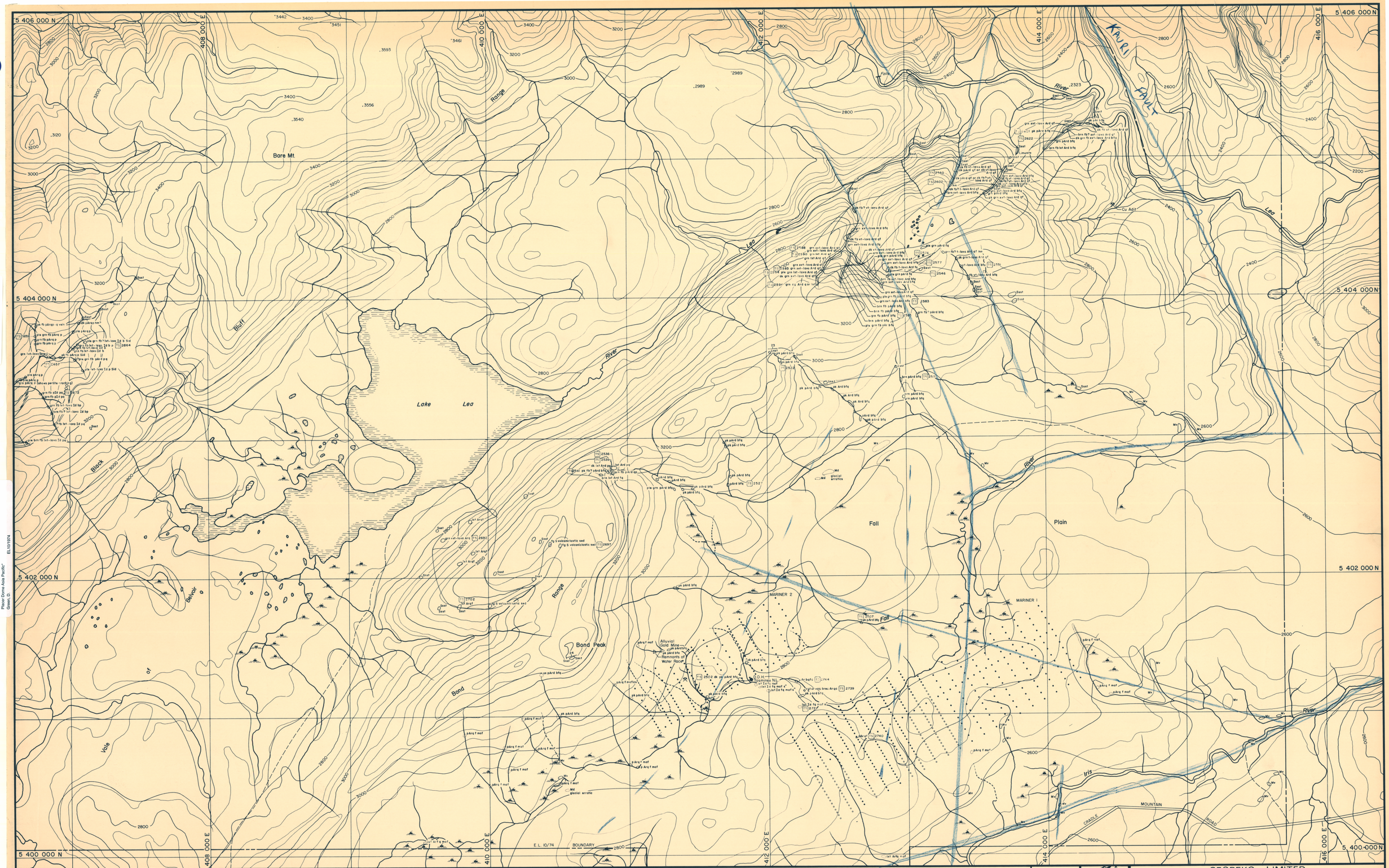
03_4901
Tube Number 15: Black Bluff, Mackintosh East: 1976-81 (including EL10/1974).
Project: Cape Barren Island Pacific
Area: Green, D. EL10/1974



OPERATION OF LEGEND:

1. Capitol 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. xtA = crystal tuff of acid composition, e.g. pA = porphyric acid rock, e.g. oxA = oxidised acid rock
   b. As suffixes in progressive order,
   (i) Categorised – e.g. pAr = rhyolite, e.g. Zr = intermediate rock of andesitic composition
   (ii) Mineralogy – e.g. pArf = porphyritic (rhyolite) with feldspar phenocrysts, e.g. lxt f/p = 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 lxt - 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 Department's 1:15840 scale topographic machine plots.

SYMBOLS:

IGNEOUS:

A	acid igneous unclassified
Ar	rhyolite
Ard	rhyodacite
I	intermediate igneous unclassified
Zd	andesite
Id	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
ls	lapilli bonding
p	porphyritic
vns	veins
ox	oxidised
sld	silicified
orgd	argillised

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	feldspar
p	plagioclase
b	biotite
c	chlorite
s	sericite
mof	mafics
e	epidote
hb	hornblende

SULPHIDE MINERALOGY

s"	sulphides
py	pyrite
hm	hematite

MISCELLANEOUS:

TS 2502 Thin Section and rock No.

GEOLOGICAL INTERPRETATION:

Pencil No.			
19-63			
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 Arqf, 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 qs")
19-57		Є	Lithic quartz crystal vitric tuff (lxt Arqf)
19-55		Є	Lithic quartz crystal tuff (lxtZa qf mof s")
19-23		Є	Quartz crystal vitric tuff - lava (xvt - lava Arq)
19-19		Є	Biotite feldspar quartz porphyritic lava (pArd bfq, pAr bfq)

Check to see if phosphinoids are through basalt if so then go on to post Tertiary sign. Recovery mineralisation in dolerites in Devon. if so.

GEOPEKO LIMITED
KING ISLAND GROUP

SCALE: 1 : 10,000

No. KT10/74-3A

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

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

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