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Received				1 DEC 1982
Answered				B & T
DEPT. OF MINES				
REF. No. 10,075/82				

PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: PROGRESS REPORT ON CHESTER - PINNACLES

EL 5/63 PART 4

OPEN FILE

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES: 1:250 000 Burnie sheet SK 55-03

COMMODITY/IES: Cu, Pb, Zn, Ag, Au

TEXT PAGES NO: 4

PLAN NOS: See List of Plans

TABLE NOS:

APPENDICES:

AUTHOR/S: B E Anderson

26 November 1982

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

83-1903
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PROGRESS REPORT ON EL 5/63 PART 4CHESTER - PINNACLESINTRODUCTION

Work carried out over EL 5/63 Part 4 has comprised two phases. The initial phase was concentrated in the area extending east of the Emu Bay Railway Line; with the second phase west of the Railway Line in the Chester - Pinnacles area although most work carried out has been concentrated around East Chester.

1. PHASE ONE

Most of the work in the area east of the railway was carried out during late February-March 1982 but was very restrictive since much of the surface is blanketed by relatively thick glacial debris.

Work Completed

A total 18.902 km of road and track traverses were tape and compass surveyed, and geologically mapped where outcrop occurred. Included are 11 km along the Bastyan Dam Road west from the Murchison Highway; 2.5 km of the Murchison Highway itself plus Sinners Track (1.9 km), Pot Belly Road (2.63 km), and Boyang Road (0.87 KM). See attached map for locations.

A total 7.685 km of stream survey, geochemical stream sediment sampling and geological mapping was also completed, including 3.2 km on Farm Creek downstream from the Murchison Highway Bridge; 3.120 km on Unreasonable Creek upstream from its junction with Farm Creek; plus Little Creek (600m), Midgit Creek (615m) and Mary's Creek (150m). 74 Stream sediment samples were collected, but assays indicate minimal geochemical response from all localities. Pb geochemistry for example indicated a maximum assay of 126 ppm but this can be discredited due to contamination since the sampled point was situated close to the Murchison Highway. Pb averaged 7 ppm, while Cu and Zn were similarly low in value, although these results are probably in part a function of the thick glacial over burden which occurs in most areas.

Both geological observations and geochemical results have been transferred onto 1:5 000 base plans.

2. SECOND PHASE

Chester - Pinnacles

A winter work programme - mid June to present, was designed to enable both a current work schedule, combined with a correlation of all previous data collected from the various projects which have been carried out over the years, in an effort to establish a compilation of information for the whole of the Chester - Pinnacles EL. However, due to other commitments the staff has not been available to complete this work and the compilation is still unavailable, although certain aspects of the current programme have gone ahead as planned in the East Chester area.

Work Completed

1. ECE Extension Grid

The EAB grid has been extended 1 km to the north east, parallel to the existing grid with a 50° tie line, cutting across the old original East Chester grid. Six new lines have been cut, totalling 10.310 line km at 200m line spacing, with the exception of L0100E cut at 100m spacing.

The grid has been tape and compass surveyed, auger sampled to the C horizon and geologically mapped, although outcrop is very scarce. Where glacial debris is not present the augered samples have formed a valuable mapping tool.

A total 453 soil samples were collected at 20 metre intervals over the entire grid. Assay results of the sampling are very encouraging, particularly Pb values which range up to 1700 ppm. Based on cumulative frequency graphs Pb is anomalous above 74 ppm and highly anomalous above 371 ppm.

A⁰ soil sampling has indicated a strong Cu; Pb Zn geochemical anomaly centered over line 3550 S between 1700-1800m close to the East Chester Access Road. Four intermediate lines averaging 550m are currently being cut with 100m line spacing from 3750 S to 2950 s, all of which will be soil sampled to C horizon and geologically mapped. An IP survey over the grid may also be undertaken.

4. The current programme is working toward drill proposals in the near future. At present highest priority is being given to the Bermuda Triangle, followed by the geochemically anomalous portion of the ECE grid, then the EAB grids anomalous IP. Data is still being collected with no firm proposals available at present.

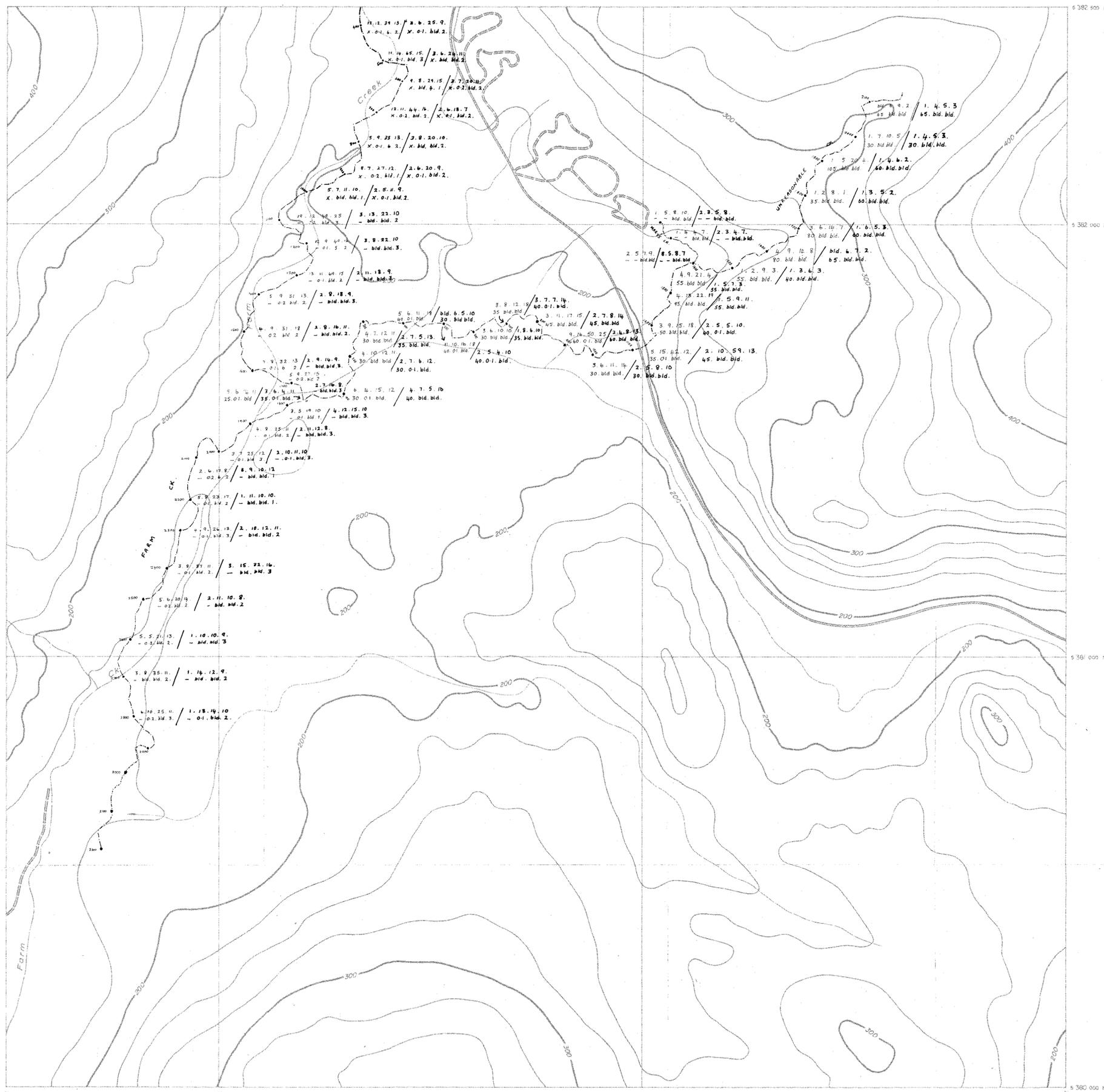
B E Anderson
for

B E ANDERSON

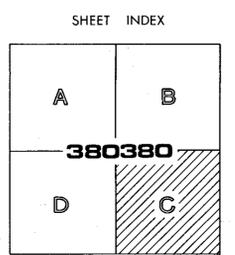
L I S T O F P L A N S

<u>Plan</u>	<u>Description</u>	<u>Page</u>
TAS/2/2958	Geochemical Stream Sampling Results. EL 5/63 Part 3 - incorporates part of EL 5/63 Part 4 with -80# and -20# Cu, Pb, Zn, Ni, Ba, Ag, Sn, As	1:5 000
TAS/2/2959	Geochemical Stream Sampling Results EL 5/63 Part 4. -80# and -20# Cu, Pb, Zn, Ni, Ba, Ag, Sn, As	1:5 000
TAS/2/1091	Geology - Field Observations 380 380 B Phase 1	1:5 000
TAS/2/1092	Geology - Field Observations 380 380 C Phase 1	1:5 000
TAS/2/1093	Geology - Field Observations 380 380 D Phase 1	1:5 000
TAS/2/1052	Geology - Field Observations 375 880 C Phase 1	1:5 000
TAS/2/1047	Geology - Field Observations 375 375 B Phase 1	1:5 000
TAS/2/1416A	Geochemical C horizon soil sampling ECE Extension Grid - Pb	1:5 000
TAS/2/1416B	Geochemical C horizon soil sampling ECE Extension Grid - Zn	1:5 000
TAS/2/1416C	Geochemical C horizon soil sampling ECE Extension Grid - Cu	1:5 000
TAS/2/1416D	Geochemical C horizon soil sampling ECE Extension Grid - Mn	1:5 000
TAS/2/1698	Geological Interpretation East Chester - EAB grid	1:5 000

