OPERATION OF LEGEND:

1. Capital letter – indicates primary classification eg. S - sedimentary rock, A - acid rock, M - basic rock
2. Lower case letters – indicate the following:
   (i) Colours – e.g. pk/grn A = pink fragments in an acid igneous rock with a green matrix.
   (ii) Textural or structural features – e.g. ptA = crystal tuff of acid composition, e.g. pA = porphyric acid rock, e.g. ssA = welded acid rock
   b. As suffixes in progressive order,
   (i) Categorised– e.g. pAr = rhyolite, e.g.Zm = intermediate rock of andesitic composition.
   (ii) Mineralogy– e.g. pArt = porphyritic (rhyolite) with feldspar phenocrysts, e.g. lxt f/b = lithic crystal tuff with feldspar (phenocryst component) and biotite (prominent matrix component), e.g. lxt f q = lithic crystal tuff with (major) feldspar crystals and (minor) quartz crystals, e.g. fb lvt - lava Zdb = flow banded lithic vitric tuff - lava of intermediate dacitic composition with a biotite rich groundmass.

NOTE:
This map has been compiled from enlargements of the Tasmanian Lands Departmenfs 1:15 840 scale topographic machine plots.

SYMBOLS:

IGNEOUS:
A acid igneous unclassified
Ar rhyolite
Ard rhyodacite
Z intermediate igneous unclassified
Za andesite
Zd dacite
M basic igneous unclassified
Mv basalt
Md dolerite

SEDIMENTARY:
Sst Sandstone
Scongl conglomerate
S volcaniclastic sediment
Sqtz quartzite

STRUCTURAL and TEXTURAL:
t tuff unclassified
lt lithic tuff
xt crystal tuff
vt vitric tuff
fb flow banding
p porphyritic
ss welded
ss silicified
sld argillitised
argd

STRUCTURAL:
outcrop limit
rubble boundary
approximate contact
bedding
joint

GRAIN SIZE:
fg fine grained (< 1mm)
mg medium grained (5mm - 1mm)
cg coarse grained (5mm - 5cm)

COLOURS:
pk pink
grn green
brn brown
ple pale
dk dark

SILICATE MINERALOGY:
q quartz
f K feldspar
p plagioclase
b biotite
c chlorite
s sericite
mof mafics
h epidote
hb hornblende

SULPHIDE MINERALOGY:
py sulphides
py pyrite
hm hematite

MISCELLANEOUS:
T5 2502 This Section and rock No.

GEOLOGICAL INTERPRETATION:

Pencil No.			
19-43	HOLOCENE	Alluvium, glacial debris (Md), swamp soils	
19-47	TERT.	Olivine basalt (flows, Mv)	
19-38	L. ORDO.	Limestone (Gordon type)	
19-71	U Є ?	Talus - sandstone, conglomerate	
19-70	U Є ?	Sandstone, conglomerate (Owen type, Sst, Scongl.)	
19-22	Є	Undifferentiated cambrian	
19-63	Є	Crystal lithic tuff (xlt Ar qf; gradational to tuff - lava)	
19-28	Є	Lithic vitric tuff - lava (fb lvt - lava Zdb, intercalated with pArdpq)	
19-21	Є	Porphyritic plagioclase - quartz rhyolite (fb pAr qp)	
19-3	Є	Fine grained quartzose volcaniclastic sediment (fg S volcaniclastic sed. q.n°)	
19-57	Є	Lithic quartz crystal vitric tuff (lxt Arqf)	
19-55	Є	Lithic quartz crystal tuff (lxtZq qf mof n°)	
19-23	Є	Quartz crystal vitric tuff - lava (xvt - lava Arq)	
19-19	Є	Biotite feldspar quartz porphyritic lava (pArd bfq, pAr bfq)	

MINING LEASE

03_4902

Tube Number 19: Black Bluff, Mariner, Mt Stormont
(EL 9/1966, EL10/1974)
Placer Dome Asia Pacific*
Green, D. EL10/1974; EL9/1966

GEOPEKO LIMITED
KING ISLAND GROUP

SCALE: 1:10,000

DATE: APRIL '78
GEOLOGIST: R.B.
DRAWN: L.G. & J.M.
CHECKED: M.C.R.

E.L. 10/74
BLACK BLUFF, TASMANIA
GEOLOGICAL MAP

No. KT10/74-3A

KT10/74-1
KT10/74-2
KT10/74-3