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999

PROJECT NAME:

COMSTAFF PTY LTD  
REPORT ON GRIDS HAB

TITLE:

AND HAC IN THE HEAZLEWOOD AREA  
FEBRUARY 1980

EL 1/68

T250  
MICROFILMED

AREA NAME/S, STATE 1: 250,000 SHEET NO/S & COORDINATES:

Tasmania

COMMODITY/IES:

Sn Cu Pb Zn Ni

TEXT PAGES NO:

5

PLAN NOS:

TAS/2/975 980 997 975 996 1974

980

TABLE NOS:

APPENDICES:

AUTHOR/S:

G F A Washausen

DATE:

22nd February 1980

OPEN FILE

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

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COMSTAFF PTY. LTD.FINAL REPORT ON GRIDS HAB AND HAC  
IN THE HEAZLEWOOD AREA - FEBRUARY 19801. WORK COMPLETED

For this report the following data are available:

1.1 Grid HAB

Geological mapping was carried out on lines  
N: 000, 200, 400, 600, 800, 1000, 1200, 1400,  
1600, 1800, 2000, 2200, 2400, 2600, 2800  
each line with  
E: 00 to 1400.

For the geochemical evaluation the results of surface  
sampling in the form of computer print overlays are  
available. Magnetometer surveying was carried out  
only on lines 200, 400, 600, 800 and 2200, 2400, 2600,  
2800N from 00 to 1400E.

1.2 Grid HAC

Geological mapping of this grid was carried out on  
lines N200, 400, 600, 800, 1000 each line with E00  
to 1200. For the geochemical interpretation the results  
of hand auger sampling of those grid lines are  
available as overlays.

1.3 Heazlewood Road

The access and grid linking road was mapped from  
km 0.00 to 12.30.

2. RESULTS

The plotted results of the investigations carried out are  
attached as copies to this report and may, if required,  
be referred to in the COMSTAFF files as originals.

3. PRELIMINARY INTERPRETATION OF THE GEOLOGICAL DATA

Because of the limited outcrop situation an interpretation  
of the geological facts has to be regarded as interpolative  
and simplified. An attempt was made to sketch out the main  
geological features which seems to reveal the following  
picture:

3.1 Grid HAB

Three distinct lithological units appear within the grid area and show the following regional distribution:

- (a) Basalts of probably tertiary age dominate in the central northern part of the grid area. There is no indication of differentiation within the basalt complex and only a few outcrops expose flowstructures within the blocky lava type material.
- (b) Sedimentary trough sequences of greywackes, mudstones, siltstones and quartzites are to be found in the W third of the grid. Those sequences are intersected by dunitic intrusives, appearing as serpentinites, microgabbros and dolerite sills. The intrusives are limited to the SW part of the area investigated.
- (c) In the central and NE parts of HAB andesitic to dacitic lavas, volcanic breccias and tuffs overlie the sediments, which are only exposed in deep valleys and creeks and which are hornfelsed and silicified in places.

3.2 Grid HAC

A distinction of two lithological units seem pertinent to the data collected.

- (a) Sedimentary trough sequences of greywackes, mudstones and quartzites appear in the E and SW parts of the gridded area. In comparison to the similar sediments found on grid HAB there is higher grade of hornfelsing and silicification on grid HAC. These indicators of contact metamorphism, are fairly widespread in the sedimentary sequences.
- (b) Andesitic lavas, tuffs and breccias overly the sedimentary sequences in the central and W parts of the grid.

...3.

### 3.3 Comparison

On both grids the occurrence of disseminated pyrite seems to be limited to the contact of overlying volcanics to the underlying sediments. Despite this fact no definite pattern of hydrothermal alteration in the vicinity could be revealed. For both grids the flow distribution of the andesitic volcanics with an almost flat lying contact to the underlying sediment sequences is to be mentioned for the S parts whilst in the N parts the topographically higher level of the andesites and their more blockey development, as well as the less weathered condition of the andesites, might be regarded as an indication of their proximity to the central volcanic pile. The higher grade of hornfelsing and the wider regional distribution of the metamorphosed sediments on grid imply an underlying intrusion, especially since the high grade of hornfelsing and silicification in its regional distribution on grid HAC is not very likely to be explained by contact metamorphism caused by volcanics.

The oxide mineralisation found associated with quartz veins in their regional distribution might be considered as a hydrothermal product of the intrusion of the serpentinites in the SW part of grid HAB, filling in some fractures. The comparison of the almost identical situation on both grids as far as the lithology is concerned did not reveal any similarity with the host rock and wall rock sequences to be found at Cleveland tin mine or Magnet mine. As in both areas a general strike direction of  $60^{\circ}$  was observed, an appearance of the Cleveland sequences is not very likely in the Heazlewood area investigated unless there was a transform fault which would bring the sequences concerned into the Heazlewood area. No evidence for such a major fault was found and a comparison with the structural photointerpretation does not imply any such feature.

### 4. PRELIMINARY COMPARISON OF GEOCHEMICAL DATA AND GEOLOGY

Geochemical data refer to  $A_0$  sampling on grid HAB and hand auger sampling on grid HAC.

