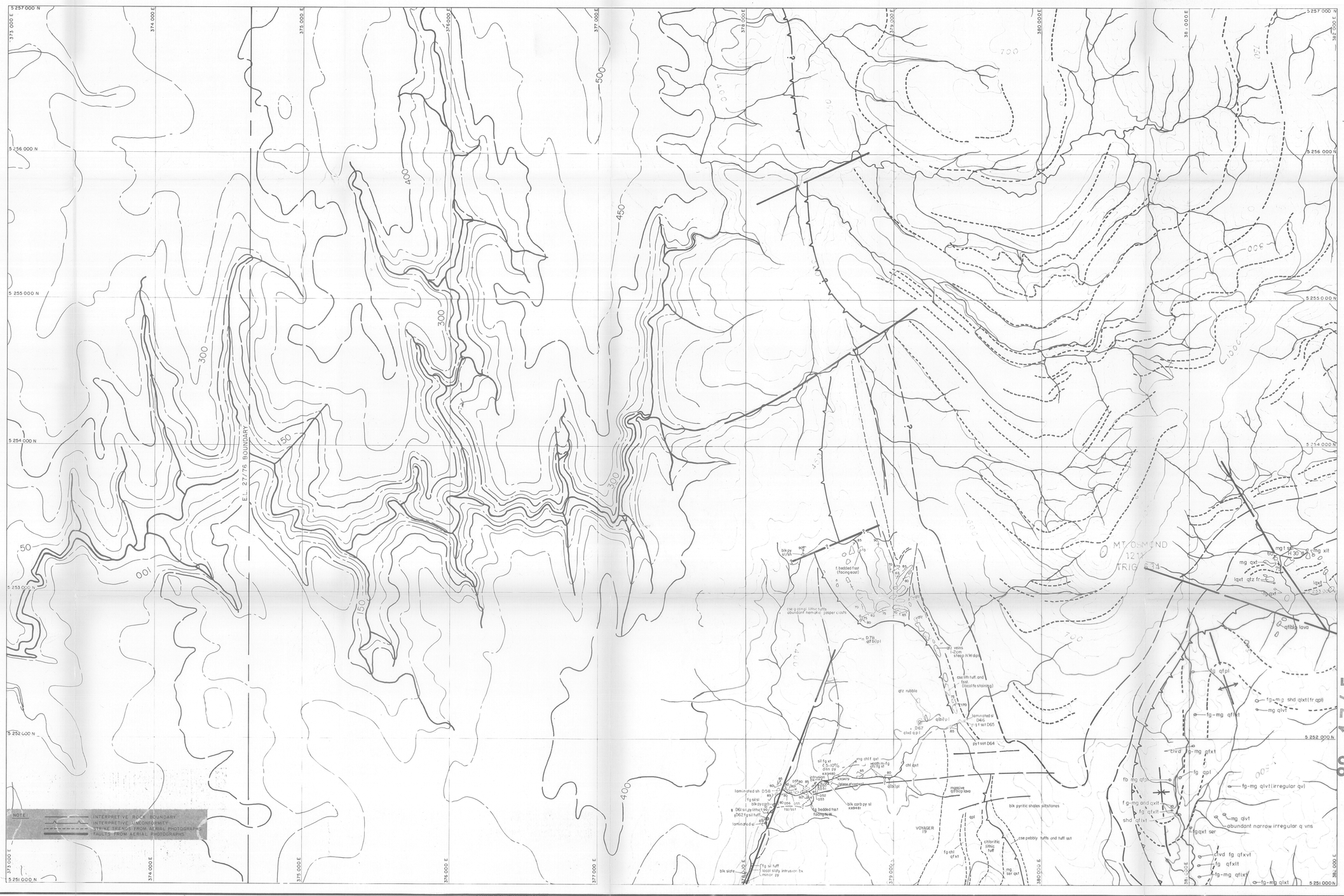

82-1745 S/1

PLAN-66

LEGEND:

VOLCANIC ROCKS

lt	lithic tuff
xt	crystal tuff
vt	vitric tuff
xlt	crystal lithic tuff
vlt	vitric lithic tuff, rounded clasts 32 mm
ft	fragmental angular clasts 32 mm
ut	undifferentiated tuffs
t	tuff
qp	quartz porphyry
qfp	quartz feldspar porphyry
qfbp	quartz feldspar biotite porphyry
l	as a suffix denotes lava
lap	lapilli

PREFIXES (no prefix indicates acid composition)

a	acid
i	intermediate
rhy	rhyolite or rhyolitic
dac	dacite or dacitic
and	andesite or andesitic
b	basalt or basaltic
ba	basic

