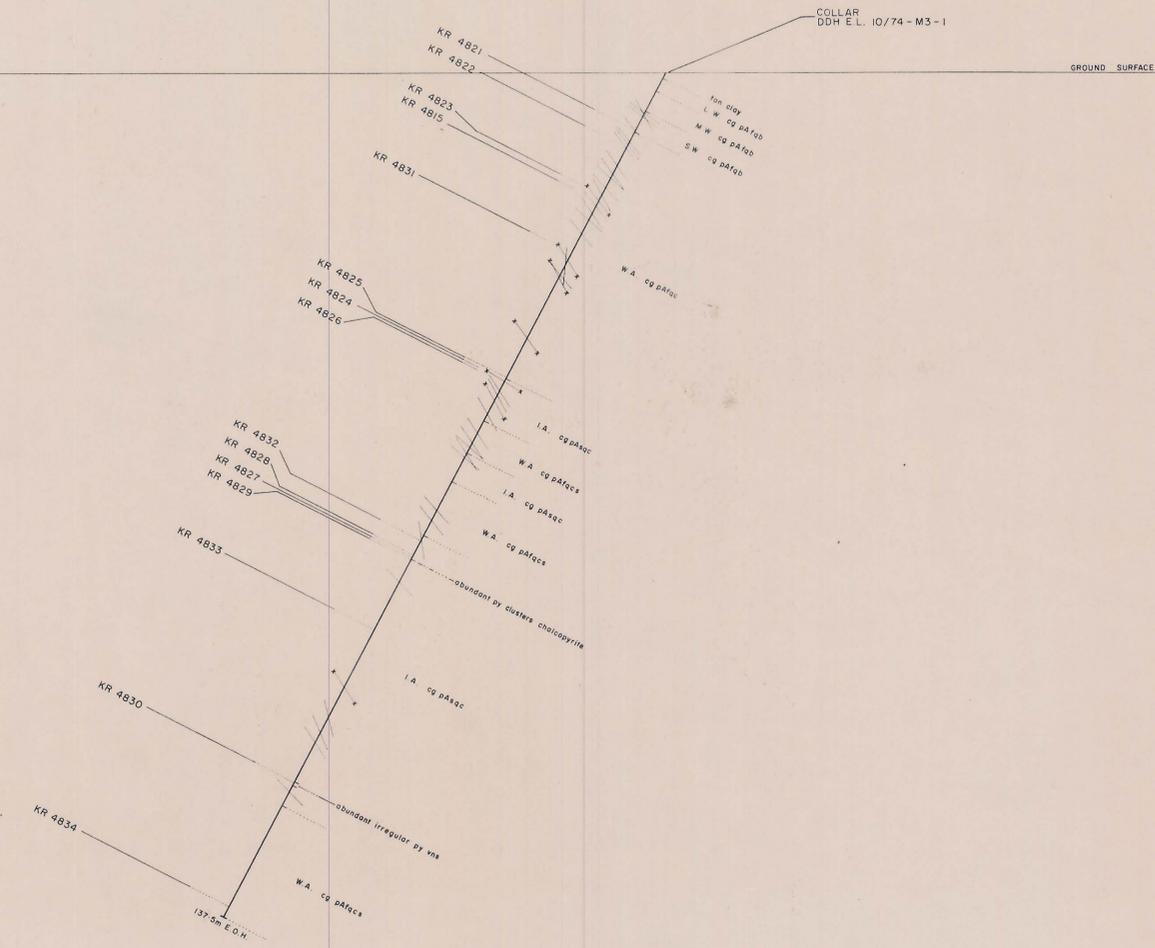


MARINER 3  
D.D.H. 3/1  
Coachen

03-4902a

5 cm



KR No.	DEPTH INTERVAL (m.)	GEOLOGY	Cu ppm	Cu %	Pb ppm	Zn ppm	Ag ppm	Mn ppm	Cd ppm	Bi ppm	Fe %	W ppm	Ba ppm	Sn ppm	*Sn ppm	Mo ppm	As ppm	Au ppb	Sb ppm	Co ppm	Ni ppm
4821	9.63 - 9.73	py - qtz vn	>10 000	2.40	560	330	25	140	<5	570	23.00	5	<30	100		<2	100	10			
2	12.28 - 12.36	py - qtz vn	>10 000	2.95	180	350	55	290	5	150	14.50	10	30	300	270	<2	80	500			
3	20.05 - 20.19	py - qtz vn	5750		120	200	10	340	<5	<20	14.00	2	30	100	<2	100	55				
4	50.39 - 50.49	py - chalc - qtz vn	>10 000	8.45	6750	3250	325	300	40	5000	8.90	5	30	750	600	<2	200	>500			
5	49.89 - 50.39	cg pAsqc (mod. alt)	200		80	210	5	1450	<5	<20	5.20	5	3000	30	<2	20	50				
6	50.49 - 50.99	cg pAsqc (int. alt)	520		100	170	<2	1150	<5	20	3.90	10	3000	10	<2	<5	10				
7	78.94 - 79.36	py - chalc - qtz vn	8250		580	3750	35	140	10	190	5.85	5	100	10	2	80	90				
8	78.44 - 78.94	cg pAsqc (int. alt.)	260		100	290	<2	1500	5	<20	6.70	2	3000	500	600	<2	30	35			
9	79.36 - 79.86	cg pAsqc (int. alt.)	340		60	6060	<2	1300	10	<20	5.00	2	3000	30	<2	30	25				
30	115.22 - 115.75	py vn - py clusters	25		30	110	<2	1150	<5	<20	6.00	<2	3000	100	<2	20	35				
1	29.35 - 29.50	cg pAfscc (weakly alt)	130		40	70	<2	450	<5	<20	2.25	<2	10000	<1	<2	<5	85				
2	76.08 - 76.18	cg pAsqc (int. alt)	40		50	180	<2	3000	<5	<20	6.80	<2	10000	300	350	<2	<5	65			
3	90.50 - 90.60	cg pAsqc (int. alt)	750		60	170	<2	2000	<5	<20	4.65	2	3000	500	440	<2	<5	45			
