260
61280
61300
61320
61340
61360
61380
61400
61420
61440
61460
61480
61500
61520
61540
61560
61580
61600
61620
61640
61660
61680
61700
61720
61740
61760
61780
61800
61820
61840
61860
61880
61900
61920
61940
61960
61980
62000
62020
62040
62060
62080
62100
62120
62140
62160
62180
62200
62220
62240
62260
62280
62300
62320
62340
62360
62380
62400
62420
62440
62460
62480
62500
62520
62540
62560
62580
62600
62620
62640
62660
62680
62700
62720
62740
62760
62780
62800
62820
62840
62860
62880
62900
62920
62940
62960
62980
63000
63020
63040
63060
63080
63100
63120
63140
63160
63180
63200
63220
63240
63260
63280
63300
63320
63340
63360
63380
63400
63420
63440
63460
63480
63500
63520
63540
63560
63580
63600
63620
63640
63660
63680
63700
63720
63740
63760
63780
63800
63820
63840
63860
63880
63900
63920
63940
63960
63980
64000
64020
64040
64060
64080
64100
64120
64140
64160
64180
64200
64220
64240
64260
64280
64300
64320
64340
64360
64380
64400
64420
64440
64460
64480
64500
64520
64540
64560
64580
64600
64620
64640
64660
64680
64700
64720
64740
64760
64780
64800
64820
64840
64860
64880
64900
64920
64940
64960
64980
65000
65020
65040
65060
65080
65100
65120
65140
65160
65180
65200
65220
65240
65260
65280
65300
65320
65340
65360
65380
65400
65420
65440
65460
65480
65500
65520
65540
65560
65580
65600
65620
65640
65660
65680
65700
65720
65740
65760
65780
65800
65820
65840
65860
65880
65900
65920
65940
65960
65980
66000
66020
66040
66060
66080
66100
66120
66140
66160
66180
66200
66220
66240
66260
66280
66300
66320
66340
66360
66380
66400
66420
66440
66460
66480
66500
66520
66540
66560
66580
66600
66620
66640
66660
66680
66700
66720
66740
66760
66780
66800
66820
66840
66860
66880
66900
66920
66940
66960
66980
67000
67020
67040
67060
67080
67100
67120
67140
67160
67180
67200
67220
67240
67260
67280
67300
67320
67340
67360
67380
67400
67420
67440
67460
67480
67500
67520
67540
67560
67580
67600
67620
67640
67660
67680
67700
67720
67740
67760
67780
67800
67820
67840
67860
67880
67900
67920
67940
67960
67980
68000
68020
68040
68060
68080
68100
68120
68140
68160
68180
68200
68220
68240
68260
68280
68300
68320
68340
68360
68380
68400
68420
68440
68460
68480
68500
68520
68540
68560
68580
68600
68620
68640
68660
68680
68700
68720
68740
68760
68780
68800
68820
68840
68860
68880
68900
68920
68940
68960
68980
69000
69020
69040
69060
69080
69100
69120
69140
69160
69180
69200
69220
69240
69260
69280
69300
69320
69340
69360
69380
69400
69420
69440
69460
69480
69500
69520
69540
69560
69580
69600
69620
69640
69660
69680
69700
69720
69740
69760
69780
69800
69820
69840
69860
69880
69900
69920
69940
69960
69980
70000
70020
70040
70060
70080
70100
70120
70140
70160
70180
70200
70220
70240
70260
70280
70300
70320
70340
70360
70380
70400
70420
70440
70460
70480
70500
70520
70540
70560
70580
70600
70620
70640
70660
70680
70700
70720
70740
70760
70780
70800
70820
70840
70860
70880
70900
70920
70940
70960
70980
71000
71020
71040
71060
71080
71100
71120
71140
71160
71180
71200
71220
71240
71260
71280
71300
71320
71340
71360
71380
71400
71420
71440
71460
71480
71500
71520
71540
71560
71580
71600
71620
71640
71660
71680
71700
71720
71740
71760
71780
71800
71820
71840
71860
71880
71900
71920
71940
71960
71980
72000
72020
72040
72060
72080
72100
72120
72140
72160
72180
72200
72220
72240
72260
72280
72300
72320
72340
72360
72380
72400
72420
72440
72460
72480
72500
72520
72540
72560
72580
72600
72620
72640
72660
72680
72700
72720
72740
72760
72780
72800
72820
72840
72860
72880
72900
72920
72940
72960
72980
73000
73020
73040
73060
73080
73100
73120
73140
73160
73180
73200
73220
73240
73260
73280
73300
73320
73340
73360
73380
73400
73420
73440
73460
73480
73500
73520
73540
73560
73580
73600
73620
73640
73660
73680
73700
73720
73740
73760
73780
73800
73820
73840
73860
73880
73900
73920
73940
73960
73980
74000
74020
74040
74060
74080
74100
74120
74140
74160
74180
74200
74220
74240
74260
74280
74300
74320
74340
74360
74380
74400
74420
74440
74460
74480
74500
74520
74540
74560
74580
74600
74620
74640
74660
74680
74700
74720
74740
74760
74780
74800
74820
74840
74860
74880
74900
74920
74940
74960
74980
75000
75020
75040
75060
75080
75100
75120
75140
75160
75180
75200
75220
75240
75260
75280
75300
75320
75340
75360
75380
75400
75420
75440
75460
75480
75500
75520
75540
75560
75580
75600
75620
75640
75660
75680
75700
75720
75740
75760
75780
75800
75820
75840
75860
75880
75900
75920
75940
75960
75980
76000
76020
76040
76060
76080
76100
76120
76140
76160
76180
76200
76220
76240
76260
76280
76300
76320
76340
76360
76380
76400
76420
76440
76460
76480
76500
76520
76540
76560
76580
76600
76620
76640
76660
76680
76700
76720
76740
76760
76780
76800
76820
76840
76860
76880
76900
76920
76940
76960
76980
77000
77020
77040
77060
77080
77100
77120
77140
77160
77180
77200
77220
77240
77260
77280
77300
77320
77340
77360
77380
77400
77420
77440
77460
77480
77500
77520
77540
77560
77580
77600
77620
77640
77660
77680
77700
77720
77740
77760
77780
77800
77820
77840
77860
77880
77900
77920
77940
77960
77980
78000
78020
78040
78060
78080
78100
78120
78140
78160
78180
78200
78220
78240
78260
78280
78300
78320
78340
78360
78380
78400
78420
78440
78460
78480
78500
78520
78540
78560
78580
78600
78620
78640
78660
78680
78700
78720
78740
78760
78780
78800
78820
78840
78860
78880
78900
78920
78940
78960
78980
79000
79020
79040
79060
79080
79100
79120
79140
79160
79180
79200
79220
79240
79260
79280
79300
79320
79340
79360
79380
79400
79420
79440
79460
79480
79500
79520
79540
79560
79580
79600
79620
79640
79660
79680
79700
79720
79740
79760
79780
79800
79820
79840
79860
79880
79900
79920
79940
79960
79980
80000
80020
80040
80060
80080
80100
80120
80140
80160
80180
80200
80220
80240
80260
80280
80300
80320
80340
80360
80380
80400
80420
80440
80460
80480
80500
80520
80540
80560
80580
80600
80620
80640
80660
80680
80700
80720
80740
80760
80780
80800
80820
80840
80860
80880
80900
80920
80940
80960
80980
81000
81020
81040
81060
81080
81100
81120
81140
81160
81180
81200
81220
81240
81260
81280
81300
81320
81340
81360
81380
81400
81420
81440
81460
81480
81500
81520
81540
81560
81580
81600
81620
81640
81660
81680
81700
81720
81740
81760
81780
81800
81820
81840
81860
81880
81900
81920
81940
81960
81980
82000
82020
82040
82060
82080
82100
82120
82140
82160
82180
82200
82220
82240
82260
82280
82300
82320
82340
82360
82380
82400
82420
82440
82460
82480
82500
82520
82540
82560
82580
82600
82620
82640
82660
82680
82700
82720
82740
82760
82780
82800
82820
82840
82860
82880
82900
82920
82940
82960
82980
83000
83020
83040
83060
83080
83100
83120
83140
83160
83180
83200
83220
83240
83260
83280
83300
83320
83340
83360
83380
83400
83420
83440
83460
83480
83500
83520
83540
83560
83580
83600
83620
83640
83660
83680
83700
83720
83740
83760
83780
83800
83820
83840
83860
83880
83900
83920
83940
83960
83980
84000
84020
84040
84060
84080
84100
84120
84140
84160
84180
84200
84220
84240
84260
84280
84300
84320
84340
84360
84380
84400
84420
84440
84460
84480
84500
84520
84540
84560
84580
84600
84620
84640
84660
84680
84700
84720
84740
84760
84780
84800
84820
84840
84860
84880
84900
84920
84940
84960
84980
85000
85020
85040
85060
85080
85100
85120
85140
85160
85180
85200
85220
85240
85260
85280
85300
85320
85340
85360
85380
85400
85420
85440
85460
85480
85500
85520
85540
85560
85580
85600
85620
85640
85660
85680
85700
85720
85740
85760
85780
85800
85820
85840
85860
85880
85900
85920
85940
85960
85980
86000
86020
86040
86060
86080
86100
86120
86140
86160
86180
86200
86220
86240
86260
86280
86300
86320
86340
86360
86380
86400
86420
86440
86460
86480
86500
86520
86540
86560
86580
86600
86620
86640
86660
86680
86700
86720
86740
86760
86780
86800
86820
86840
86860
86880
86900
86920
86940
86960
86980
87000
87020
87040
87060
87080
87100
87120
87140
87160
87180
87200
87220
87240
87260
87280
87300
87320
87340
87360
87380
87400
87420
87440
87460
87480
87500
87520
87540
87560
87580
87600
87620
87640
87660
87680
87700
87720
87740
87760
87780
87800
87820
87840
87860
87880
87900
87920
87940
87960
87980
88000
88020
88040
88060
88080
88100
88120
88140
88160
88180
88200
88220
88240
88260
88280
88300
88320
88340
88360
88380
88400
88420
88440
88460
88480
88500
88520
88540
88560
88580
88600
88620
88640
88660
88680
88700
88720
88740
88760
88780
88800
88820
88840
88860
88880
88900
88920
88940
88960
88980
89000
89020
89040
89060
89080
89100
89120
89140
89160
89180
89200
89220
89240
89260
89280
89300
89320
89340
89360
89380
89400
89420
89440
89460
89480
89500
89520
89540
89560
89580
89600
89620
89640
89660
89680
89700
89720
89740
89760
89780
89800
89820
89840
89860
89880
89900
89920
89940
89960
89980
90000
90020
90040
90060
90080
90100
90120
90140
90160
90180
90200
90220
90240
90260
90280
90300
90320
90340
90360
90380
90400
90420
90440
90460
90480
90500
90520
90540
90560
90580
90600
90620
90640
90660
90680
90700
90720
90740
90760
90780
90800
90820
90840
90860
90880
90900
90920
90940
90960
90980
91000
91020
91040
91060
91080
91100
91120
91140
91160
91180
91200
91220
91240
91260
91280
91300
91320
91340
91360
91380
91400
91420
91440
91460
91480
91500
91520
91540
91560
91580
91600
91620
91640
91660
91680
91700
91720
91740
91760
91780
91800
91820
91840
91860
91880
91900
91920
91940
91960
91980
92000
92020
92040
92060
92080
92100
92120
92140
92160
92180
92200
92220
92240
92260
92280
92300
92320
92340
92360
92380
92400
92420
92440
92460
92480
92500
92520
92540
92560
92580
92600
92620
92640
92660
92680
92700
92720
92740
92760
92780
92800
92820
92840
92860
92880
92900
92920
92940
92960
92980
93000
93020
93040
93060
93080
93100
93120
93140
93160
93180
93200
93220
93240
93260
93280
93300
93320
93340
93360
93380
93400
93420
93440
93460
93480
93500
93520
93540
93560
93580
93600
93620
93640
93660
93680
93700
93720
93740
93760
93780
93800
93820
93840
93860
93880
93900
93920
93940
93960
93980
94000
94020
94040
94060
94080
94100
94120
94140
94160
94180
94200
94220
94240
94260
94280
94300
94320
94340
94360
94380
94400
94420
94440
94460
94480
94500
94520
94540
94560
94580
94600
94620
94640
94660
94680
94700
94720
94740
94760
94780
94800
94820
94840
94860
94880
94900
94920
94940
94960
94980
95000
95020
95040
95060
95080
95100
95120
95140
95160
95180
95200
95220
95240
95260
95280
95300
95320
95340
95360
95380
95400
95420
95440
95460
95480
95500
95520
95540
95560
95580
95600
95620
95640
95660
95680
95700
95720
95740
95760
95780
95800
95820
95840
95860
95880
95900
95920
95940
95960
95980
96000
96020
96040
96060
96080
96100
96120
96140
96160
96180
96200
96220
96240
96260
96280
96300
96320
96340
96360
96380
96400
96420
96440
96460
96480
96500
96520
96540
96560
96580
96600
96620
96640
96660
96680
96700
96720
96740
96760
96780
96800
96820
96840
96860
96880
96900
96920
96940
96960
96980
97000
97020
97040
97060
97080
97100
97120
97140
97160
97180
97200
97220
97240
97260
97280
97300
97320
97340
97360
97380
97400
97420
97440
97460
97480
97500
97520
97540
97560
97580
97600
97620
97640
97660
97680
97700
97720
97740
97760
97780
97800
97820
97840
97860
97880
97900
97920
97940
97960
97980
98000
98020
98040
98060
98080
98100
98120
98140
98160
98180
98200
98220
98240
98260
98280
98300
98320
98340
98360
98380
98400
98420
98440
98460
98480
98500
98520
98540
98560
98580
98600
98620
98640
98660
98680
98700
98720
98740
98760
98780
98800
98820
98840
98860
98880
98900
98920
98940
98960
98980
99000
99020
99040
99060
99080
99100
99120
99140
99160
99180
99200
99220
99240
99260
99280
99300
99320
99340
99360
99380
99400
99420
99440
99460
99480
99500
99520
99540
99560
99580
99600
99620
99640
99660
99680
99700
99720
99740
99760
99780
99800
99820
99840
99860
99880
99900
99920
99940
99960
99980
100000

1:5,000

RED HILLS

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

TY

DRILL HOLE LOCALITY PLAN

381 000mE.
382 000mE.
383 000mE.
5 367 000mN.
5 366 000mN.
5 365 000mN.
5 364 000mN.
5 363 000mN.

124N.
16N.
8N.
00
4S.
8S.
4N.
00
12S.
16S.
20S.
24S.
28S.
32S.
40S.
36S.
48S.
44S.
56S.
52S.
64S.
58S.
72S.
66S.
70S.
80S.
74S.
78S.
86S.
92S.
98S.

RHP 94
R.H. 4
RH.12
2950 N.
R.H.7
2750 N.
8S.
2700 N.
GRID DATUM
2650 N.
12S.
2600 N.
R.H.6
2550 N.
R.H.5
16S.
2500 N.
R.H.8
R.H. 16
2450 N.
20S.
2400 N.
2350 N.
2300 N.
24S.
R.H.14 & 14R
2250 N.
R.H.13
2200 N.
R.H.9
R.H.P. 95
2150 N.
28S.
32S.
1950 N.
R.H. 10
36S.
40S.
44S.
48S.
52S.
54S.
G.N.1
(approx.)
1300 N.
R.H.11
1250 N.
58S.
1200 N.
1150 N.
62S.
1100 N.
1050 N.
G.O.D. - Mt. Lyell Grid
1982-83
R.H.15
66S.
70S.
80S.
G.N.2
(approx.)
74S.
78S.
86S.
R.T.E. - E.Z. Grid
Idealized
Location Approximate
1957 - 59
Mt. Lyell
Imperial Grid
1976-77
LAKE
WESTWOOD

1982-83 GRID SURVEY INFORMATION

Grid datum, 2700N, 00E : AMG 5 365 285·45N, 382 145·08E
RL 828·67m

Base line : bearing 171°30' AMG

Grid lines : 50m apart (slope corrected), turned by theodolite, pegged at 25m (slope distance)

GOLD FIELDS EXPLORATION PTY. LIMITED

E.L.9/66
RED HILLS

5 cm

SCALE 1:5000

100 50 0 50 100 150 200
METRES

DRAWN BY : F.G.F.
DRAFTSMAN: T.G.D.S.
DATE :
REVISIONS :

FILE NO.

FIG.

1:1200

RED HILLS

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

COMPOSITE LINE PROFILE LINE 8S

GROUND MAGNETICS

CHARGEABILITY IN MILLISECONDS

POLARISATION

RESISTIVITY IN OHM/METRE

INDUCED

S.P. IN MILLIVOLTS

GRADIENT ARRAY

POLE DIPOLE N M A 200' 200'

POLE DIPOLE A 400' 200'

1200'E. 1300'E. 1400'E. ROAD 1500'E. 1600'E. 1700'E. 1800'E. CREEK 1900'E. 2000'E. 2100'E. 2200'E. 2300'E. 2400'E. 2500'E. 2600'E. 2700'E. 2800'E. 2900'E. ROAD 3000'E. 3100'E. 3200'E.

5 cm

THE CONSOLIDATED SYNDICATE	DRAWN. R.G.WILSON.
	TRACED. R.G.WILSON.
MT. TYNDALL AREA E.L. 9/66	CHECKED.
RED HILLS - LINE 8S.	DATE. 19:1:'74
GEOPHYSICAL AND DRILLING RESULTS	SCALE. 1:1200

1:1200

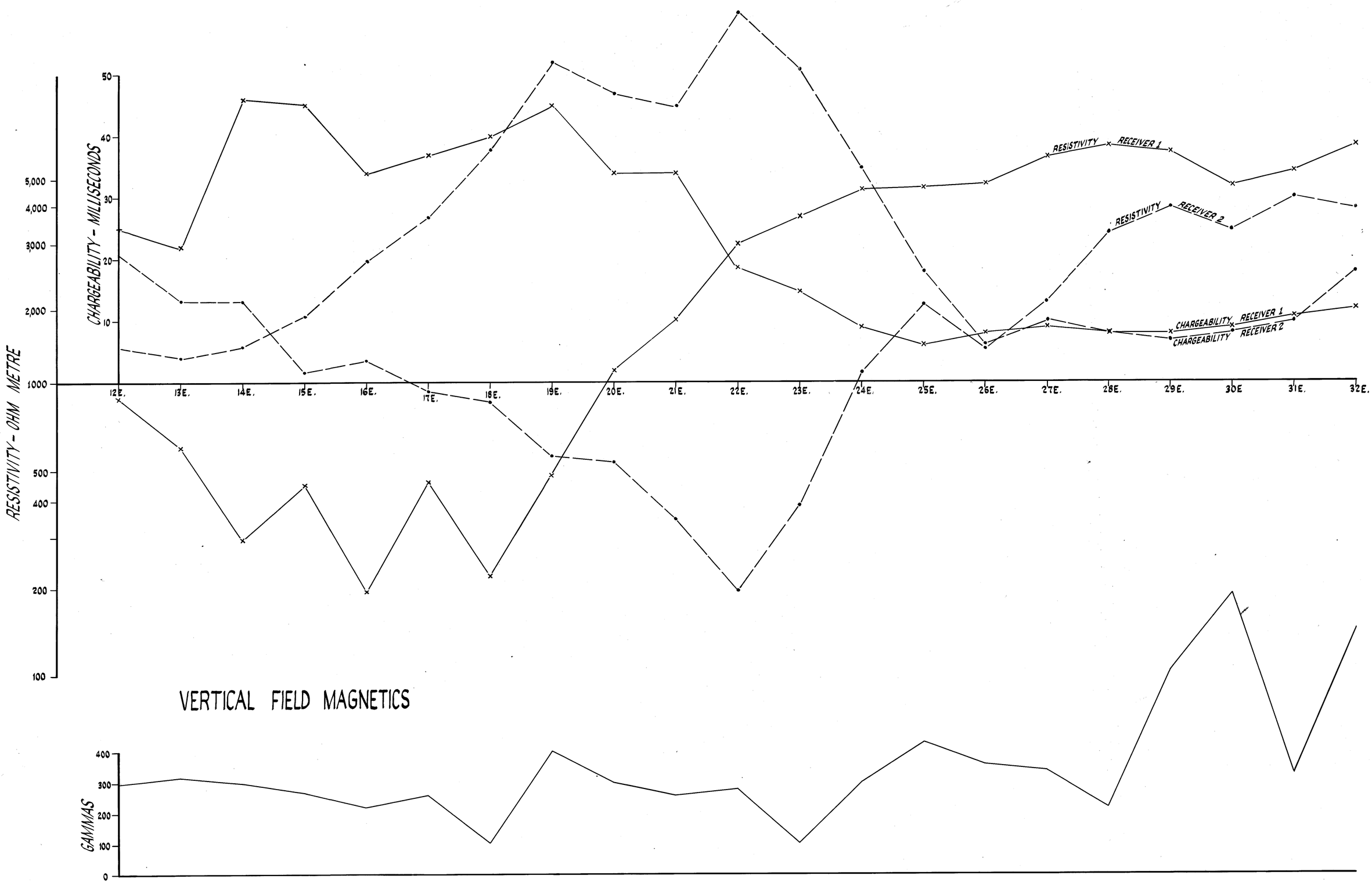
RED HILLS

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

56

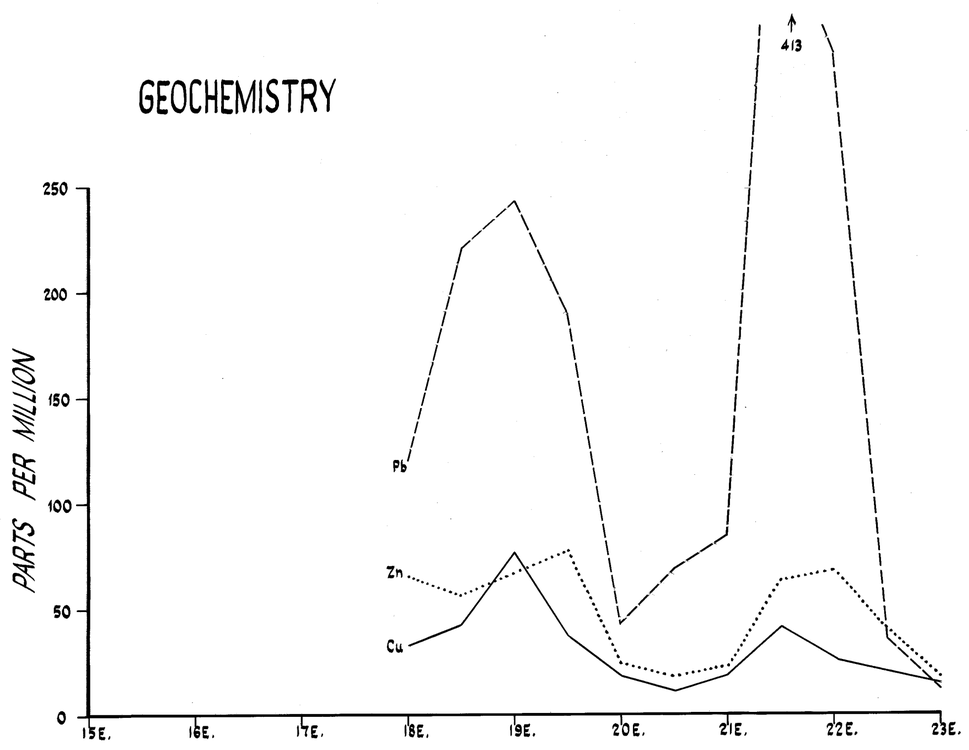
COMPOSITE LINE PROFILE LINE 56S

E.I.P. POLE DIPOLE



VERTICAL FIELD MAGNETICS

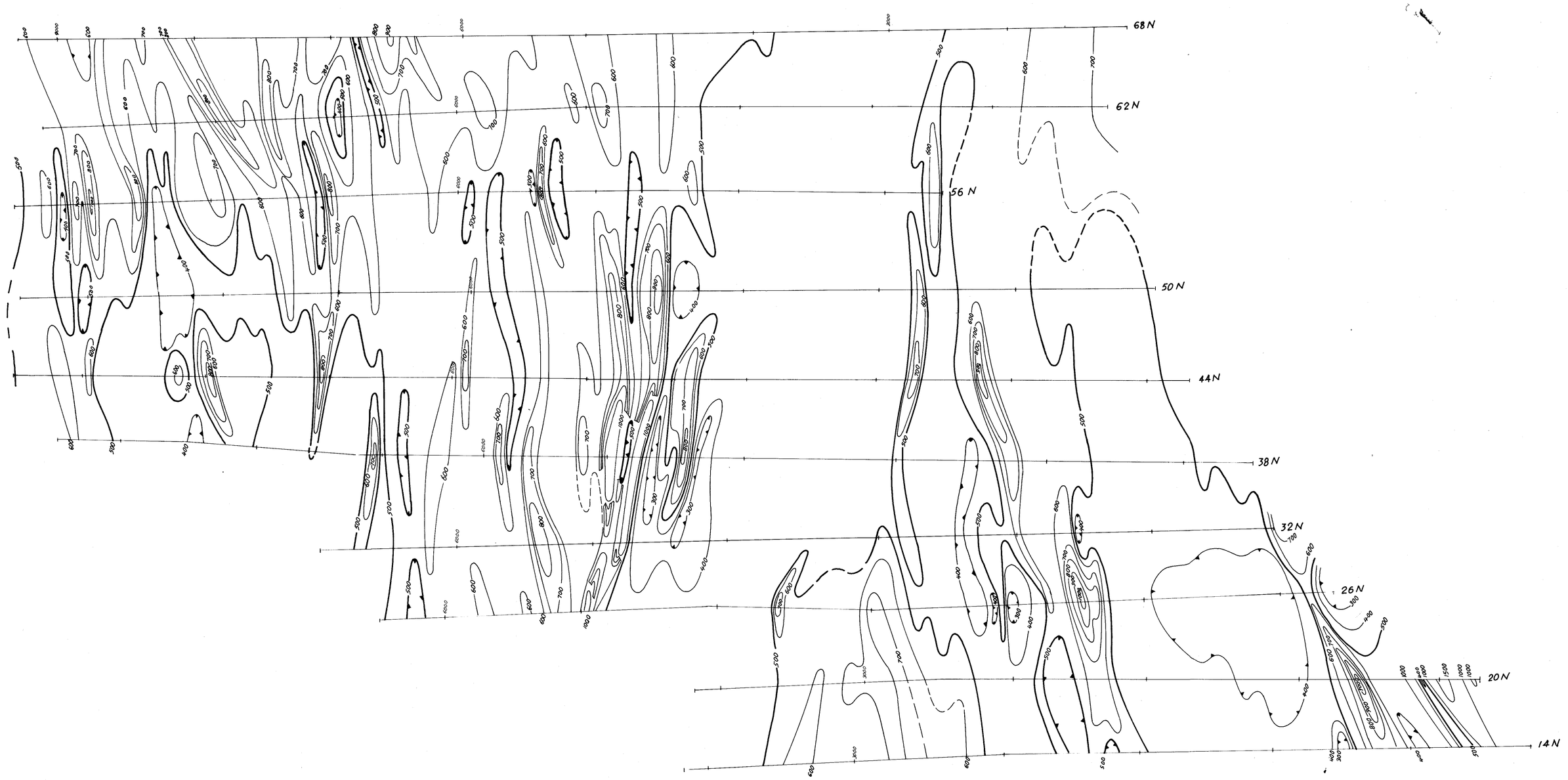
GEOCHEMISTRY



DRILLING PROFILE:

5 cm

THE CONSOLIDATED SYNDICATE	DRAWN. P.B.
	TRACED. A.G.W.
	CHECKED.
MT. TYNDALL E.L. 9/66	DATE. 14:9:'76
RED HILLS AREA.	SCALE. 1:1200
LINE 56S.	



NOTE : Add 62,000γ to all values

MOUNT LYELL MINING & RAILWAY COMPANY LTD.

RED HILLS NORTH

NEAR QUEENSTOWN TASMANIA

TOTAL MAGNETIC FIELD SURVEY

CONTOUR PLAN

SURVEYED & COMPILED BY
SCINTREX

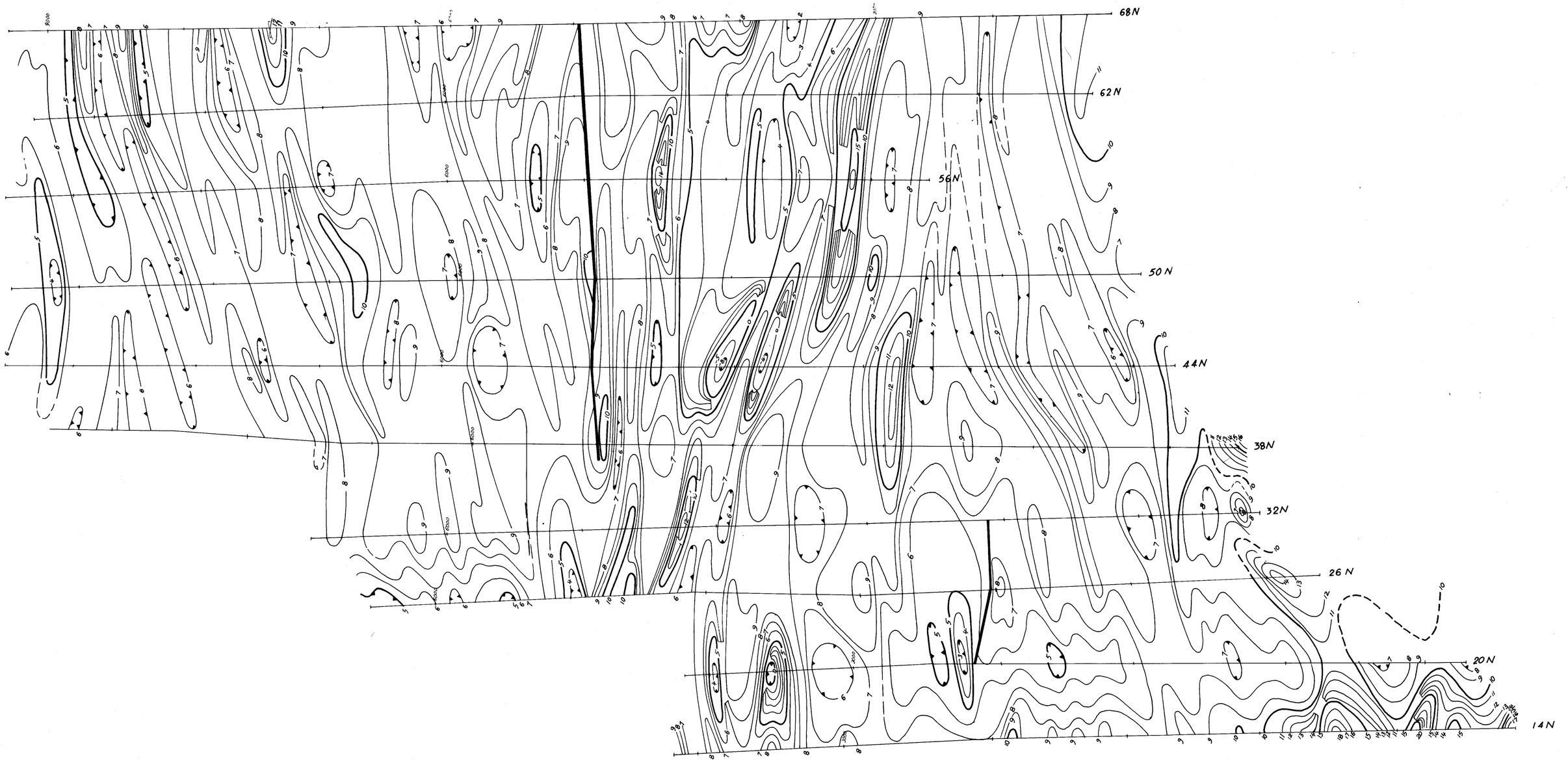
DECEMBER - JANUARY 1978

5 cm

SCALE - 1:6000

Job No. TAS-054-A Sheet 1 of 1 PLATE 3.

TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71
RED HILLS
1:6,000
GEOPHYSICS
MAGNETICS



Gradient block boudary

MOUNT LYELL MINING & RAILWAY COMPANY LTD.

RED HILLS NORTH

NEAR QUEENSTOWN - TASMANIA

GRADIENT ARRAY
ELECTRICAL INDUCED POLARIZATION

CHARGEABILITY CONTOUR PLAN

SURVEYED & COMPILED BY
SCINTREX

DECEMBER-JANUARY 1978

SCALE - 1:6000

5 cm

Job N° TAS-054-A Sheet 1 of 1 PLATE 1.

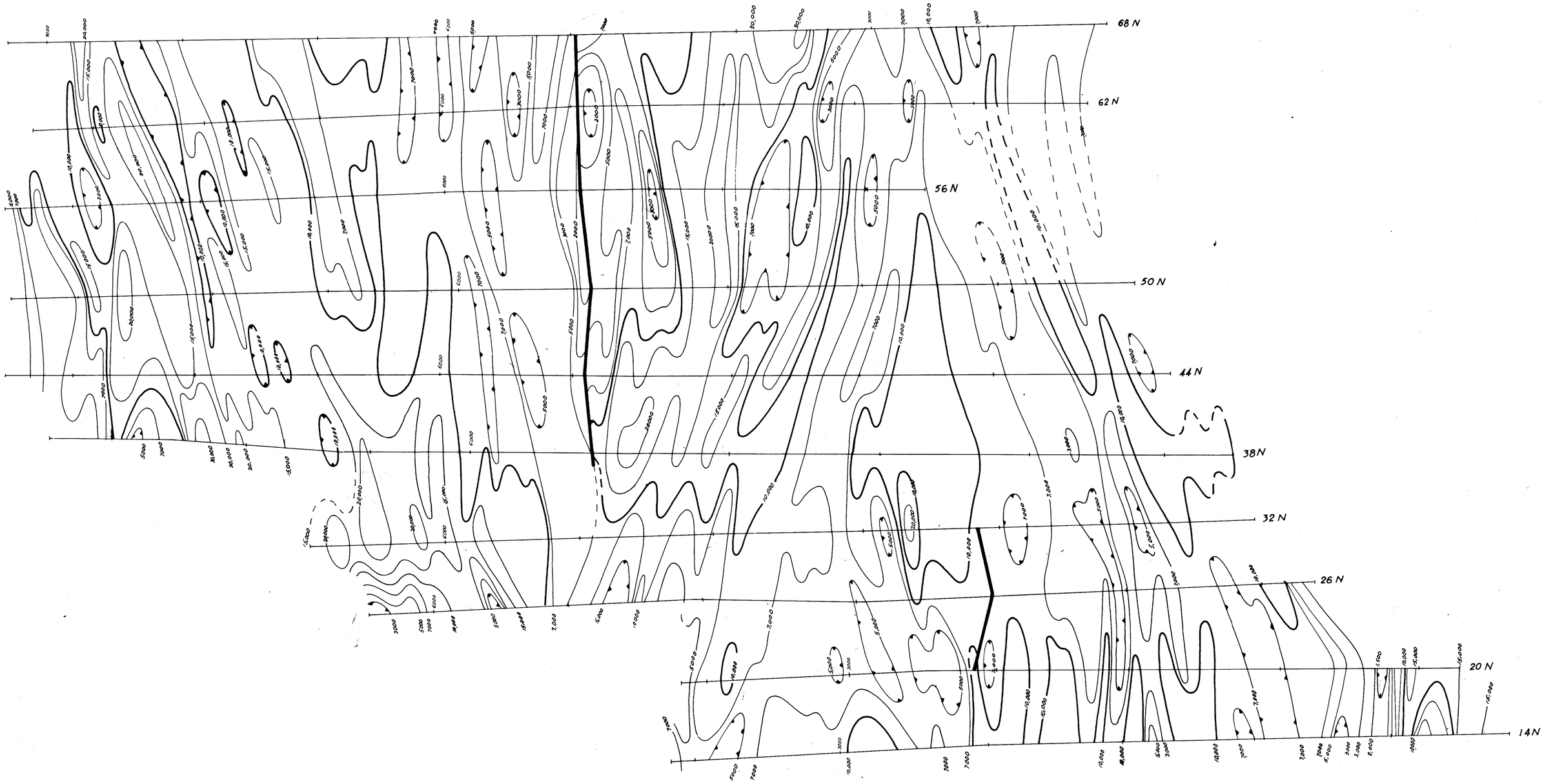
1:6,000

RED HILLS

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

GEOPHYSICS

CHARGEABILITY



Gradient block boundary

MOUNT LYELL MINING & RAILWAY COMPANY LTD.

RED HILLS NORTH

NEAR QUEENSTOWN TASMANIA

GRADIENT ARRAY
ELECTRICAL INDUCED POLARIZATION

RESISTIVITY CONTOUR PLAN

SURVEYED & COMPILED BY
SCINTREX

DECEMBER - JANUARY 1978

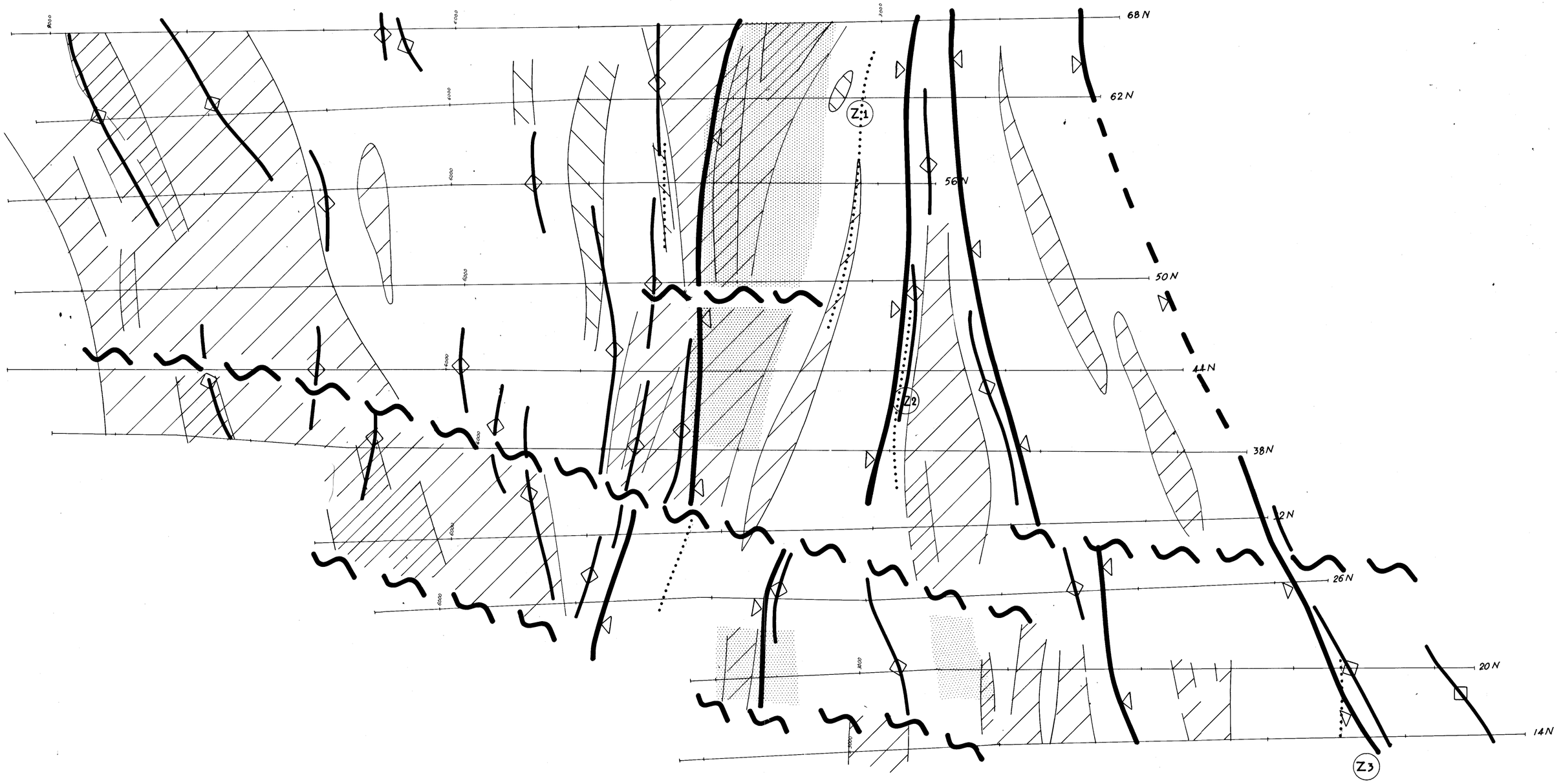
SCALE - 1: 6000

5 cm

Job. N°. TAS-054-A Sheet 1 of 1 PLATE 2.

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

GEOPHYSICS
RESISTIVITY
RED HILLS
1:6000



Legend

mod. high — low — Resistive units

Low chargeability units

Chargeability highs

Individual narrow magnetic units

'Quiet' magnetic units

Dislocations

MOUNT LYELL MINING & RAILWAY COMPANY LTD.

RED HILLS NORTH

NEAR QUEENSTOWN TASMANIA

GRADIENT ARRAY ELECTRICAL INDUCED POLARIZATION & TOTAL MAGNETIC FIELD SURVEY

INTERPRETATION PLAN

SURVEYED & COMPILED BY
SCINTREX

DECEMBER - JANUARY 1978

5 cm

SCALE - 1:6000

Job. No. TAS-054-A Sheet 1 of 1 PLATE 4

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

RED HILLS
GEOPHYSICS
INTERPRETATION
1:6,000

1:1200

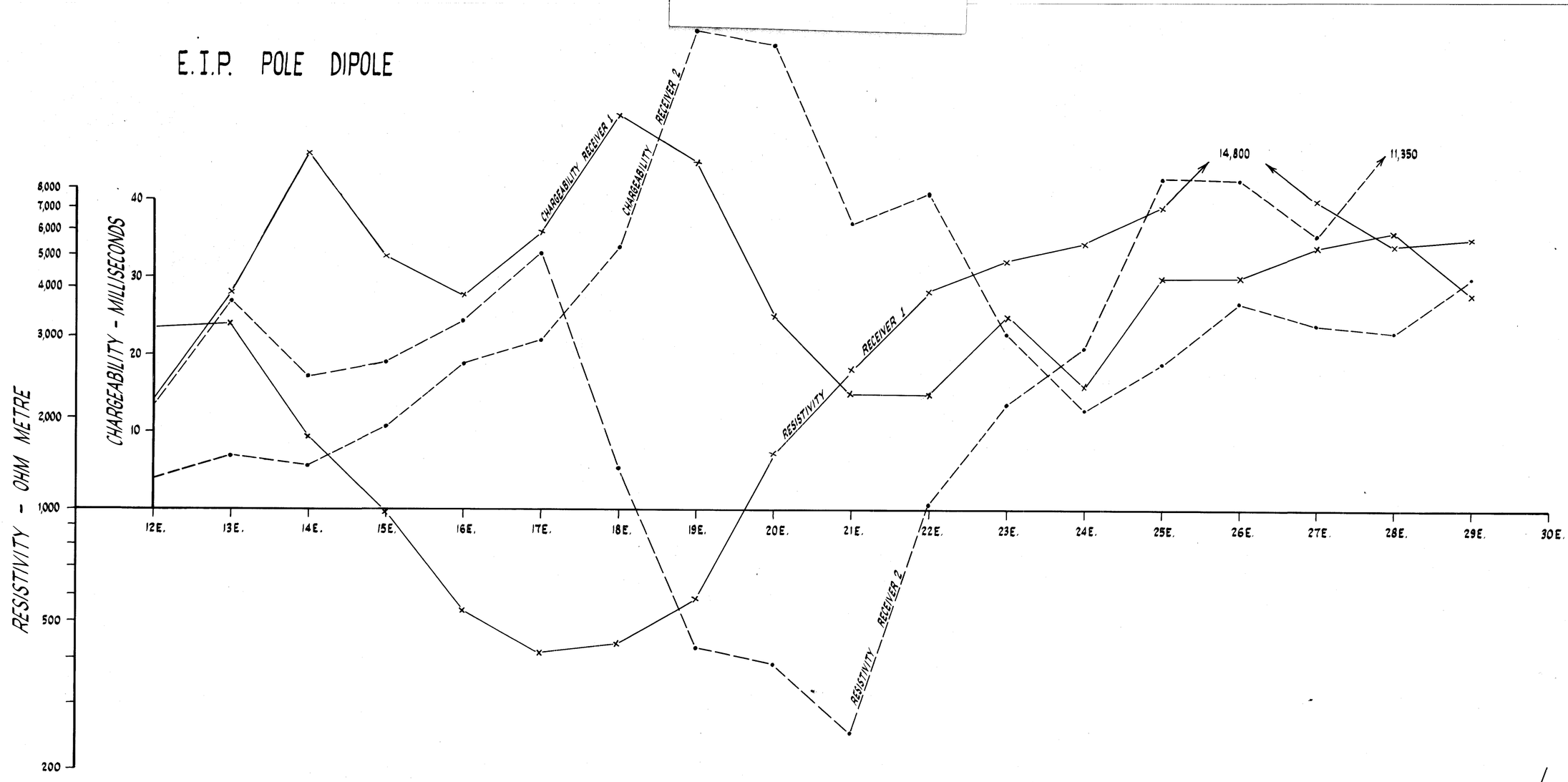
RED HILLS

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

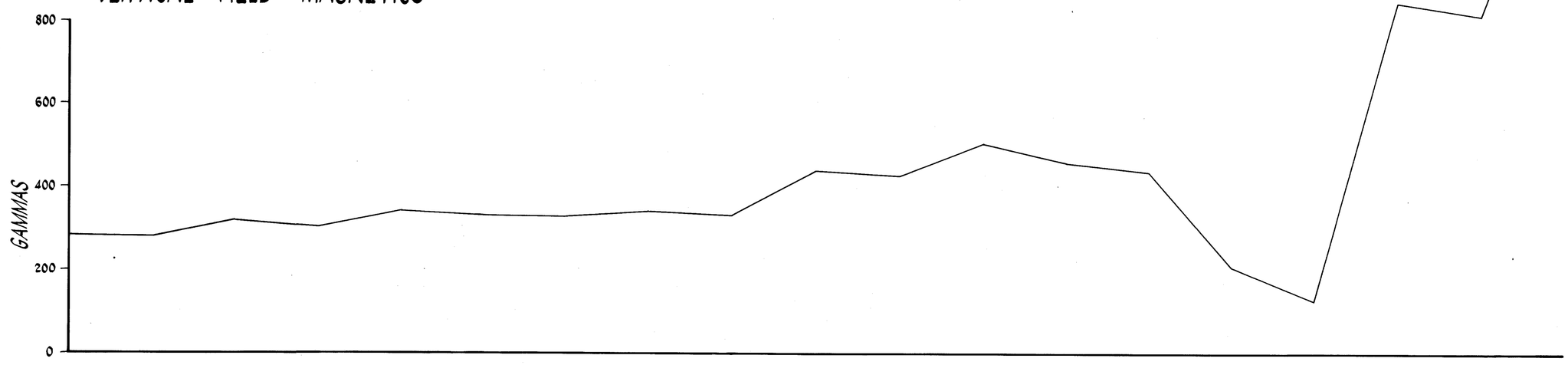
61

COMPOSITE DRILL PROFILE
DDH RH 8

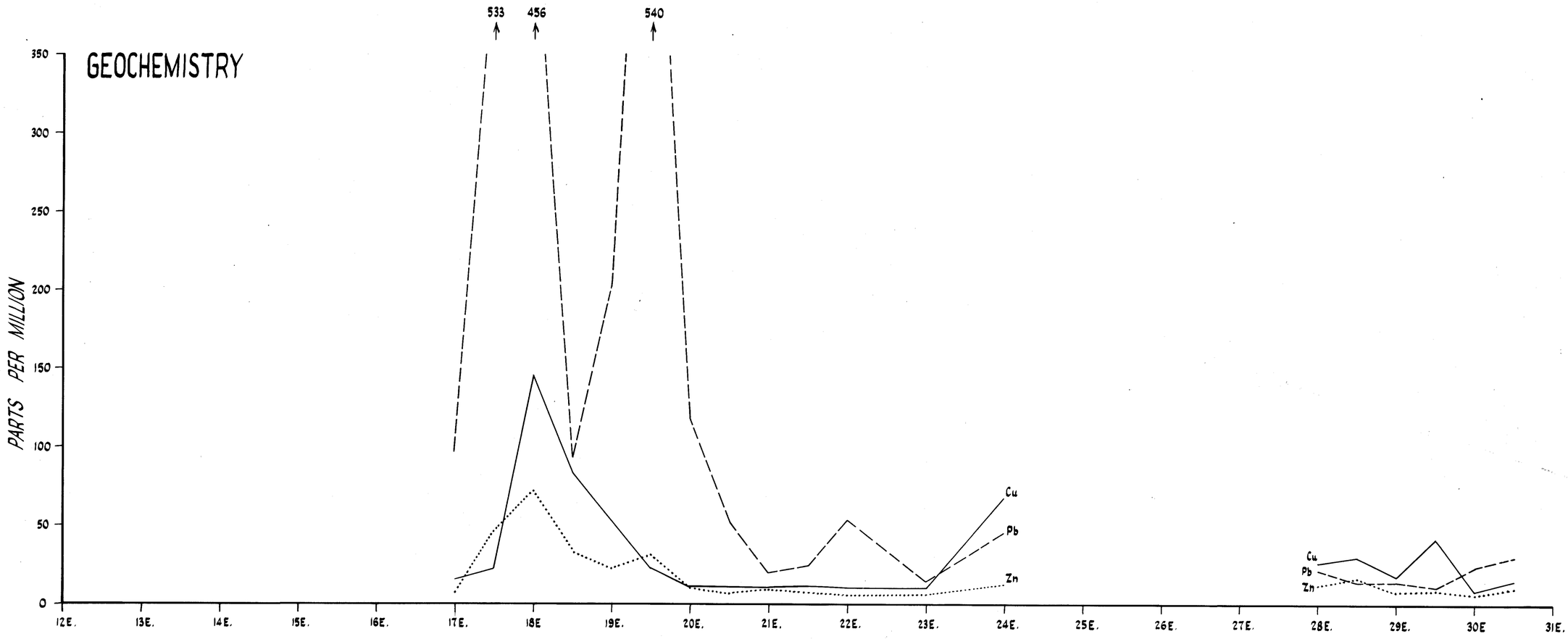
E.I.P. POLE DIPOLE



VERTICAL FIELD MAGNETICS

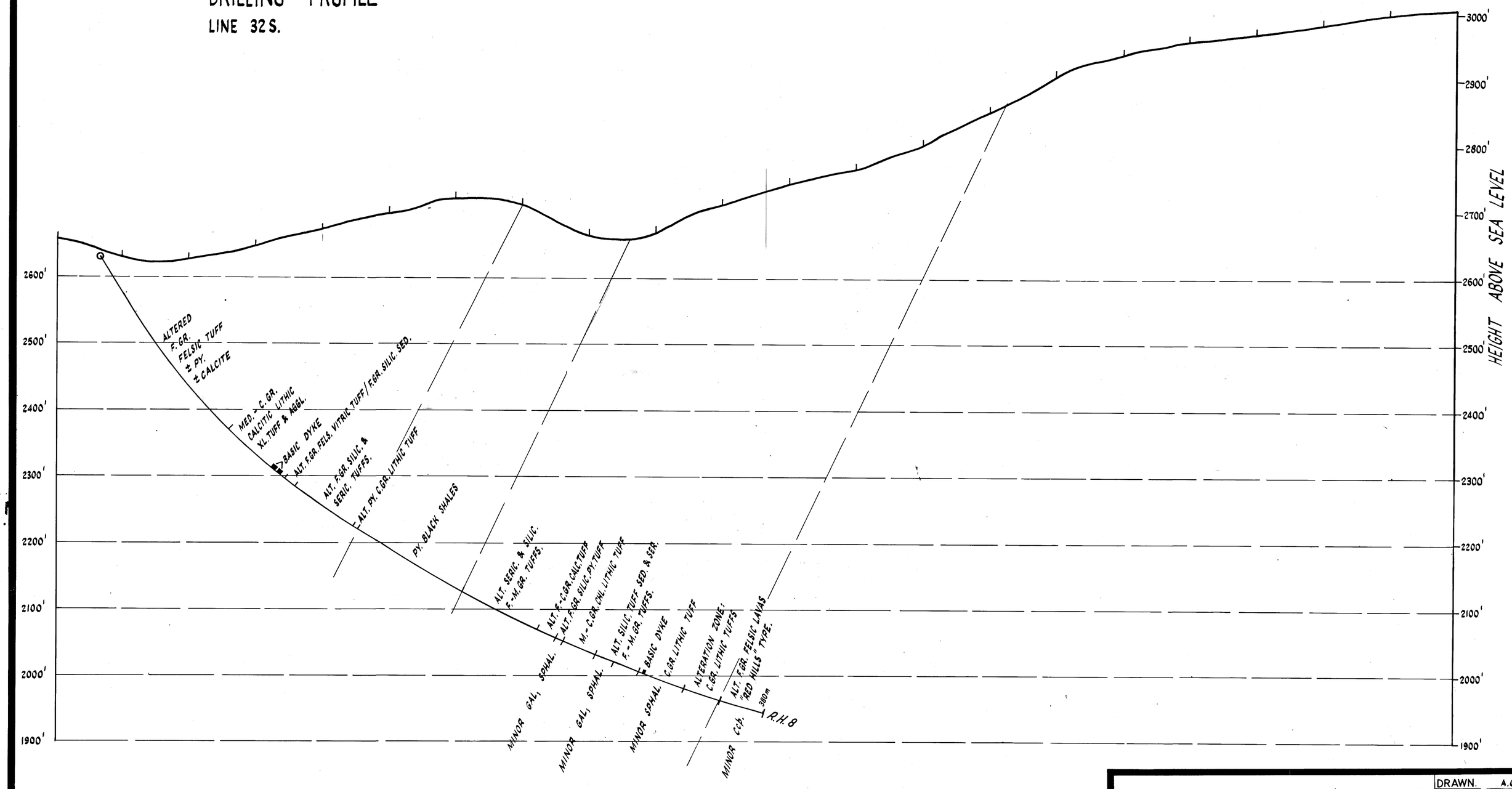


GEOCHEMISTRY



DRILLING PROFILE

LINE 32 S.



5 cm

MT. LYELL - G.O.D.L. JOINT VENTURE	DRAWN. A.C.W.
	TRACED. R.G.W.
MT. TYNDALL E.L. 9/66	CHECKED.
RED HILLS AREA	DATE. NOV. 1977
D.D.H. R.H. 8 - LINE 32 S.	SCALE. 1:1200

1:1200

RED HILLS

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

COMPOSITE DRILL PROFILE
DDH's. RH9+RHP95

E.I.P. POLE DIPOLE

RESISTIVITY - OHM METRE
8000 7000 6000 5000 4000 3000 2000 1000 500

CHARGEABILITY - MILLISECONDS
50 40 30 20 10

CHARGEABILITY RECEIVER 1
CHARGEABILITY RECEIVER 2
RESISTIVITY RECEIVER 1
RESISTIVITY RECEIVER 2

1300'E. 1400'E. 1500'E. 1600'E. 1700'E. 1800'E. 1900'E. 2100'E. 2200'E. 2300'E. 2400'E. 2500'E. 2600'E. 2700'E. 2900'E. 3000'E. 3100'E. 3200'E.

102

VERTICAL FIELD MAGNETICS

GAMMAS
1000 800 600 400 200 0

RESIDUAL GRAVITY

MILLIGALS
0·30 0·20 0·10 0 -0·10

GEOCHEMISTRY

PARTS PER MILLION
300 250 200 150 100 50 0

342 615

LEAD
ZINC
COPPER

1300'E. 1400'E. 1500'E. 1600'E. 1700'E. 1800'E. 1900'E. 2000'E. 2100'E. 2200'E. 2300'E. 2400'E. 2500'E. 2600'E. 2700'E. 2800'E. 2900'E. 3000'E. 3100'E. 3200'E.

DRILLING PROFILE
LINE 40 S.

PROFILE LINE 40S
PROFILE E.-W. THROUGH COLLARS R.H.9 & R.H.P. 95 (150' SOUTH LINE 40S.)

C.G. TUFFS & AGGLOM.
F.-M.GR. LITHIC TUFFS
SIL. SER. F.GR. LITHIC TUFFS
MINOR Cpy.
N.-C.GR. LITH. TUFFS
ALT. BASIC INTRUSIVES
BL. SH. & F.GR. SEDS.
BRECC. ALT. FELSIC LAVAS
BASIC INTRUSIVES
BLACK SHALE
F.-C.GR. CALC. LITHIC (XTAL) TUFF
MINOR Sp.
BLACK PY. CARB. SHALE C.GR. ALT. LITH. TUFF
DISS. GAL. SP. / Cpy.
BLACKSHALES
F.-M.GR. ALT. (XTAL) LITHIC TUFF
D.D.H. R.H.P. 95
BL. PY. CARB. SHALE & MIXED F.-M.GR. LITH. TUFFS
MINOR Sp. Tr. Sp.
MIXED F.-V.C.GR. LITHIC TUFFS
S-MS. GAL. PY. Sp. (Cpy.) DISS. Sp.
DISS. Sp.
F.GR. ALT. SILIC. (CHL.) TUFFS
Tr. Cpy.
ALT. ZONE - C.GR. TUFFS
ALT. SILIC. FELDS. CHL. F.GR. LAMA-FELS. "R.H." TYPE
D.D.H. R.H.9

HEIGHT ABOVE SEA LEVEL
2800' 2700' 2600' 2500' 2400' 2300' 2200' 2100' 2000'

NOTE:
PRELIMINARY PLOT ONLY
(SURVEY OF COLLARS REQUIRED)

5 cm

THE CONSOLIDATED SYNDICATE	DRAWN. P.B.
	TRACED. R.G.W.
MT. TYNDALL E.L. 9/66	CHECKED.
RED HILLS AREA	DATE. DEC. '69
D.D.H's. R.H.9 & R.H.P. 95 - LINE 40 S.	SCALE. 1:1200

1:1200

RED HILLS

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

63

COMPOSITE DRILL PROFILE
DDH RH 10

E.I.P. POLE DIPOLE

RESISTIVITY - OHM METRE

CHARGEABILITY - MILLISECONDS

CHARGEABILITY RECEIVER 1

CHARGEABILITY RECEIVER 2

RESISTIVITY RECEIVER 1

RESISTIVITY RECEIVER 2

1100'E. 1200'E. 1300'E. 1400'E. 1500'E. 1600'E. 1700'E 1800'E. 1900'E. 2100'E. 2200'E. 2300'E. 2400'E. 2500'E. 2600'E. 2700'E. 2800'E 2900'E. 3000'E.

VERTICAL FIELD MAGNETICS

GAMMAS

1400

2400

RESIDUAL GRAVITY

MILLIGALS

GEOCHEMISTRY

PARTS PER MILLION

LEAD

ZINC

COPPER

1100'E. 1200'E. 1300'E. 1400'E. 1500'E. 1600'E. 1700'E. 1800'E. 1900'E. 2000'E. 2100'E. 2200'E. 2300'E. 2400'E. 2500'E. 2600'E 2700'E. 2800'E. 2900'E. 3000'E.

DRILLING PROFILE

LINE 48 S.

ROAD

RH 10?

shales

CREEK

shales

CREEK

shales

D.D.H. R.H.10

HEIGHT ABOVE SEA LEVEL

5 cm

THE CONSOLIDATED SYNDICATE	DRAWN.
	TRACED. R.G.W.
MT. TYNDALL E.L. 9/66	CHECKED.
RED HILLS AREA	DATE.
DDH RH 10	SCALE. 1:1200

1:1200

RED HILLS

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

64

COMPOSITE DRILL PROFILE
D.D.H. R.H. 11

E.I.P. POLE DIPOLE

CHARGEABILITY - MILLISECONDS

CHARGEABILITY RECEIVER 2

CHARGEABILITY RECEIVER 1

RESISTIVITY - OHM METRE

RESISTIVITY RECEIVER 2

RESISTIVITY RECEIVER 1

1800'E. 1900'E. 2000'E. 2100'E. 2200'E. 2300'E. 2400'E. 2500'E. 2600'E. 2700'E. 2800'E. 2900'E. 3000'E. 3200'E. 3300'E. 3400'E. 3600'E. 3700'E. 3800'E.

VERTICAL FIELD MAGNETICS

GAMMAS

63800
63600
63400

GEOCHEMISTRY

PARTS PER MILLION

LEAD

COPPER

ZINC

500 450 3200 500 3150

1800'E. 1900'E. 2000'E. 2100'E. 2200'E. 2300'E. 2400'E. 2500'E. 2600'E. 2700'E. 2800'E. 2900'E. 3000'E. 3100'E. 3200'E. 3300'E.

DRILLING PROFILE

330' NORTH LINE 72 S.