TAS/2/2428	East Chester Grid - EAB Contoured Chargeability Plan of N=2. Showing distinctive anomalies	1:5 000
TAS/2/2292	East Chester Grid - EAB Line 2540S Section of Geophysical Details	1:5 000
TAS /2/2293	East Chester Grid - EAB Line 2750S Section of Geophysical results	1:5 000
TAS/2/2289	East Chester Grid - EAB Line 1930S Section of Geophysical results	1:5 000



Sample Screen Size: -80[#], -20[#]
 Cu. Pb. Zn. Ni
 Ba. Ag. Sn. As. x = no result.



SCALE 1:5000
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 Contour Interval 25 Metres

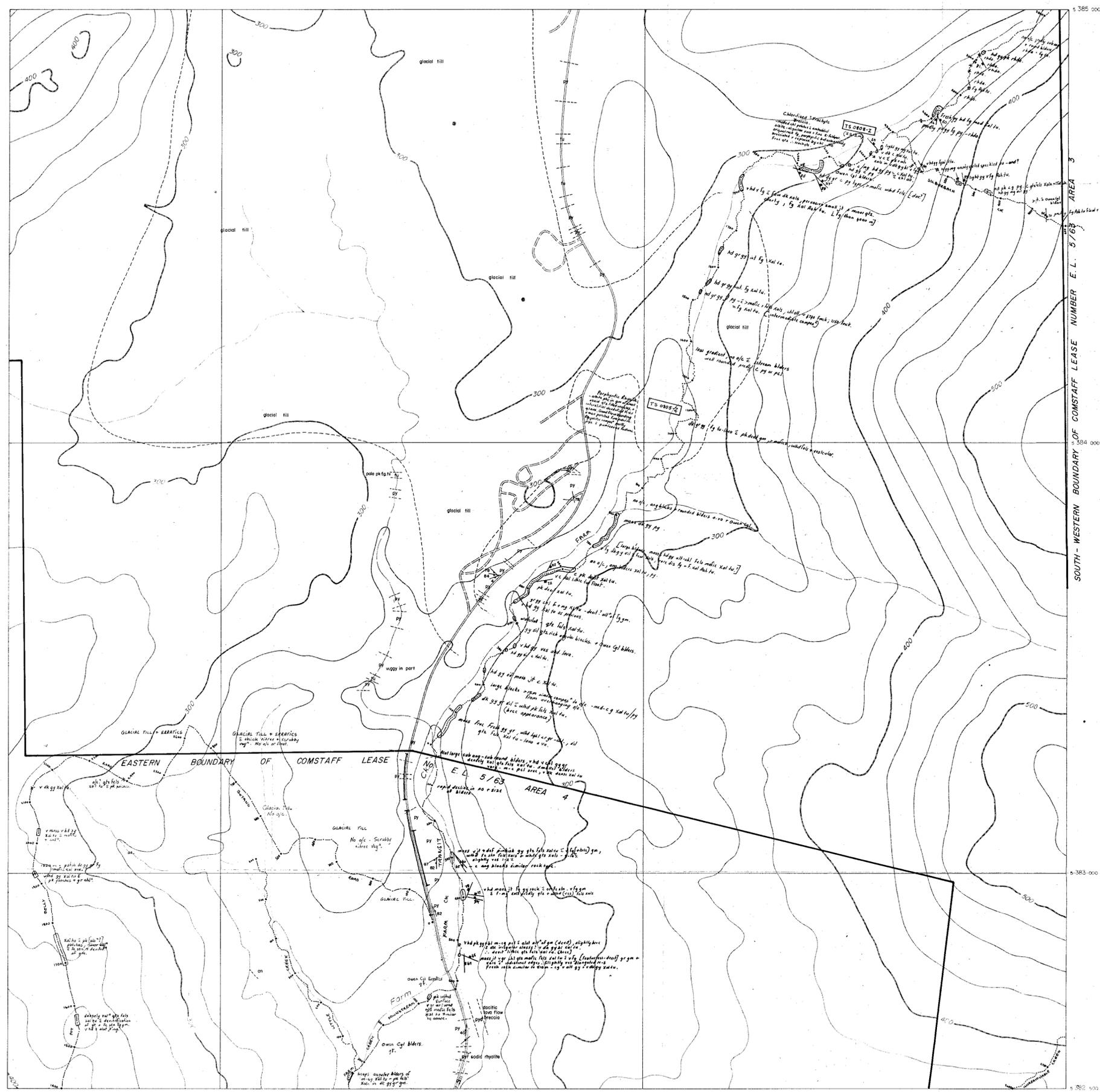
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AUSTRALIAN ANGLo AMERICAN LIMITED

EAST CHESTER EL 5/63 SECTION 4.
 STREAM SEDIMENT SAMPLING RESULTS in Ppm.
 : Cu. Pb. Zn. Ni. Ba. Ag. Sn. As.

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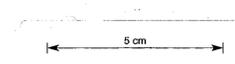
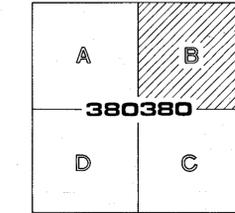


LEGEND FOR GEOLOGICAL SERIES

or	Argillite	pyr	Rhyolitic porphyry & minor acid intrusives
sh	Shale	pyd	Dacitic porphyry & minor acid intrusives
md,sl	Mudstone, slate	an	Andesite
ss	Siltstone	bs	Basalt
ch	Sandstone, quartzite, chert	g	Granite
cg	Conglomerate	do	Dolerite
gw	Greywacke	gb	Gabbro
gw,og	Greywacke conglomerate	px	Pyroxenite
dl	Dolomite	sp	Serpentine
ls	Limestone	um	Undifferentiated ultramafics
ph	Phyllite	tu	Tuffs
sc	Schist	ag	Agglomerate
ge	Gneiss	gs	Gossan
ho,am	Hornfels, Amphibolite		

Geological boundary		Mineralisation	
Unconformity	Asb	Asbestos	
Anticline showing direction of plunge	Az	Azurite	
Syncline showing direction of plunge	By	Barytes	
Plunge of minor anticline	Cc	Chalcoite	
Plunge of minor syncline	Ch	Chalcoprite	
Overtured anticline	Fl	Fluorspar	
Overtured syncline	G	Galena	
Fault, showing hade	MI	Malachite	
Shear zone	Mt	Magnetite	
Strike and dip of bedding	Py	Pyrite	
Strike of vertical bedding	Sp	Sphalerite	
Location of horizontal bedding	Sr	Sericite	
Overtured bedding	St	Siderite	
Generalised strike & dip undulating strata			
Strike and dip of jointing			
Strike of vertical jointing	Ag	Silver	
Location of horizontal jointing	As	Arsenic	
Strike and dip of foliation	Au	Gold	
Strike of vertical foliation	Ba	Barium	
Location of horizontal foliation	Cd	Cadmium	
Strike and dip of cleavage	Cu	Copper	
Strike of vertical cleavage	Hg	Mercury	
Location of horizontal cleavage	Mn	Manganese	
Mineral occurrence - minor	Mo	Molybdenum	
Major mineral occurrence with mine	Ni	Nickel	
Mine shaft - operating, disused	Os	Osmiridium	
Mine tunnel portal	Pb	Lead	
Costean, pit or trench	Sb	Antimony	
Trigonometrical station	Sn	Tin	
Road/track	W	Tungsten	
Railway - used/disused/or formation	Zn	Zinc	
Peg location			
Drillhole location			
Building			
Dam or lake			
Drainage			
Topographic contour line			
Fence			
Sample point			
Quarry/dump			

SHEET INDEX



SCALE 1:5000

Contour Interval 25 Metres

Drawn by Kemp Drafting from material supplied by Australian Anglo American Limited.