For both grids the distribution of higher Cu and Zn values is congruent to the regional distribution of the andesitic materials mapped.

The highest values coincide with the contacts of volcanics and sediments and are, in respect to their lithological background, values implying no anomalies of any sort.

The distribution of Pb values does not show the same outlining pattern for the volcanic regime; however, the highest values also seem to indicate the contact areas of volcanics and underlying sediments.

The regional distribution of the higher Ni values is identical with the occurrence of serpentinites mapped on grid HAB. Sn does not show any distinctive pattern in the area. In most cases it seems to be indicating either recent alluvials in gully, creeks or probably older terraces. So far, no primary source for the Sn could be determined.

Generally the statement may be made that the values for the various elements are at maximum 10% above lithological average abundance values, thus not necessarily indicating any mineralisation at all.

#### 5. PRELIMINARY COMPARISON OF GEOPHYSICAL DATA AND GEOLOGY

The ground magnetics survey carried out so far roughly reveal the geologically affirmed lithological structures. Sediments, intrusive serpentinites and microgabbros, as well as the volcanic sequences and their contact with the underlying sediments are reasonably well represented.

For a more accurate sketch of the contact between sediments and volcanics completion of the magnetometer programme over the whole grid area would be necessary, as the outcrop situation does not allow a definite decision on the contact by means of mapping.

#### 6. RECOMMENDED FURTHER WORK

As far as field work is concerned completion of the proposed magnetometer survey is thought to be useful for establishing lithological boundaries.

7. PRELIMINARY CONCLUSIONS ON PROSPECTIVITY

As possible host rocks like andesitic breccias and tuffs are only scarcely mineralised the prospective value of this area is, according to the author's opinion, very low. As shown in paragraph 4, the regional distribution of the geochemically anomalous populations coincide with distinct lithological units and considering the average abundance of the elements concerned compared to their lithological background there is no evidence of real anomalies to be found. However, the source of the most likely alluvial tin might be worth some follow-up programme: auger sampling and more detailed mapping in the areas concerned.