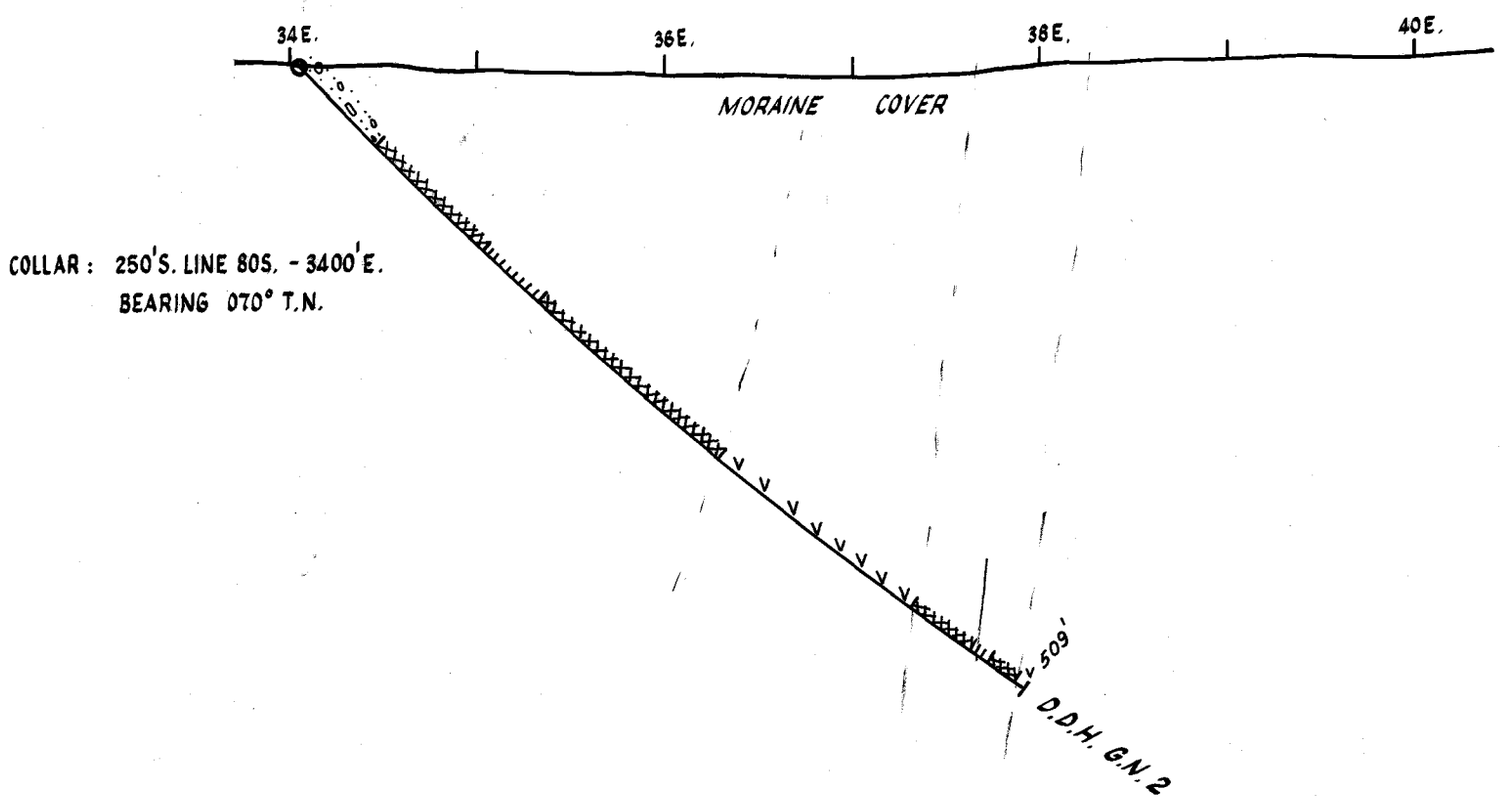
ABOVE SEA LEVEL

2100' 2000' 1900' 1800' 1700' 1600' 1500' 1400' 1300' 1200' 1100'

D.D.H. R.H. 11

5 cm

THE CONSOLIDATED SYNDICATE	DRAWN.
	TRACED. R.G.W.
MT. TYNDALL E.L. 9/66	CHECKED.
RED HILLS AREA	DATE.
LINE 72 S. - R.H. 11	SCALE. 1:1200



COLLAR : 250'S. LINE 80S. - 3400'E.
BEARING 070° T.N.

:o:·:o:· GLACIAL MORAINE

:v:·:v: CRYSTAL TUFFS

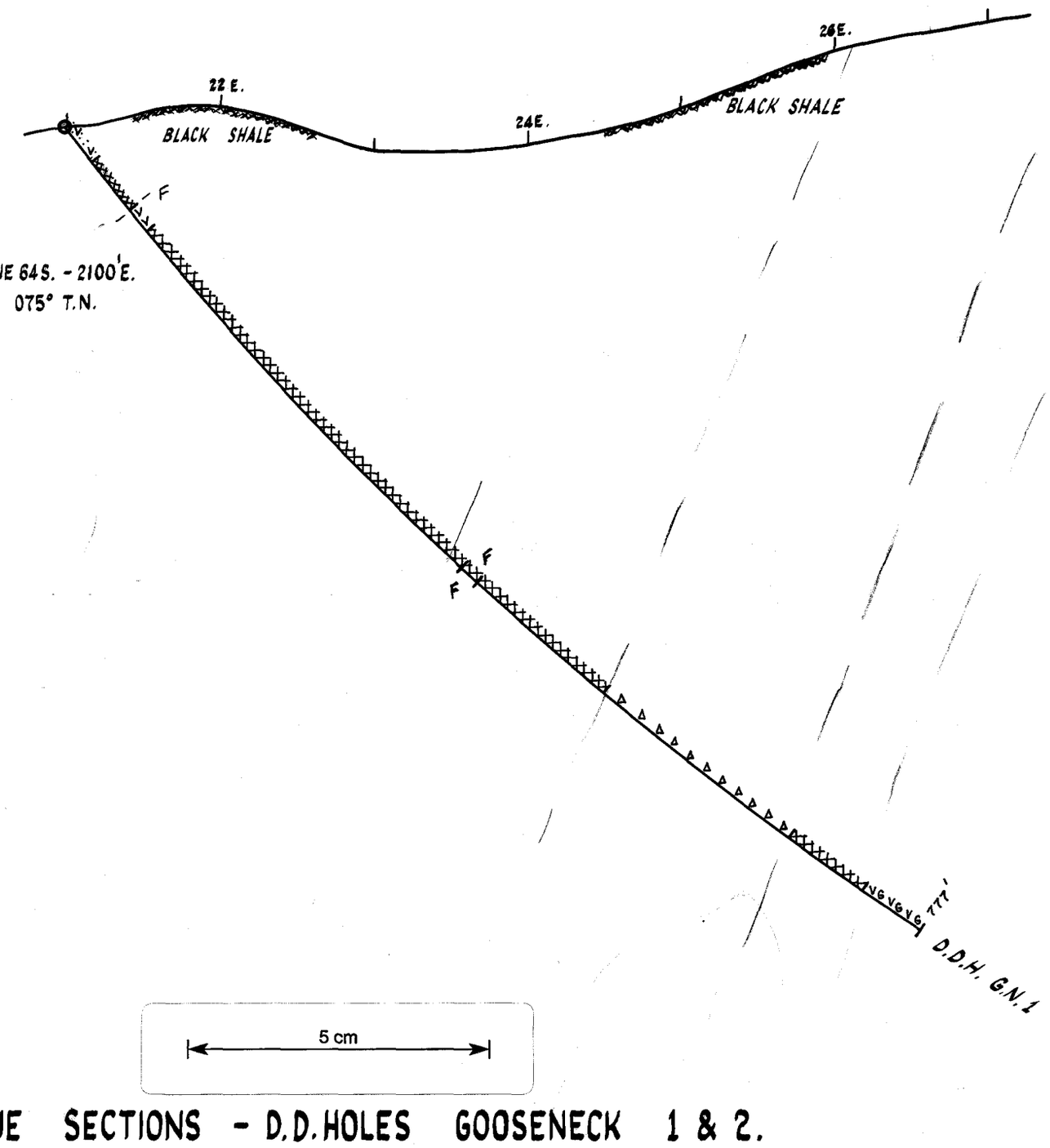
v v CRYSTAL LITHIC TUFFS

Δ Δ COARSE ACID TUFFS

vGv GRADED ACID TUFFS

BLACK SHALES

SILTSTONES



COLLAR: 380'S. LINE 64S. - 2100'E.
BEARING 075° T.N.

5 cm

TRUE SECTIONS - D.D. HOLES GOOSENECK 1 & 2.

SCALE: 1:1200

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

DRILL SECTIONS
GN1 + GN2

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

1 : 600

RED HILLS

DRILL SECTION DDH RH 7

W. E.

HEIGHT ABOVE SEA LEVEL

2900' 2800' 2700' 2600' 2500' 2400' 2300' 2200' 2100' 2000' 1900' 1800'

NOT ASSAYED

ASSAYED

6m 1.97% Zn

NOT ASSAYED

DDH. R.H.7

150 26 216

LITHOLOGY

- CARBONACEOUS SHALE
- VERY FINE GRAINED TUFFACEOUS SEDIMENT
- FINE GRAINED FELSIC TUFF
- MEDIUM GRAINED FELSIC TUFF
- COARSE GRAINED FELSIC TUFF
- FELSIC LAVA
- RED HILLS LAVA
- BASIC DYKE

ALTERATION

- SILICIFICATION
- CHLORITISATION
- SERICITISATION
- POTASSIC
- CARBONATE

MINERALISATION

	DISSEM./VEIN	MASSIVE
SPHALERITE	----	——
GALENA	× × ×	✱ ✱ ✱
PYRITE	+ + +	+++
CHALCOPYRITE	∘ ∘ ∘	◆◆◆

5 cm

MT. LYELL - G.O.D.L. JOINT VENTURE

MT. TYNDALL E.L. 9/66

RED HILLS AREA

DIAMOND DRILL SECTION - R.H.7

DRAWN	R.MEARES
TRACED	R.G.WILSON
CHECKED	
DATE	FEB. 1978
SCALE	1 : 600

1:6000

HOWARDS ACCESS BASE SHEET

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

67

30N
Line 30N Pit
00
400S
800S
28N
Tyndall Mine
1200S
1600S
2000S
26N
2400S
25N
2800S
3200S
Newton Creek
3600S
24N
4000S
D.D.H. HA3
23N
4400S
4800S
Trench B
5200S
22N
5600S
21N
Trench
6000S
Hematite-barite occurrence
RIO TINTO GRID
6400S
20N
D.D.H HA182
Trench A
19N
Creek
Trench C.
MT LYELL GRID
18N
17N
Tyndell
T.N
M.N
D.D.H TYN3
Trench D
16N
15N
14N
12N
DD.H. TYN.1
10N

MT. LYELL – G.O.D.L. JOINT VENTURE
HOWARDS ANOMALY
5 cm
SCALE 1"=500' | DATE 2-5-79 | AUTHOR

1:5,000

HOWARDS — EAST TYNDALL

CONTOUR + ACCESS BASE SHEET

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

68

29·6N
29·2N
30N
27·6N
27·3N
27N
26·8N
26·6N
26·4N
28N
26N
25N
24·5N
23·7N
23·4N
24N
22·5N
23N
22·2N
21·9N
21·6N
21·3N
22N
21N
20·6N
20·2N
19·7N
19·4N
20N
18N
19N
17N
16N
15N
14N
13N
12N
10N
9N
8N
7N
6N
5N
4N
2N
MT1 (582·08)
MT3 (536·45)
MT5 (627·21)
MT7 (543·55)
MT8 (555·41)
HA1
HA2
HA3
HA4
Newton
Costean
Tramway
RIVER
5354000mN
380,000mE

- SEALED ROAD, BRIDGE
- VEHICULAR TRACK
- LOGGING TRACK, BULLDOZER SCAR
- WALKING TRACK
- RAILWAY, TRAMWAY ABANDONED
- PROMINENT PEAK
- TRIG STATION
- BENCH MARK
- SPOT ELEVATIONS
- RIVER, CREEK
- LAKE
- SWAMP
- POWER LINE & PYLONS
- BUILDING
- FLYING FOX
- PIT
- COSTEAN, TRENCH
- ADIT
- SHAFT (Depth metre)
- OPEN CUT
- ALLUVIAL WORKINGS
- DUMP

100 0 100 200 300 400 500
Metres

THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

EAST TYNDALL
HOWARD S ANOMALY

5 cm

SCALE 1:5000
DATE NOV' 1981
DRAWN BY
DRAFTSMAN H.D.J.

REVISIONS
E.L.9/66

A0-171-

HOWARDS ANOMALY

GEOCHEM. COVER

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

69

1:6,000
(1979)

30N
28N
26N
25N
24N
23N.
22N
21N
20N
19N
18N
17N
16N
15N
14N
12N
10N

00
400S
800S
1200S
1600S
2000S
2400S
2800S
3200S
3600S
4000S
4400S
4800S
5200S
5600S
6000S
6400S

Line 30N Pit

Tyndall Mine

Newton Creek

D.D.H. HA3

Trench B

Trench

Hematite-barite occurrence

Rio Tinto Grid

D.D.H HA 1&2

Trench A

Creek

Trench C.

Mt Lyell Grid

Tyndell

D.D.H TYN3

Trench D

D.D.H. TYN.1

GEOCHEMICAL COVERAGE

Soil

Rio Tinto 1958, 100' intervals

Mt. Lyell 1967-68, 200' intervals; A & / or B-C horizon; Cu, Pb, Zn

Mt. Lyell 1969, 100' intervals; A & / or B-C horizon ?; Cu, Pb, Zn

Mt. Lyell 1975, 50' intervals; A, B or C horizon; Cu, Pb, Zn, -80 & -10 / +80

Stream Sediments

Mt. Lyell 1967-68

T.N M.N

5 cm

MT. LYELL – G.O.D.L. JOINT VENTURE

HOWARDS ANOMALY

GEOCHEMICAL COVERAGE

SCALE 1"=500'	DATE 2-5-79	AUTHOR G.D	FIG. 13

1:5000

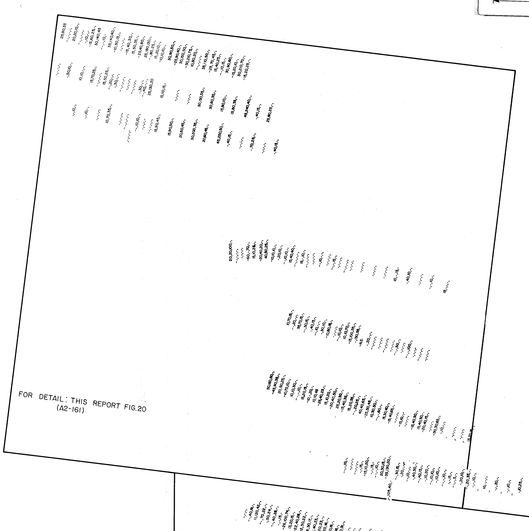
HOWARDS

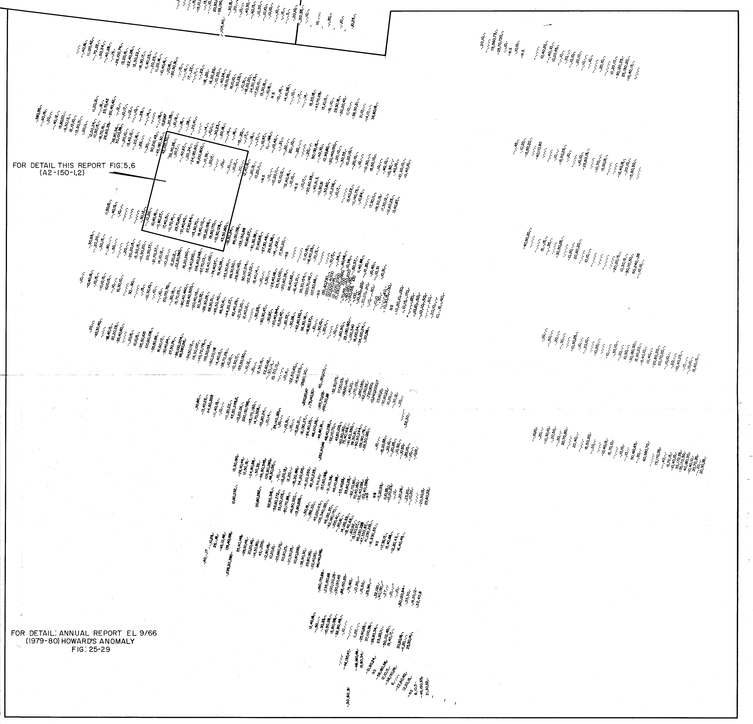
GEOCHEMISTRY

E

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

5 cm





SOIL GEOCHEMISTRY

Cu, Pb, Zn, Ag, Mn, Co, Bi, Fe

Assays listed in order reading away from sample point
< = below detection point
/ = not assayed
NS = not sampled
Samples assayed at Mt Lyell by AAS, -80# fraction
Detection limits Cu, Pb, Zn, Mn, Co, Fe: 10ppm
Ag: 2 ppm
Bi: 100ppm

FIG4

-1

1:5,000

HOWARDS E

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

STREAM GEOCHEMISTRY

5 cm

28978 -,-,-,-,-

28977 -,-,-,-,30,-

28976 -,-,-,-,-,-

28974 -,-,-,-,-,-

28975 -,-,-,-,30,-

28972 -,-,-,-,-,-

28971 -,-,-,-,-,-,-

28970 170,110,730,-,250,-

28973 55,330,320,-,4400,-

28954 -,10,15,-,200,-

28953 10,20,20,-,120,-,

28952 20,-,-,-,20,-

28951 10,-,-,-,20,-

28949 -,-,20,-,80,-

28950 -,-,15,-,240,-

28948 -,10,15,-,150,-

28947 -,20,15,-,150,-

28946 -,-,-,20,-,150,-

28945 20,20,35,-,440,-

28944 10,20,45,-,1000,-

28943 50,40,75,-,1000,-

28942 40,90,75,-,1500,-

28941 10,80,70,-,1000,-

28940 20,80,65,-,1500,-

28939 -,40,15,-,1100,-

28938 -,30,25,-,1100,-

28937 10,50,35,-,1900,-

28936 10,80,80,-,3000,-

28935 -,40,40,-,4200,-

28934 -,10,20,-,160,-

28933 30,30,50,-,620,-

28932 46,50,80,-,1400,-

28931 20,40,50,-,640,-

28930 30,90,105,-,2700,-

28917 -,30,60,-,520,-

28916 20,60,10,-,2600,-

28915 20,70,75,-,1800,130

28914 10,40,46,-,7800,200

28913 15,50,60,-,1400,-

28912 -,20,20,-,1200,-

28911 10,20,30,-,1000,160

28910 100,70,55,-,420,-

28909 10,-,30,-,280,-

28908 30,10,50,-,470,-

28907 10,10,20,-,150,-

28906 -,10,20,-,260,-

28905 15,10,25,-,590,-

28904 10,-,25,-,300,-

28903 -,-,20,-,120,-

28902 10,-,15,-,60,-

28901 10,-,55,-,80,-

28918 30,70,55,-,420,-

28919 25,30,20,-,190,-

28920 50,40,30,-,230,-

28921 20,50,15,-,300,-

28922 10,-,10,-,30,-

28923 10,20,10,-,20,-

28924 -,30,10,-,140,-

28925 -,-,-,-,10,-

28926 -,-,-,-,10,-

28927 -,-,-,-,10,-

28928 -,-,-,-,30,-

28960 -,20,25,-,180,-

28959 -,30,30,-,560,-

28958 -,40,35,-,520,-

28957 -,20,25,-,690,-

28955 15,40,35,-,280,-

28956 10,20,10,-,270,-

28962 -,-,20,-,120,-

28963 -,10,15,-,350,-

28964 -,10,15,-,180,-

28965 -,10,15,-,390,-

28966 -,20,30,-,210,-

28967 -,30,30,-,460,-

28968 -,20,20,-,240,-

28969 -,20,20,-,620,-

28929 / 40,30,40,40,-

STREAM SEDIMENT DATA

Cu, Pb, Zn, Ag, Mn, Ba

Assays listed in order reading away from sample point

- = below detection point

/ = not assayed

NS= not sampled

Samples assayed at Mt Lyell by AAS, -80# fraction

Detection limits: Cu, Pb, Zn, Mn, 10ppm
Ag. 2 ppm
Ba. 100ppm

TCK 81-1660

G,S 120

STREAM SEDIMENTS

1:6000

HOWARDS

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

GEOPHYSICS

IP+EM+MAG: 1969

MT. TYNDALL LEASE
EL. 9/66
HOWARD'S ANOMALY
GEOPHYSICAL COVERAGE

DRAWN BY: L.A.M.
CHECKED BY: L.A.M.
DATE: 3-6-69

TRAVERSE LINES WITH MAGNETIC READINGS (γ) AND FOOTAGES

I.P. ANOMALY
DEFINITE
PROBABLE — COVERAGE BY MT. PHAR
POSSIBLE
LIMIT OF DETAILED I.P. COVERAGE

TURAM ANOMALY
COVERAGE BY RIO TINTO — LIMIT OF TURAM COVERAGE

MAGNETIC CONTOUR LINES

TRENCHES

MAIN ROAD

MAJOR TIMBER TRACKS

5 cm

Scale: 1" : 200'

MAG. N.

LINE 27
LINE 25
LINE 23
LINE 21
LINE 19
LINE 17
LINE 15
LINE 13
LINE 11
LINE 9
LINE 7
LINE 5

TYNDALL Mine SHAFT

1:2500

HOWARDS

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

73

DETAILED GRID BASE

380|000m E
381|000m E
5560|000mN
3500'W
3000'W
2500'W
2000'W
1500'W
1000'W
500'W
00
30 N
3500'W
3000'W
2500'W
2100'W
29·6 N
3500'W
3000'W
2500'W
2000'W
1800'W
29·2 N
28 N
4500'W
4000'W
3500'W
1800'W
1500'W
1000'W
500'W
3500'W
3400'W
27·6 N
27·3 N
3300'W
3200'W
1600'W
27 N
3100'W
1400'W
26·8 N
26·4 N
3000'W
1300'W
26·6 N
1200'W
5559|000mN
5500'W
5000'W
4500'W
4000'W
3500'W
3000'W
2500'W
2000'W
26 N
5559|000m N
380|000m E

GN
TN
MN
GRID CONVERGENCE 0°50'
GRID MAGNETIC ANGLE 12°

The relationship between True North Grid North and Magnetic North is shown diagrammatically. Magnetic value is correct for 1980. Annual change is 03' (0·9 miles) Easterly

THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

EAST TYNDALL

5 cm

SCALE 1:2500	DRAWN BY	A2-161
DATE 8th. August, 1981.	DRAFTSMAN P.J.R.	

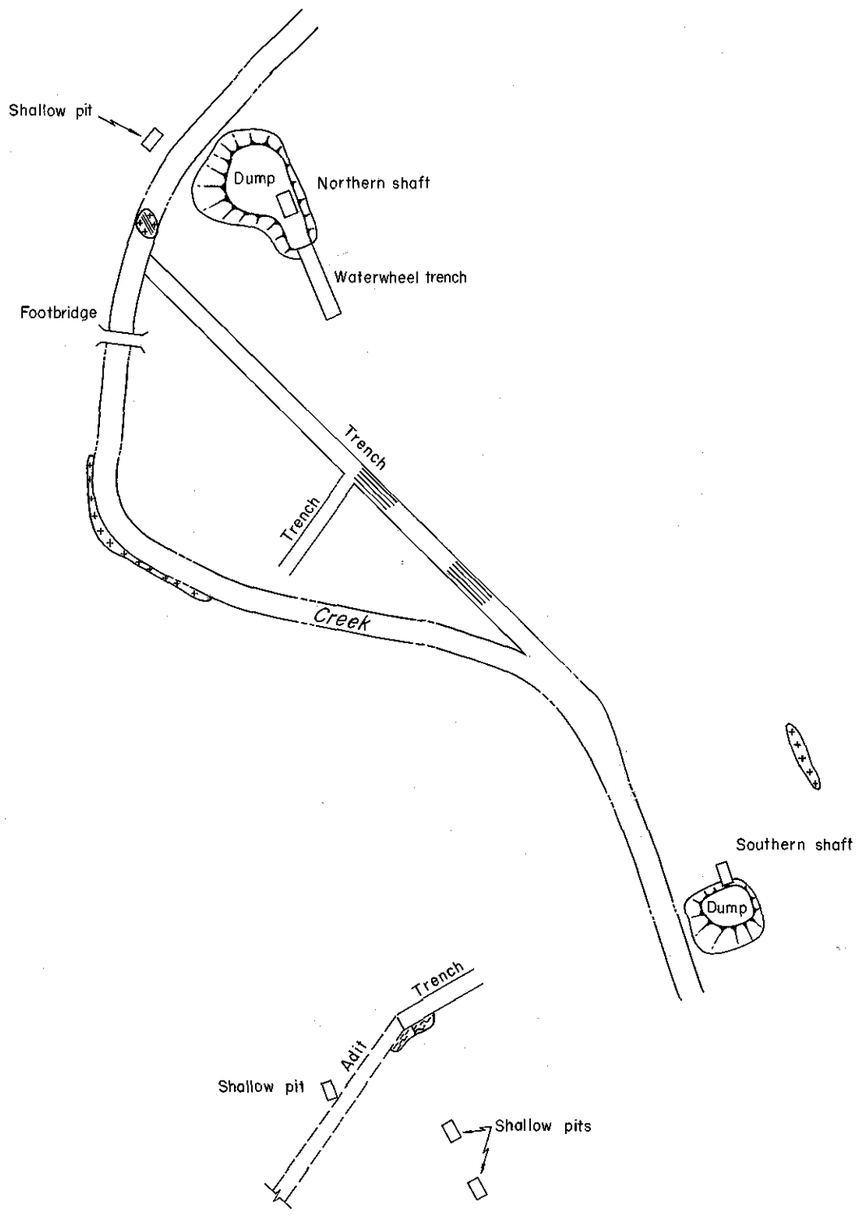
HOWARDS
1:500

TYNDALL MINE

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

74

A2-80



N (mag)

GEOLOGICAL LEGEND

- Milky quartz veining, often sulfide-bearing
- Quartz-feldspar porphyritic lava.
- Quartz-feldspar crystal lithic tuff, sheared.
- Quartz-feldspar crystal tuff, sheared.

MT. LYELL – G.O.D.L. JOINT VENTURE

TYNDALL MINE WORKINGS

SCALE 1:500	DATE: 22-5-79	AUTHOR G.D.	A2-80

5 cm

1 : 6,000

HOWARDS

GEOPHYSICAL
EM+ MAG : 1957

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 L. NEWNHAM
TRACED BY L.N.
CHECKED BY L.M.
DATE 17-9-68
SCALE 1" = 500'

GEOPHYSICAL [TURAM, MAGNETICS] COVERAGE BY RIO TINTO 1957-59 SUPERIMPOSED ON THE PRESENT EAST TYNDALL ROAD.

5 cm

LINE 22
LINE 24
LINE 26
LINE 28
LINE 30
LINE 32
LINE 34
LINE 36

MAIN BASELINE
SUB - BASE LINE

SOUTHERN ANOMALY
EASTERN ANOMALY
TYNDALL ANOMALY

GEOCHEM GOOD
GEOCHEM V. GOOD

TYNDALL MINE
READ ORIGIN

T.N. M.N.

DEFINITE TURAM (PHASE DIFF.) ANOMALY
WEAK TURAM (PHASE DIFF.) ANOMALY
MAGNETIC HIGHS
EAST TYNDALL ROAD

1:1,000

HOWARDS

COMPOSITE PROFILE

LINE 22N

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

GROUND MAGNETICS

GAMMAS

64000 63500 63000 62500 62000

2600 2500 2400 2300 2200 2100 2000 1900 1800 1700 1600 1500 1400 1300 1200 1100 1000

GAMMAS

EIP GRADIENT ARRAY

CHARGEABILITY mV/V

40 30 20 10

RESISTIVITY

CHARGEABILITY

20,000 10,000 5,000 3,000 1,000

RESISTIVITY - ohm-metre

SOIL GEOCHEMISTRY

PARTS PER MILLION
Cu - Pb - Zn - Ba - Mn

3000 2000 1000 0

6800 ppm Mn

2.0% Pb
58% Mn

Mn
Pb
Ba
Zn
Ag
Cu

18 16 14 12 10 8 6 4 2

PARTS PER MILLION
Ag

2600 2500 2400 2300 2200 2100 2000 1900 1800 1700 1600 1500 1400 1300 1200 1100

A A A A A A C B/C B/C B/C B/C B/C B/C C C B/C B/C B/C A A A C A A C C C C A A A A A A A

DRILLING PROFILE LINE 22N

METRES

2500 2000 1500 1000

1700'

500

1600'

450 400 350 300 250 200 150

glacial outwash

273 ⊢70

LIMITED OUTCROP

vitric crystal tuff

crystal tuffs with phenocrysts of feldspar & qtz.

chlorititic zone with layers of crystal tuff.

hematite zone with bedded crystal tuff.

crystal lithic tuff with chloritic matrix.

crystal lithic tuff with beds of purple shale & dis. py.

feldspar phyric crytal lithic tuffs

TYNDALL CREEK

320 ↓44

322 ↓58

glacial outwash

305 ⊢32

325 ⊢32

315 ⊢39 PIT

↓21

crystal tuffs with phenocrysts of feldspar & qtz. dis.py

crystal lithic tuff

interbedded volcanoclastic siltstones & lithic crystal tuffs.

foliated fine grained vitric lithic tuff.

crystal lithic tuffs with variable hematite, chloritic matrix

dis. py

hematite crystal lithic tuff.

hematite with crystal tuff

chloritic crystal lithic tuff.

L22·2N

2500 W 2000 W 1500 W

TYNDALL CREEK

COSTEAN 2

COSTEAN 1

L 22 N

2500 W 2300 W 2100 W 1900 W 1700 W 1500 W 1300 W 1100 W

COSTEAN 4

L 21·9 N

2000 W 1500 W

5 cm

MT. LYELL - G.O.D.L. JOINT VENTURE
E.L. 9/66

HOWARDS ANOMALY ZONE
DRILLING PROFILE LINE 22·0 N
D.D.H.

Revision

Map Number:

2/509

Scale : 1:1000

Date : 16·1·81

Drawn by : R.M.

Draftsman: H.D.J.

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

77

HOWARDS LINE 16N

DRILL SECTION
D.D.H.
TYNDALL No. 3.

MAGNETIC PROFILE

GAMMAS: 63,200 / 63,000 / 62,800 / 62,600

20W 12W 4W

GRADIENT ARRAY

RESISTIVITY IN OHM-METRES: 30,000 / 10,000 / 5,000 / 1,000 / 500

CHARGEABILITY IN MILLISECONDS: 50 / 40 / 30 / 20 / 10 / 0

PARTS PER MILLION
Zn: 300 / 200 / 100
Pb: 300 / 200 / 100
Cu: 300 / 200 / 100

20W 18 16 14 12 10 8 6 4 2W

PARTS PER MILLION
Zn: 300 / 200 / 100
Pb: 300 / 200 / 100
Cu: 300 / 200 / 100

PROFILE AND GEOLOGY

1900'
1700'
1500'
1300'

CREEK 20 18 16 ROAD 14 12 10 8 6 CREEK 4 2

CRYSTAL TUFF
SILICEOUS CRYSTAL TUFF
HORNBLENDE FELDSPAR PHYRIC PYROCLASTICS (CARBONATED)
QUEENSTOWN PYROCLASTICS
COMSTOCK TUFFS
CRYSTAL TUFFS WITH BLACK SHALE UNITS
D.D.H. TYNDALL N°3
HORNBLENDE FELDSPAR PHYRIC PYROCLASTICS

	Cu	Pb	Zn	Fe%
	0.01	0.01	0.01	1.00
	0.03	0.01	0.01	5.10
	0.01	0.01	0.01	0.71
	0.01	0.01	0.01	5.60
	0.01	0.01	0.01	3.80
	0.01	0.01	0.01	8.80
	0.01	0.01	0.01	3.20
	0.03	0.01	0.01	2.30
	0.04	0.01	0.01	0.30
	0.02	0.01	0.01	0.30

SCALE. 1:2400

2 4 6 8 10 12 14 16 18 20W.