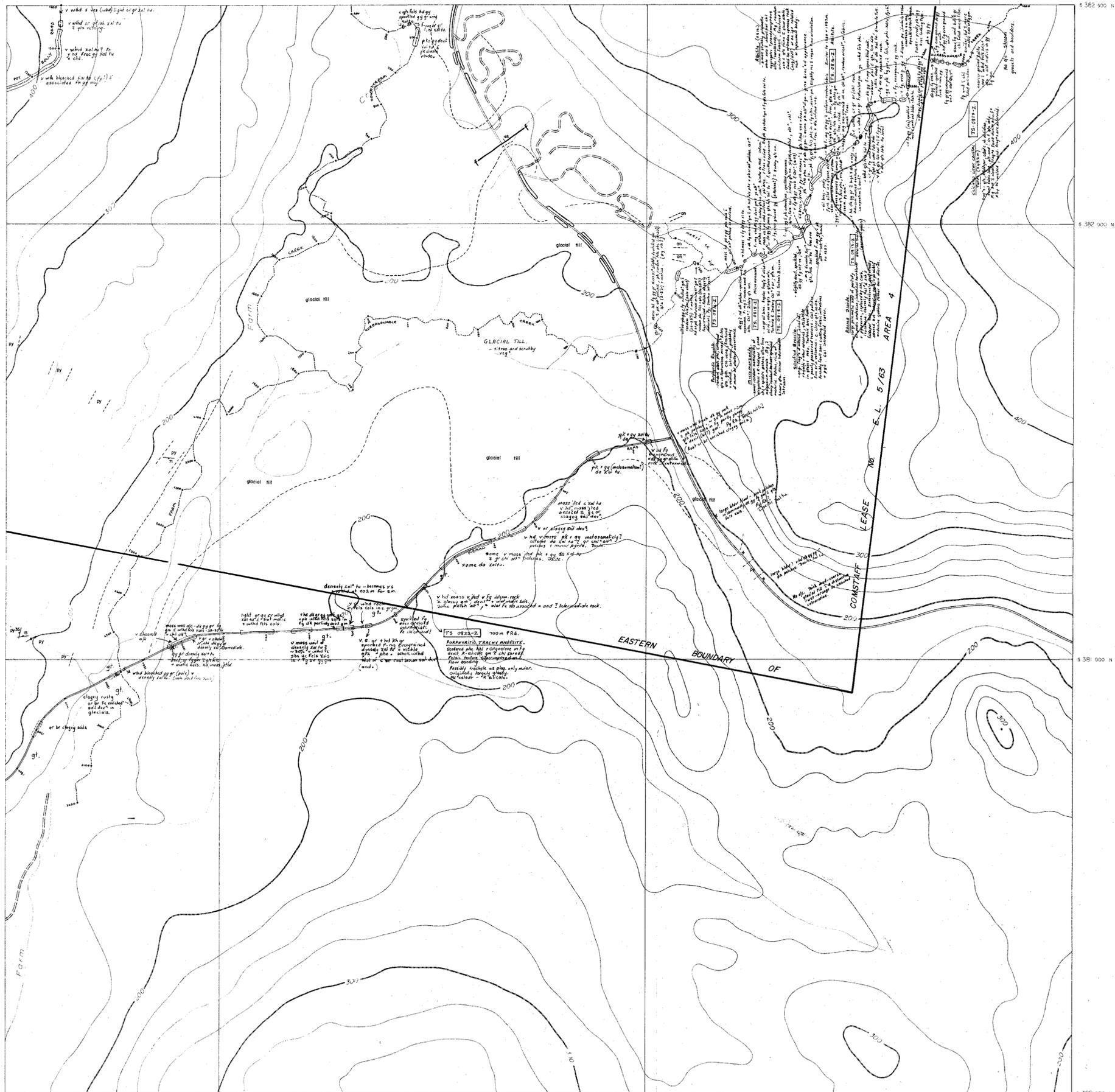
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GEOLOGY

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COMPILED	SEPTEMBER 1977
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TAS/2/1091	

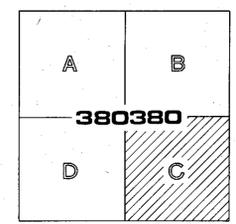


LEGEND FOR GEOLOGICAL SERIES

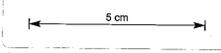
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sh	Shale	pyd	Dacitic porphyry & minor acid intrusives
md,sl	Mudstone, slate	an	Andesite
ss	Siltstone	bs	Basalt
sq,qtz	Sandstone, quartzite, chert	g	Granite
cg	Conglomerate	do	Dolerite
gw	Greywacke	gb	Gabbro
gw,ca	Greywacke conglomerate	px	Pyroxenite
dl	Dolomite	sp	Serpentine
ls	Limestone	um	Undifferentiated ultramafics
ph	Phyllite	tu	Tuffs
sc	Schist	ag	Agglomerate
ge	Gneiss	gs	Gossan
ha,am	Hornfels, Amphibolite		

	Geological boundary		Mineralisation
	Unconformity	Asb	Asbestos
	Anticline showing direction of plunge	Az	Azurite
	Syncline showing direction of plunge	By	Barytes
	Plunge of minor anticline	Cc	Chalcoite
	Plunge of minor syncline	Ch	Chalcopyrite
	Overturned anticline	Fl	Fluorspar
	Overturned syncline	G	Gatena
	Fault, showing hade	Ml	Malachite
	Shear zone	Mt	Magnetite
	Strike and dip of bedding	Py	Pyrite
	Strike of vertical bedding	Sp	Sphalerite
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	Overturned bedding	St	Siderite
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	Trigonometrical station	Sn	Tin
	Road/track	W	Tungsten
	Railway - used/disused/or formation	Zn	Zinc
	Peg location		
	Drillhole location		
	Building		
	Dam or lake		
	Drainage		
	Topographic contour line		
	Fence		
	Sample point		
	Quarry/dump		

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Contour Interval 25 Metres

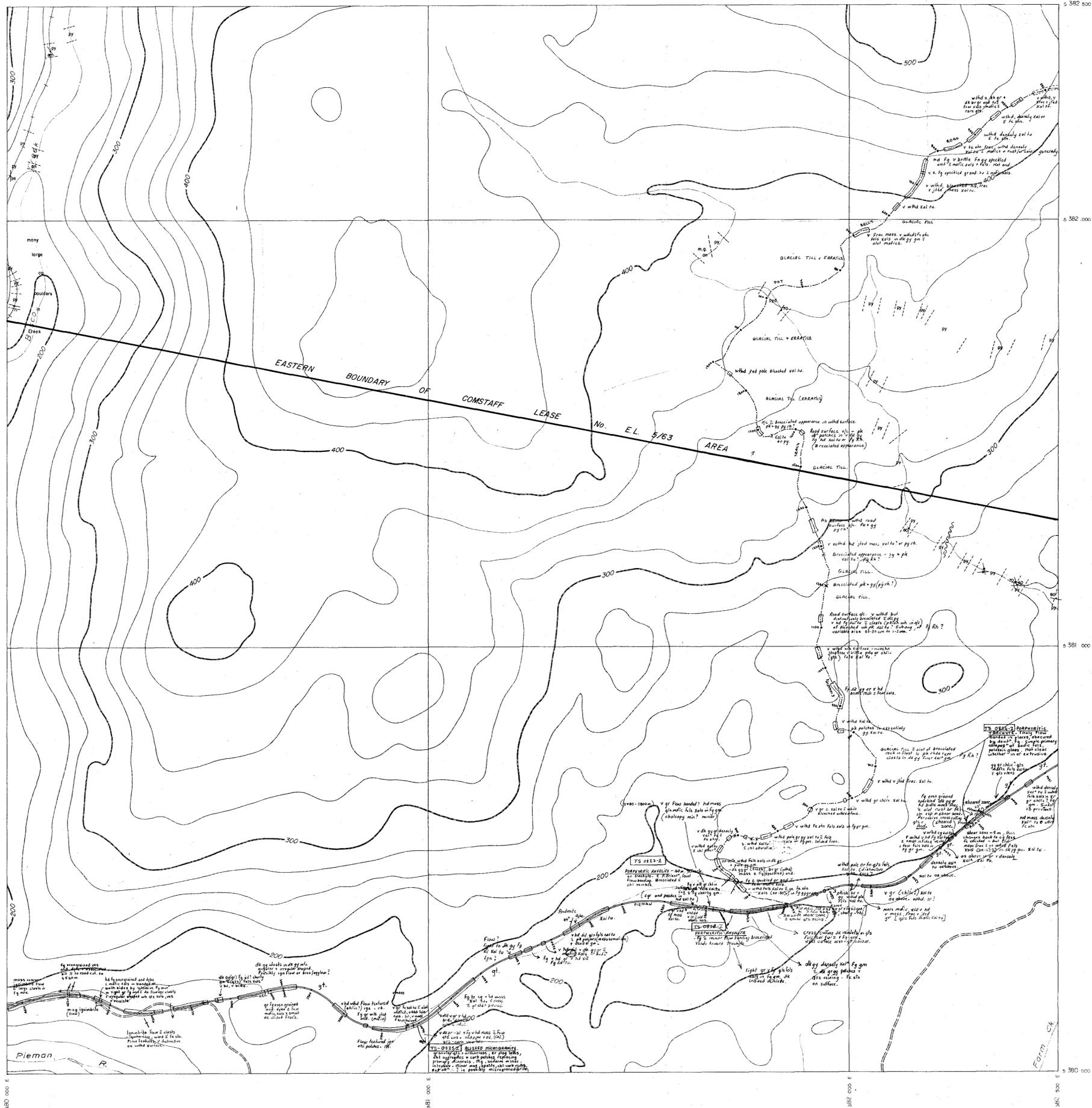
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380380-C