GFAW.LS  
7.5.80

  
G F A Washausen  
Geologist

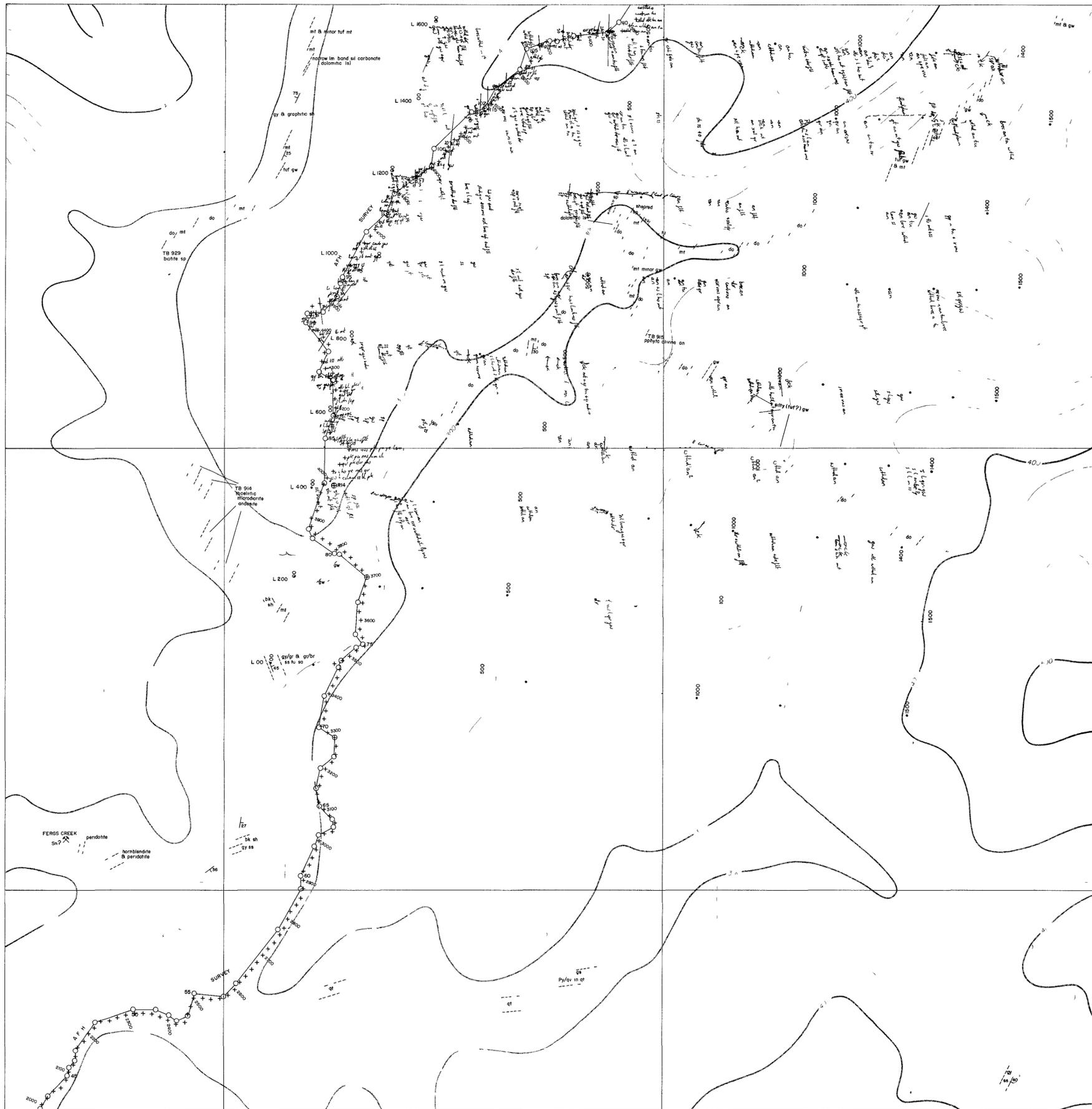
Approved by

  
R J Kernick  
Exploration Manager

007

LIST OF PLANS

TAS/2/975	360410-B	Geology fact	1:5 000
TAS/2/980	360415-C	" "	1:5 000
TAS/2/997	365415-D	" "	1:5 000
TAS/2/975	360410-B	" interpretation	1:5 000
TAS/2/980	360415-C	" "	1:5 000
TAS/2/996	365415-C	" fact	1:5 000
TAS/2/1974	HAC	Detailed Geological Plan - fact	1:2 500
TAS/2/1974	HAC	Detailed Geological Plan - interpretation	1:2 500

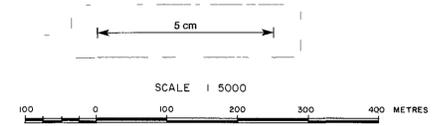
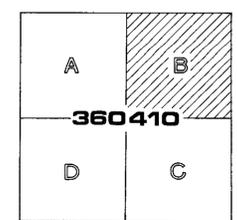


**LEGEND FOR GEOLOGICAL SERIES**

ar	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
sc	Sandstone, quartzite chert	g	Granite
cg	Conglomerate	do	Dolerite
gw	Greywacke	gb	Gabbro
gw cg	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		As <sup>b</sup> Asbestos
	Unconformity		Az Azurite
	Anticline showing direction of plunge		By Barytes
	Syncline showing direction of plunge		Cc Chalcocite
	Plunge of minor anticline		Ch Chalcopyrite
	Plunge of minor syncline		Fl Fluorspar
	Overturned anticline		G Galena
	Overturned syncline		Ml Malachite
	Fault showing hade		Mt Magnetite
	Shear zone		Py Pyrite
	Strike and dip of bedding		Sp Sphalerite
	Strike of vertical bedding		Sr Sericite
	Location of horizontal bedding		St Siderite
	Overturned bedding		
	Generalised strike & dip of undulating strata		
	Strike and dip of jointing		Ag Silver
	Location of horizontal jointing		As Arsenic
	Strike and dip of foliation		Au Gold
	Location of horizontal foliation		Ba Barium
	Strike and dip of cleavage		Cd Cadmium
	Location of horizontal cleavage		Cu Copper
	Mineral occurrence - minor		Hg Mercury
	Major mineral occurrence with mine		Mn Manganese
	Mine shaft - operating disused		Mo Molybdenum
	Mine tunnel portal		Ni Nickel
	Costean pit or trench		Os Osmiridium
	Trigonometrical station		Pb Lead
	Road/track		Sb Antimony
	Railway used/disused (or formation)		Sn Tin
	Peg location		W Tungsten
	Drillhole location		Zn Zinc
	Building		
	Dam or lake		
	Drainage		
	Topographic contour line		
	Fence		
	Sample point		
	Quarry/dump		