SILICIFIED CRYSTALL TUFF
PYRITIC BLACK SHALES
QTZ. FELDSPAR CRYSTALL TUFF
BLACK SHALE WITH SYNGENETIC PYRITE
CRYSTAL LITHIC TUFF
BLACK SHALE
CRYSTAL TUFF SLIGHTLY HEMATITIC
CRYSTAL TUFF
CARBONATE
HORNBLENDE FELDSPAR PHYRIC PYROCLASTIC
D.D.H. TYNDALL N°3
HORNBLENDE FELDSPAR PHYRIC PYROCLASTICS AND LAVAS, CARBONATED SOME CARBONATE BEDS
SILICIFIED TUFFS + CHERT BEDS
INTERMEDIATE CRYSTAL TUFFS

5 cm

THE CONSOLIDATED SYNDICATE	DRAWN. N. S-H.
	TRACED. R.G.W.
MT. TYNDALL AREA E.L. 9/66	CHECKED.
HOWARD'S ANOMALY - LINE 16N.	DATE. 20:2:'75
GEOPHYSICAL, GEOCHEMICAL AND DRILLING RESULTS	SCALE. AS SHOWN

HOWARDS ANOMALY

MAGNETIC COVER

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

78

1:6,000
(1979)

30N
28N
26N
25N
24N
23N
22N
21N
20N
19N
18N
17N
16N
15N
14N
12N
10N

00
400S
800S
1200S
1600S
2000S
2400S
2800S
3200S
3600S
4000S
4400S
4800S
5200S
5600S
6000S
6400S

Line 30N Pit
Tyndall Mine
Newton Creek
D.D.H. HA3
Trench B
Trench
Hematite- barite occurrence
DDH HA182
Trench A
Creek
Trench C.
Tyndall
D.D.H TYN3
DD.H.TYN.1

T.N M.N

GROUND MAGNETIC COVERAGE

—·—·—·—	Rio Tinto 1959?;	100'stations
———	Mt. Lyell 1967–68?; Fluxgate(vertical field),	100'stations
.....	Mt. Lyell 1967–68?; Fluxgate(vertical field),	50'stations
– – – – –	Mt. Lyell 1975; Proton precession (total field),	50'stations

5 cm

MT. LYELL – G.O.D.L. JOINT VENTURE

HOWARDS ANOMALY

GROUND MAGNETIC COVERAGE

SCALE 1"=500'	DATE 2-5-79	AUTHOR G.D	FIG. 15

HOWARDS ANOMALY

I.P. COVERAGE

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

1:6,000
(1979)

30N
28N
26N
25N
24N
23N
22N
21N
20N
19N
18N
17N
16N
15N
14N
12N
10N

00
400S
800S
1200S
1600S
2000S
2400S
2800S
3200S
3600S
4000S
4400S
4800S
5200S
5600S
6000S
RIO TINTO GRID 6400S
MT LYELL GRID

Line 30N Pit
Tyndall Mine
Newton Creek
D.D.H. HA3
Trench B
Trench
Hematite-barite occurrence
D.D.H HA182
Trench A
Creek
Trench C.
Tyndall
D.D.H TYN3
Trench D
D.D.H. TYN.1

T.N M.N

Rio Tinto (Mc Phar) 1962, Dipole-Dipole.
Mt Lyell (Mc Phar) 1967-68, Dipole-Dipole.
Mt Lyell (Scintrex) 1973-74, Gradient Array
Mt Lyell (Scintrex) 1974, Schumberger Electrical Soundings
Mt Lyell (Scintrex) 1975, Pole-Dipole

5 cm

MT. LYELL – G.O.D.L. JOINT VENTURE
HOWARDS ANOMALY
I.P. COVERAGE

SCALE 1"=500'	DATE 2-5-79	AUTHOR G. D.	FIG. 14

1:6,000 HOWARDS ANOMALY COMPILATION

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

80

30N
28N
26N
25N
24N
23N
22N
21N
20N
19N
18N
17N
16N
15N
14N
12N
10N

00
400S
800S
1200S
1600S
2000S
2400S
2800S
3200S
3600S
4000S
4400S
4800S
5200S
5600S
6000S
6400S

RIO TINTO GRID
MT LYELL GRID

Line 30N Pit

Tyn. ii
Tyndall Mine
Tyn. iii
QP iv
Tyn. i
Newton Creek
D.D.H. HA3
QPiv
Trench B
Trench
Hematite-barite occurrence
DDH HA182
Trench A
Tyn. iii
Creek
Tyn. i
Trench C.
QP iii
QPiv
Tyndall
D.D.H TYN3
Trench D
DD.H. TYN.1

T.N M.N

LEGEND

- Anomalous soil geochem.(1975-80** & -10**/+80**) } Cu ≥50 ppm, Pb ≥100 ppm or Zn ≥100 ppm
- Anomalous soil geochem.(1967-69) }
- Anomalous stream sediment geochem. (1967-68) – Cu≥50 ppm, Pb≥50 ppm or Zn≥100 ppm
- Magnetic high (total field) – >500 γ contrast.
- Magnetic high (vertical field)
- I.P. anomaly (dipole-dipole) – P.F.E. >6%, >4·5%
- I.P. anomaly (gradient array) – chargeability > 25 msec, > 20 msec.
- I.P. anomaly (pole-dipole) – chargeability > 25 msec.
- Resistivity low – $\frac{\rho a}{2\pi}$ <150 ohm.ft.
- Turam anomaly (coincident ratio & phase diff. anomalies) – approx. position
- Major I P axis

INTERPRETIVE GEOLOGY (after N.P.S-H, 1975)

Tyndall Group:

- Tyn. iii — Comstock tuffs, agglomerates, tuffs
- Tyn. ii — Autobrecciated qtz-feld. lavas.
- Tyn. i — Hematatic crystal tuffs, carbonates, magnetite-rich lavas.

Queenstown Pyroclastics:

- QPiv — Intermed. pyroclastics, siltstones, shales, carbonates, minor acid volcanics.
- QPiii — Intermed. lavas & intrusives.

5 cm

MT. LYELL – G.O.D.L. JOINT VENTURE

HOWARDS ANOMALY

GEOPHYSICAL & GEOCHEMICAL ANOMALIES

SCALE 1"=500'	DATE 2-5-79	AUTHOR	FIG. 12

1/308

HENTY RIVER GRID

ADIT SAMPLING ASSAYS

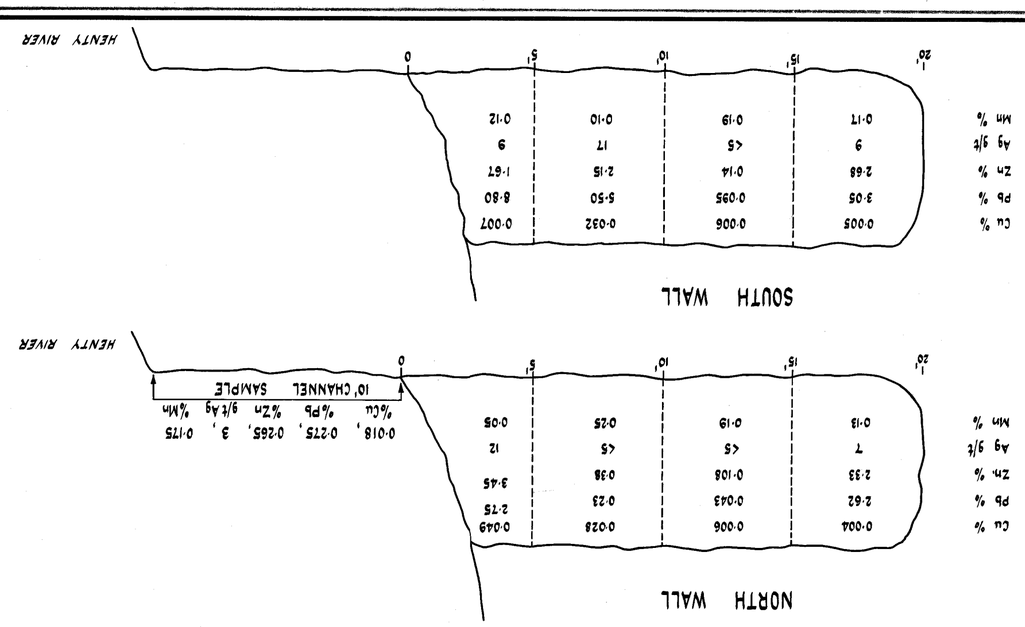
1 : 50

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

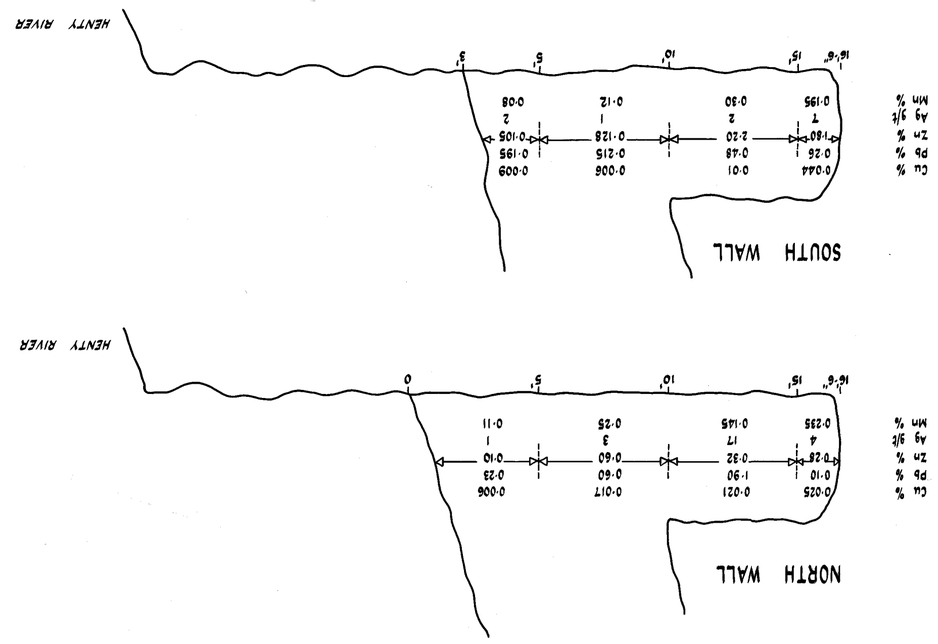
MT. LYELL - G.O.D.L. JOINT VENTURE	
HENTY - YOLANDE E.L. 41/71	
HENTY RIVER GRID	
ADIT SAMPLING ASSAYS	
DRAWN R.MEARES.	FIGURE 11
TRACED R.G.WILSON.	
CHECKED	
DATE JUNE '78	
SCALE 1 : 50	

5 cm

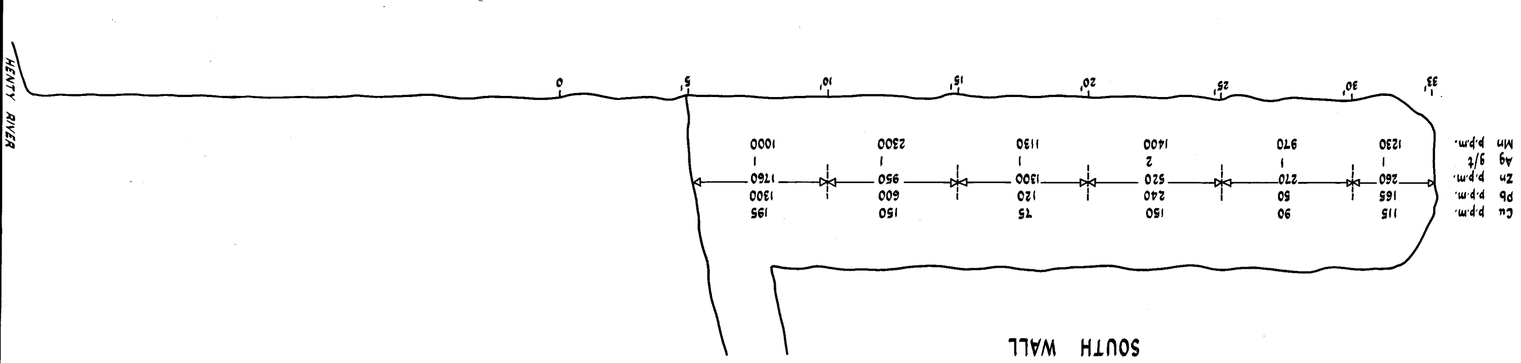
No. 1 ADIT (SAMPLES BULKED FROM FULL HEIGHT AND WIDTH OF WALL)



No. 2 ADIT (CHANNEL SAMPLES 3 FEET ABOVE FLOOR)



No. 3 ADIT (CHANNEL SAMPLES 3 FEET ABOVE FLOOR)



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

82

1:2500 HENTY RIVER GRID ACCESS BASE SHEET SHEET 1

1/01

SHEET 1 of 2

MT. LYELL - G.O.D.L. JOINT VENTURE
E.L. 9/66
HENTY RIVER GRID

DRAWN: R.Meares
DRAFTSMAN: H.D.J
DATE: 1-7-1979
SCALE: 1:2500
AO-2006-

SHEET 1
SHEET 2

50 0 50 100 150 200 Metres

5 cm

M.N.

HR.1
HR.2
HR3
Camp
Helipad
Flying Fox
No.3 adit
No.2 adit
No.1 adit
track
access

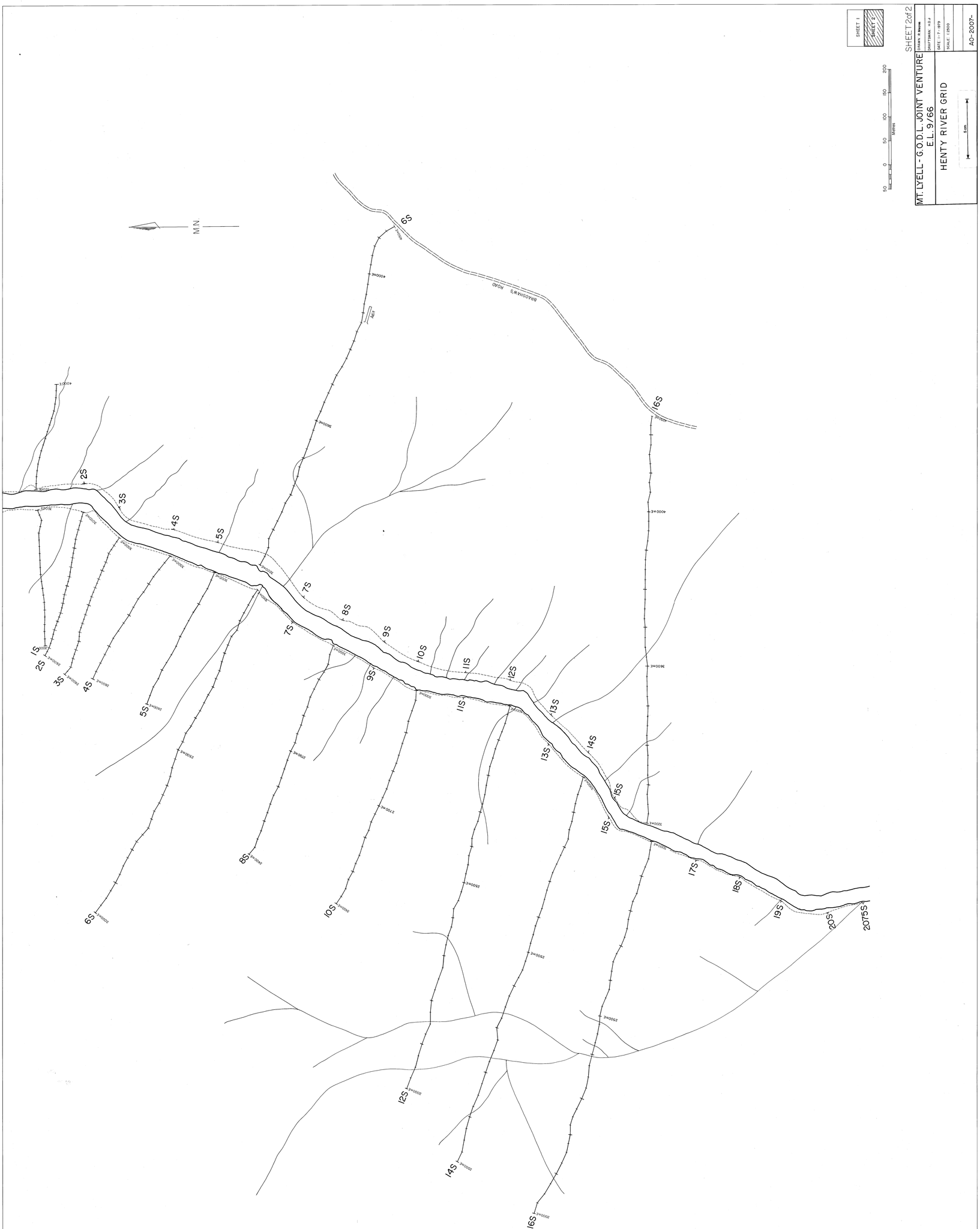
12N 11N 10N 9N 8N 7·5N 7N 6N 5N 4N 3N 2N 1N 0O 1S 2S 3S 4S 5S 6S 13N

2S 3S 4S

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

1:2500 HENTY RIVER GRID ACCESS BASE SHEET SHEET 2

19/005



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

DORA
1:6000

LAKE DORA

AMG 387096E
6365020N

LAKE SPICER

AMG 388038E
5361047N

831,000

TRUE NORTH

LEGEND

AMG REFERENCE POINTS ADDED

QUATERNARY

GLACIAL MORAINE.

ORDOVICIAN

LIMESTONE - GORDON LIMESTONE.

HAEMATITIC CONGLOMERATE - OWEN CONGLOMERATE.

CAMBRIAN

HAEMATITIC FINER GRAINED QUARTZ CONGLOMERATE WITH MINOR SEDIMENTS. (JUKES CONGLOMERATE) } TYNDALL GROUP

CONGLOMERATE WITH QUARTZITE AND VOLCANIC FRAGMENTS. (DORA CONGLOMERATE)

CENTRAL LAVA BELT

LAPILLI TUFF CONTAINING FRAGMENTS OF QUARTZ FELDSPAR PORPHYRY.

"TUFF LAVA" - PORPHYRITIC ACID LAVA WITH QUARTZ / FELDSPAR XENOLITHS AND MINOR ROCK FRAGMENTS.

QUARTZ - FELDSPAR PORPHYRITIC LAVA OR EQUIVALENT MEDIUM GRAINED INTRUSIVE, STRONG CHLORITE - SERICITE ALTERATION.

FINE TO COARSE GRAINED LITHIC TUFF WITH FREQUENT CONSPICUOUS XENOCRYSTS OF QUARTZ.

SIMILAR TUFFACEOUS SEQUENCE BUT EXTENSIVE CHLORITE - HAEMATITE - SERICITE ALTERATION AND MINOR DISSEMINATED SULPHIDES.

UNDIFFERENTIATED VOLCANICS.

QUARTZITES, SHALES AND MINOR SILTSTONES WITH THIN QUARTZ PEBBLE CONGLOMERATE AT BASE.

PRECAMBRIAN

DEFORMED, METAMORPHOSED QUARTZITES - QUARTZ MICA SCHISTS.

QUARTZ - FELDSPAR - HORNBLENDE PORPHYRY.

300/60 TRUE STRIKE AND DIP OF BEDDING.

STRIKE AND DIP OF FOLIATION.

SYNCLINE.

GEOLOGICAL BOUNDARY.

UNCONFORMITY.

INFERRED GEOLOGICAL BOUNDARY.

POSTULATED GEOLOGICAL BOUNDARY.

OLD WORKINGS.

FAULT.

INFERRED FAULT.

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

DORA - HUXLEY AREA
E.L. 10/69

LAKE DORA GEOLOGICAL MAP

DRAWN.	P. BROPHY.
TRACED.	R.G.WILSON.
CHECKED.	
DATE.	JUNE 1976
SCALE.	1"= 500' 1:6000

MAP 3

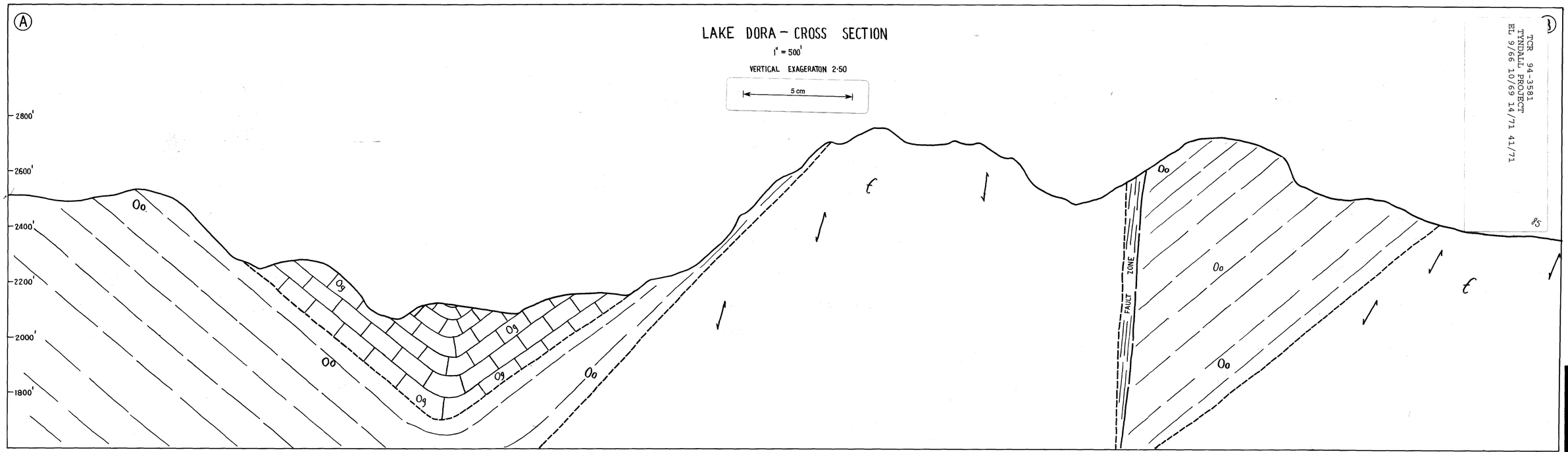
5 cm

LAKE DORA – CROSS SECTION

1" = 500'

VERTICAL EXAGERATON 2:50

5 cm



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

85

DORA
GEOLOGY SECTION
1:6000

9/202

1:6,000

LAKE DORA

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

GEOLOGY INTERPRETATION

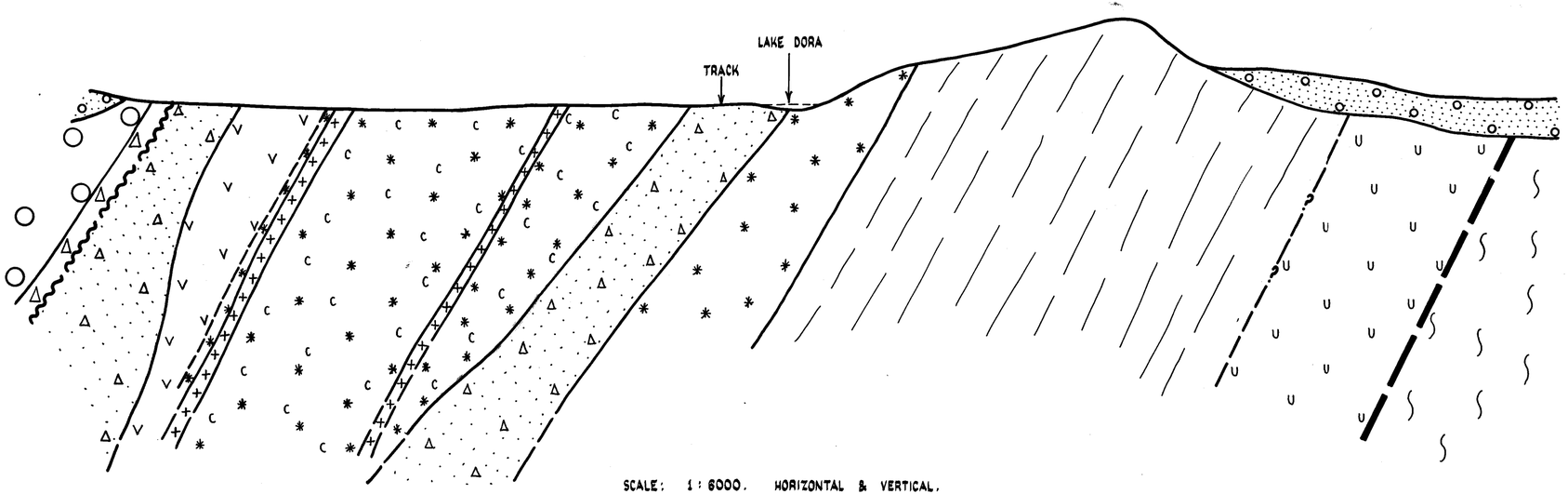
WEST.

SECTION THROUGH LAKE DORA

(MAP 3 'A-A')

FIG. 1

EAST.



SCALE: 1 : 6000. HORIZONTAL & VERTICAL.

NOTE: REFER TO MAP 3 FOR KEY.

5 cm

1" = 5 chains

DORA

GEOLOGY

193

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

87

735 M
75
Late Mt Dora Co.
To WILLIAMSFORD
3308 M
80
Late North Dora Co.
TRENCH
N. DORA MINES ADIT
A.I.
TRENCH
TRENCH
B.I.
3236 M
75
Late Dora Co.
WALFORD PEAK.
TRENCH
Z
CUTS
CUTS R.L. 2680'
SHAFT R.L. 2670'
Y
2843 M
15
SHAFT R.L. 2644'
W.
X
ADIT R.L. 2591'
V.
R.L. 2580'
LAKE
Late Dora Co.
2011 M
33
14
96
Co
Reward
15.
OPEN CUT
M
SHAFT R.L. 2596'
T
HOLE
TRENCH.
S
ADIT
U
ADIT R.L. 25
SWAMP.
TRENCH R.L. 2610'
L
LAKE DORA
W.L. 2540'
Late South Dora Co.
CUT R.L. 2623'
R
SHAFT
Q
TRENCH
P
HOLE R.L. 2631'
TRENCH & PIT R.L. 2662'
O
N
2010 93 M
2009 93 M
70
TRENCH R.L. 2600'
K
SHAFT R.L. 2586'
J
TRENCH
DEEPSHAFT
TRENCH R.L. 2538'
I
SHALLOW SHAFT R.L. 2532'
H
Late Lady Dora Co.
FOOT TRACK
LAKE
Late Royal Dora Co.
DRAINAGE CHANNEL.
G
TRENCH
DEEP SHAFT R.L. 2611' WATER AT 6'
F
CUT R.L. 2530'
SHALLOW TRENCH R.L. 2590'
E
LAKE.
LAKE.
LAKE.
2031 93 M
80
819 93 M
140
ADIT
C
ADIT R.L. 2574'
D
TRENCH R.L. 2648'
Consolidated Lease.
TRENCH R.L. 2668'
B
DEEP SHAFT WATER AT 10'
3747 M
311.
Late Lake Dora Co.
SHAFT 3'
A
OPEN CUT R.L. 2696'
FALLS.

SAMPLE	COPPER %
A	TR.
B	0·3
C	0·1
D	No Sign Of Mineralization No Sample Taken.
E	TR
F	0·1
G	0·8
H	0·7
I	0·3
J	N.S.O.M. No Sample Taken.
K	0·1
L	N.S.O.M. No Sample Taken
M	N.S.O.M. No Sample Taken
N	0·1
O	TR
P	N.S.O.M. No Sample Taken.
Q	TR
R	0·1
S	1·8
T	0·1
U	0·1
V	0·3
W	TR
X	TR
Y	N.S.O.M. No Sample Taken.
Z	TR
A1.	TR
B1.	0·3

Pyritized Schist

Quartzitic Chloritic Schist and Chloritic Schist in Sheared Quartz-Felspar (Porphyry Dyke)

Schist Planes.

N.B. A Pyritized Area of Chloritic Schist also occurs about 1 Mile to the North of Lake Rolleston Secs 2230/39M & 4422/39M.

LAKE DORA.

COPPER WORKINGS.

SCALE :- 5 CHAINS - 1 INCH.

5 cm

6

MAY 1938

1:5000

DORA-SPICER

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

CONTOUR+ACCESS BASE MAP

A1-177

LAKE DORA
Michael Tarn
Maxfield Tarn
WL-780
WL-754
WL-745
WL 726·0
BASELINE 3000E
5355000mN
5354000mN
5353000mN
5352000mN
387000mE
388000mE
389000mE

- POWER LINE & PYLONS
- BUILDING
- FLYING FOX
- PIT
- COSTEAN, TRENCH
- ADIT
- SHAFT (Depth metre)
- OPEN CUT
- ALLUVIAL WORKINGS
- DUMP
- SEALED ROAD, BRIDGE
- VEHICULAR TRACK
- LOGGING TRACK, BULLDOZER SCAR
- WALKING TRACK
- RAILWAY, TRAMWAY ABANDONED
- PROMINENT PEAK
- TRIG STATION
- BENCH MARK
- 231 SPOT ELEVATIONS
- RIVER, CREEK
- LAKE
- SWAMP

THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

E.L. 9/66
DORA – SPICER AREA

5 cm

SCALE 1:5000
DATE
DRAWN BY M. H.
DRAFTSMAN H. D. J.

REVISIONS.

A1 – 177 –

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

89

DORA
1:5000

GEOLOGY

Walford Peak

LAKE DORA

Michael Tarn

Maxfield Tarn

LAKE SPICER

BASELINE

LEGEND

QUATERNARY
- Glacial deposits, alluvium

ORDOVICIAN
- Gordon Limestone

LATE CAMBRIAN - EARLY ORDOVICIAN
- Owen Conglomerate

CAMBRIAN

MT. READ VOLCANICS
- Dora Conglomerate: volcaniclastic conglomerate, sandstone and minor ash and tuff beds
- Felsic Lavas: quartz-phyric rhyolitic lava dome complex flow banded, brecciated margins, minor volcaniclastic intercalations
- Intrusive Porphyries: quartz-feldspar-hornblende sills (?) related to lava domes
- Ignimbrites: felsic pyroclastics, often lithic

Sticht Range Beds: interbedded quartz sandstone, pebble conglomerate and graphitic shale

PRECAMBRIAN
- Metamorphic Rocks: quartzite, schist and black phyllite

Old Workings
- adit
- trench, costean
- pit, hole
- shaft

Geophysical Anomalies
- E.M. (Turam) >2° phase difference RTAE (1958)
- Chargeability axis >20m.sec.
- Resistivity axis <2000 ohm.m.
- Magnetic axis, approx. 600γ above background
- Fault, approximate
- 1165 1983 Review rock sample location, sample no.
- 4WD track

Geology after N. Williams (1970), M. Hutton (1980-81), K. Corbett (1982), Review Team (1983)

GOLD FIELDS EXPLORATION PTY. LIMITED

E.L. 9/66

DORA - SPICER

INTERPRETTED GEOLOGY

5 cm

DRAWN BY: F.G.F.
DRAFTSMAN: T.G.D.S.
DATE: June '83
REVISIONS:
FILE NO.

SCALE 1:5000 — 100 50 0 50 100 150 200 METRES

FIG. 21

1:5,000

DORA - SPICER

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

A1-177-7

I.P. COVERAGE



20m

GRADIENT ARRAY
1980-81 (Scintrex)

ARRAY COVERAGE

60m

DIPOLE-DIPOLE
1980-81 (Scintrex)

ARRAY 3

ARRAY NUMBERS

ELECTRODE POSITION WITH ARRAY POSITION

280m

5 cm

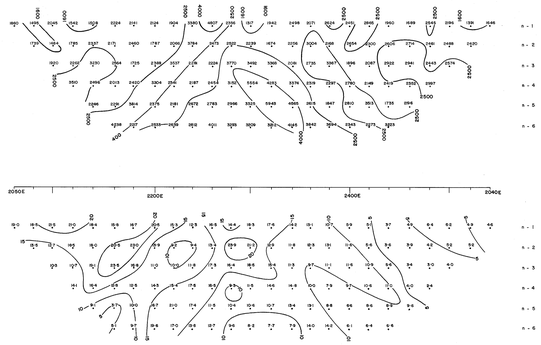
I.P. COVERAGE 1980-81

FIG. 16

DIPOLE-DIPOLE IP

Scintrex 1981

a = 40m.