GEOLOGY

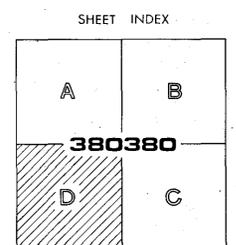
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TAS/2/1092	



LEGEND FOR GEOLOGICAL SERIES

ar	Argillite	pyr	Rhyolite porphyry & minor acid intrusives
sh	Shale	pyd	Dacitic porphyry & minor acid intrusives
md,sl	Mudstone, slate	an	Andesite
ss	Siltstone	bs	Basalt
sq, ch	Sandstone, quartzite, chert	g	Granite
cg	Conglomerate	do	Dolerite
gw	Greywacke	gb	Gabbro
gw, cg	Greywacke conglomerate	px	Pyroxenite
dl	Dalomite	sp	Serpentinite
ls	Limestone	um	Undifferentiated ultramafics
ph	Phyllite	tu	Tuffs
sc	Schist	ag	Agglomerate
ge	Gneiss	gs	Gossan
hq, am	Hornfels, Amphibolite		

Geological boundary		Mineralisation	
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	Strike of vertical jointing	Ag	Silver
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	Strike of vertical foliation	Ba	Barium
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	Casteam, pit or trench	Sb	Antimony
	Trigonometric station	Sn	Tin
	Road/track	W	Tungsten
	Railway - used/disused/for formation	Zn	Zinc
	Peg location		
	Drillhole location		
	Building		
	Dam or lake		
	Drainage		
	Topographic contour line		
	Fence		
	Sample point		
	Quarry/dump		



SCALE 1:5000

Contour Interval 25 Metres

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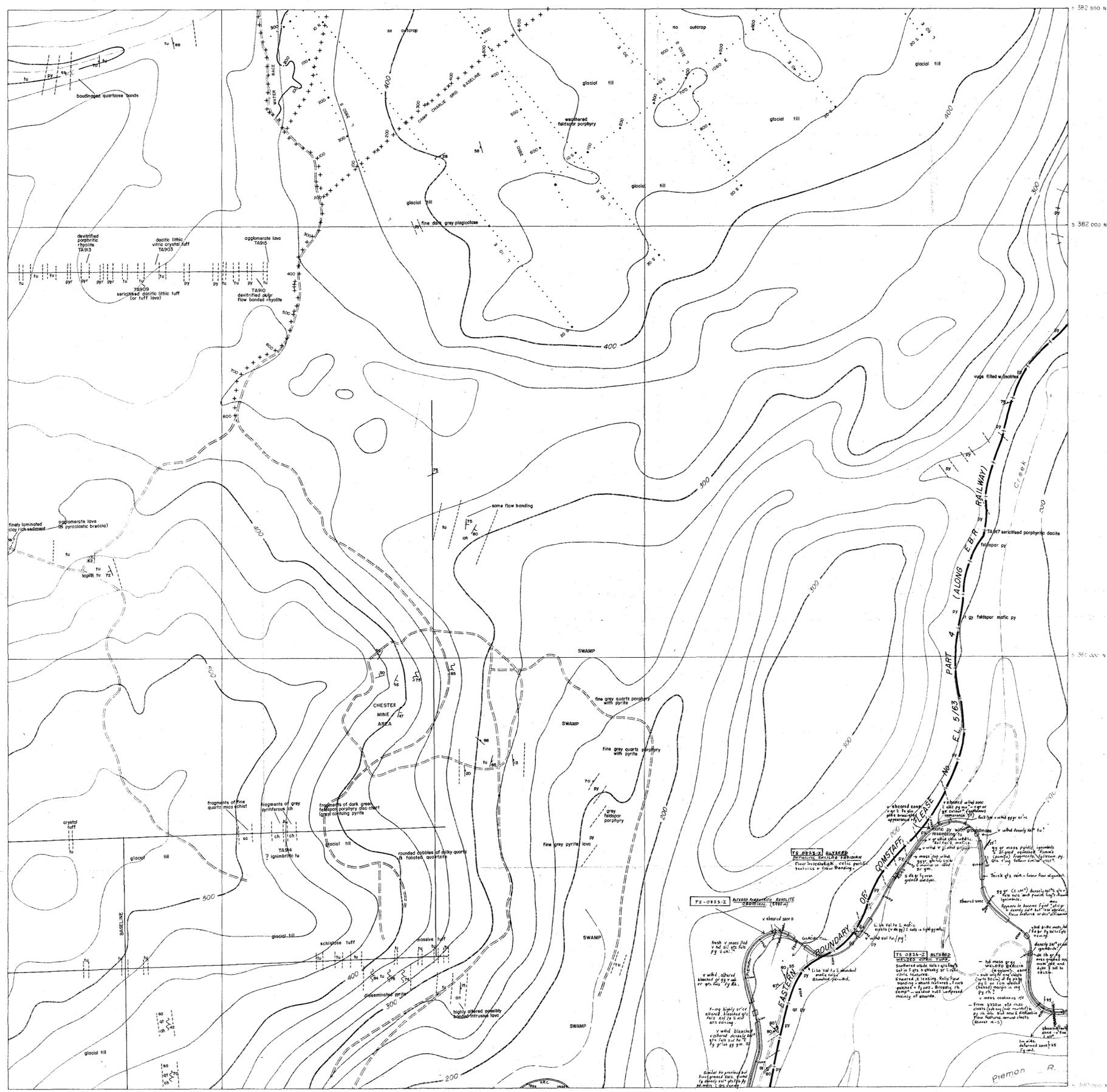
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380380-D

GEOLOGY

643012

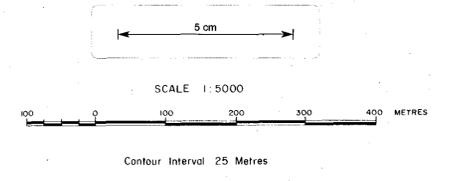
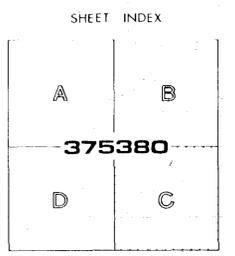
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TAS/2/1093	



LEGEND FOR GEOLOGICAL SERIES

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sh	Shale	pyd	Dacitic porphyry & minor acid intrusives
md,sl	Mudstone, slate	an	Andesite
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ham	Hornfels, Amphibolite		

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	Building		
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	Topographic contour line		
	Fence		
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	Quarry/dump		