**SHEET INDEX**



085009

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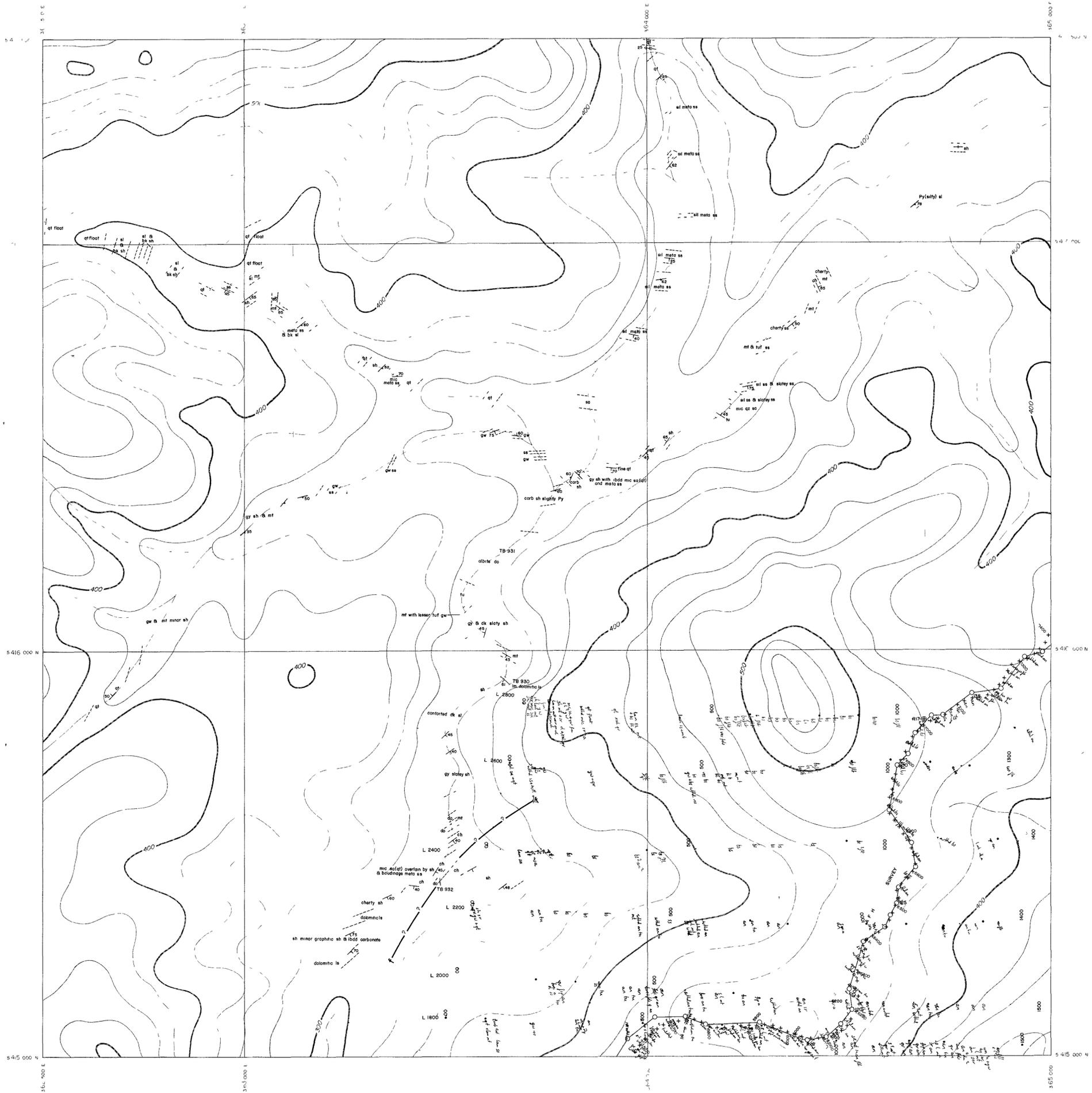
80-1438

**COMSTAFF PROPRIETARY LIMITED**

360410 - B  
GEOLOGY (FACT)

1383

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TAS/2/975	

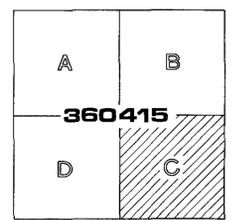


**LEGEND FOR GEOLOGICAL SERIES**

ar	Argillite	pyr	Pyroxene
sh	Shale	pyd	Pyroxene
md sl	Mudstone slate	an	Andesite
ss	Siltstone	bs	Basalt
ch	Sandstone quartzite chert	g	Granite
cg	Conglomerate	do	Dolomite
gw	Greywacke	gb	Gabbro
gw cg	Greywacke conglomerate	px	Pyroxenite
dl	Dolomite	sp	Serpentine
ls	Limestone	um	Undifferentiated ultramafics
ph	Phyllite	tu	Tuffs
sc	Schist	ag	Agglomerate
gn	Gneiss	gs	Gossan
ho am	Hornfels Amphibolite		

	Geological boundary		AsB Asbestos
	Unconformity		Az Azurite
	Anticline showing direction of plunge		By Barytes
	Syncline showing direction of plunge		Cc Chalcocite
	Plunge of minor anticline		Ch Chalcopyrite
	Plunge of minor syncline		Fl Fluorspar
	Overturned anticline		G Galena
	Overturned syncline		Ml Malachite
	Fault showing hade		Mt Magnetite
	Shear zone		Py Pyrite
	Strike and dip of bedding		Sp Sphalerite
	Strike of vertical bedding		Sr Sericite
	Location of horizontal bedding		St Siderite
	Overturned bedding		
	Generalised strike & dip undulating strata		
	Strike and dip of jointing		Ag Silver
	Strike of vertical jointing		As Arsenic
	Location of horizontal jointing		Au Gold
	Strike and dip of 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**



5 cm

SCALE 1 5000



Contour Interval 25 Metres

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**COMSTAFF PROPRIETARY LIMITED**