SEDIMENTARY ROCKS

sh	shale
st	siltstone
sbsh	subshale
sst	sandstone
qtz	quartzite
gwk	greywacke
ch	chert
lst	limestone
dol	dolomite
bx	breccia
congl	conglomerate
vs	volcaniclastic sediment

METAMORPHIC ROCKS

phy	phyllite
sch	schist
gns	gneiss
hfs	hornfels
mb	marble

INTRUSIVE ROCKS

gr	granite
gd	granodiorite
ad	adamellite
dl	dolerite
dp/porp	porphyry
bd	basic dyke
ap	aplite
pg	pegmatite
qv	quartz veins

STRUCTURAL AND TEXTURAL

p	porphyritic
clvd	strongly cleaved
shd	sheared
ox	oxidised
vf	vesicular
rxn	recrystallised
bx	brecciated
sch	schistose
vug	vugular (vughy, vug)
cren	crenulated

MINERALOGICAL PREFIXES
(only use if diagnostic)

sil	siliceous
ser	sericitic
sap	saliciticic
cal	calcareous
fe	ferruginous
py	pyritic
chlm, hm	chloritic
gnm	gneiss
lim	limonitic
arg	argillic
feld	feldspathic
ep	epidote

GRAIN SIZE

fg	fine grained	0 – 3 mm fragments
mg	medium grained	3 – 10 mm fragments
cg	coarse grained	10 – 32 mm fragments
ogg	agglomerate or vole breccia	> 32

AGE DESIGNATION PREFIXES

Q	Quaternary
T	Tertiary
J	Jurassic
TR	Triassic
P	Permian
D	Devonian
S	Silurian
O	Ordovician
Є	Cambrian
PreЄ	Precambrian

STRUCTURAL

	outcrop
	float
	jointing
	strike/dip of flow layering in volcanic rocks or schistosity (metamorphic foliation)
	fault
	interpretive contact
	jointing
	cleavage
	fold axis
	vertical cleavage

GEOLOGICAL INTERPRETATION

Map Unit No.

- Qa QUATERNARY alluvium
- 19-70 Tg TERTIARY gravels and unconsolidated sediments
- 19-17 O ORDOVICIAN conglomerate and quartzite

CAMBRIAN

1. Tyndal Group Correlates

- 19-4 Grey shales and black shales
- 19-43 Reworked rhyolitic lithic tuffs and agglomerates

2. Dundas Group ?

- 19-26 Greywackes and shales

3. Mainwaring Group

a. Veridian Basic Volcanics

- 19-47 Andesitic to basaltic tuffs, lavas, lava breccias and tuffaceous shales
- 19-46 Dolomites and dolomitic shales

b. Sassy Creek Argillites

- 19-57 Phyllitic brown, grey shales, argillites, greywackes and minor black shales

c. Penders Tuffs

- 19-30 Rhyolitic crystal tuffs and minor chloritic sediments

d. Undifferentiated

- 19-51 Undifferentiated lithologies in the N.W. of the E.L. include, intermediate to basic volcanics, siltstones, conglomerates and tuffs.

4. Lewis River Volcanics

a. Mert Hill Pyroclastics

- 19-29 Rhyolitic quartz-rich lithic and crystal tuffs, agglomerates, lavas and vitric tuffs
- 19-63 Quartz-pebble conglomerates quartzites and minor shales
- 19-67 Basic dykes and flows? intruding rhyolitic tuffs
- 19-100 Chlorite and/or sericite alteration of acid pyroclastics with 2 – 5% pyrite

b. Wanderer River Tuff

- 19-23 Pink hematitic rhyolitic crystal and lithic tuffs, minor lavas

c. Hudson River Pyroclastics

- 19-40 Chloritic quartz-feldspar crystal and lithic tuffs plus biotite bearing rhyolite porphyries (lavas ?)
- 19-58 Shales, greywackes and fine tuffaceous sediments

d. Elliott Point Porphyry

- 19-22 Coarse grained quartz-feldspar-biotite porphyry probably a sub-volcanic intrusive

e. Cambrian Granites

- 19-19 Undifferentiated granite and granite porphyry

PRECAMBRIAN

- 19-65 Undifferentiated quartzites and meta sediments

DATE: Oct 80
GEOLOGIST: [illegible]
DRAWN: [illegible]
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SCALE: 1:10 000

No. KT27/76-3A

E.L. 27/76
ELLIOTT BAY, TASMANIA
GEOLOGICAL MAP
070

KT27/76-1	KT27/76-2
KT27/76-3	KT27/76-4
KT27/76-5	KT27/76-6
KT27/76-7	KT27/76-8