DIPOLE-DIPOLE IP

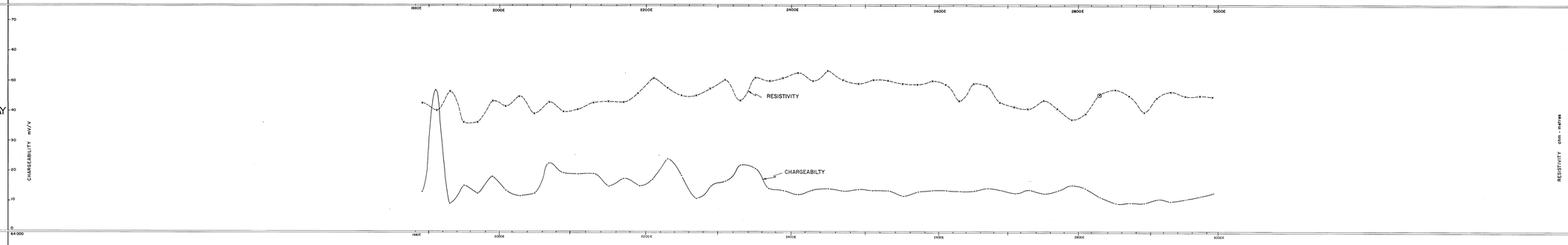
Scintrex 1981

a = 40m.

GRADIENT ARRAY
I P

Scintrex 1981

a = 20m.

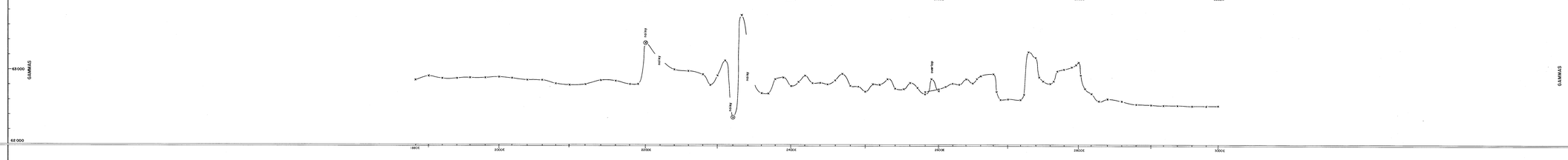


GRADIENT ARRAY
I P

Scintrex 1981

TOTAL FIELD
MAGNETICS

Scintrex 1981



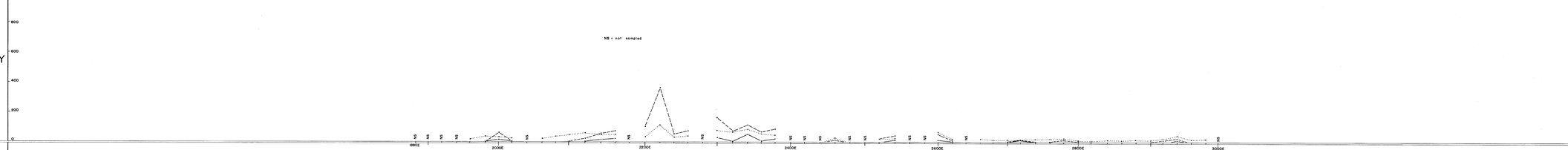
TOTAL FIELD
MAGNETICS

Scintrex 1981

SOIL
GEOCHEMISTRY
(parts per million)

1981 assays

B/C horizon

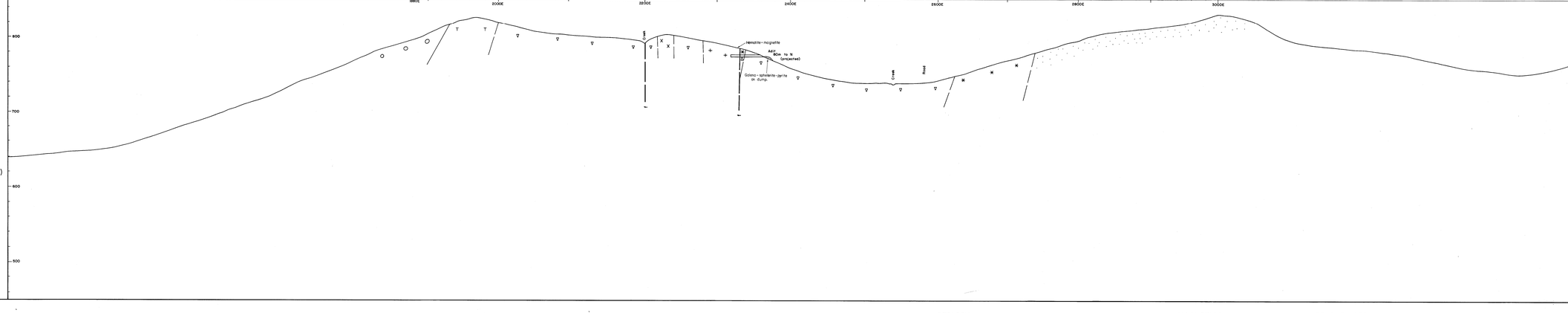


SOIL
GEOCHEMISTRY
(parts per million)

1981 assays

B/C horizon

TOPOGRAPHY
&
GEOLOGY
(height above sea level)
(metres)



TOPOGRAPHY
&
GEOLOGY
(height above sea level)

CAMBRIAN INTRUSIVES

- Feldspar - hornblende porphyry
- Coarse-grained granodiorite

GEOLOGY

- ORDOVICIAN — Owen Conglomerate
- CAMBRIAN — Jukes Formation
- Dora Conglomerate
- Crystal lithic tuffs
- Quartz-feldspar crystal tuffs
- LOWER CAMBRIAN — Quartz sandstone, siltstone, shale

MAGNETICS

- Coarse scale
- Fine scale

GRADIENT ARRAY

- Chargeability
- Resistivity

GEOCHEMISTRY (ppm)

- Cu
- Pb
- Zn
- Mn
- * 5 Ag > 2 ppm

5 cm

THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

E.L. 9/66

SPICER GRID

LINE 192 S PROFILE

REVISIONS

SCALE 1:2000 — Drawn by MJH

DATE January 1982 — Draftsmen T.G.S.L.

FIG 20

AO-188

AO-188

1:2,000

DORA-SPICER TYNDALL PROJECT LINE 192 S PROFILE

AO-188

TOTAL P4 3583
RE. 9/66 10/69 14/71 41/71

1:5000

EAST TYNDALL (NORTH)

ANOMALY COMPILATION

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

LEGEND

- Dipole-dipole array PFE contours
- Dipole-dipole resistivity contours
- Gradient array chargeability contours
- Gradient array 1000 ohm-m resistivity contour
- Turam -ϕ phase difference contour (exact position uncertain)
- Magnetic total field 63000γ contour

Note: For survey details see coverage, Figures 3 & 4.
For zone locations see Figure 5a.
located gridline, approximate position only

- SEALED ROAD BRIDGE
- VEHICULAR TRACK
- LOGGING TRACK, BULLDOZER SCAR
- WALKING TRACK
- RAILWAY, TRAMWAY ABANDONED
- PROMINENT PEAK
- TRIG STATION
- BENCH MARK
- SPOT ELEVATIONS
- RIVER, CREEK
- LAKE
- SWAMP
- POWER LINE & PYLONS
- BUILDING
- FLYING FOX
- PIT
- COSTEAN, TRENCH
- ADIT
- SHAFT (Depth metre)
- OPEN CUT
- ALLUVIAL WORKINGS
- DUMP

100 0 100 200 300 400 500
Metres

5 cm

THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

EAST TYNDALL & BASIN LAKE GRIDS

ANOMALY COMPILATION

FIG. 23 ZONE C2 & Howard's Anomaly.

FIG. 24 ZONES C4, D & E.

REVISIONS

SCALE 1:5000 | DRAWN BY L.W.
DATE MAY 1982 | DRAFTSMAN T.C.D.S.

A0-209-2

Ref: ML/MG8/13

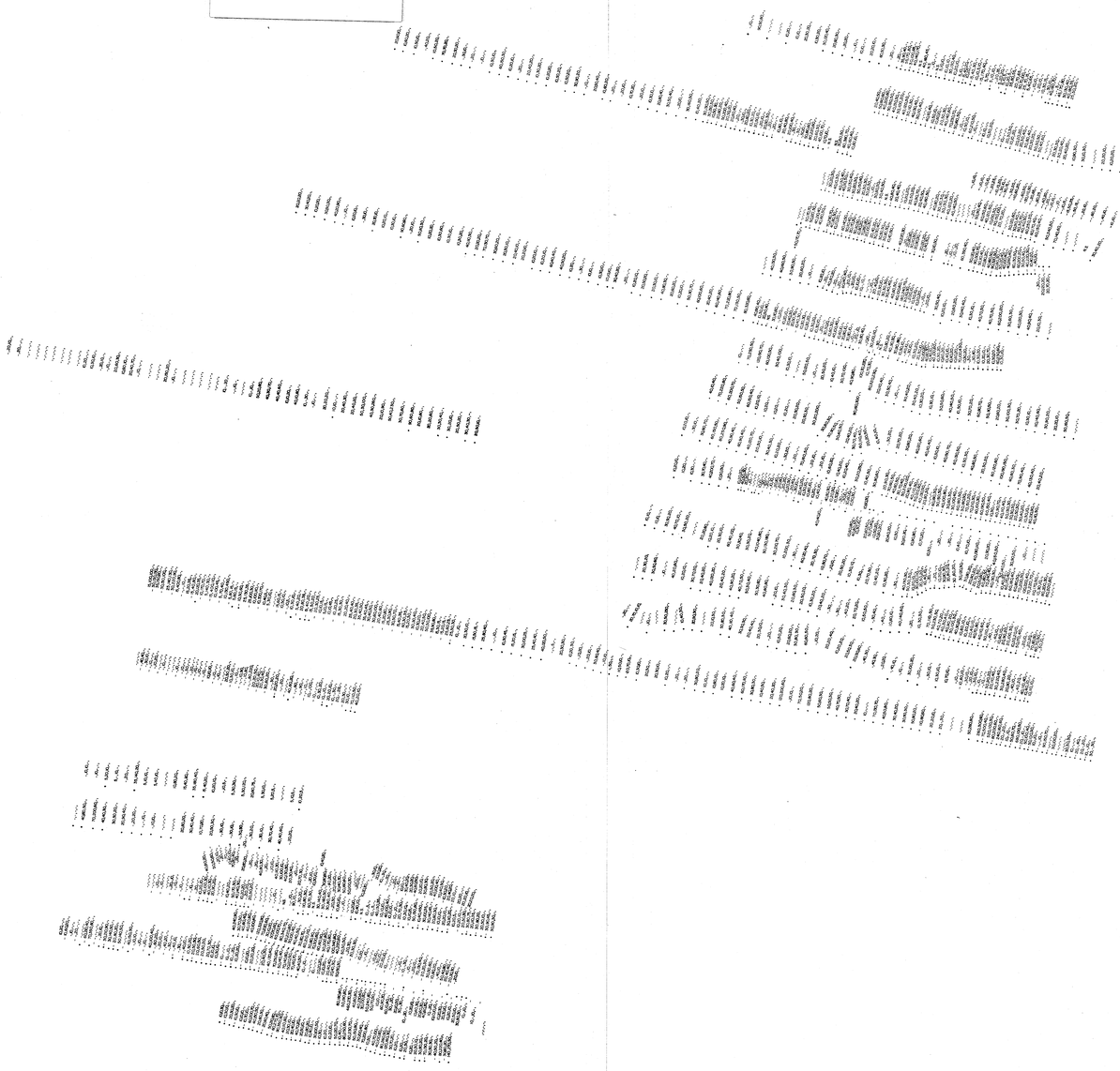
557000mN
378000mN

1:5000

EAST TYNDALL (SOUTH)

SOIL GEOCHEMISTRY

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



SOIL GEOCHEMISTRY
Cu,Pb,Zn,Ag

Assays listed in order reading away from sample points
- = below detection limit
Samples assayed at Mt Lyell by AAS -80# fraction
Detection Limits Cu,Pb,Zn : 10 ppm
Ag : 2 ppm

5 cm

SOIL GEOCHEMISTRY

FIG 41

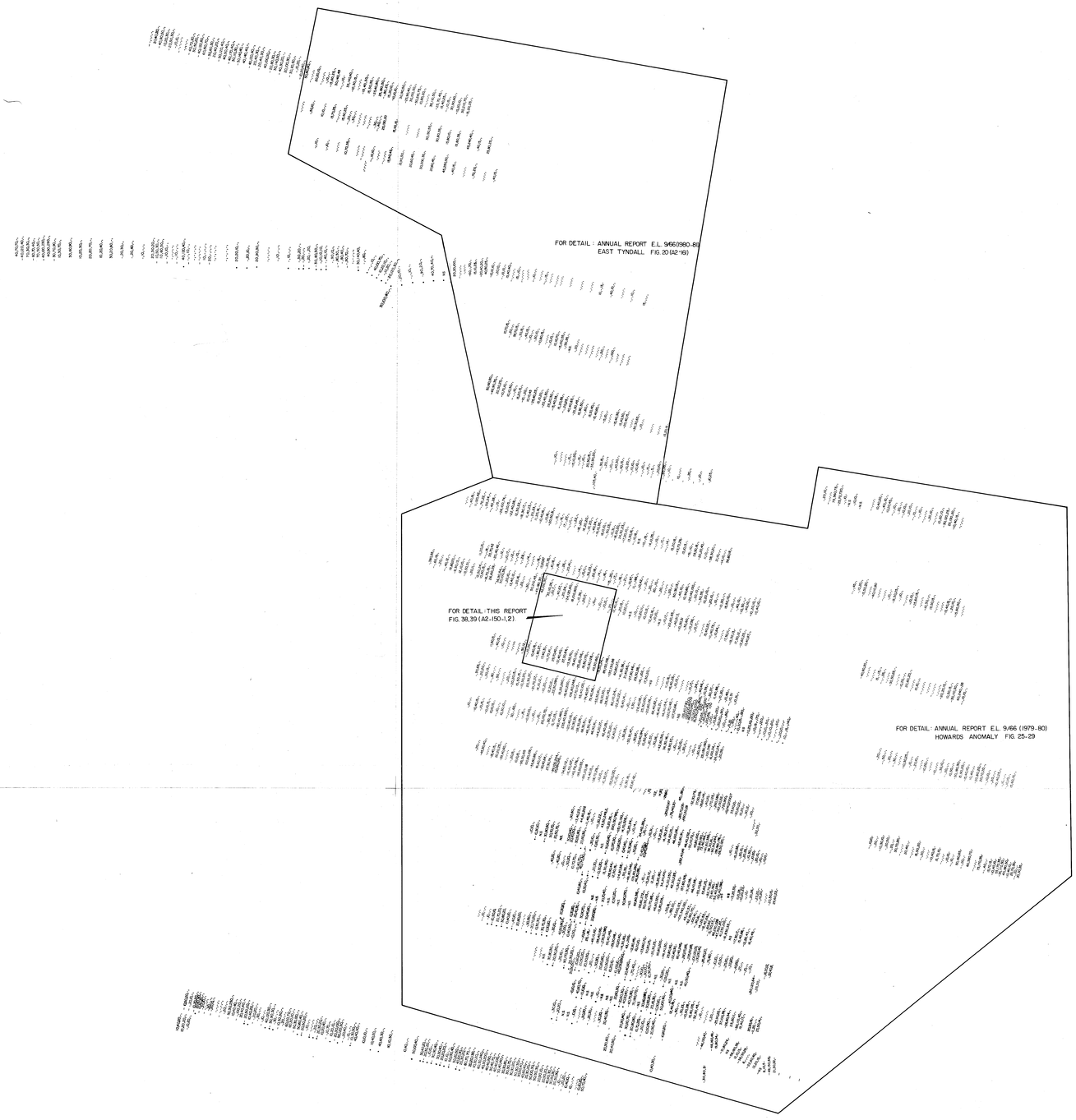
1:5000

EAST TYNDALL NORTH

SOIL GEOCHEMISTRY

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

5cm



SOIL GEOCHEMISTRY
Cu,Pb,Zn,Ag

Assays listed in order reading away from sample points
- : below detection limit
Samples assayed at Mt. Lyell by AAS -80# fraction
Detection limits Cu, Pb,Zn : 10 ppm
Ag : 2 ppm

SOIL GEOCHEMISTRY

FIG.40

1:5000

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

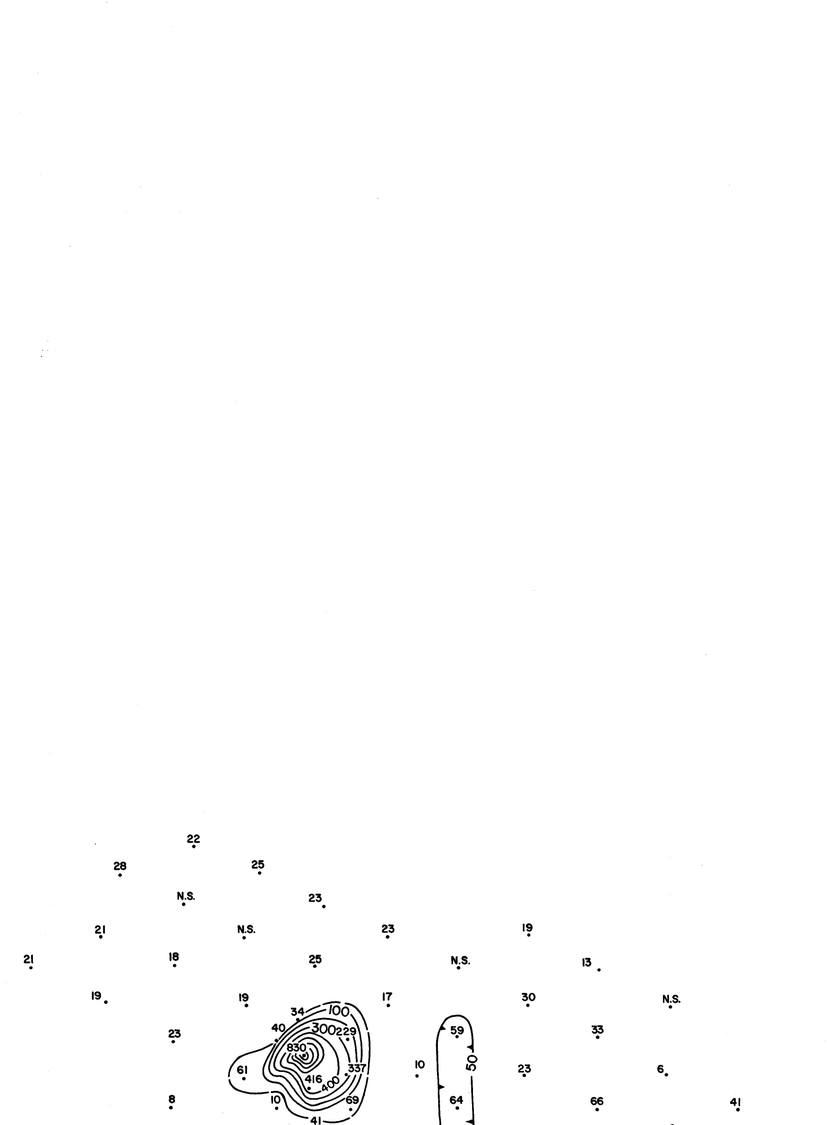
5 cm

EAST TYNDALL (NORTH)

SOIL GEOCHEM Zn

LEGEND

Area divided into Diamond shaped blocks.
200m. N-S axes, 400m. E-W axes.
Arithmethic mean with Zn p.p.m plotted at centre.
N.S. = No Sample



Block Average
Zn p.p.m.

FIG. 42

1:10,000 EAST TYNDALL STRATIGRAPHY

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

N S

TYNDALL GROUP

HOWARD'S ANOMALY EAST TYNDALL BASIN LAKE

TYNDALL GROUP CONTACT TYNDALL GROUP CONTACT

NEWTON CREEK

HA 3 COSTEAN 142 HA 6 HA 4 HA 5

COSTEAN 3 COSTEAN 4 HA 2

TYN 3 TYN 1

BL 3 BL 2 BL 1

COSTEAN LINE 00 BASIN LAKE

BL 4

F F F F?

?F

Volcanoclastic ss & cong.

Rhyolitic a.f. tuffs & lavas phen. f&q

Dacitic f-mg xlt phen f&q part ser

Andesitic f-mg xlt phen f part ser

Hematitic andesitic f-mg xlt phen f liths hm

Interbedded f-mg and. xlt, bedded & disrupted hm & cb

Dacitic a.f. xlt phen f&q

Dacite-andesite xlt phen f&q

Andesitic xlt phen f

Andesitic xlt phen f, hbl

Interbedded with cb

Porphyritic andesitic xlt— lava phen f hbl

Agglomerate, V dacitic, Λ andesitic

Chert & chert horizon

Tuffaceous shale & greywacke

Black & grey shale

Massive pyrite

5 cm

VERTICAL 1:2500

SCALE METRES

150 100 50 0

100 200 300 400 500

HORIZONTAL 1:10000

THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

EAST TYNDALL-HOWARDS ANOMALY BASIN LAKE AREA

GEOLOGY & RELATIVE STRATIGRAPHY

Drill holes and outcrop data is plotted relative to the known or infered Tyndall Group-Upper Cambrian Pyroclastic Boundary

REVISIONS

SCALE H=1:10,000 V=1:2500 DRAWN BY P.K.
DATE 11-9-81 DRAUGHTSMAN P.J.R.

FIG. 57
A1-164

1:5000

EAST TYNDALL (NORTH)

CONTOUR + ACCESS

BASE SHEET

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

78 79 80 81 82

627 627

62 62

61 61

60 60

59 59

58 58

57

40N 38N 36N 34N 32N 30N 29·6N 29·2N 28N 27·6N 27·3N 27N 26·8N 26·6N 26·4N 26N 25N 24·5N 24N 23·7N 23·4N 22·5N 22·2N 21·9N 21·6N 21·3N 21N 20·6N 20·2N 20N 19·7N 19·4N 19N 18N

MT1 (649-621) MT2 (569-46) MT3 (536-481) MT4 (527-51) MT5 (543-55) MT7 (543-55) MT17 (522-08)

HA1 HA2 HA3 HA4 HA5 HA6

Mount Julia

LAKE JULIA WL 617

Newton

Creek

SEALED ROAD, BRIDGE
VEHICULAR TRACK
LOGGING TRACK, BULLDOZER SCAR
WALKING TRACK
RAILWAY, TRAMWAY ABANDONED
PROMINENT PEAK
TRIG STATION
BENCH MARK
SPOT ELEVATIONS
RIVER, CREEK
LAKE
SWAMP
POWER LINE & PYLONS
BUILDING
FLYING FOX
PIT
COSTEAN, TRENCH
ADIT
SHAFT (Depth metre)
OPEN CUT
ALLUVIAL WORKINGS
DUMP

100 0 100 200 300 400 500
Metres

5 cm

THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

TYNDALL AREA
(NORTH)

REVISIONS

SCALE 1: 5000
DATE 17th MARCH 1980
DRAWN BY P.K.
DRAFTSMAN H.D.J.

A0-209-

5357000mN
378000mN

79 80 81 82

1:5000

EAST TYNDALL (SOUTH) ANOMALY COMPILATION

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

LEGEND

- Dipole-dipole array PFE contours
- Dipole-dipole chargeability anomaly
- Dipole-dipole resistivity contours
- Gradient array chargeability contours
- Gradient array 1500 ohm-m resistivity contour
- Turam anomaly axis
- Magnetic total field 63000$ contour

Note: For survey details see coverage, Figures 3 &4.
For zone locations see Figure 5a.
located gridline, approximate position only
The discrepancy between chargeability contours on zone A and Basin Lake is due to grid location error.

- SEALED ROAD BRIDGE
- VEHICULAR TRACK
- LOGGING TRACK BULLDOZER SCAR
- WALKING TRACK
- RAILWAY TRAMWAY ABANDONED
- PROMINENT PEAK
- TRIG STATION
- BENCH MARK
- SPOT ELEVATIONS
- RIVER CREEK
- LAKE
- SWAMP
- POWER LINE & PYLONS
- BUILDING
- FLYING FOX
- PIT
- COSTEAN TRENCH
- ADIT
- SHAFT (Depth metre)
- OPEN CUT
- ALLUVIAL WORKINGS
- DUMP

100 0 100 200 300 400 500
Metres

5 cm

THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

EAST TYNDALL & BASIN LAKE GRIDS

ANOMALY COMPILATION

FIG. 20 BASIN LAKE, Zone B
FIG. 21 ZONE A
FIG. 22 ZONES C1 & C2

REVISIONS

SCALE 1:5000 | DRAWN BY L.W.
DATE MAY 1982 | DRAFTSMAN T.G.D.S. | A0-210-2

Ref: ML/MG81/13

5351300mN
378000mE

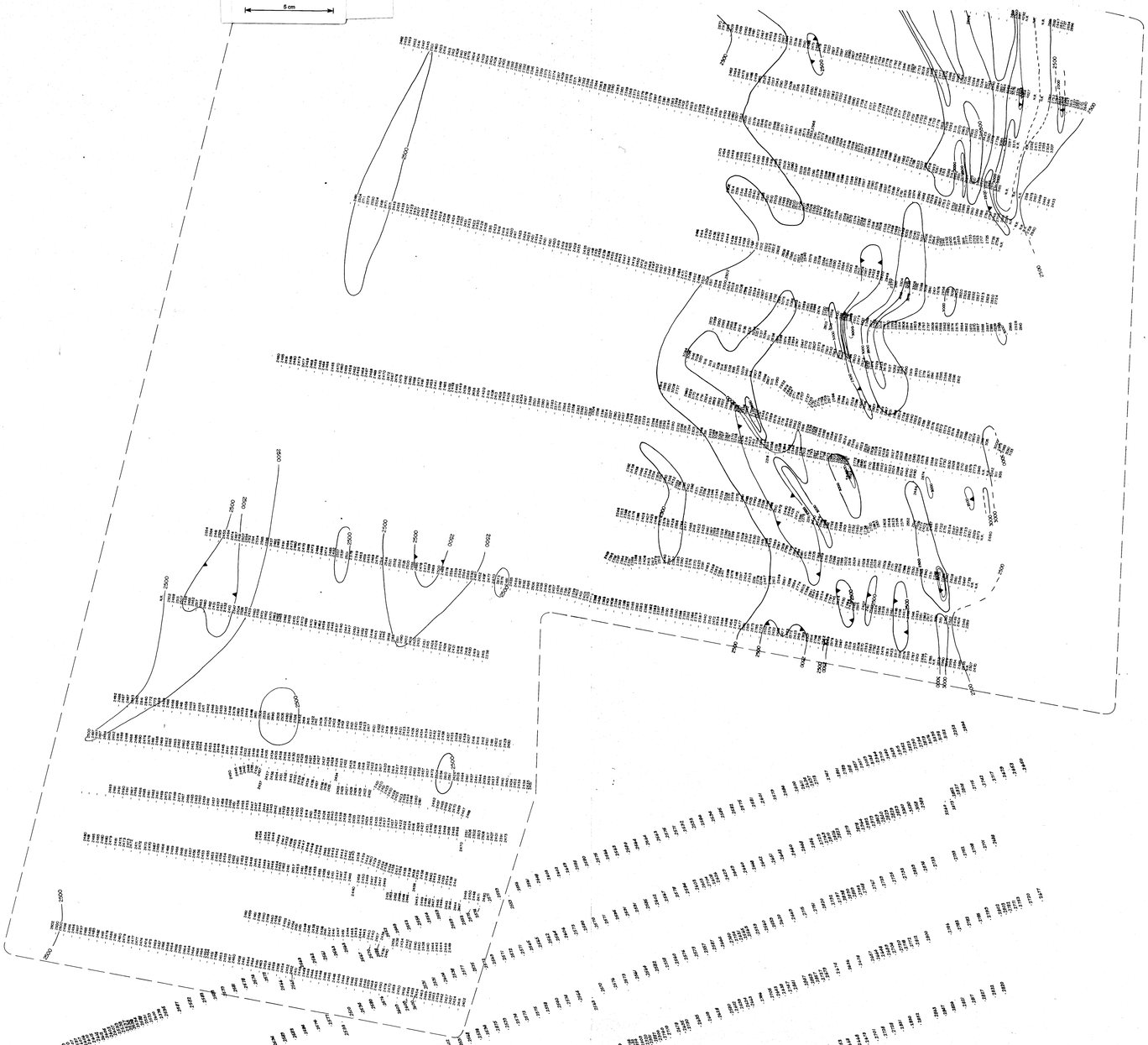
1:5000

EAST TYNDALL (SOUTH)

GROUND MAGNETICS

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

6 cm



GROUND MAGNETICS DATA SOURCE

1. EAST TYNDALL GRID
   Contractor : Scintrex
   Date : Feb.1982
   Instrument : Scintrex MP 2 (Proton)
   Base Station : Broadchows Road 70mN of Line 2N
2. BASIN LAKE GRID
   Contractor : Mt Lyell Field assistants
   Date : 1975
   Instrument : Geometrics Proton
   Base Station : Line 12005,00E

NOTE : ALL VALUES ARE IN GAMMAS + 60 000

F.G.F.
S.F.
June,86

GROUND MAGNETICS DATA
(SMOOTHED CONTOURS)

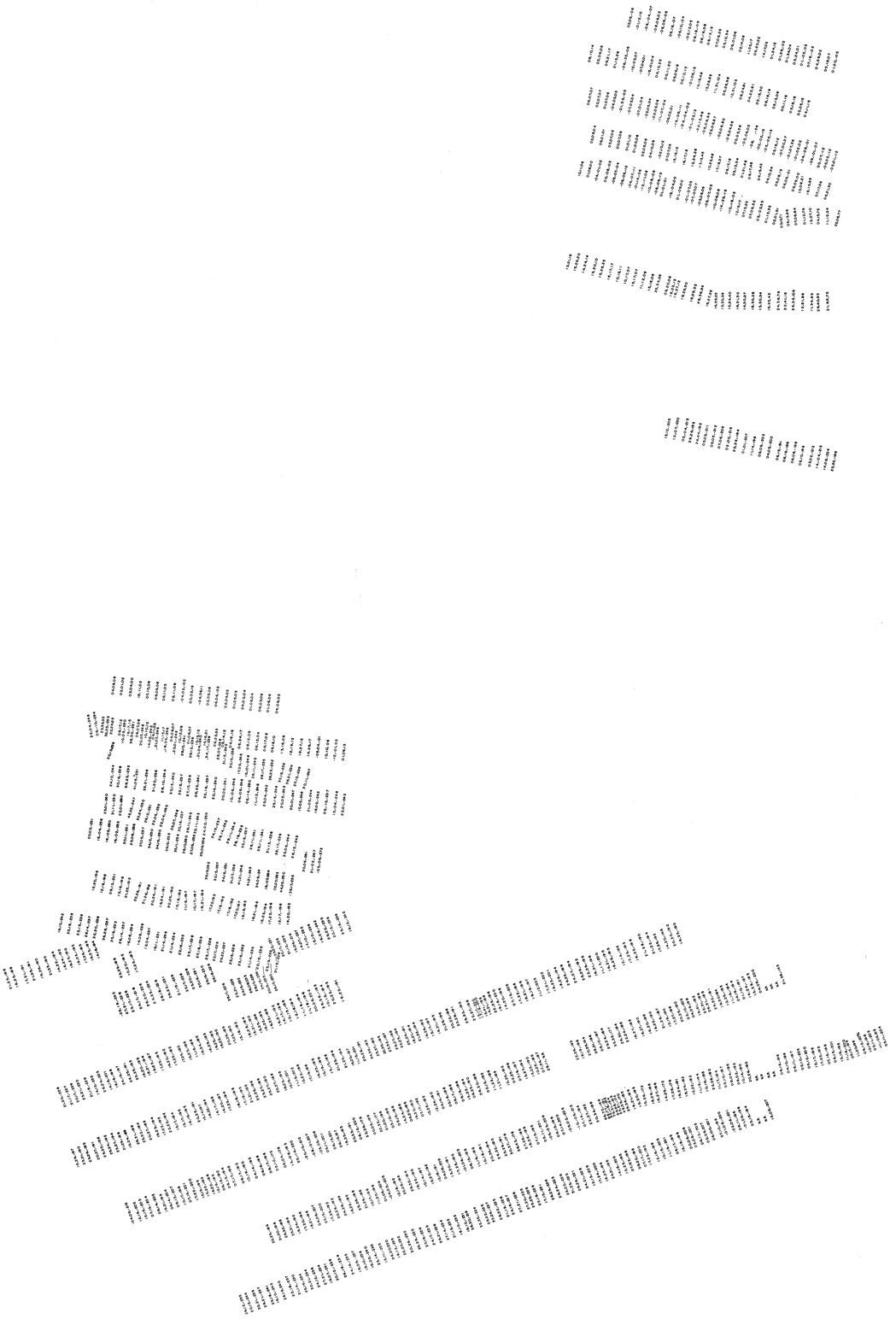
1:5000

EAST TYNDALL (SOUTH)

GROUND E.M.