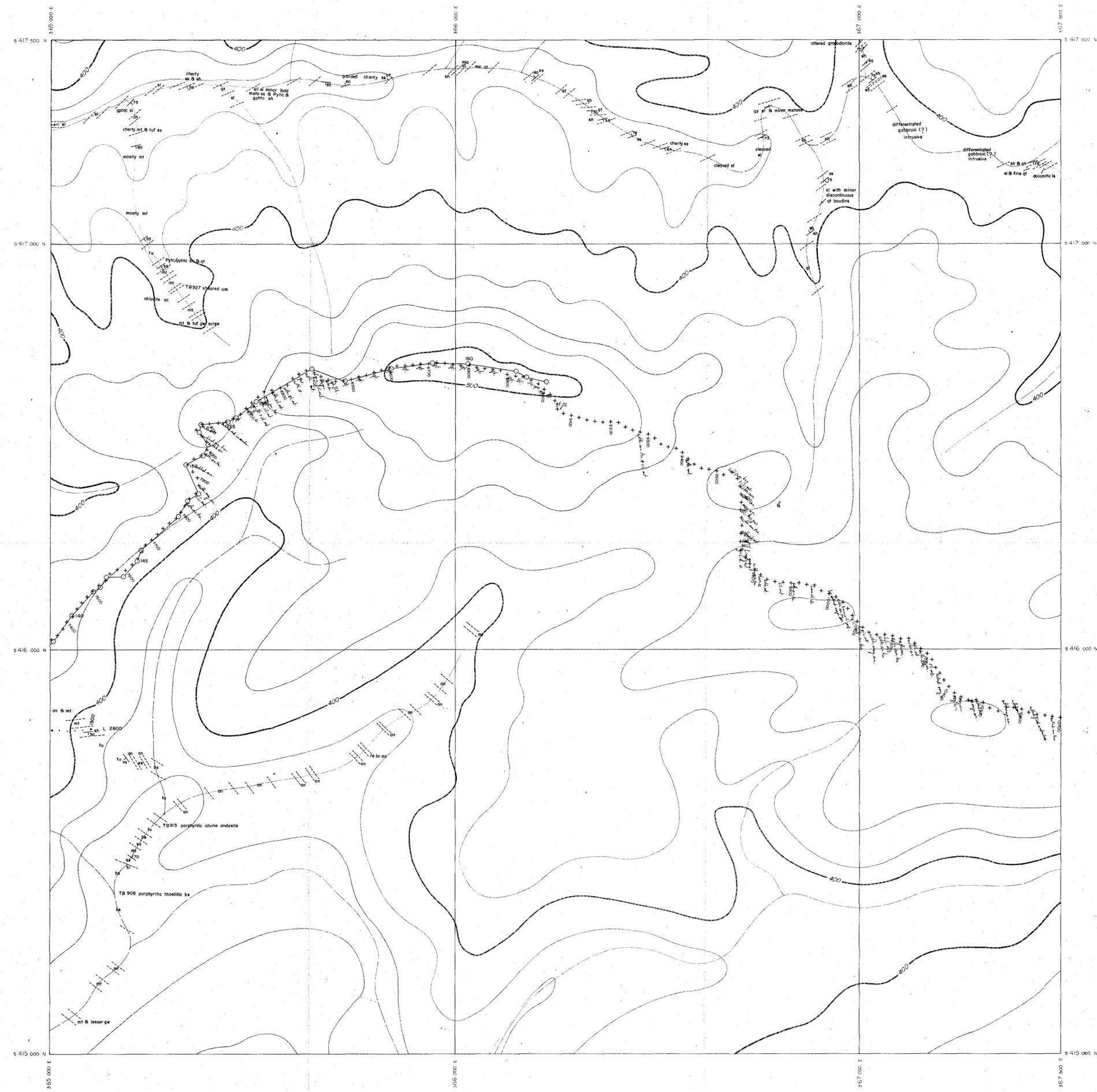
360415-C  
GEOLOGY (FACT)

085010

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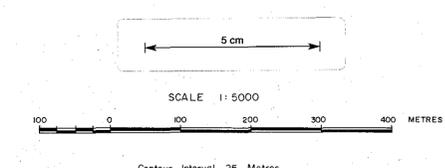
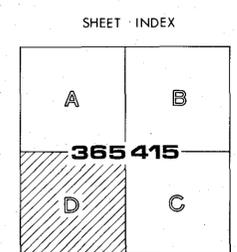
80-1438



**LEGEND FOR GEOLOGICAL SERIES**

ar	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
sq,qtz	Sandstone, quartzite, chert	g	Granite
cg	Conglomerate	do	Dolerite
gw	Greywacke	gb	Gabbro
gw,cg	Greywacke conglomerate	px	Pyroxenite
dl	Dolomite	sp	Serpentinite
ls	Limestone	um	Undifferentiated ultramafics
ph	Phyllite	tu	Tuffs
sc	Schist	ag	Agglomerate
ge	Gneiss	gs	Gossan
ho,am	Hornfels, Amphibolite		