4834	135.83 - 135.93	cg pAfscc (weakly alt)	20		40	50	<2	650	5	<20	2.65	<2	10000	<1	<2	<5	<10				
4815	20.78 - 20.86	py - chalc - qtz vn	>10 000	1.40	950	1500	125	1100	5	5000	17.00	150			410	<2	150		70	100	150
repeat and check 4827			8200		520	3250	30	120	5	200	5.30	5				2	80				

**LEGEND**  
**ANALYTICAL METHODS:**  
Cu, Pb, Zn, Bi, Fe, Cd, Ag, Mn, Sb, Co, Ni by AAS  
W, Mo, As by colorimetry  
Sn, Ba by E.S. schemes 2 and 3  
\*Sn by X.R.F.  
Au by C.R.A./AAS

**NOTES:**  
1. KR 4821 and 4822 were 1/2 NQ core samples  
KR 4823 was a 1/2 BQ core sample while the remainder were 1/4 BQ core samples.  
2. Collar co-ordinates Mariner 3 grid 9795 N 10970 E.  
3. Inclination - 62° 45'  
4. Bearing 253° 12' Mariner 3 grid 211° 30' magnetic  
5. Core sizes: HQ 3.0m; NO 14.3m; BQ 137.5;  
6. A further 12 narrow py-qtz veinlets have not been plotted owing to drawing congestion problems.  
7. This is a profile of a DDH along the hole bearing (253° 12') Mariner 3 grid direction.  
8. Refer to map no. M-15 for geological abbreviations.

**SYMBOLS:**  
Weathering:  
S.W. ... slightly weathered  
M.W. ... moderately weathered  
I.W. ... intensely weathered  
Alteration:  
W.A. ... weakly altered  
I.A. ... intensely altered  
The type and the degree of the alteration mineralogy is denoted by the geological abbreviation and in the geological log  
Sulphide veins:  
denotes a py-qtz vn  
denotes a py-chalc vn  
denotes angle w.r.t. the L.A.O.C.