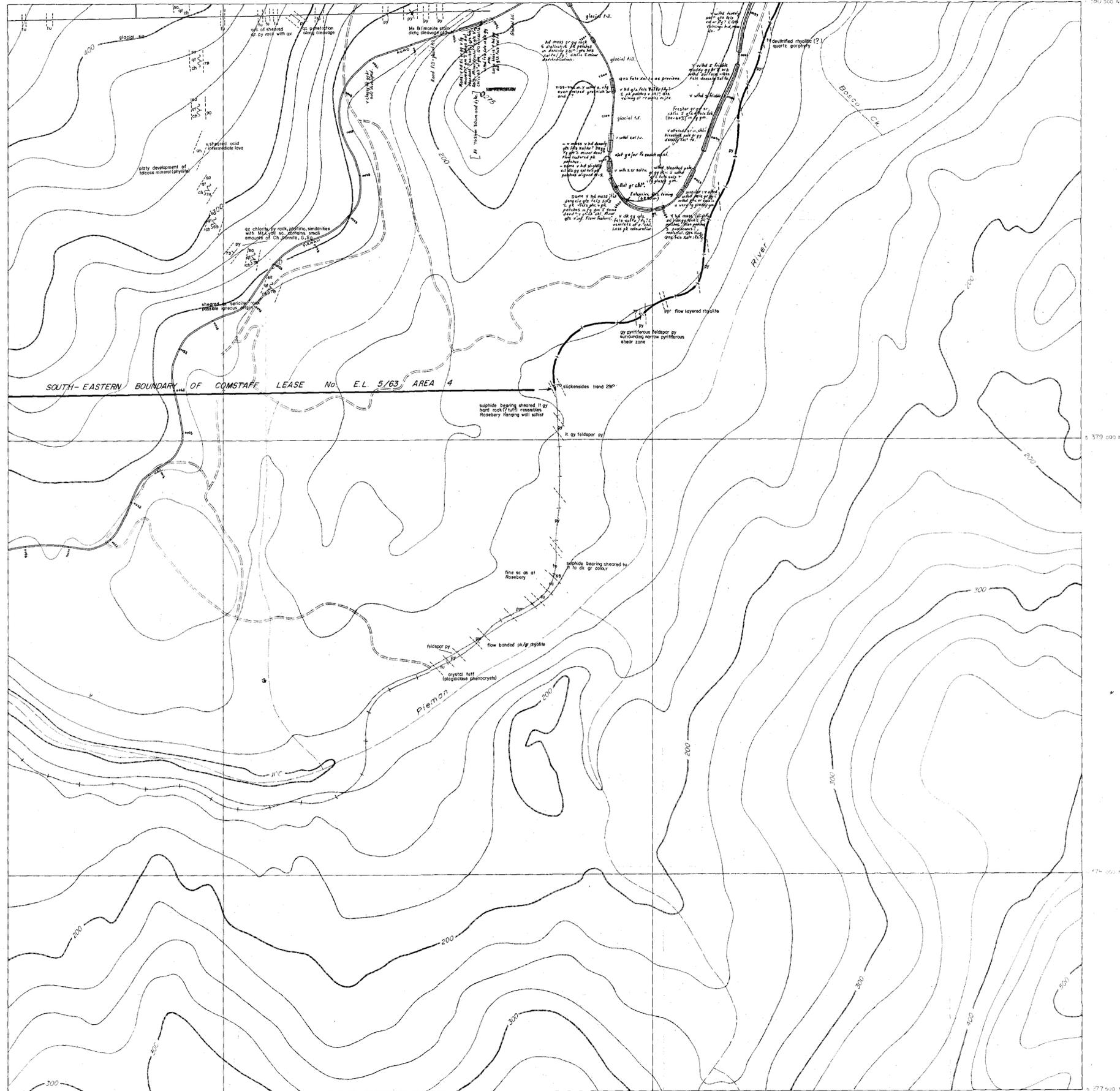
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375380-C
GEOLOGY

643013

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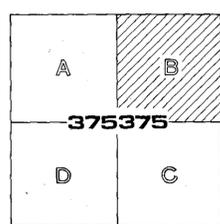


LEGEND FOR GEOLOGICAL SERIES

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cg	Conglomerate	do	Dolerite
gw	Greywacke	gb	Gabbro
gw,cg	Greywacke conglomerate	px	Pyroxenite
di	Dolomite	sp	Serpentine
ls	Limestone	um	Undifferentiated ultramafics
ph	Phyllite	tu	Tuffs
sc	Schist	ag	Agglomerate
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ha,am	Hornfels, Amphibolite		

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	Casteen, pit or trench	Sb	Antimony
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	Road/track	W	Tungsten
	Railway - used/disused (or formation)	Zn	Zinc
	Peg location		
	Drillhole location		
	Building		
	Dam or lake		
	Drainage		
	Topographic contour line		
	Fence		
	Sample point		
	Quarry/dump		

SHEET - INDEX



SCALE 1:5000

Contour Interval 25 Metres

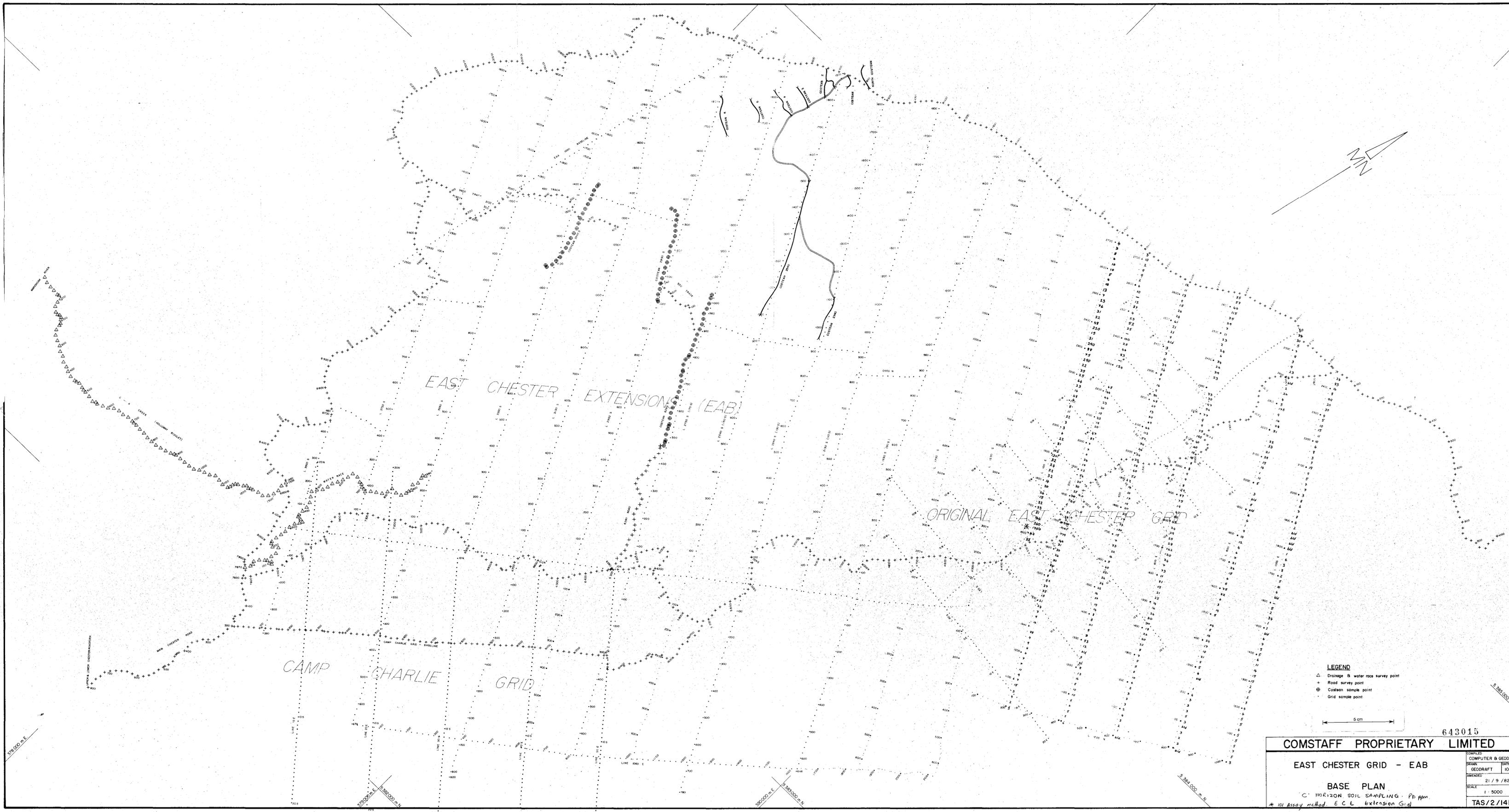
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375375-B
GEOLOGY