	Geological boundary		Asb	Asbestos
	Unconformity		Az	Azurite
	Anticline showing direction of plunge		By	Barytes
	Syncline showing direction of plunge		Cc	Chalcoite
	Plunge of minor anticline		Ch	Chalcopirite
	Plunge of minor syncline		Fl	Fluorspar
	Overtuned anticline		G	Galena
	Overtuned syncline		Ml	Malachite
	Fault, showing hade		Mt	Magnetite
	Shear zone		Py	Pyrite
	Strike and dip of bedding		Sp	Sphalerite
	Strike of vertical bedding		Sr	Sericite
	Location of horizontal bedding		St	Siderite
	Overtuned bedding			
	Generalised strike & dip undulating strata			
	Strike and dip of jointing			
	Strike of vertical jointing			
	Location of horizontal jointing			
	Strike and dip of foliation			
	Strike of vertical foliation			
	Location of horizontal foliation			
	Strike and dip of cleavage			
	Strike of vertical cleavage			
	Location of horizontal cleavage			
	Mineral occurrence - minor			
	Major mineral occurrence with mine			
	Mine shaft - operating, disused			
	Mine tunnel portal			
	Costean, pit or trench			
	Trigonometrical station			
	Road/track			
	Railway - used/disused (or formation)			
	Peg location			
	Drillhole location			
	Building			
	Dam or lake			
	Drainage			
	Topographic contour line			
	Fence			
	Sample point			
	Quarry/dump			



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**COMSTAFF PROPRIETARY LIMITED**

365415-D (FACT)

**GEOLOGY**

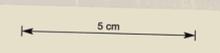
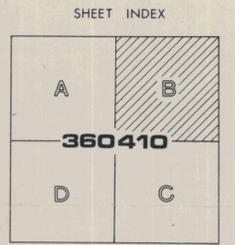
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TAS/2/997	

LEGEND FOR GEOLOGICAL SERIES

ar	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
st, ch	Sandstone, quartzite, chert	g	Granite
cg	Conglomerate	do	Dolerite
gw	Greywacke	gb	Gabbro
gw, cg	Greywacke conglomerate	px	Pyroxenite
do	Dolomite	ser	Serpentinite
lm	Limestone	um	Undifferentiated ultramafics
ph	Phyllite	tu	Tuffs
sc	Schist	ag	Agglomerate
gn	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	Chalcopyrite
	Overturned anticline	Fl	Fluorspar
	Overturned syncline	G	Galena
	Fault, showing hade	Mal	Malachite
	Shear zone	Mt	Magnetite
	Strike and dip of bedding	Py	Pyrite
	Strike of vertical bedding	Sp	Sphalerite
	Location of horizontal bedding	Sr	Sericite
	Overturned bedding	St	Siderite
	Generalised strike & dip undulating strata		
	Strike and dip of jointing		Mineral
	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	Osmidium
	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		



SCALE 1:5000  
100 0 100 200 300 400 METRES

Contour Interval 25 Metres

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COMSTAFF PROPRIETARY LIMITED

360410 - B  
GEOLOGY

085012

1387

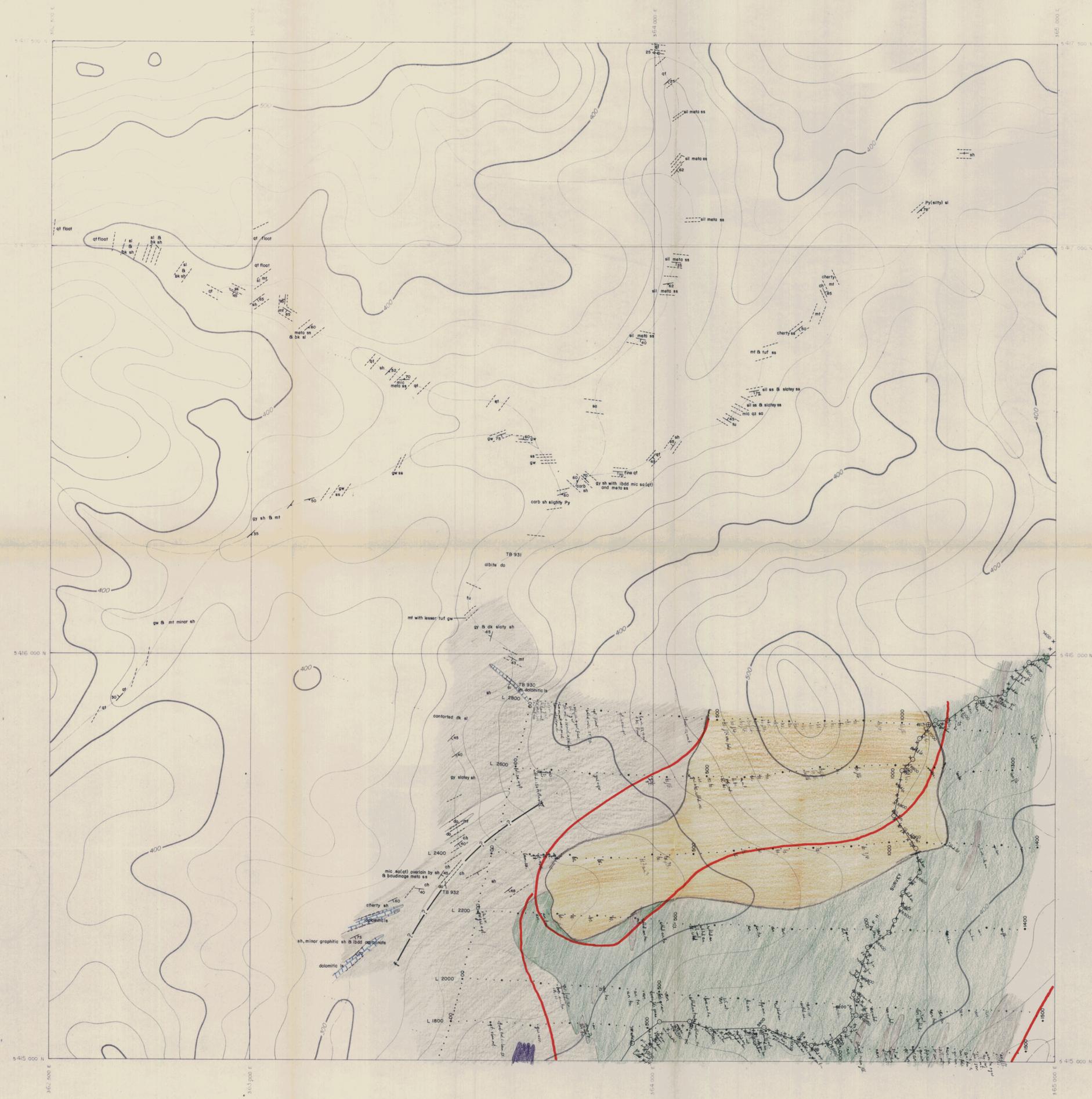
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TAS/2/975