GEOPEKO  
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD

SCALE 1:500 No KT 10/74 - M-20

E.L. 10/74 BLACK BLUFF, TASMANIA  
MARINER 3  
D.D.H. E.L. 10/74 - M3 - 1

DATE: APRIL '79  
DRAWN: G.L.B.  
CHECKED: J.P.M.  
SCALE: 1:500

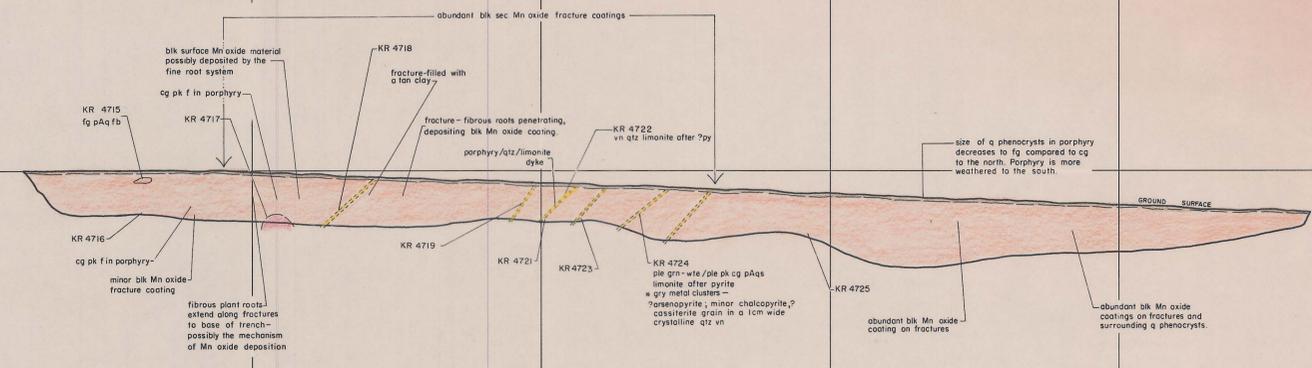


MARINER  
DATE  
COSTEAN TWO

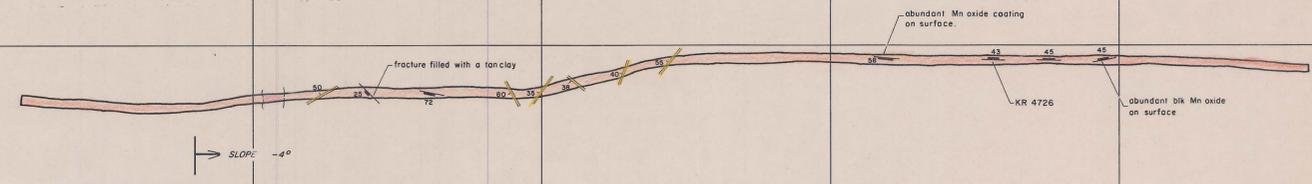
03-4902 c

6 cm

**GEOLOGICAL PROFILE**



**GEOLOGICAL FLOOR PLAN**



**BEDROCK GRAB SAMPLE GEOCHEMISTRY**

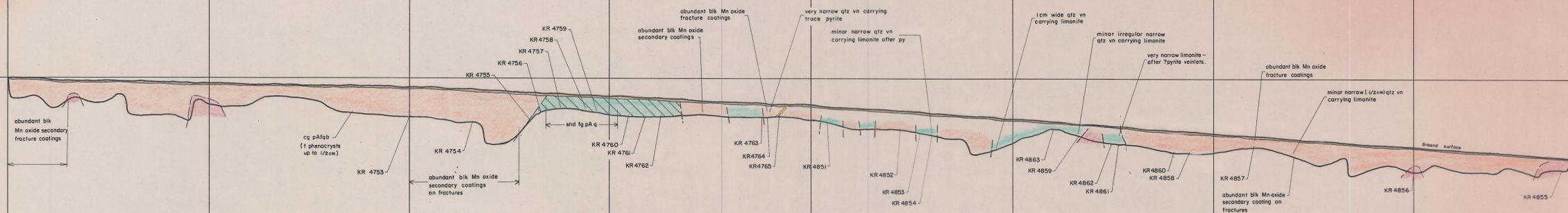
KR 4742	4741	4740	4739	4738	4737	4736	4735	4734	4733	4732	4731	4730	4729	4728	4727
Cu	25	20	50	90	200	180	40	10	10	20	15	10	10	20	35
Pb	340	300	400	1380	3200	2400	2450	1400	1140	1600	1000	140	480	460	300
Zn	120	130	95	190	450	650	400	280	170	180	180	210	250	180	290
As	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	10	2	<2	<2
Mn	110	150	120	130	150	650	2100	1800	140	1200	4100	5000	2600	4100	2000
Co	<5	5	<5	5	<5	<5	5	5	<5	<5	<5	<5	<5	<5	<5
Bi	120	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
At	150	30	100	200	400	200	60	40	60	20	80	10	60	30	20
Sr	1	1	1	1	300	30	1	1	1	1	1	1	1	1	1
Ba	3000	3000	3000	3000	3000	3000	3000	3000	10000	3000	10000	10000	10000	10000	10000
Fe	2.25%	2.35%	2.10%	2.15%	2.35%	3.05%	2.10%	2.20%	2.35%	2.25%	2.40%	1.85%	2.15%	2.50%	2.25%
W	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Mo	<2	<2	<2	<2	<2	2	2	2	2	2	2	2	2	2	2
Sn					150										