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

5cm



Survey by : Scintrex Pty Ltd
Instrument : Scintrex Genie S.E.88

1st Survey Date : Jan. 1982
Transmitter/Receiver spacing 100m. for lines 17N, 16.5N, 16N, 15.5N, 15N, 14N, 13N, 7N
50m. spacing 16N. (not plotted)

2nd. Survey Date : March 1982
Transmitter/Receiver spacing 50m. for lines 12N, 6N, 5.5N, 5N, 4.5N, 00S, 06S, 12S, 18S, 24S, 30S, 36S, 78S
100m. spacing 6N. (not plotted)
2855 Hz Frequency not correctly zeroed.

East Tyndall - Basin Lake
Frequency Domain - E.M. Genie
515 Hz, 995 Hz, 2855 Hz
Readings for the three frequencies are listed in order from left to right.

FIG. 5f

7

1:2000

EAST TYNDALL

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

101

I.P. PROFILES
RESISTIVITY
LINES 2N — 8N

8N

600W 500W 400W 300W 200W 100W 00 100E

N=1 N=2 N=3 N=4 N=5 N=6

7N

400W 300W 200W 100W 00 100E 200E 300E

N=1 N=2 N=3 N=4 N=5 N=6

6N

900W 800W 700W 600W 500W 400W 300W 200W 100W 00 100E 200E 300E

N=1 N=2 N=3 N=4 N=5 N=6

5N

200W 100W 00W 100E 200E 300E 400E 500E

N=1 N=2 N=3 N=4 N=5 N=6

4N

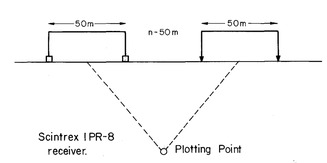
100W 00 100E 200E 300E 400E 500E 600E

N=1 N=2 N=3 N=4 N=5 N=6

2N

100W 00 100E 200E 300E 400E 500E 600E

N=1 N=2 N=3 N=4 N=5 N=6



Profiles positioned relative to regional strike of 004° GN

Surveyed by Scintrex Pty Ltd
Survey dates May 1981

5 cm

REF: ML/MG81/13

THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

EAST TYNDALL
DIPOLE - DIPOLE E.I.P.
L 2N - 8N
RESISTIVITY
PSEUDO SECTIONS

Units - ohm metres. Contours logarithmic

SCALE 1:2000
DATE 25·8·1981
DRAWN BY P.K.
DRAFTSMAN P.J.R.

REVISIONS:

FIG.14
A0-160-1

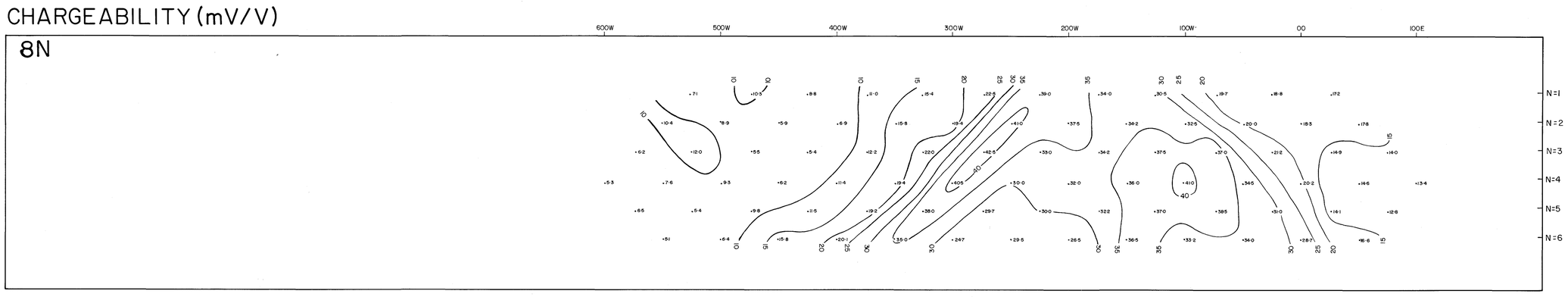
1:2000

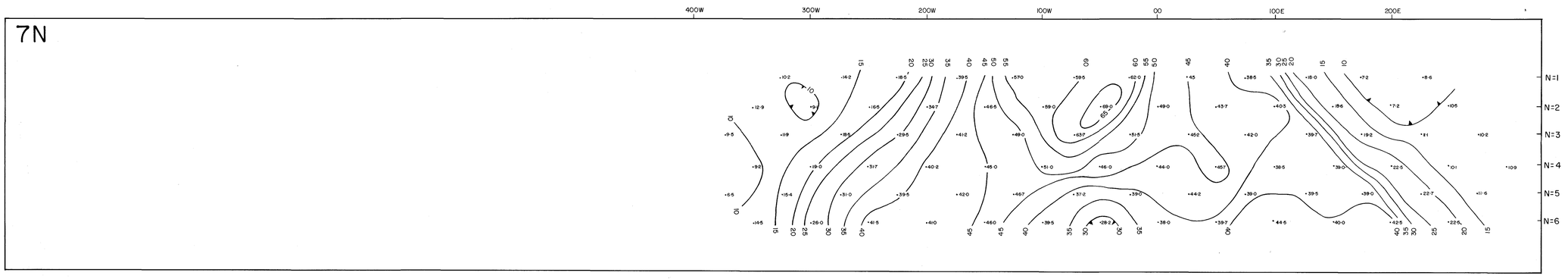
EAST TYNDALL

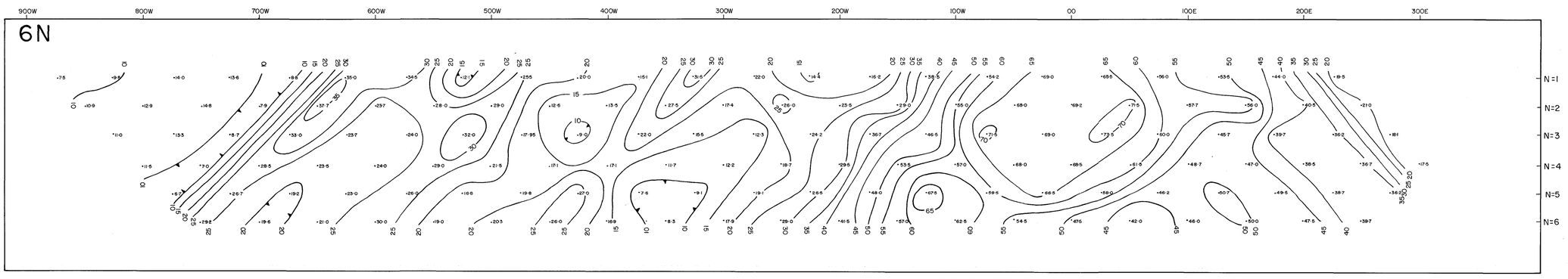
TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

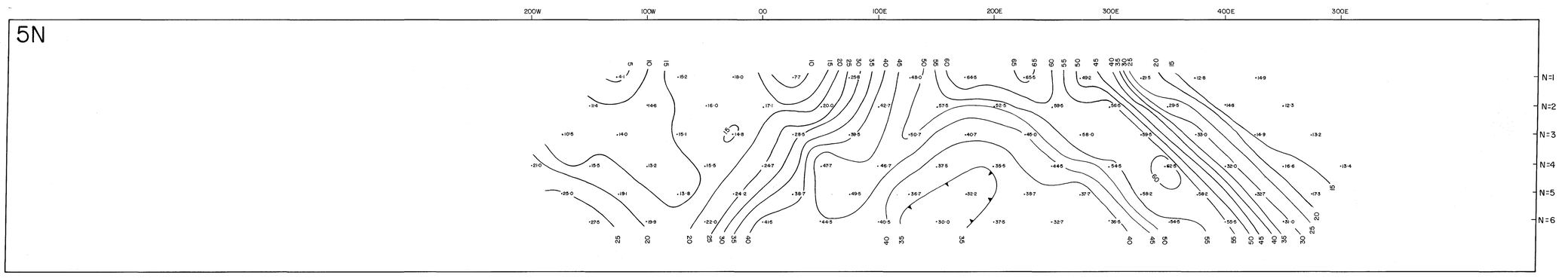
I.P. PROFILES CHARGEABILITY LINES 2N - 8N

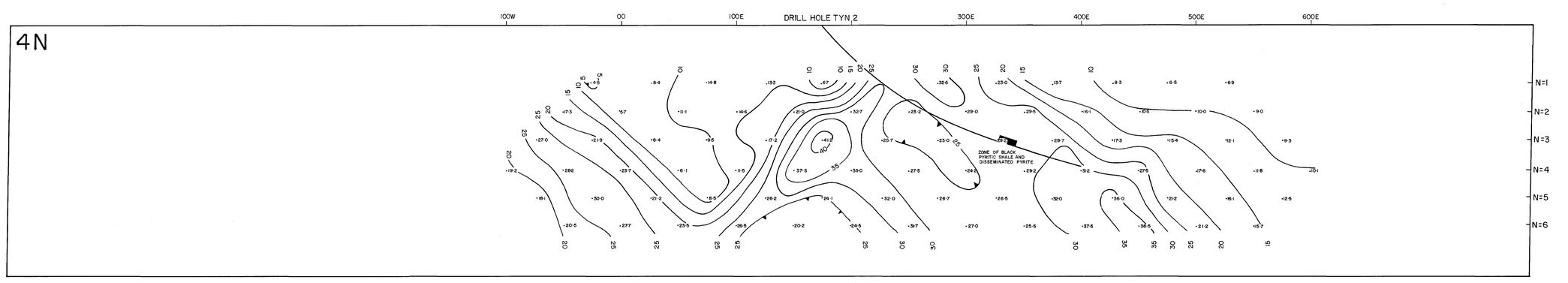
CHARGEABILITY (mV/V)

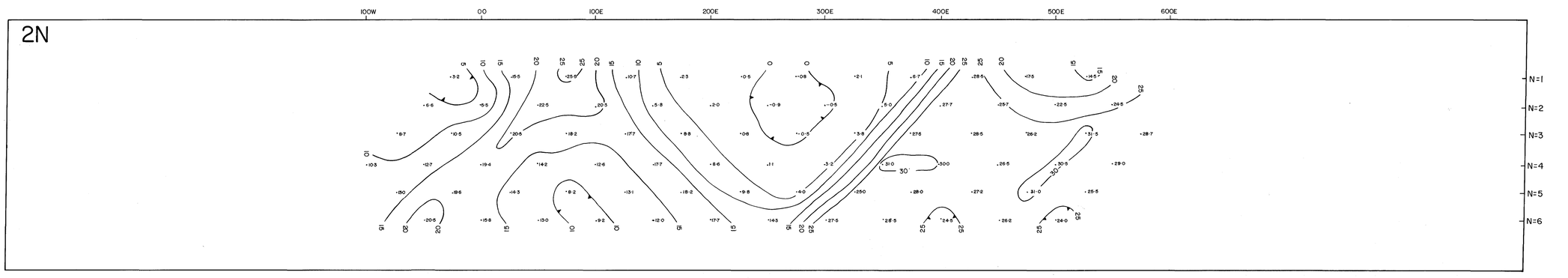


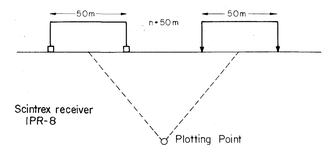












Profiles positioned relative to regional strike of 004° GN

Surveyed by Scintrex Pty Ltd
Survey dates May 1981

5 cm

REF:ML/MG81/13

THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

EAST TYNDALL
DIPOLE - DIPOLE E.I.P.
L 2N - 8N
CHARGEABILITY
PSEUDO SECTIONS

Chargeability C.I. = 5mv/v

SCALE 1:2000
DATE 25-8-1981
DRAWN BY P.K
DRAFTSMAN H.D.J.

REVISIONS

FIG 13
A0-160-2

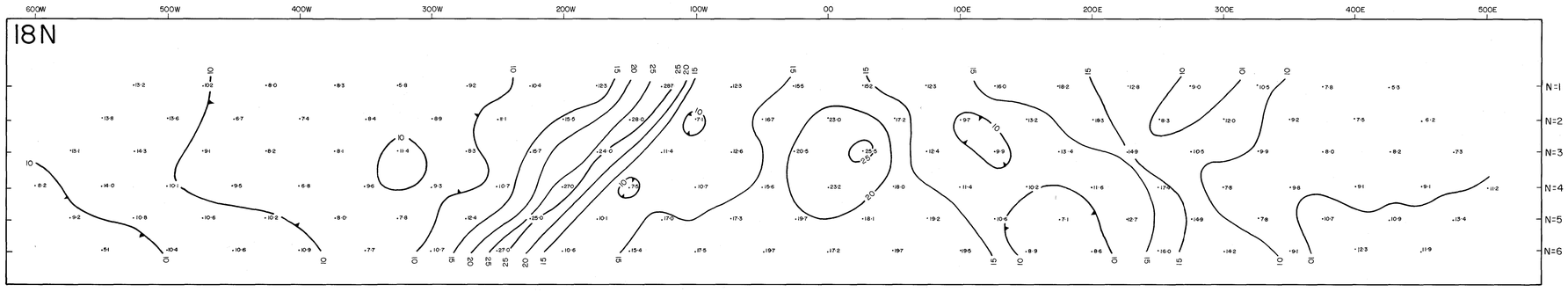
1:2000

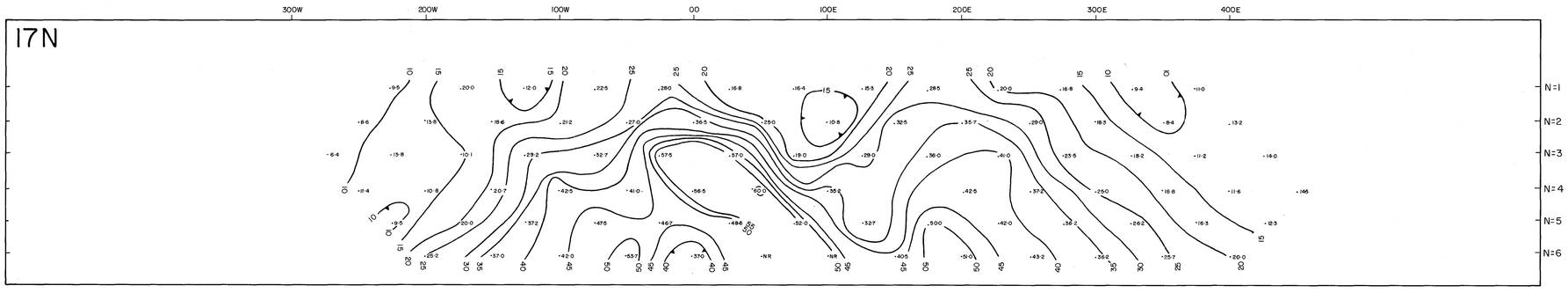
EAST TYNDALL

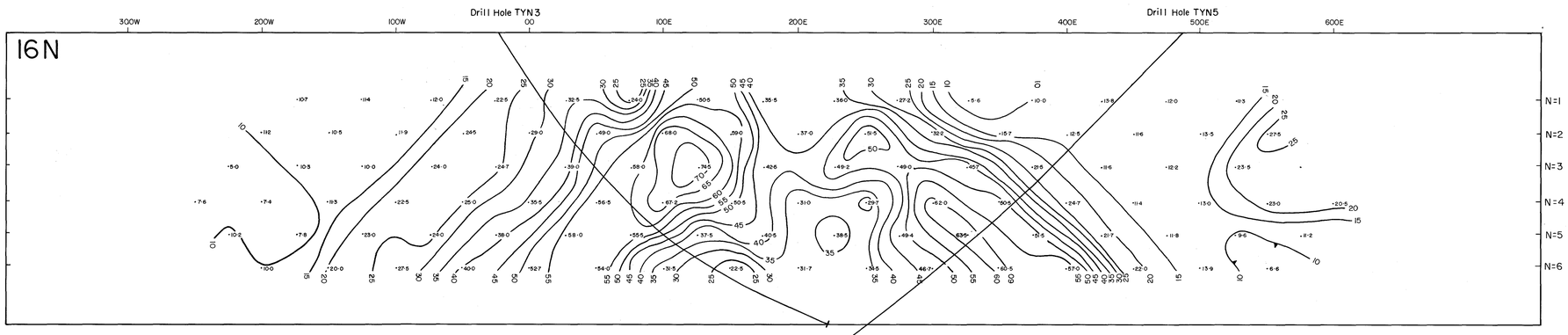
I.P. RESULTS
15N – 18N

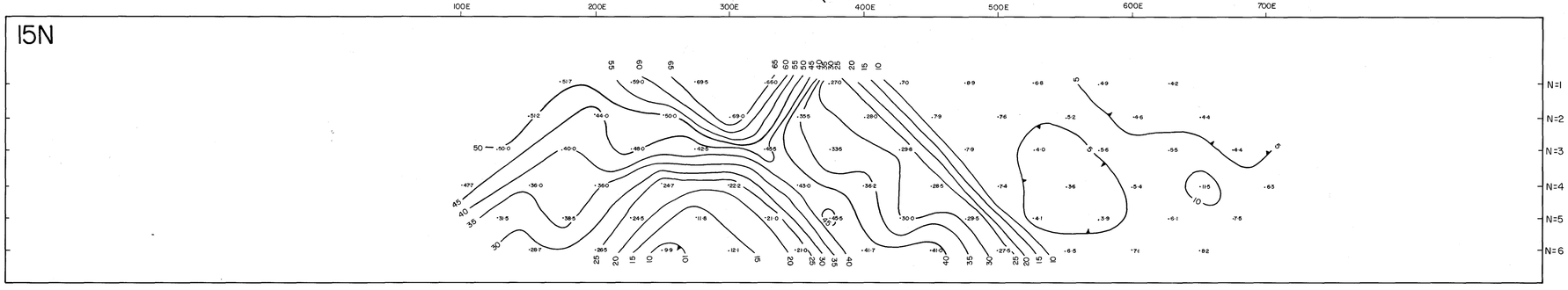
TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

CHARGEABILITY (mV/V)

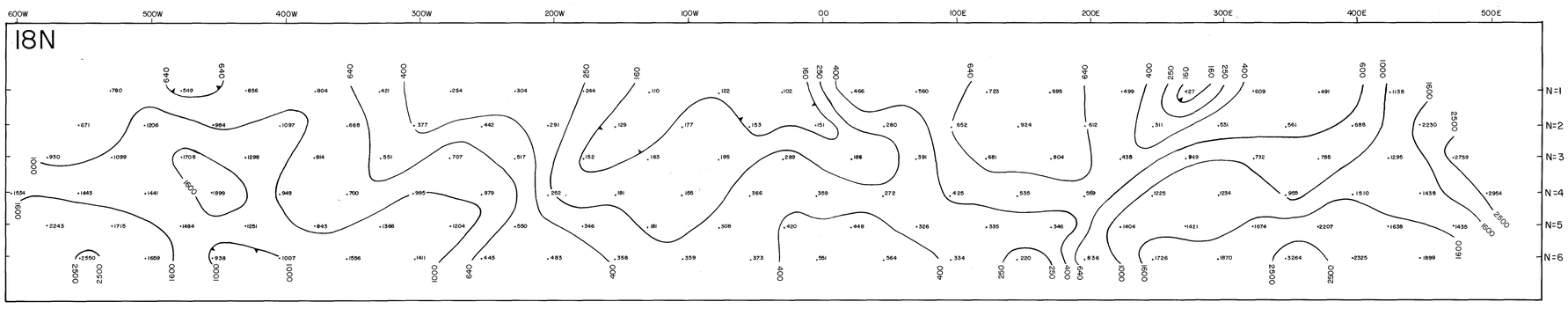


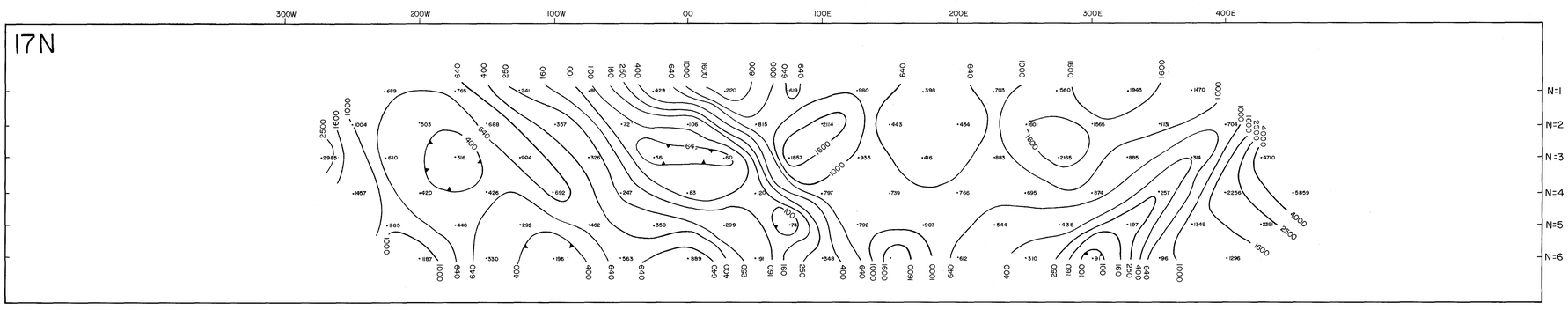


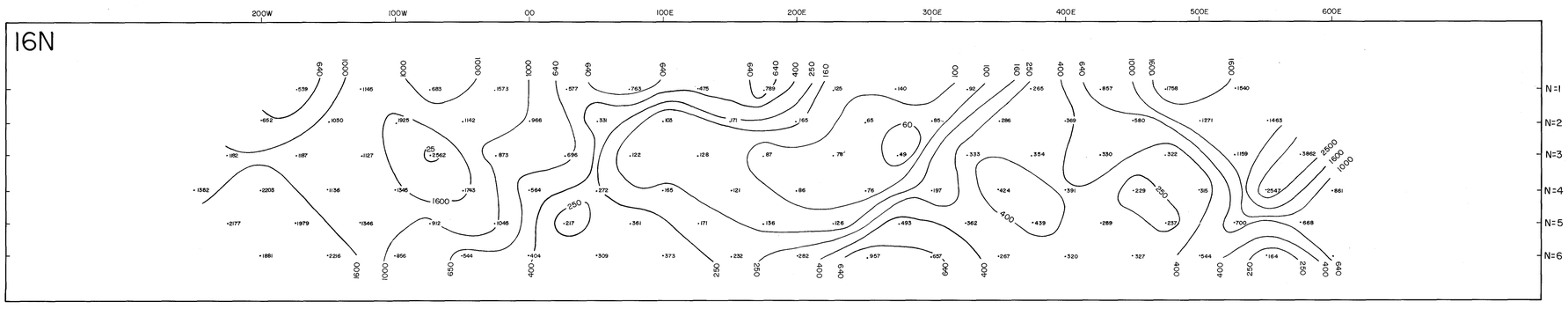


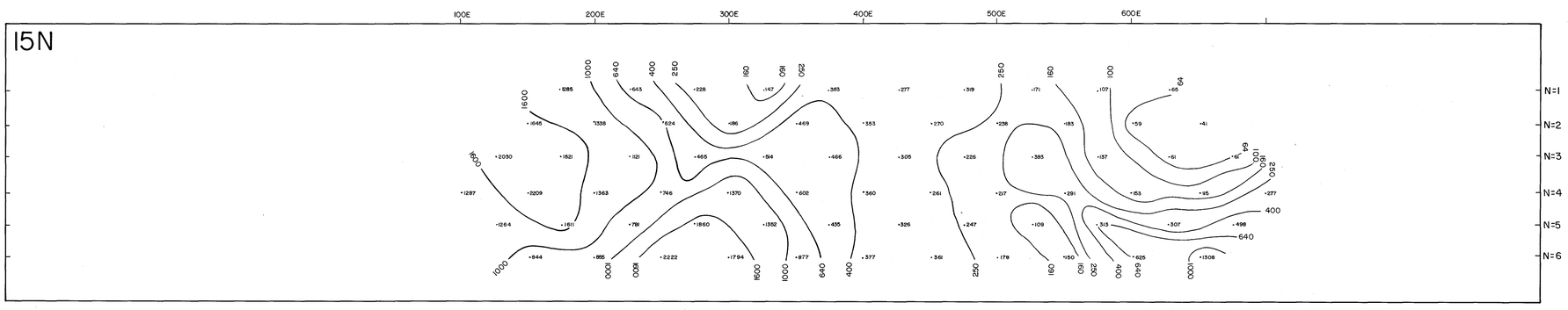


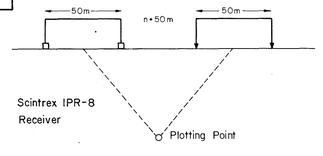
RESISTIVITY (ohm-metre)











Profiles positioned relative to regional strike of 359° GN

Survey by Scintrex Pty Ltd
Survey dates May 1981

5 cm

Refs: GF/MG87/01,
ML/MG81/13

THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

EAST TYNDALL
DIPOLE - DIPOLE E.I.P.
L15N-18N
CHARGEABILITY & RESISTIVITY
PSEUDO SECTIONS

Chargeability C.I.= 5mv Resistivity C.I.= Logarithmic

SCALE 1:2000	DRAWN BY P.K.
DATE 25.8.1981	DRAFTSMAN H.D.J

REVISIONS
F.G.F. MAY 187

FIG.3

A0-160-

1:20,000 EAST TYNDALL I.P. COVERAGE

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

164

5362000mN

5358000mN

5354000mN

375000mE

380000mE

Howard's Road

Howard's River

Henry Road

Bradshaw's Road

Power Line

Lake Julia

Lake Tyndall

Basin Lake

HFZ7

HFZ8

TYN1

TYN2

TYN3

HA1

HA2

HA3

HA5

BL1

BL2

BL3

BL4

BL802

BL803

40N 38N 36N 34N 32N 30N 28N 26N 24N 22N 21N 20N 19N 18N 17N 16N 15N 14N 12N 10N 9N 8N 7N 6N 5N 4N 2N

28+200N 27·6N 27·3N 27N 26·8N 26·6N 26·4N 29·6N 29·2N 24·5N 23·7N 23·4N 22·8N 22·2N 22+200S 21·9N 21·6N 21·3N 20+200N 20·6N 20·2N 20+200S 19·7N 19·4N 18+200N 18+200S 16+200N 16+200S 16+100N 16+100S 14+300S 12+300N 12+200N 12+200S 12+300S 10+200N 10+200S 9N 6N 3N 7N 6+400N 6+400S 5N 6+200N 6+200S 3S 6S 12S 18S 24S 30S 36S 42S 48S 54S 60S 66S 69S 72S 75S 78S 80S 82S 84S 90S 95S 1400S 800S 1200S 1600S 2000S 2400S 2800S 3200S 3600S 4000S 4400S 4800S 5200S 5600S 6000S 6400S 6800S 7200S 7600S 24200N 23800N 23300N 22900N 22500N 22100N 21700N 21300N 20900N 20500N 20100N

00

East Tyndall

gradient array .....

Scintrex	1974	(TAS 018c)	lines	4N, 6N+400S to 6N+400N, 28N, 34N, 38N, 40N.
Scintrex	1974	(TAS 025)	lines	2N to 10N, 15N to 18N, 34N, 36N.
Scintrex	1981	(ML/MG81/13)	lines	26·4N to 28N.

dipole - dipole _____

McPhar (for Rio Tinto)	1962,	lines	76S, 72S, 64S, 60S, 48S, 36S, 32S, 24S, 4S, 00.	
McPhar	1967 & 68	(Hallof, 1967 & 68)	lines	2N to 38N.
Scintrex	1981	(ML/MG81/13)	lines	2N to 8N, 15N to 18N.

Howard's Anomaly (19N to 26N)

gradient array .....

Scintrex	1973	(TAS 018c)	lines 22N+200S to 22N+200N.
Scintrex	1975	(TAS 025c)	lines 19N to 25N.
Scintrex	1979	(TAS 073a)	lines 19N to 25N.
Scintrex	1981	(ML/MG81/13)	lines 22N to 23·4N.

dipole - dipole _____

McPhar	1967 & 68	(Hallof, 1967 & 68)	lines 20N to 24N.

pole - dipole - - - -

Scintrex	1975	(TAS 025c)	line 1700W.
Scintrex	1980	(TAS 025c)	lines 20N to 24·5N.

Basin Lake

gradient array .....

Scintrex	1974	(TAS 025B)	lines 96S - 3N.
Scintrex	1978	(TAS 054c)	lines 82S - 66S, 6S - 9N.

dipole - dipole _____

Pickands Mather, 1968-9 (including McPhar, 1968),			lines 20,000N to 24,200N.
Scintrex	1981	(ML/MG81/13)	lines 30S and 36S.

pole - dipole - - - -

Scintrex	1978	(TAS 054c)	line 00.

Ref: ML/MG81/13

MITRE GEOPHYSICS PTY. LTD.

EAST TYNDALL & BASIN LAKE GRIDS

IP COVERAGE

A2-192-7

DRAWN: M.McD.	SCALE: 1:20,000	FIG. 3
TRACED: T.G.D.S.	DATE: April, 1982	

5 cm

1:20,000 EAST TYNDALL GROUND MAGNETICS

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

105

5362000mN

6358000mN

5354000mN

375000mE

380000mE

Road

Howards

River

Henty

Bradshaw's

Road

Power Line

Power Line

Lake Julia

Lake Tyndall

Basin Lake

HFZ7

HFZ8

40N

38N

36N

34N

32N

30N

29·6N

29·2N

28N

27·6N

27·3N

27N

26·8N

26·6N

26·4N

26N

25N

24·5N

24N

23·7N

23·4N

23N

22·5N

22·2N

22N

21·9N

21·6N

21N

20N

19N

18N

17N

16N

15N

14N

12N

10N

9N

8N

7N

6N

5N

4N

2N

TYN1

TYN2

TYN3

HA1

HA2

HA3

HA4

HA5

HA6

BL1

BL2

BL3

BL4

BL801

BL802

6N

3N

00

3S

6S

9S

12S

15S

18S

21S

24S

27S

30S

33S

36S

42S

48S

54S

60S

66S

69S

72S

75S

78S

80S

82S

84S

90S

96S

Howards Anomaly

····· 63,000 ɣ contour from Figure 16.