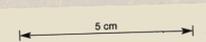
LEGEND FOR GEOLOGICAL SERIES

ar	Argillite	gr	Granite
sh	Shale	py	Pyroxene
md,sl	Mudstone, slate	g	Gabbro
ss	Siltstone	px	Pyroxene
sd,qt,ch	Sandstone, quartzite, chert	ser	Serpentine
cg	Conglomerate	um	Undifferentiated ultramafics
gw	Greywacke	tu	Tuffs
gw,cg	Greywacke conglomerate	ag	Agglomerate
lm	Limestone	gs	Gossan
ph	Phyllite		
sc	Schist		
gn	Gneiss		
hoyam	Hornfels, Amphibolite		

	Geological boundary		Asbestos
	Unconformity		Azurite
	Anticline showing direction of plunge		Barytes
	Syncline showing direction of plunge		Chalcocite
	Plunge of minor anticline		Chalcopyrite
	Plunge of minor syncline		Fluorspar
	Overturned anticline		Galena
	Overturned syncline		Malachite
	Fault, showing hade		Magnetite
	Shear zone		Pyrite
	Strike and dip of bedding		Sphalerite
	Strike of vertical bedding		Sericite
	Location of horizontal bedding		Siderite
	Overturned bedding		
	Generalised strike & dip undulating strata		
	Strike and dip of jointing		Silver
	Strike of vertical jointing		Arsenic
	Location of horizontal jointing		Gold
	Strike and dip of foliation		Barium
	Strike of vertical foliation		Cadmium
	Location of horizontal foliation		Copper
	Strike and dip of cleavage		Mercury
	Strike of vertical cleavage		Manganese
	Location of horizontal cleavage		Molybdenum
	Mineral occurrence - minor		Nickel
	Major mineral occurrence with mine		Osmidium
	Mine shaft - operating/disused		Lead
	Mine tunnel portal		Antimony
	Casteen, pit or trench		Tin
	Trigonometrical station		Tungsten
	Road/track		Zinc
	Railway - used/disused/or formation		
	Peg location		
	Drillhole location		
	Building		
	Dam or lake		
	Drainage		
	Topographic contour line		
	Fence		
	Sample point		
	Quarry/dump		