643014

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COMPILED	B.C.A.
SCALE	1:5000
TAS/2/1047	



- LEGEND**
- △ Drainage & water race survey point
 - + Road survey point
 - ⊕ Custom sample point
 - Grid sample point

5 cm

643015

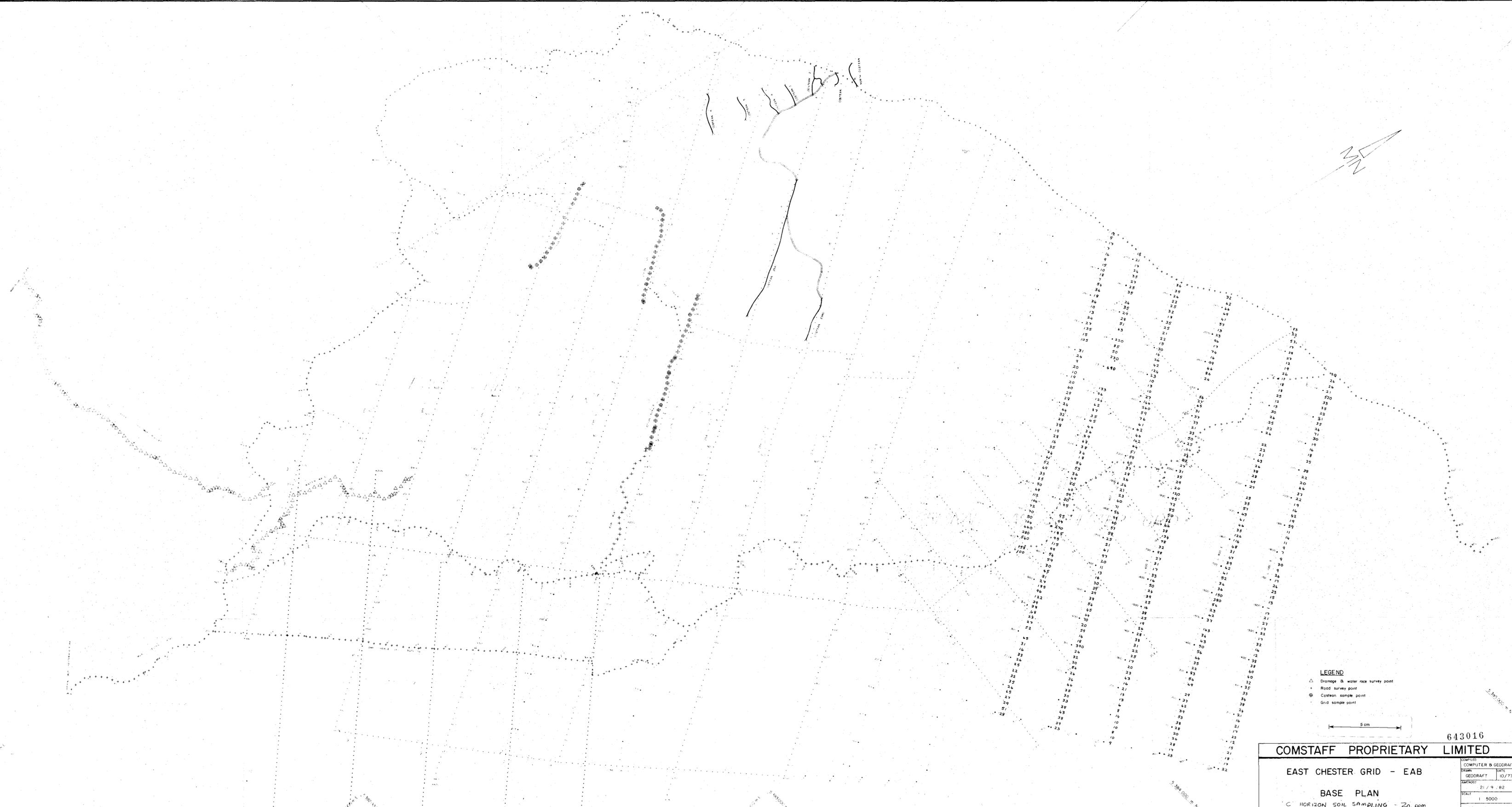
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EAST CHESTER GRID - EAB

BASE PLAN

C' HORIZON SOIL SAMPLING - Pb ppm
* 101 Assay method. E C E Extension Grid

COMPILED	DATE
DRAWN	DATE
CHECKED	DATE
SCALE	DATE
TAS/2/1416A	10/77



LEGEND
 △ Drainage B water race survey point
 + Road survey point
 ⊕ Casteon sample point
 ○ Grid sample point

5 cm

643016

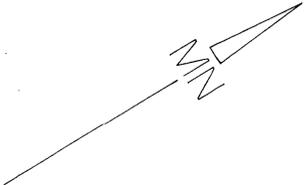
COMSTAFF PROPRIETARY LIMITED

EAST CHESTER GRID - EAB

BASE PLAN

C HORIZON SOIL SAMPLING - 2m ppm
 E C E extension grid

COMPILED	DATE
COMPUTER & GEODRAFT	10/77
DRAWN	21/9/82
SCALE	1:5000
TAS/2/14168	

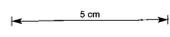


EAST CHESTER EXTENSION (EAB)

ORIGINAL EAST CHESTER GRID

CAMP CHARLIE GRID

- LEGEND**
- △ Drainage & water race survey point
 - + Road survey point
 - ⊕ Costean sample point
 - Grid sample point



643017

COMSTAFF PROPRIETARY LIMITED

EAST CHESTER GRID - EAB

BASE PLAN

C HORIZON SOIL SAMPLING - Cu ppm
E C E Extension Grid

COMPILED	COMPUTER & DRAFT
DRAWN	DATE
GEODRAFT	10/77
AMENDED	21/9/82
SCALE	1:5000
TAS/2/1416C	

538 920 m E

573 526 m E 2 386 000 m N

580 020 m E 2 386 000 m N

5 384 000 m N

5 384 000 m N

157

LEGEND

- Drainage & water race survey point
- Road survey point
- Casteen sample point
- Grid sample point