Profile Legend

—— vertical field (flux gate)

----- total field (proton precession)

Scale 1cm = 131 ɣ

(reduced from the original maps at 1:6000 & 1"=100ɣ by N.S-H., 1975)

Basin Lake

····· 63,000 ɣ contour from Scintrex report TAS-025B.

5 cm

THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

EAST TYNDALL AREA

MAGNETIC ANOMALIES

FIG. 7

REVISIONS

SCALE 1 : 20 000	DRAWN BY L.W.	A2-192-3
DATE May, 1982	DRAFTSMAN T.G.D.S.	

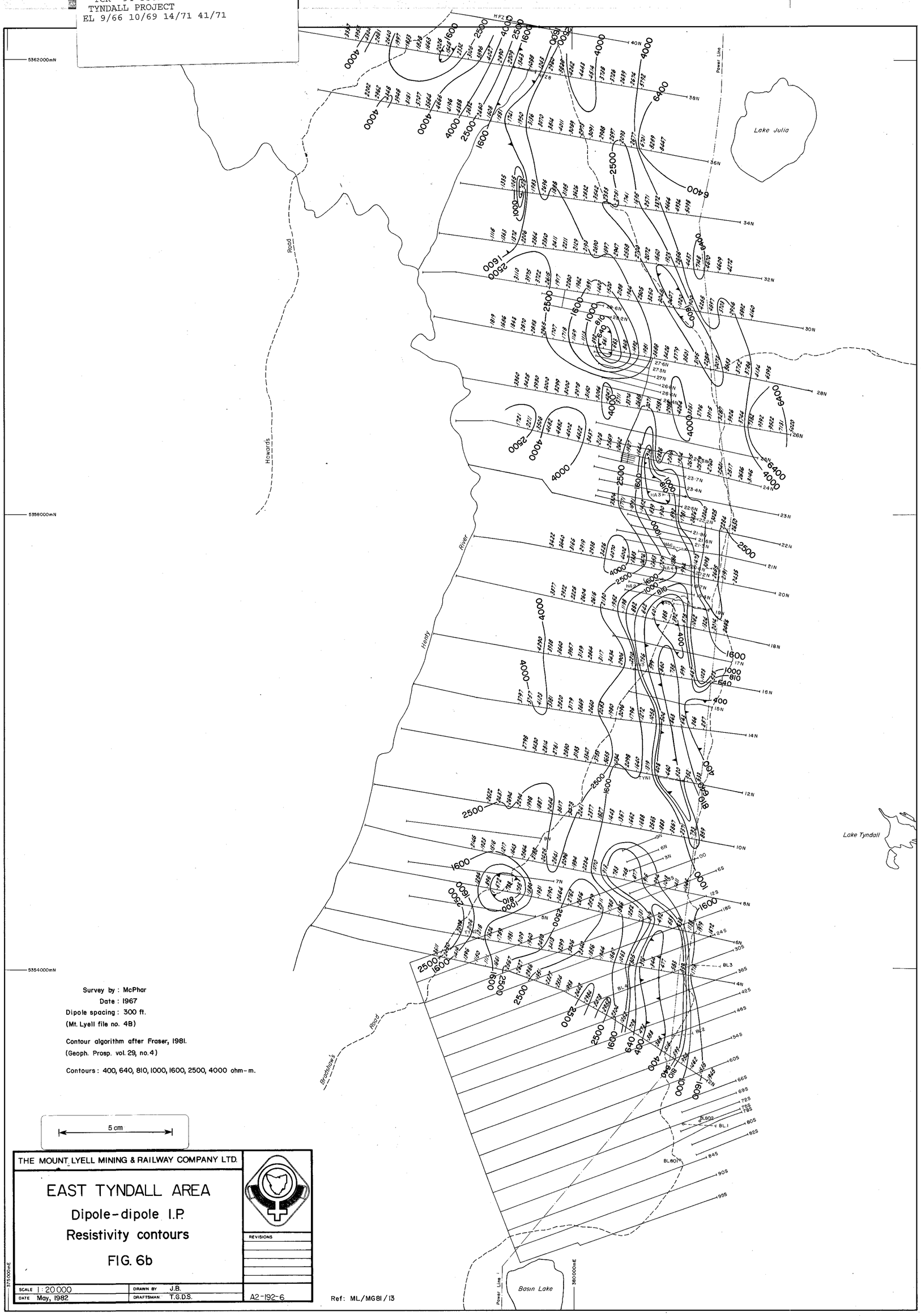
Ref: ML/MG82/13

1:20,000

EAST TYNDALL

I.P. RESULTS (RESISTIVITY)

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



Survey by : McPhar
Date : 1967
Dipole spacing : 300 ft.
(Mt. Lyell file no. 48)

Contour algorithm after Fraser, 1981.
(Geoph. Prosp. vol. 29, no. 4)

Contours : 400, 640, 810, 1000, 1600, 2500, 4000 ohm-m.

5 cm

THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

EAST TYNDALL AREA

Dipole-dipole I.P.
Resistivity contours

FIG. 6b

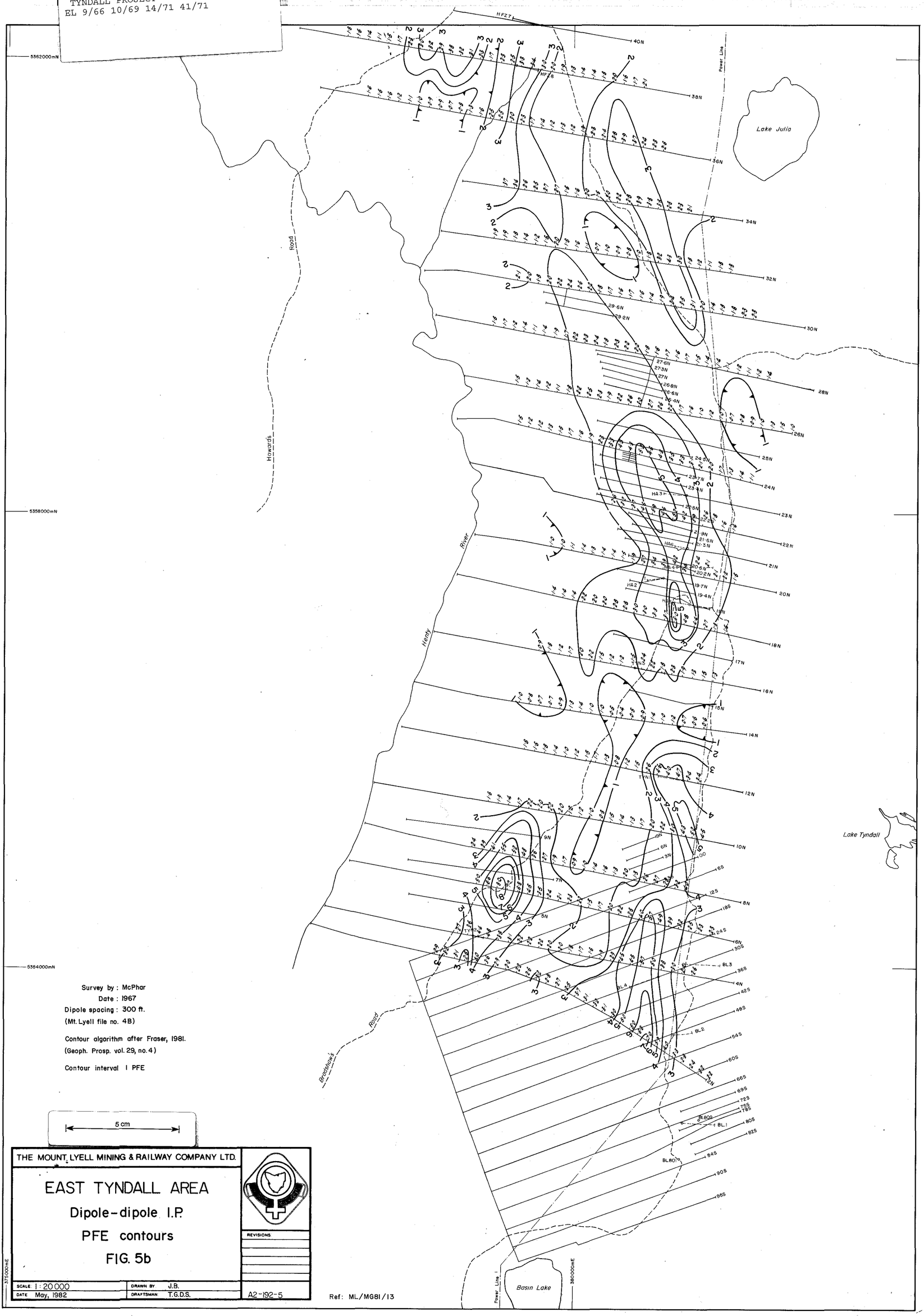
SCALE 1:20,000	DRAWN BY J.B.	A2-192-6
DATE May, 1982	DRAFTSMAN T.G.D.S.	

REVISIONS

1:20,000 EAST TYNDALL I.P. RESULTS

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

107



Survey by : McPhar
Date : 1967
Dipole spacing : 300 ft.
(Mt. Lyell file no. 4B)

Contour algorithm after Fraser, 1981.
(Geoph. Prosp. vol. 29, no. 4)

Contour interval 1 PFE

5 cm

THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

EAST TYNDALL AREA

Dipole-dipole I.P.

PFE contours

FIG. 5b

REVISIONS

SCALE 1:20,000	DRAWN BY J.B.	A2-192-5
DATE May, 1982	DRAFTSMAN T.G.D.S.	

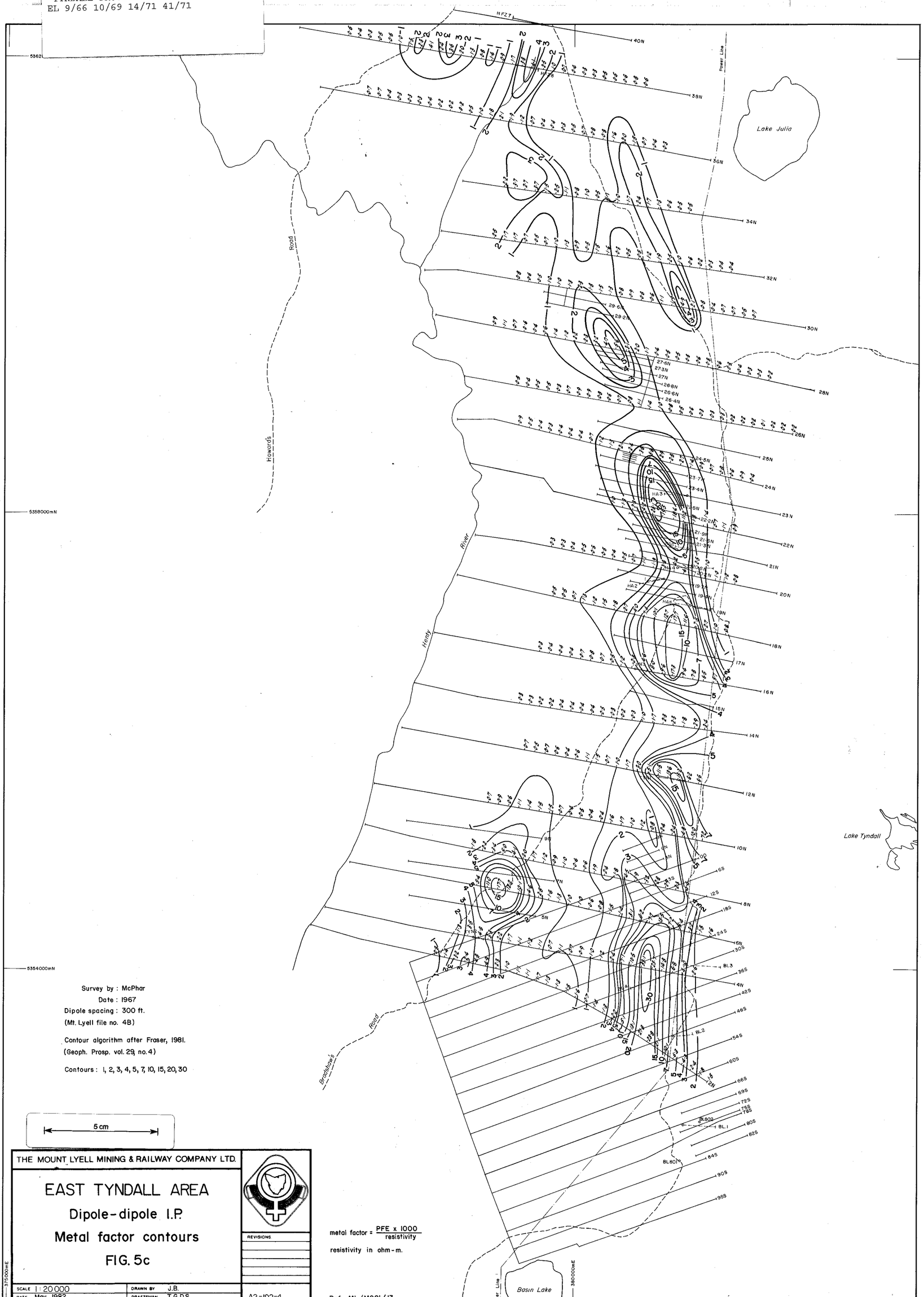
Ref: ML/MG81/13

1:20,000

EAST TYNDALL

I.P. RESULTS (CHARGEABILITY)

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



Survey by : McPhar
Date : 1967
Dipole spacing : 300 ft.
(Mt. Lyell file no. 48)

Contour algorithm after Fraser, 1981.
(Geoph. Prosp. vol. 29, no. 4)

Contours : 1, 2, 3, 4, 5, 7, 10, 15, 20, 30

5 cm

THE MOUNT LYELL MINING & RAILWAY COMPANY LTD.

EAST TYNDALL AREA

Dipole-dipole I.P.

Metal factor contours

FIG. 5c

SCALE 1:20000	DRAWN BY J.B.	REVISIONS
DATE May, 1982	DRAFTSMAN T.G.D.S.	A2-192-4

metal factor = $\frac{PFE \times 1000}{resistivity}$

resistivity in ohm-m.

Ref: ML/MG81/13

1:20,000 EAST TYNDALL I.P. ANOMALIES

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

109

Note: Hallof's (1968) zones C4 and E are probably incorrect: a more likely correlation of anomalies is shown by the gradient array chargeable zone, lines 34N to 40N.

Note: Anomalies on lines 00 to 18S on Basin Lake grid should overlap those on the East Tyndall grid: discrepancies are due to gridding inaccuracies etc.

5362000mN
5358000mN
5354000mN
375000mE
380000mE

- gradient array chargeability contour
- gradient array chargeability 'bar' anomaly
- stronger/weaker gradient array anomalous chargeability zone (lines 34N to 40N)
- McPhar 1967 definite/probable-possible anomalies
- McPhar 1968 detail anomalies
- other dipole-dipole and pole-dipole anomalies
- C2 Anomalous zone from McPhar 1967-68 dipole-dipole IP Hallof (1968) Interpretation

Howard's Road
Henty River
Bradshaw's Road
Power Line
Lake Julia
Lake Tyndall
Basin Lake

HFZ7 HFZ8 E C4 D C3 C2 C1 A B
TYN1 TYN2 TYN3
HA1 HA2 HA3 HA4 HA5 HA6
BL1 BL2 BL3 BL4 BL801 BL802

40N 38N 36N 34N 32N 30N 29·6N 29·2N 28N 27·6N 27·3N 27N 26·8N 26·6N 26·4N 26N 25N 24·6N 24N 23·7N 23·4N 23N 22·5N 22·2N 22N 21·9N 21·6N 21·3N 21N 20·6N 20·2N 20N 19·7N 19·4N 19N 18N 17N 16N 15N 14N 12N 10N 9N 8N 7N 6N 5N 3N 0N 3S 6S 8S 12S 18S 24S 30S 36S 42S 48S 54S 60S 66S 69S 72S 75S 78S 80S 82S 84S 90S 95S

East Tyndall and Howard's Anomaly
— chargeability contour outlined is 30mv/v.

Basin Lake
— chargeability contour outlined 30ms (no. 5, 20ms)
— — PFE = 5% contour for n=4, 300ft dipole (Pickands Mather)

5 cm

Ref: ML/MG81/13

MITRE GEOPHYSICS PTY. LTD.

EAST TYNDALL & BASIN LAKE GRIDS

IP ANOMALIES

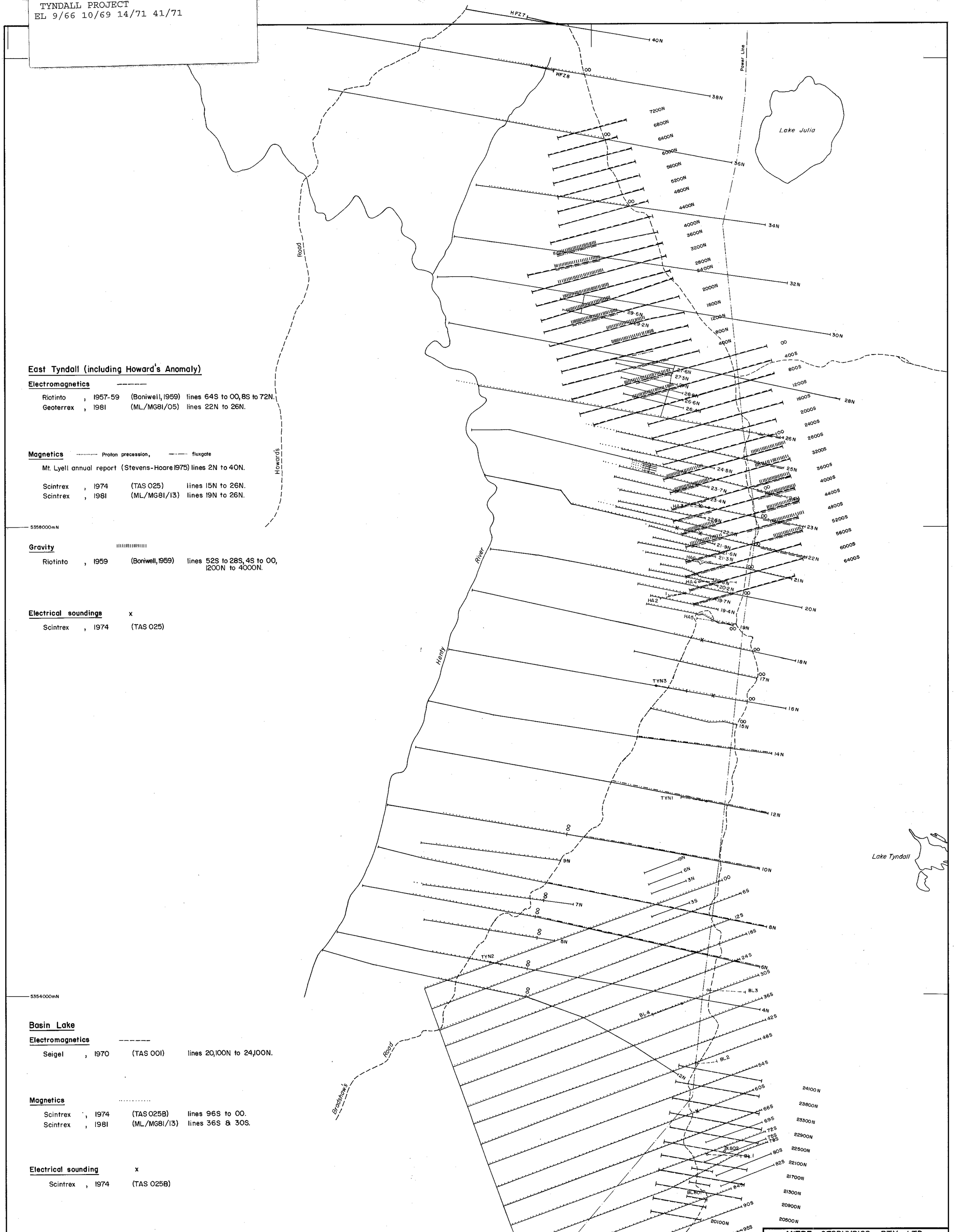
A2-192-10

DRAWN: J.B.	SCALE: 1:20,000	FIG. 5a
TRACED: T.G.D.S.	DATE: April 1982	

1:20,000 EAST TYNDALL EM + MAG + GRAV. COVERAGE

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

V.10



East Tyndall (including Howard's Anomaly)

Electromagnetics ------

Riotinto	1957-59	(Boniwell, 1959)	lines 64S to 00, 8S to 72N.
Geoterrex	1981	(ML/MG81/05)	lines 22N to 26N.

Magnetics ..... Proton precession, —·—·— fluxgate

Mt. Lyell annual report (Stevens-Hoare 1975) lines 2N to 40N.

Scintrex	1974	(TAS 025)	lines 15N to 26N.
Scintrex	1981	(ML/MG81/13)	lines 19N to 26N.

Gravity ||||||||||

Riotinto	1959	(Boniwell, 1959)	lines 52S to 28S, 4S to 00, 1200N to 4000N.

Electrical soundings x

Scintrex	1974	(TAS 025)

Basin Lake

Electromagnetics ------

Seigel	1970	(TAS 001)	lines 20,100N to 24,100N.

Magnetics .....

Scintrex	1974	(TAS 025B)	lines 96S to 00.
Scintrex	1981	(ML/MG81/13)	lines 36S & 30S.

Electrical sounding x

Scintrex	1974	(TAS 025B)

MITRE GEOPHYSICS PTY. LTD.

EAST TYNDALL & BASIN LAKE GRIDS

Magnetic, EM & Gravimetric Coverage

A2-192-11

DRAWN: M. McD.	SCALE: 1:20,000	FIG. 4
TRACED: T.G.D.S.	DATE: April 1982	

1:20,000 EAST TYNDALL

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

RIOTINTO 1957-59
TURAM SURVEY -4° phase
contour shown. Positions
approximate.

5362000mN
5358000mN
5354000mN
375000mE
380000mE

HFZ7 HFZ8 TYN3 TYN2 TYN1 HA3 HA6 HA4 HA2 HA5 BL4 BL3 BL2 BL802 BL1 BL801

40N 38N 36N 34N 32N 30N 28N 26N 25N 24N 23N 22N 21N 20N 19N 18N 17N 16N 15N 14N 12N 10N 8N 6N 4N 2N

7200N 6800N 6400N 6000N 5600N 5200N 4800N 4400N 4000N 3600N 3200N 2800N 2400N 2000N 1600N 1200N 800N 400N 00 400S 800S 1200S 1600S 2000S 2400S 2800S 3200S 3600S 4000S 4400S 4800S 5200S 5600S 6000S 6400S

29·6N 29·2N 27·6N 27·3N 27N 26·8N 26·6N 26·4N 24·5N 23·7N 23·4N 22·5N 22·2N 21·9N 21·6N 21·3N 20·6N 20·2N 19·7N 19·4N 9N 6N 3N 00 3S 6S 12S 18S 24S 30S 36S 42S 48S 54S 60S 66S 69S 72S 75S 78S 80S 82S 84S 90S 96S

9N 7N 5N

24100N 23800N 23300N 22900N 22500N 22100N 21700N 21300N 20900N 20500N 20100N

Power Line
Howards Road
Henty River
Bradshaws Road
Lake Julia
Lake Tyndall
Basin Lake

SEIGEL & ASSOCS., 1970
Turam anomaly location
(closed loop, | phase | > 4°)

5 cm

Ref: ML/MG81/13

MITRE GEOPHYSICS PTY. LTD.

EAST TYNDALL & BASIN LAKE GRIDS

EM ANOMALIES

A2-192-9

DRAWN: J.B.	SCALE: 1:20,000	FIG. 8
TRACED: T.G.D.S.	DATE: April 1982	

1:20,000 EAST TYNDALL RE

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

112

1000 ohm-m contour from the Scintrex, 1974 (TAS-025) gradient array IP survey of Mt. Tyndall.

1000 ohm-m contours are from the Scintrex, 1981 gradient array IP survey of the Tyndall Mine.

1000 ohm-m contours are from the Scintrex, 1979 gradient qrray IP survey of Howards Anomaly.

——— low resistivity marker horizon, (Scintrex, report TAS-073A, 1979)

400 ohm-m contours are n=1 values from the McPhar 1967-68 dipole-dipole IP survey (from plans by Craven, 1973)

1500 ohm-m contours are from the Scintrex 1974 Basin Lake gradient array IP survey.

5362000mN
5358000mN
5354000mN
375000mE
380000mE

HFZ7
HFZ8
40N
38N
36N
34N
32N
30N
29·6N
29·2N
28N
27·6N
27·3N
27N
26·8N
26·6N
26·4N
26N
25N
24·6N
24N
23·7N
23·4N
23N
22·5N
22·2N
22N
21·9N
21·6N
21·3N
21N
20·6N
20·2N
20N
19·7N
19·4N
19N
18N
17N
16N
15N
14N
12N
10N
9N
7N
5N
TYN3
TYN1
TYN2
HA1
HA2
HA3
HA4
HA5
HA6
BL1
BL2
BL3
BL4
BL801
BL802
1000
400
1500
Power Line
Lake Julia
Road
Howards
River
Henty
Bradshaws
Basin Lake
Lake Tyndall

5 cm

MITRE GEOPHYSICS PTY. LTD.

EAST TYNDALL & BASIN LAKE GRIDS

RESISTIVITY ANOMALIES

A2-192-8

DRAWN: J.B.	SCALE: 1:20,000	FIG. 6a
TRACED: T.G.D.S.	DATE: April 1982	

Ref. ML/MG81/13

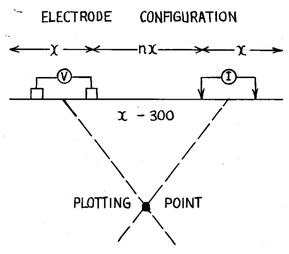
TCR 94-3581
TYNDALL PROJECT
EL 9/66 10/69 14/71 41/71

113

EAST TYNDALL
LINE 12N.