SHEET INDEX



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 Contour Interval 25 Metres

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

COMSTAFF PROPRIETARY LIMITED

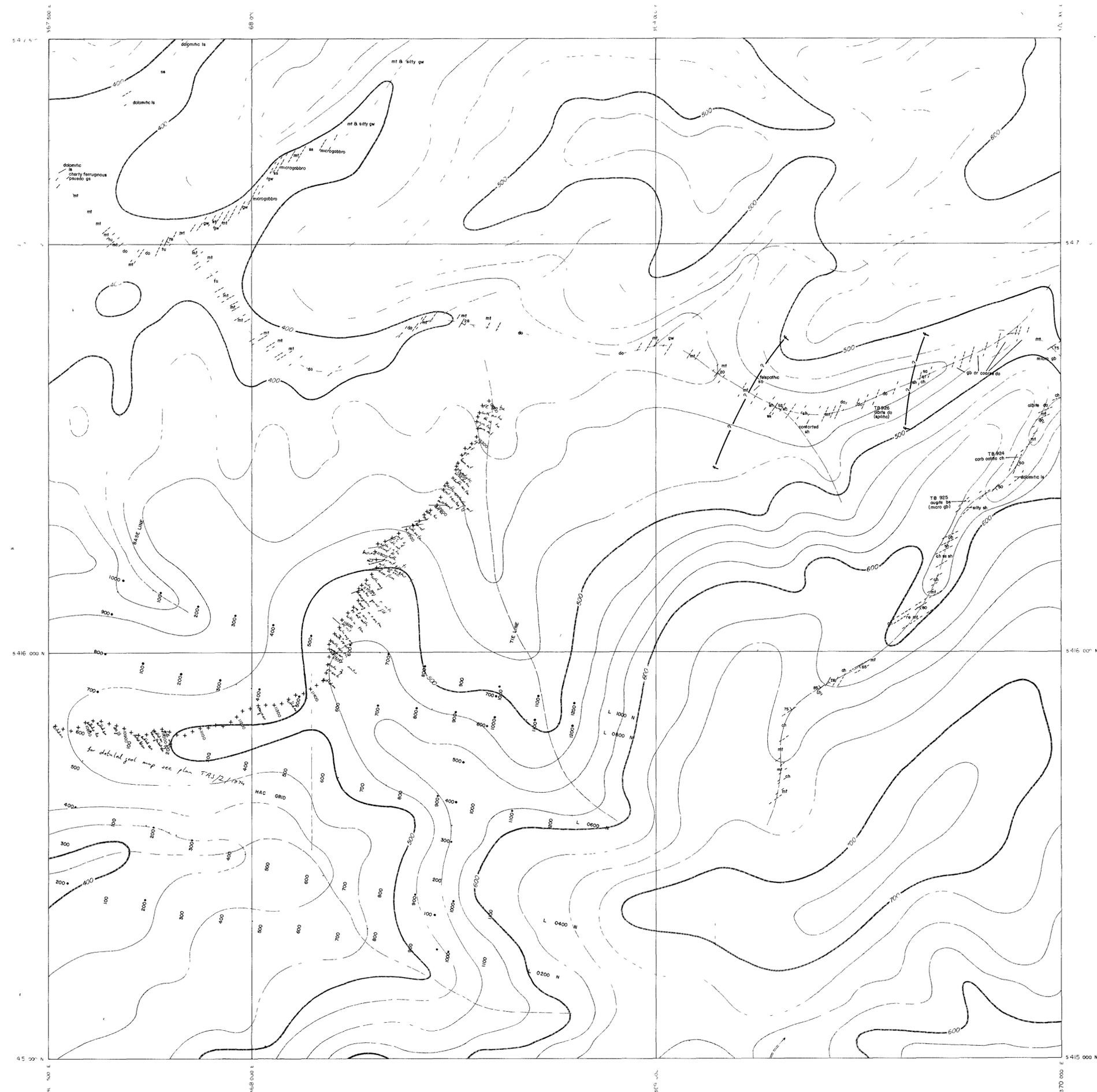
360415-C  
 GEOLOGY

085013

1385

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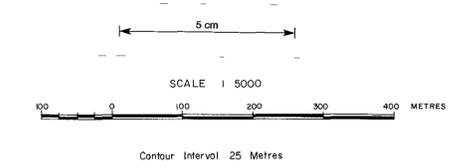
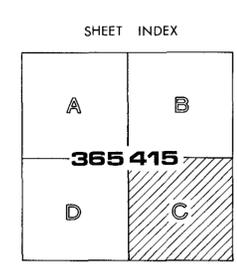
20-1438



**LEGEND FOR GEOLOGICAL SERIES**

ar	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
sd ch	Sandstone quartzite, chert	g	Granite
cg	Conglomerate	do	Dolomite
gw	Greywacke	gb	Gabbro
gw cg	Greywacke conglomerate	px	Pyroxenite
dl	Dolomite	sp	Serpentinite
ls	Limestone	um	Undifferentiated ultramatics
ph	Phyllite	tu	Tuffs
sc	Schist	ag	Agglomerate
ge	Gneiss	gs	Gossan
ha am	Hornfels Amphibolite		

	Geological boundary		Asb Asbestos
	Unconformity		Az Azurite
	Anticline showing direction of plunge		By Barytes
	Syncline showing direction of plunge		Cc Chalcocite
	Plunge of minor anticline		Ch Chalcopyrite
	Plunge of minor syncline		Fj Fluorspar
	Overturned anticline		G Galena
	Overturned syncline		Ml Malachite
	Fault showing hade		Mt Magnetite
	Shear zone		Py Pyrite
	Strike and dip of bedding		Sp Sphalerite
	Strike of vertical bedding		St Siderite
	Location of horizontal bedding		
	Overturned bedding		
	Generalised strike & dip undulating strata		
	Strike and dip of jointing	<b>Mineral</b>	
	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		



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

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**COMSTAFF PROPRIETARY LIMITED**

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GEOLOGY

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DRAWN	GEO DRAFT
DATE	NOVEMBER 1977
COMPILED	VARIOUS
SCALE	1:5000

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TAS/2/996



