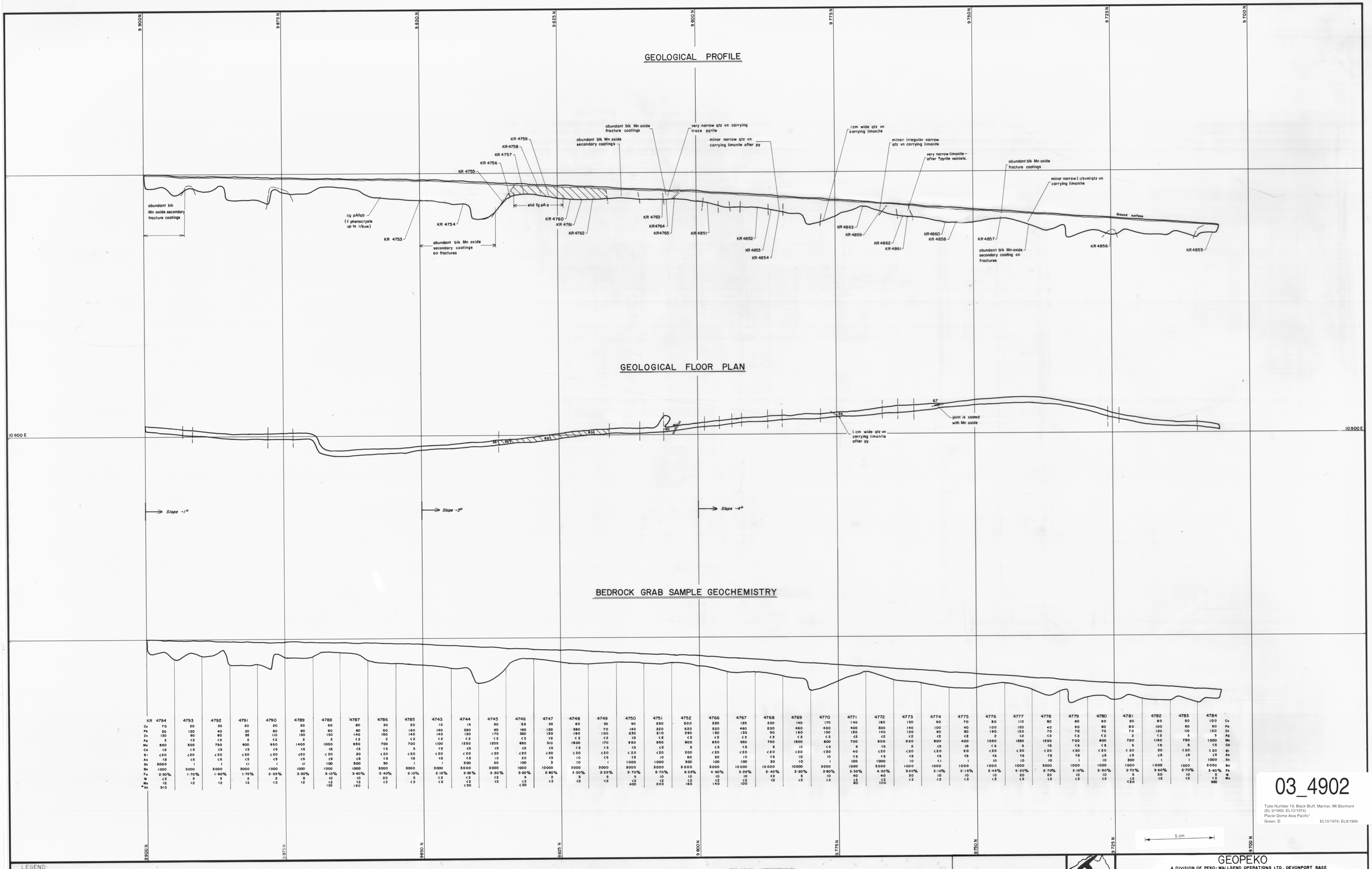


KR	4794	4793	4792	4791	4790	4789	4788	4787	4786	4785	4743	4744	4745	4746	4747	4748	4749	4750	4751	4752	4766	4767	4768	4769	4770	4771	4772	4773	4774	4775	4776	4777	4778	4779	4780	4781	4782	4783	4784	
Cu	70	20	20	20	20	20	40	80	30	20	10	15	30	95	35	60	30	90	250	500	220	120	220	140	170	140	180	130	90	70	80	110	80	60	60	60	50	100	Cu
Pb	30	120	40	20	80	80	80	80	60	180	160	260	60	160	120	380	70	140	220	620	520	460	200	460	400	400	300	140	100	40	100	120	40	60	80	80	60	60	Pb
Zn	130	90	80	85	110	130	130	140	150	140	140	120	170	320	130	180	100	230	210	260	180	130	90	160	100	120	140	120	60	80	120	70	70	70	70	120	120	110	Zn
Ag	2	<2	<2	2	<2	2	2	<2	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	<2	<2	<2	<2	2	5	5	Ag
Mn	850	500	750	800	950	1400	1000	950	700	700	1100	1250	1200	650	310	1800	170	950	950	800	850	650	750	1500	800	700	900	950	800	400	1050	1850	1850	700	800	700	150	750	1000	Mn
Cd	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	<5	<5	5	10	<5	5	<5	5	<5	<5	<5	5	<5	<5	<5	5	5	5	Cd
Bi	<20	<20	<20	<20	<20	<20	<20	20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	200	<20	<20	<20	<20	<20	40	<20	<20	<20	20	<20	<20	<20	<20	<20	<20	20	<20	Bi
As	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	10	20	<5	10	1	10	10	60	20	20	<5	10	10	<5	<5	<5	10	20	<5	<5	<5	<5	<5	<5	<5	<5	As
Sn	3000	1	1	<1	1	<1	100	300	30	1	1	300	30	100	3	10	1	1000	1000	300	100	100	30	10	1	100	1000	10	<1	1	10	10	10	1	10	300	1	1000	Sn
Be	1000	3000	3000	3000	1000	1000	1000	1000	3000	3000	3000	3000	3000	1000	10000	3000	3000	3000	3000	3000	3000	10000	10000	10000	3000	1000	3000	1000	1000	1000	1000	1000	3000	1000	1000	1000	1000	3000	Be
Fe	2-20%	1-70%	1-90%	1-75%	2-05%	2-30%	3-10%	3-60%	2-40%	2-10%	2-15%	2-35%	3-30%	3-20%	2-80%	3-50%	2-25%	3-70%	5-70%	6-25%	4-60%	3-25%	3-40%	3-20%	2-60%	3-35%	4-30%	3-20%	2-10%	2-15%	3-45%	4-20%	2-70%	2-15%	2-50%	2-70%	3-60%	2-70%	3-60%	Fe
W	<2	5	5	2	2	5	10	10	20	5	<2	<2	<2	<2	5	5	5	5	10	10	10	10	<2	5	10	40	40	20	10	10	10	20	20	10	10	5	20	10	5	W