643018

COMSTAFF PROPRIETARY LIMITED

EAST CHESTER GRID - EAB

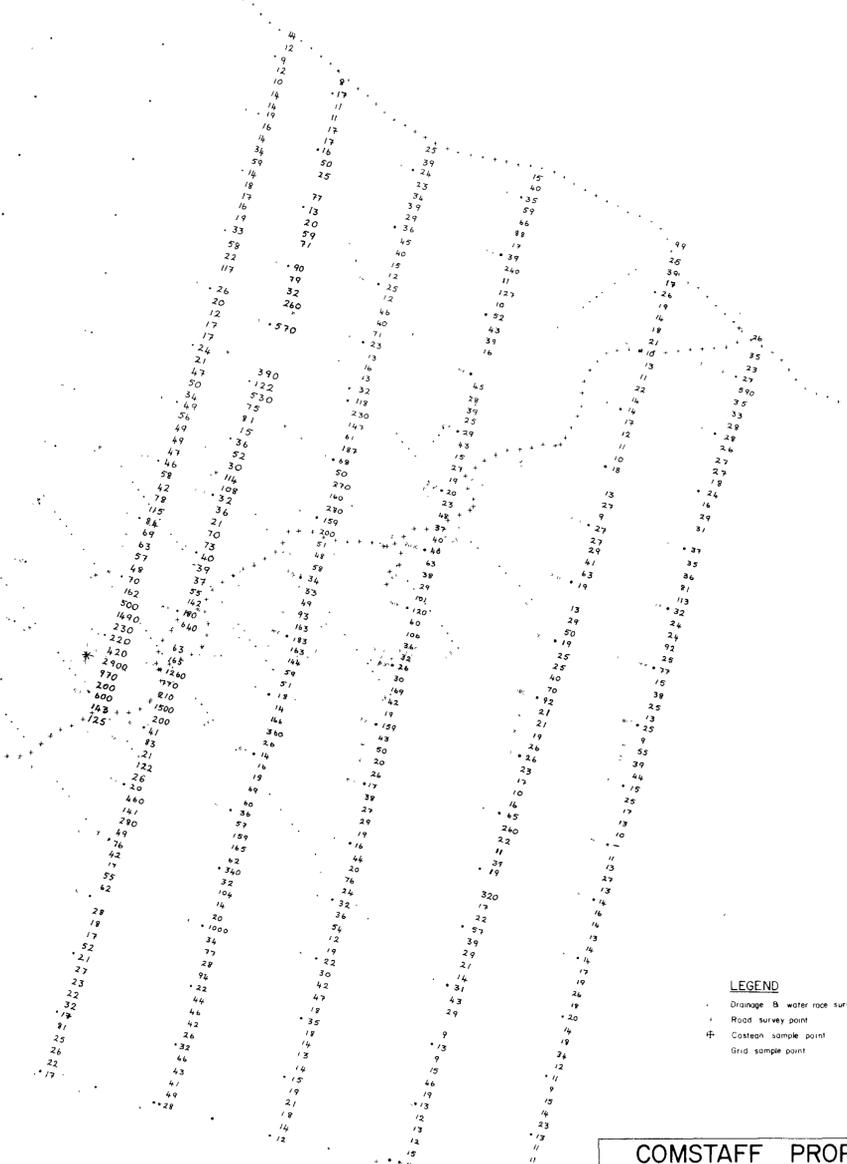
BASE PLAN

C' HORIZON SOIL SAMPLING - Mn ppm

* 101 Assay method

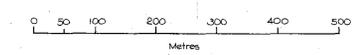
E.C.E. Extension Grid

DATE:	COMPUTER & DRAWN:
DRAWN:	DATE:
GEODRAFT:	DATE:
DATE:	DATE:
SCALE:	SCALE:
1:5000	1:5000
TAS/2/1416D	





- Ch/bed Cherty sediments or silicified rocks
- Sh Black grey shales, interbedded arenaceous units
- Qz/Pg Quartz, feldspar porphyry extrusive ?
- A/tu Tuffs: acid, crystal, lithic, lapilli (altered)
- An Andesite: vesicular, flow textured, tuffaceous
- An/tu Andesite tuff: chertitic, pyritic
- Tu Tuff: water-lain, bedded, interbedded siliceous sandy units
- Rh Rhyolite: flow textured, vesicular ?
- Avo Sub-aerial acid volcanics: flow banded, brecciated, ashfall tuffs, trachyandesites, ignimbrites ? fiamme
- Pt Coarse pyroclastic, volcanic breccia
- Geological boundary
- F Fault, fault inferred
- Glacial cover
- Coastal



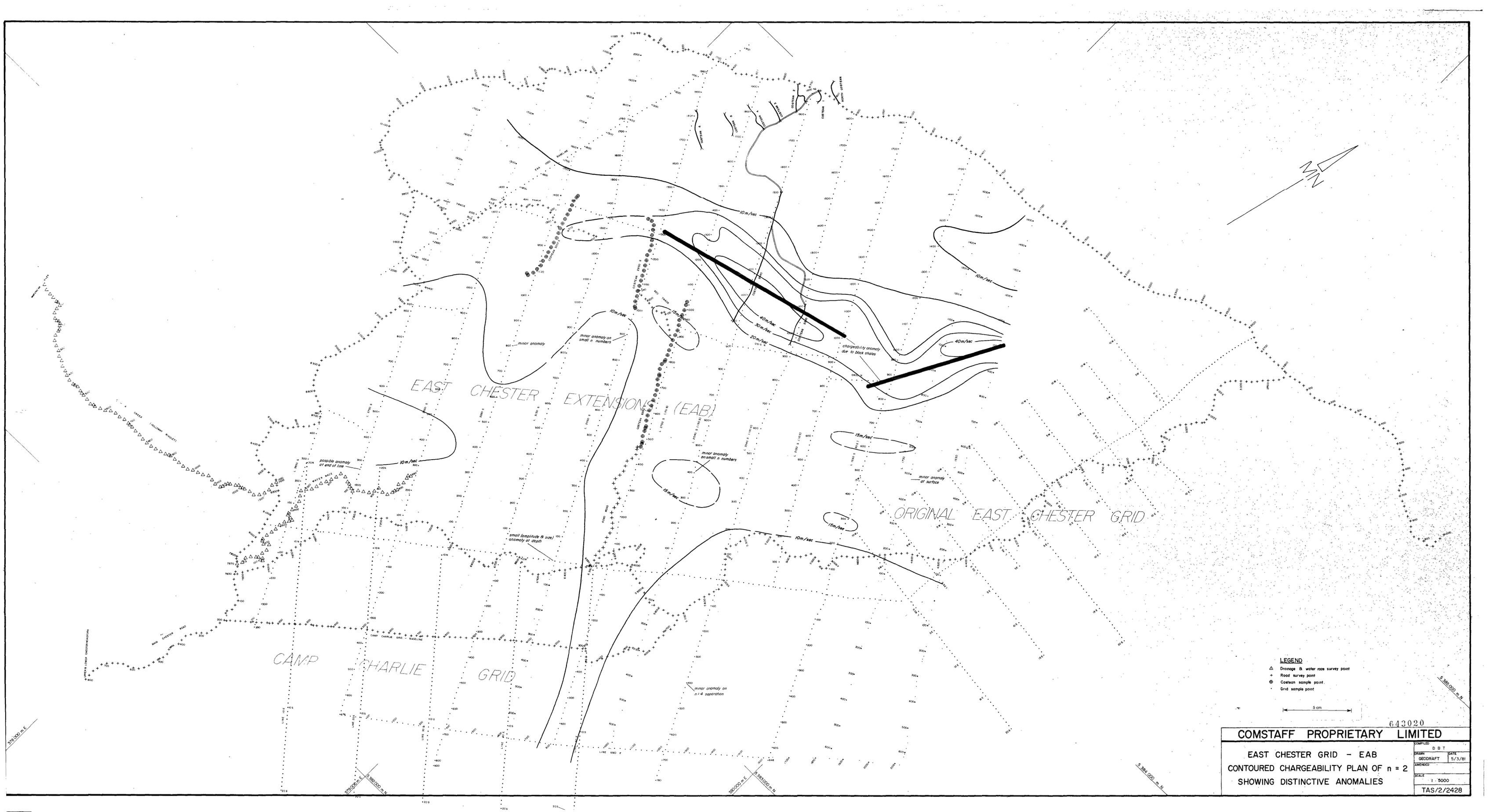
643019

COMSTAFF PROPRIETARY LIMITED

EAST CHESTER - EAB

GEOLOGICAL INTERPRETATION

DRAWN	C.B.
COMPLETED	D.B.H.
DATE	Jan 78
SCALE	1:5000
TAS/2/1698	



- LEGEND**
- △ Drainage & water race survey point
 - + Road survey point
 - ⊕ Costean sample point
 - Grid sample point