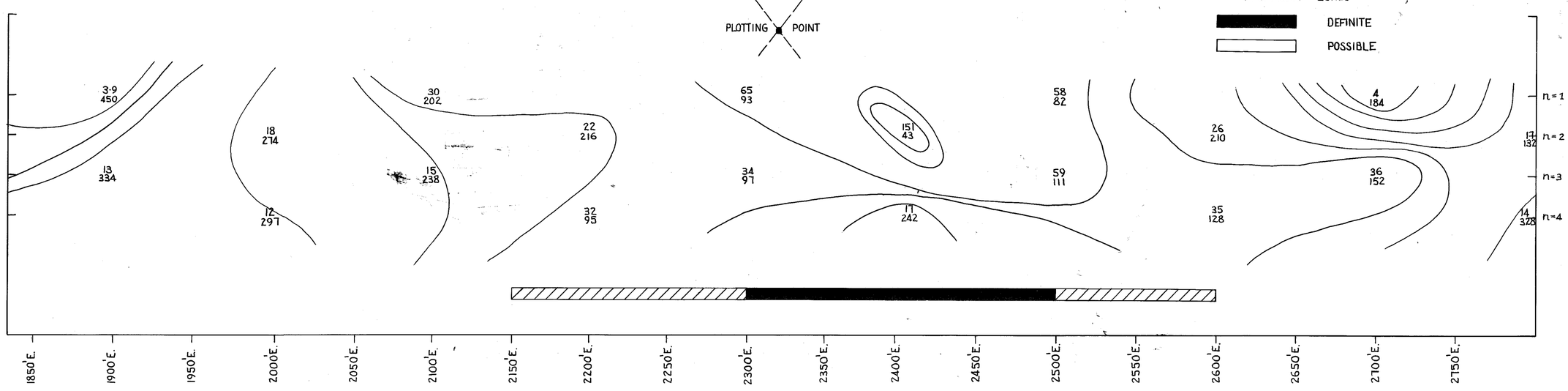
D.D.H. SECTION
D.D.H. TYNDALL No.1

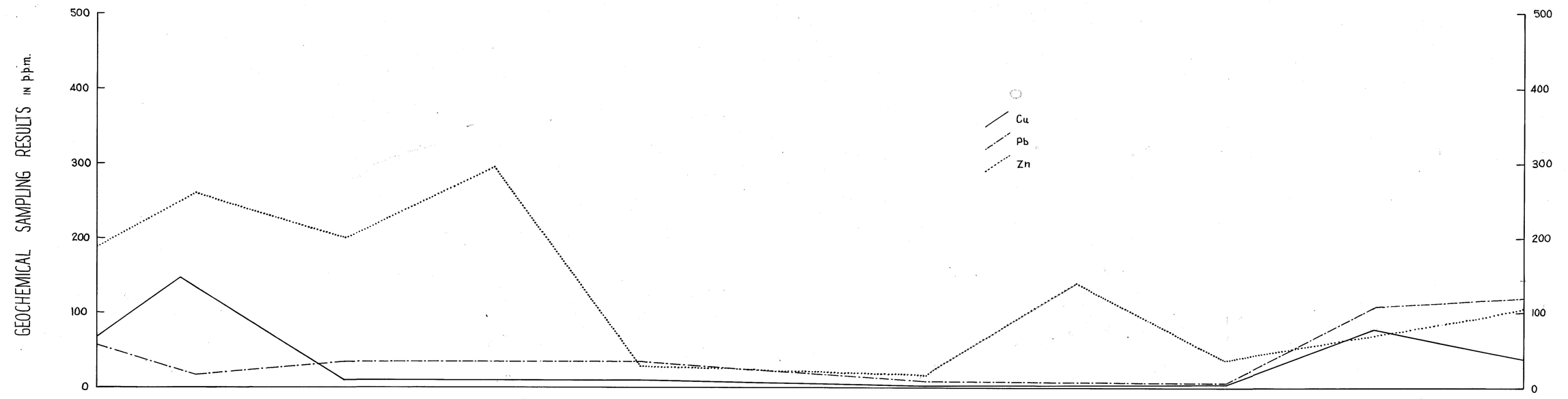
ELECTRODE CONFIGURATION

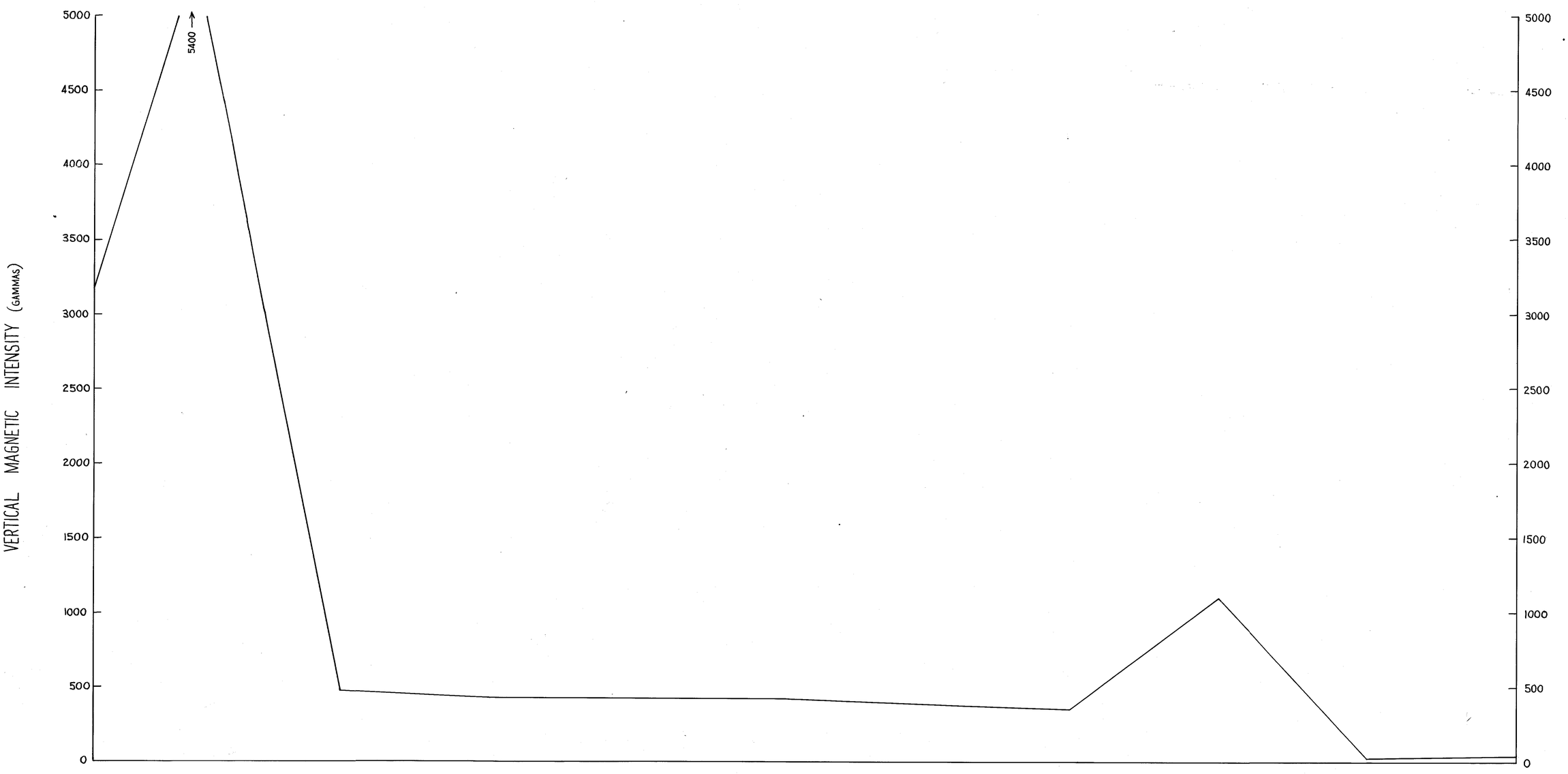


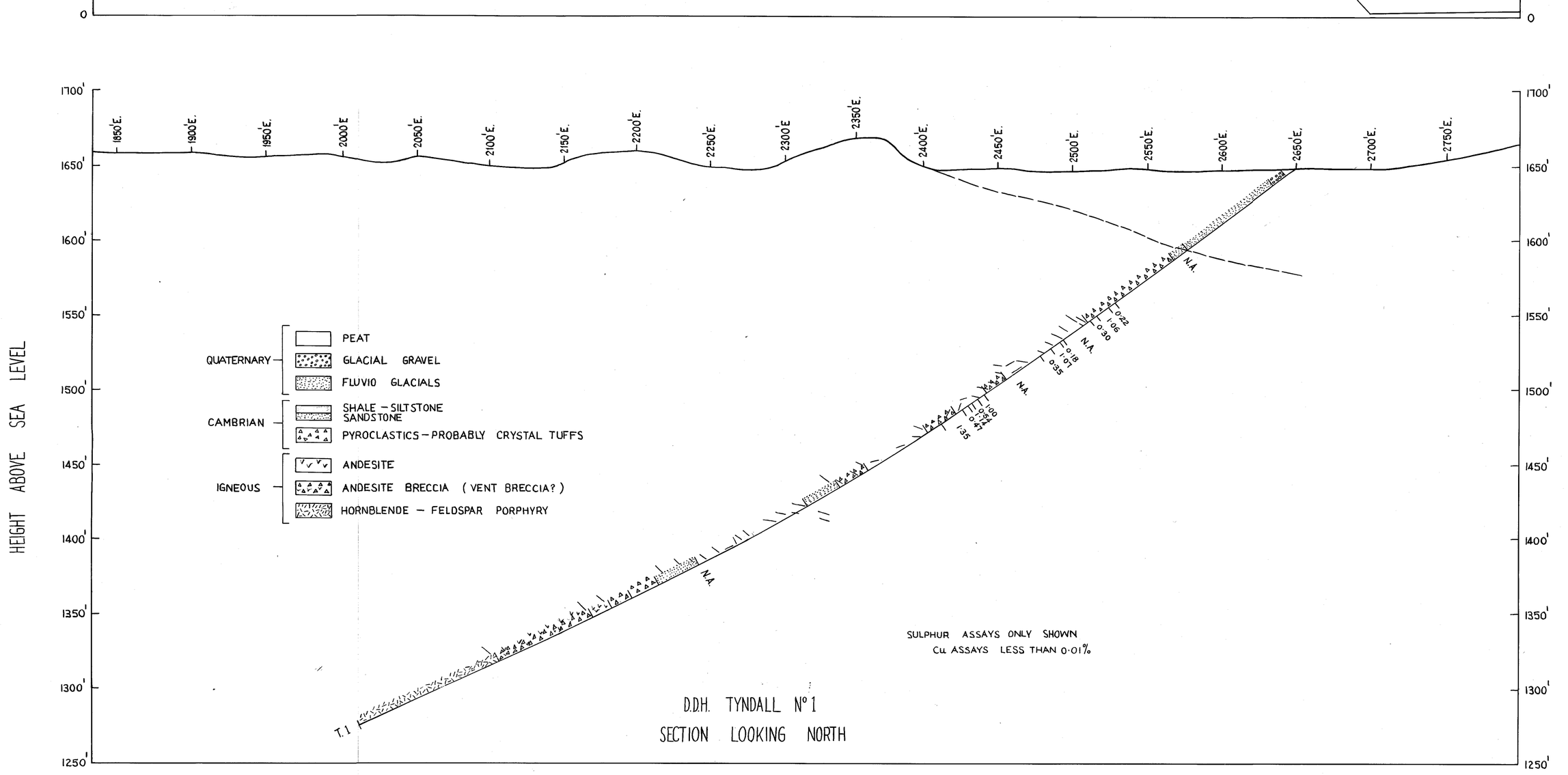
ANOMALOUS ZONES
DEFINITE
POSSIBLE

I.P. PROFILE
10 METAL FACTOR (contoured)
30 RESISTIVITY (ohm feet)









D.D.H. TYNDALL N° 1
SECTION LOOKING NORTH

PLAN OF D.D.H. TYNDALL N° 1 AND LINE 12 E.

5 cm

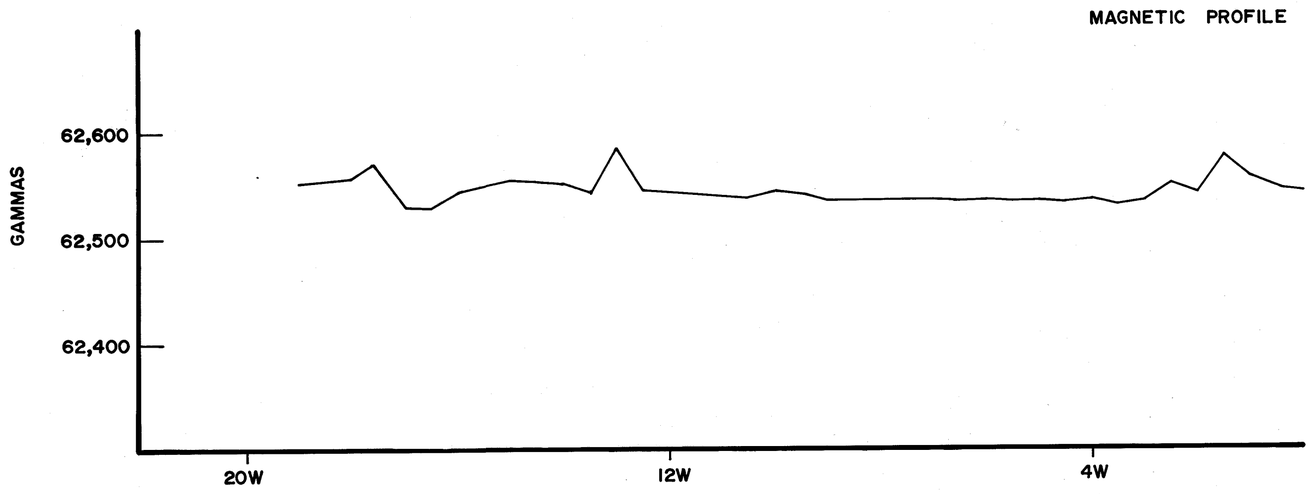
THE CONSOLIDATED SYNDICATE	DRAWN. R.G.W.
	TRACED. R.G.W.
	CHECKED. Sand.
HENTY GRID	DATE. 14-12-70
LINE 12 N	SCALE. 1" : 50'
GEOPHYSICAL, GEOCHEMICAL & DRILLING RESULTS.	

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

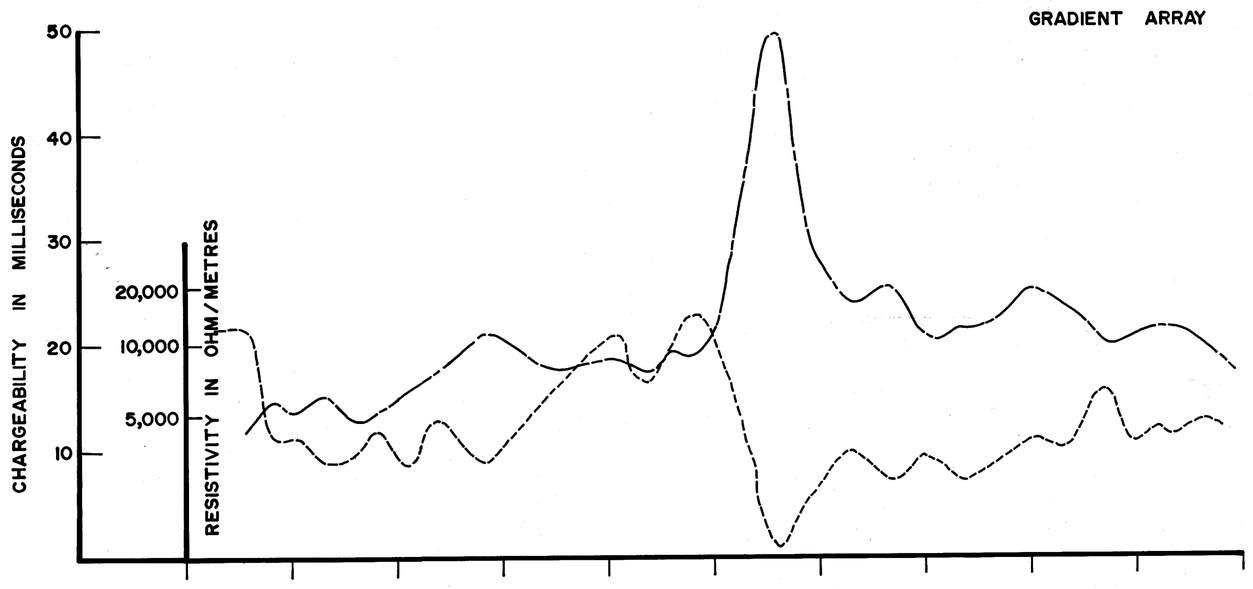
EAST TYNDALL LINE 4N

DRILL SECTION D.D.H. TYNDALL No. 2

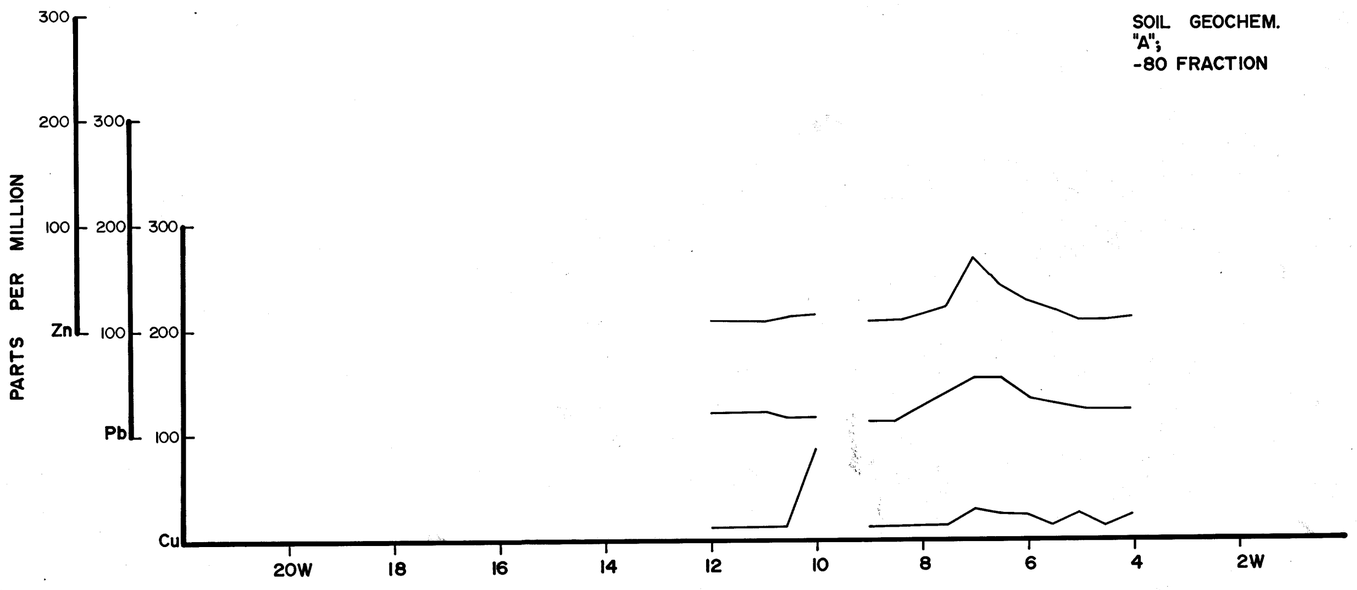
MAGNETIC PROFILE



GRADIENT ARRAY

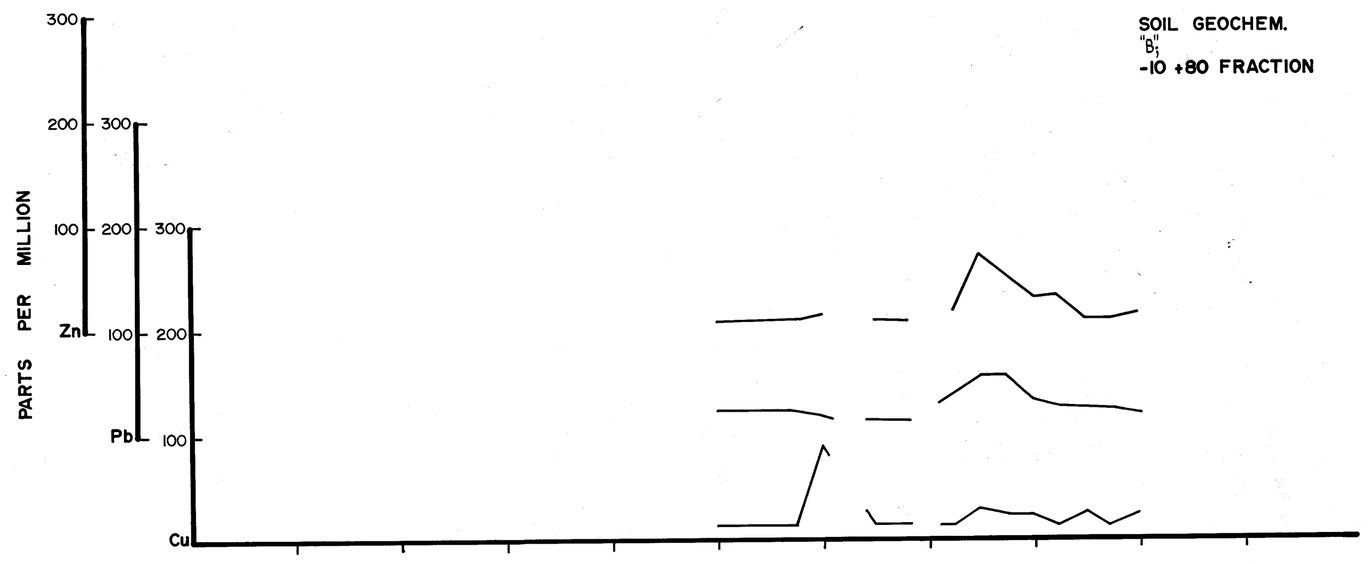


SOIL GEOCHEM.
"A";
-80 FRACTION

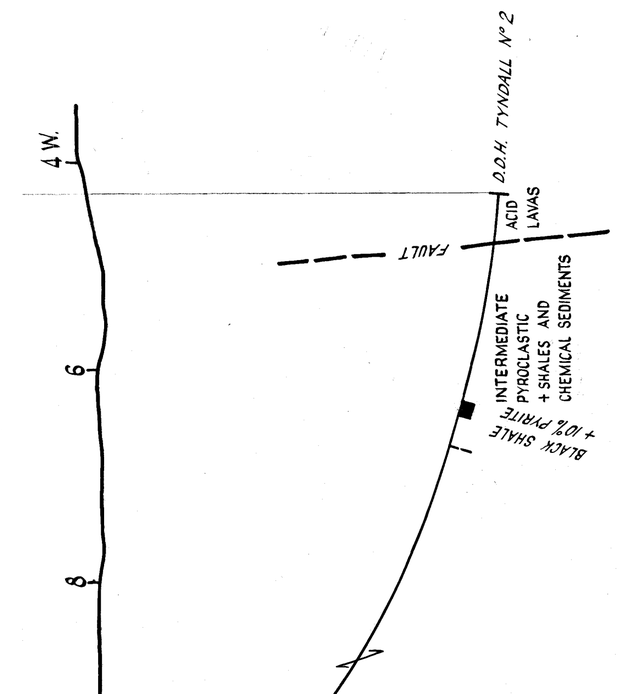


C C C A A A A A C C C C C C A C C HORIZON SAMPLED

SOIL GEOCHEM.
"B";
-10 +80 FRACTION



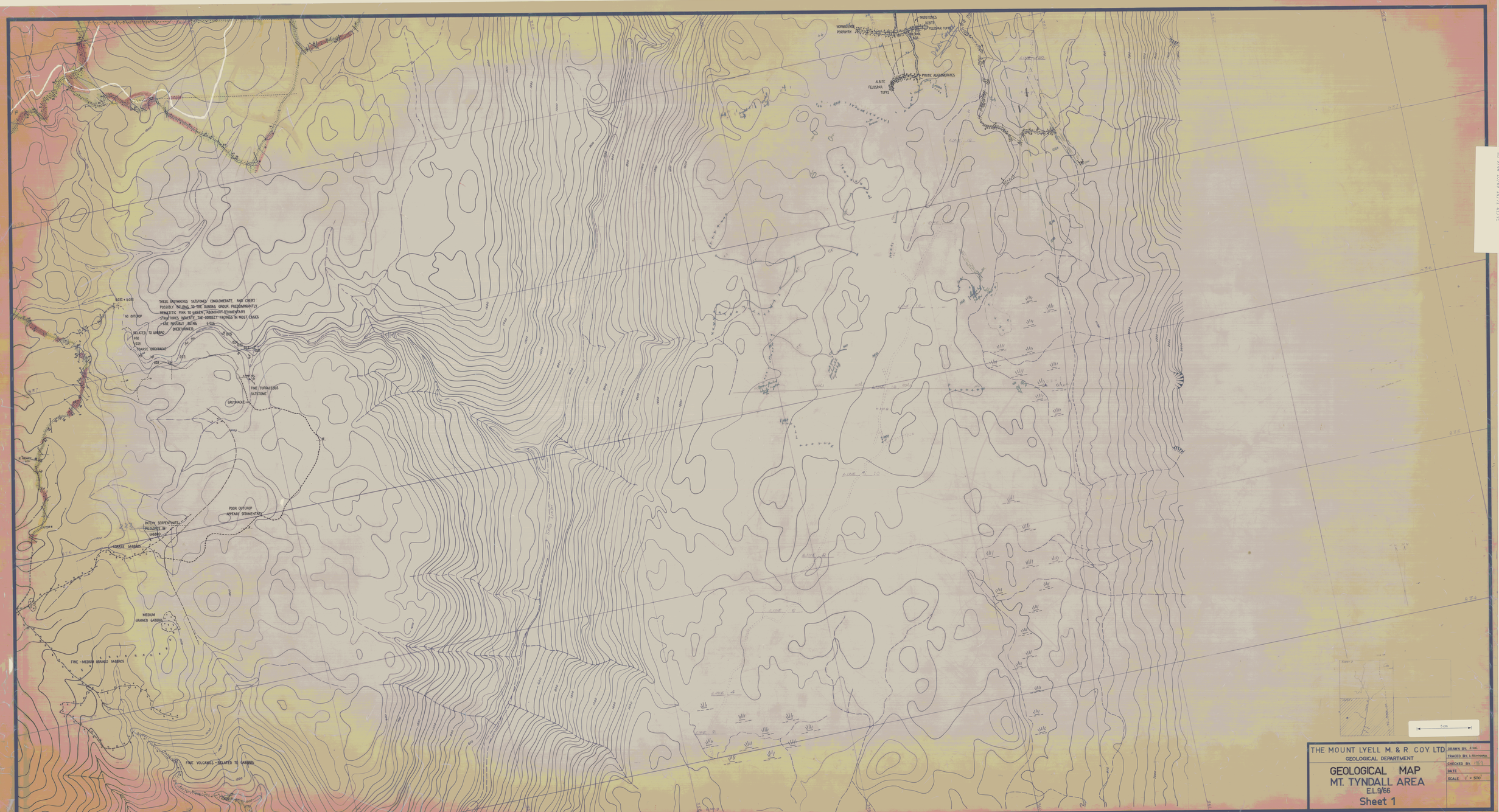
PROFILE AND GEOLOGY



SCALE. 1:1200

5 cm

THE CONSOLIDATED SYNDICATE	DRAWN. N. S-H.
	TRACED. R.G.W.
	CHECKED.
MT. TYNDALL AREA E.L. 9/66	DATE. 20: 2 :'75
ZONE "A" - LINE 4N.	SCALE. AS SHOWN
GEOPHYSICAL, GEOCHEMICAL AND DRILLING RESULTS	



1:6000

TYNDALL SHEET 1

GEOLOGY (1969)

1/101

1:6000

TYNDALL
SHEET 1

GEOLOGY
(1974)

LOCATION DIAGRAM
SCALE: 1" = 16 MILES

5 cm

THE CONSOLIDATED SYNDICATE	DRAWN BY. B.CRUTT
	TRACED BY.
GEOLOGICAL MAP	CHECKED BY.
MT. TYNDALL AREA	DATE FEB. 1974
E.L.9/66	SCALE 1" 500
Sheet 1	

SYDNEY 29/6 16/71 41/71
BRISBANE 29/6 16/71 41/71
PERTH 29/6 16/71 41/71

1:6000

TYNDALL
SHEET 1 (WEST)

GEOLOGY
(1975)
FACT

ANG COORDINATES

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

5 cm

THE CONSOLIDATED SYNDICATE

MT. TYNDALL AREA
E.L. 9/66
SHEET 1 WEST
OUTCROP GEOLOGY

DRAWN BY: M.R.S-H.
TRACED BY:
CHECKED BY: R.G.W.
DATE: 26-8-'75
SCALE: 1:6000

FIG. 8

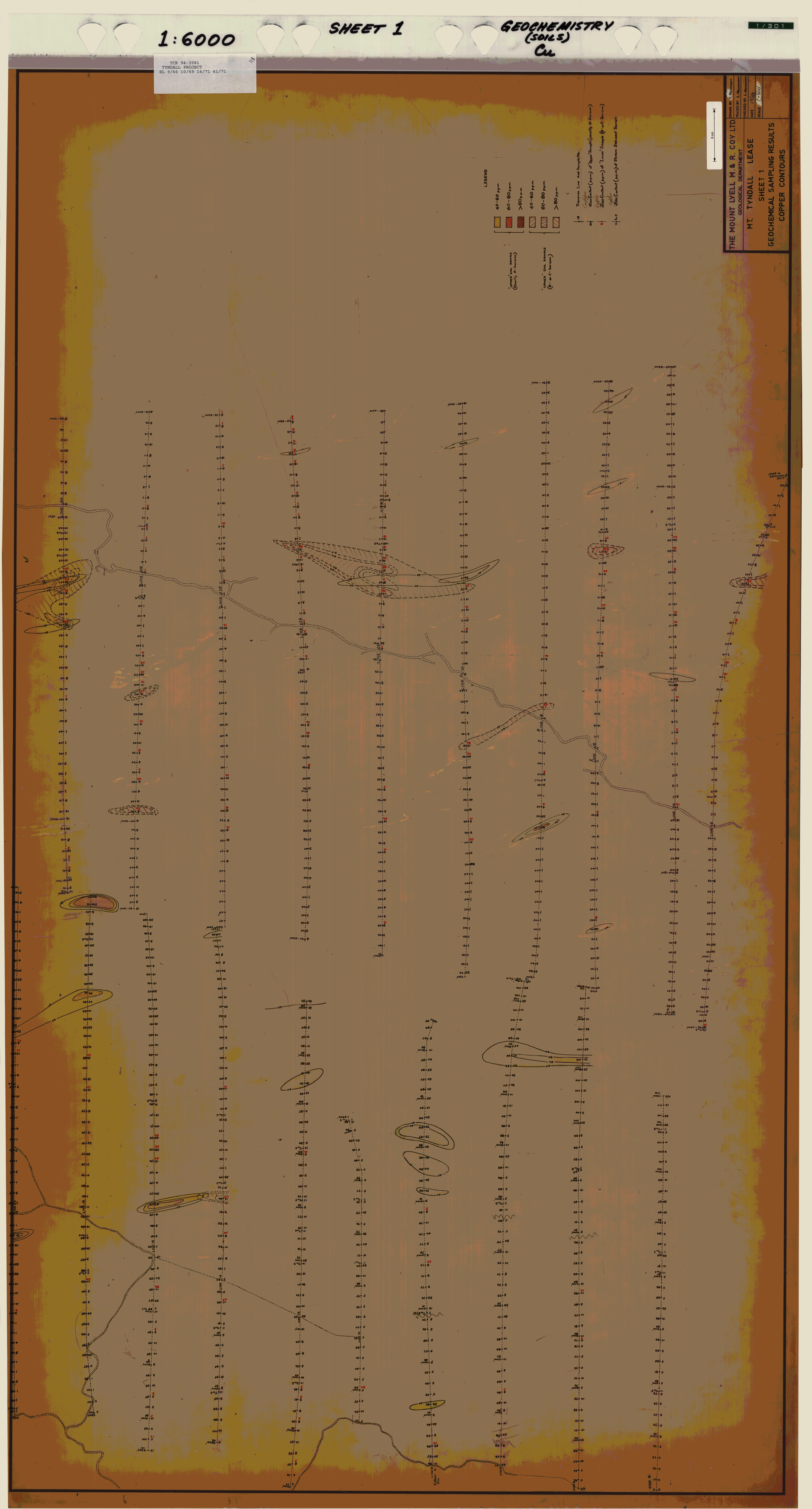
1:6000

SHEET 1

GEOCHEMISTRY (SOILS) Cu

1/301

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



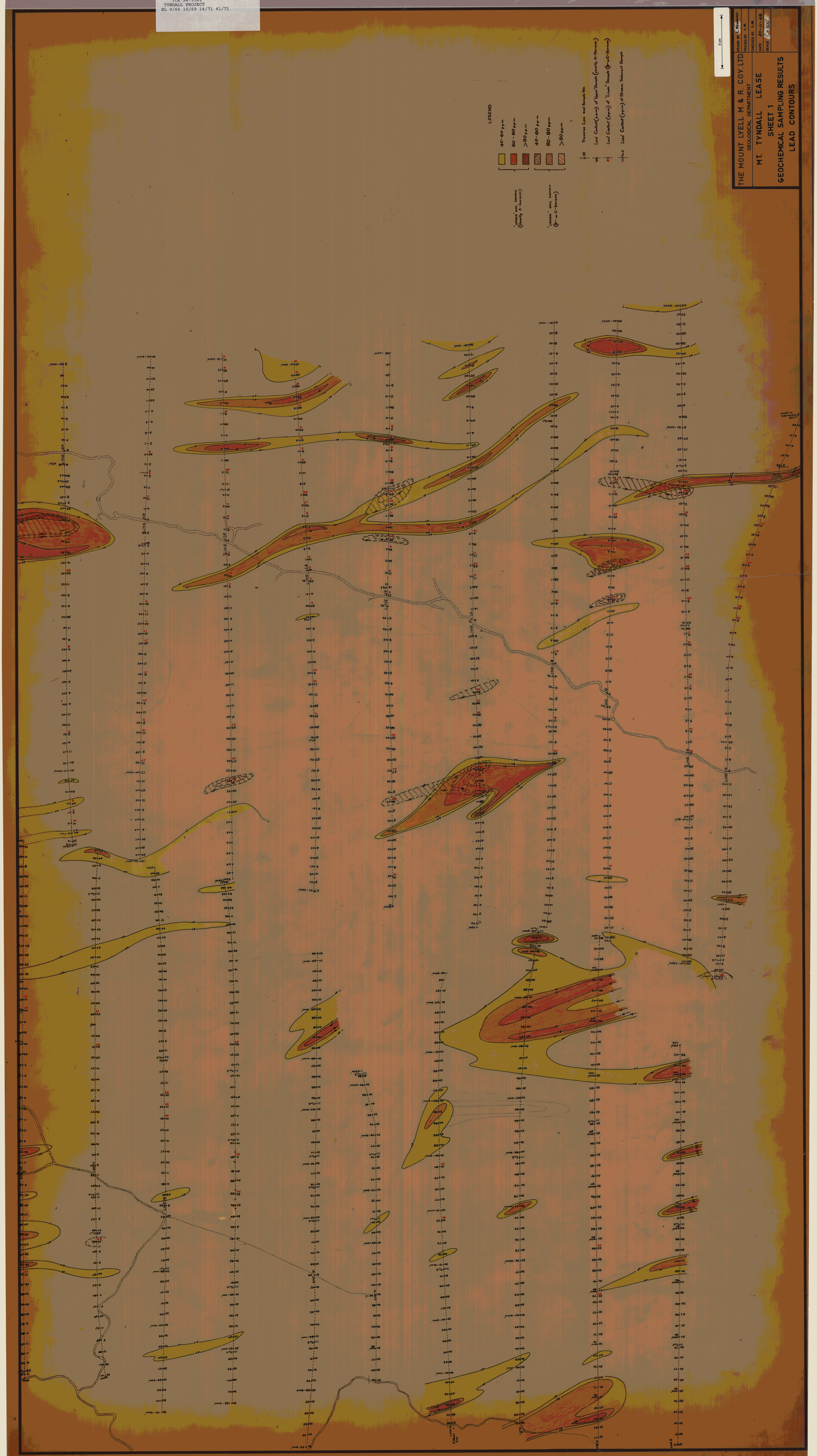
1:6000

SHEET 1

GEOCHEMISTRY (SOILS) Pb.

1/302

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



1:6000

SHEET 1

GEOCHEMISTRY (SOILS) Zn

1/303

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 1
SOIL SAMPLING RESULTS
ZINC CONTOURS

Drawn by: L. Robinson
Checked by: R.K.
Date: 8/11/68
Scale: 1" = 200'

LEGEND

40-60 p.p.m.
60-80 p.p.m.
>80 p.p.m.
"Top" soil sample (Sample A-Horizon)

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

Traverse Line and Sample no.

Zinc Contour (p.p.m.) of "Top" Sample (usually A-Horizon)

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

Zinc Content of Drawn Sectional Sample.