Mo	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	Mo
*Sn	310						120	190				<20		<20						160	140	100				80	1110									<20		530		

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

LEGEND:

ANALYTICAL METHODS

Cu, Pb, Zn, Bi, Ag, Mn, Cd and Fe by A.A.S. following hot conc. HCL leach and HCL/HNO3 leach in latter stages of 0.25g sample.
Sn and Ba by Emission Spectrography Schemes E.S. 2 and 3.
As by modified Gutzeit method following Potassium Pyrosulphate fusion of 0.25g sample.
W and Mo by Colorimetry.
*Sn by XRF.
Analytical results in ppm, except Fe%.

SYMBOLS

Igneous
A acid igneous unclassified
M basic igneous unclassified

Textural
p porphyritic
fb flow banding
vn vein
i intrusive
shd sheared

Silicate Mineralogy
q quartz
f K feldspar
b biotite
c chlorite
s sericite

Grain Size
fg fine grained (<1mm)
mg medium grained (5mm – 1mm)
cg coarse grained (5mm – 1cm)

Colours
pk pink
grn green
blk black
crm cream
rd red
ple pale
dk dark

Structural
joint
primary foliation
F minor fault
approximate contact
approximate position of transitional contact

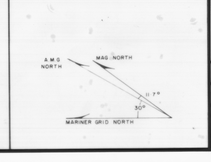
Miscellaneous
KR 4694 rock sample number
TS 4709 thin section and rock number

comments: Width of costean tapers to 0.65m at base.
Bedrock grab samples for geochemistry were taken at 0.5m intervals across the 5m sampling width

scales: Vertical - 1:100
Horizontal - 1:250

GEOLOGICAL INTERPRETATION

Pencil No.			
19-53		HOLOCENE	AL soil horizon - blk peat, residual quartz phenocrysts.
19-41		4	Strongly foliated porphyry - wte/dk grn cg pAsqc ?fb
19-41		4	Altered porphyry - wte/dk grn cg pAsqc
19-12		4	Moderately weathered porphyry - wte - pk - grn/pk cg pAfqc
19-19		4	Unweathered porphyry - wte - grn - crm/rd - pk cg pAfqb
19-7		4	Porphyry dyke - ple grn fg pAqs
19-68		4	Basic dyke - dk grn fg iMc



DATE: MARCH '79
GEOLOGIST: G.L.B.
DRAWN: J.P.M.
CHECKED: G.L.B.

GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD. DEVONPORT BASE

SCALE: 1:250 (HORIZ) 1:100 (Vert)

No. KT 10/74 - M - 17

E.L. 10/74 BLACK BLUFF, TASMANIA
MARINER 3

COSTEAN 3