5 cm

643020

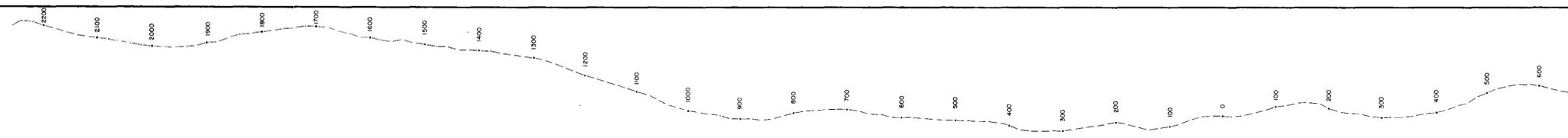
COMSTAFF PROPRIETARY LIMITED

EAST CHESTER GRID - EAB
CONTOURED CHARGEABILITY PLAN OF n = 2
SHOWING DISTINCTIVE ANOMALIES

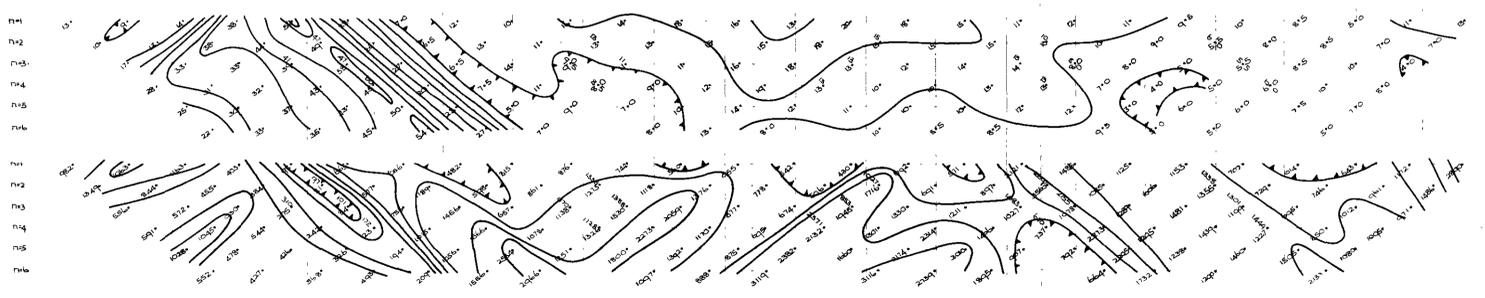
DRAWN	D B T
GEO DRAFT	DATE 5/3/81
AMENDED	SCALE 1:5000
TAS/2/2428	

W

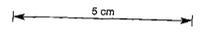
E



IP data compiled by
 Geobrex Pty Ltd
 Transmitter: Elliot SA, 15kw
 Timing: 2sec on / 2sec off
 Receiver: Sinterex IPR-7
 Integration Time: 450 msec - 1000 msec
 Dipole-dipole array
 Dipole length: 80m
 November-December 1980 HNF



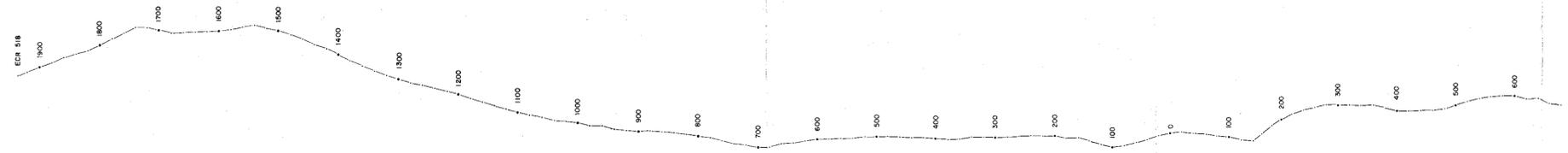
643021



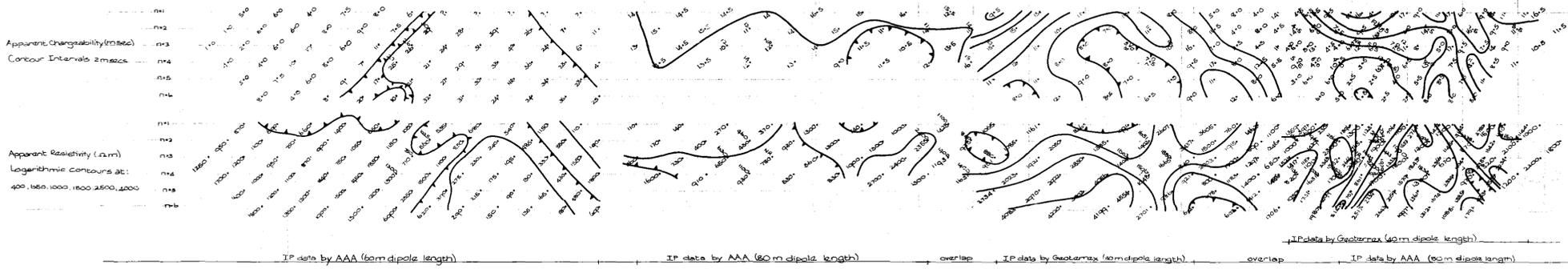
COMSTAFF PROPRIETARY LIMITED	
EAST CHESTER GRID - EAB LINE 2540 S SECTION GEOPHYSICAL DETAILS TOPO PROFILE WITH I.P., S.P., MAG., CRONE	
COMPILED GEOGRAFT	DATE 10/80
DRAWN GEOGRAFT	AMENDED
SCALE 1:5000	PLAN NO TAS/2/2292

W

E

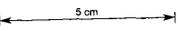


IP data by Geotomex Pty Ltd
 Transmitter: Scintrex IPC-7
 Timing 2 sec on / 2 sec off
 Receiver: Scintrex IPR-7
 Integration Time: 480 to 1100 msec
 Dipole-dipole array
 Dipole lengths: 80m x 40m
 January 1981
 :AAA
 Dipole-dipole array
 Dipole lengths: 150 x 80 m
 January 1980



IP data by AAA (80m dipole length) IP data by AAA (80m dipole length) overlap IP data by Geotomex (40m dipole length) overlap IP data by Geotomex (40m dipole length)

643022



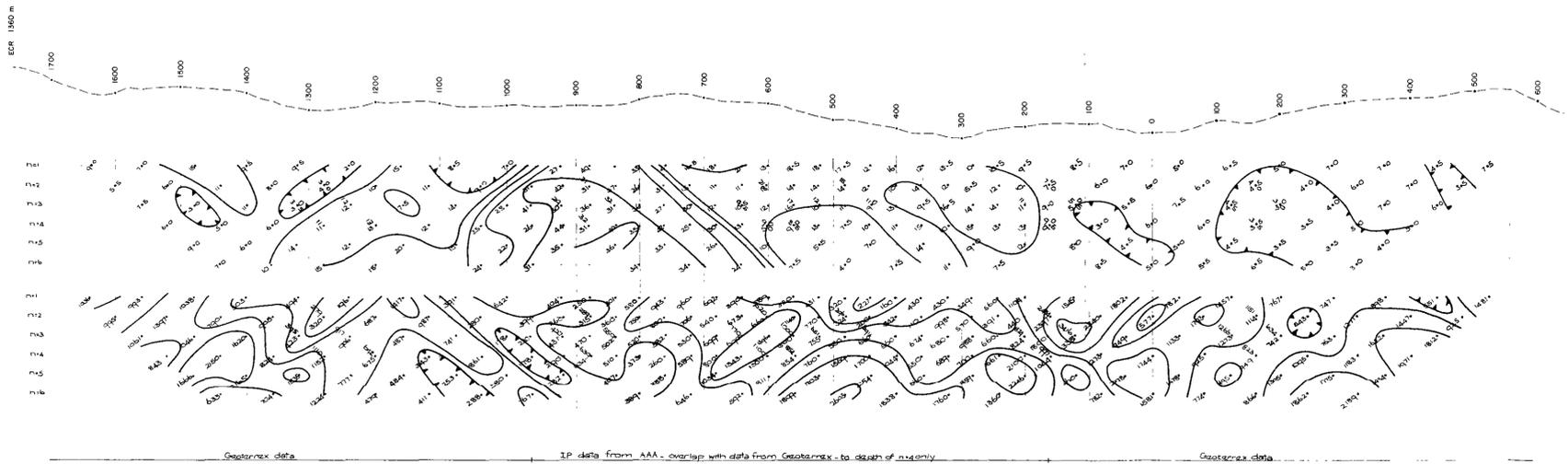
COMSTAFF PROPRIETARY LIMITED

EAST CHESTER GRID - EAB
 LINE 2750 S SECTION
 GEOPHYSICAL RESULTS
 TOPO PROFILE WITH I.P., S.P., MAG., CRONE

COMPILED	GEODRAFT
DRAWN	DATE
GEODRAFT	10/80
AMENDED	
SCALE	1 : 5000
PLAN No	TAS / 2 / 2293

W

E



IP Data compiled by
 GEOTOMEX Pty LTD Job 85-1244
 Transmitter: Elliot 10A 15KV
 Timing 2 sec on / 2 sec off
 Receiver IPR-7 (Scintrex)
 Integration Time 450-1100 msec
 November - December, 1980 HNF

Apparent Resistivity ($\Omega \cdot m$)
 Logarithmic Contours 20, 40, 100, 200, 500, 1000, 2000

Apparent Chargeability (m sec)
 5 msec contour intervals

Dipole-dipole array
 Dipole length 80 m
 Extra I.P. data from AAA, 1000
 on 80m dipole lengths

643023

COMSTAFF PROPRIETARY LIMITED	
EAST CHESTER GRID - EAB LINE 1930 S SECTION GEOPHYSICAL RESULTS TOPO PROFILE WITH I.P., S.P., MAG., CRONE	
COMPILED GEODRAFT	DATE 10/80
DRAWN GEODRAFT	AMENDED
SCALE 1 5000	PLAN NO TAS/2/2289