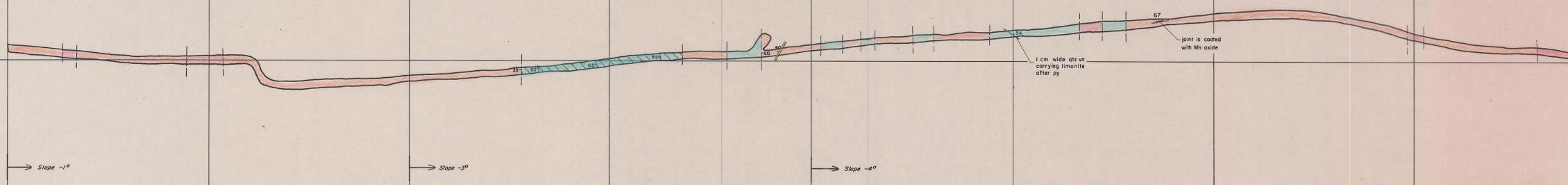
MARINER 3  
COSTEAN 3

03-4902-d

### GEOLOGICAL PROFILE



### GEOLOGICAL FLOOR PLAN



### BEDROCK GRAB SAMPLE GEOCHEMISTRY

Sample No.	Ca	P	Zn	Ag	Mn	Cd	Bi	As	Sr	Ba	Fa	W	Mo	Pb
KR 4794	70	20	20	20	20	20	20	20	20	20	20	20	20	20
4793	120	40	80	2	800	2	20	20	3000	3000	1.70%	1.90%	2	2
4792	20	20	20	2	800	2	20	20	3000	3000	1.75%	1.90%	2	2
4791	20	20	20	2	800	2	20	20	3000	3000	2.05%	2.30%	2	2
4790	20	20	20	2	800	2	20	20	3000	3000	3.10%	3.80%	2	2
4789	20	20	20	2	800	2	20	20	3000	3000	2.40%	2.10%	2	2
4788	20	20	20	2	800	2	20	20	3000	3000	2.18%	2.18%	2	2
4787	20	20	20	2	800	2	20	20	3000	3000	3.30%	3.30%	2	2
4786	20	20	20	2	800	2	20	20	3000	3000	2.80%	2.80%	2	2
4785	20	20	20	2	800	2	20	20	3000	3000	3.00%	3.00%	2	2
4784	20	20	20	2	800	2	20	20	3000	3000	2.25%	2.25%	2	2
4783	20	20	20	2	800	2	20	20	3000	3000	2.25%	2.25%	2	2
4782	20	20	20	2	800	2	20	20	3000	3000	2.40%	2.40%	2	2
4781	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4780	20	20	20	2	800	2	20	20	3000	3000	2.50%	2.50%	2	2
4779	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4778	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4777	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4776	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4775	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4774	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4773	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4772	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4771	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4770	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4769	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4768	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4767	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4766	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4765	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4764	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4763	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4762	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4761	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4760	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4759	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4758	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4757	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4756	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4755	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4754	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2
4753	20	20	20	2	800	2	20	20	3000	3000	2.70%	2.70%	2	2

**GEOPEKO**  
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD, DEVONPORT BASE

No. KT 10/74 - M- 17

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

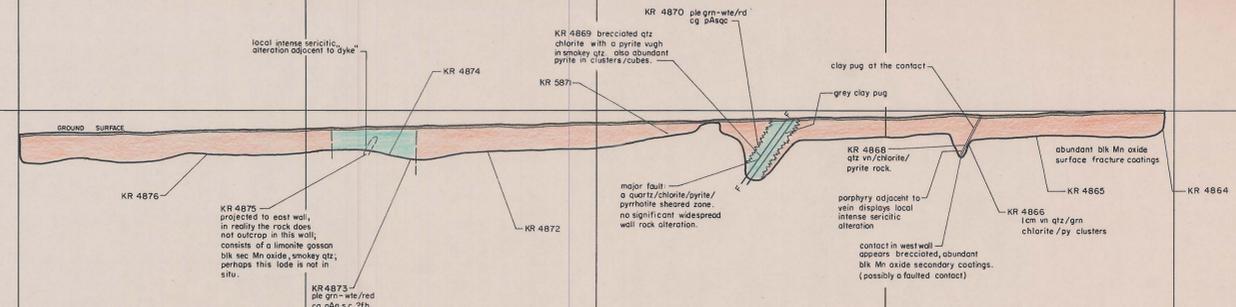
**E.L. 10/74 BLACK BLUFF, TASMANIA**  
**MARINER 3**  
**COSTEAN 3**

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

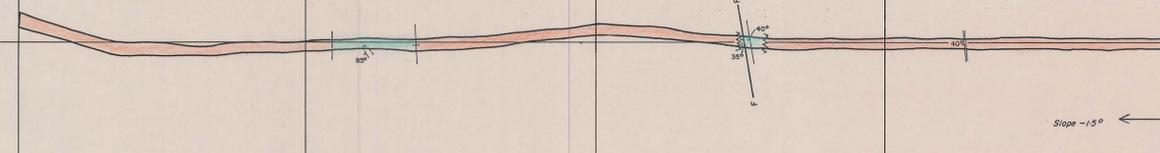
MARINER 3  
COSTEAN 4

03-4902c

GEOLOGICAL PROFILE



GEOLOGICAL FLOOR PLAN



BEDROCK GRAB SAMPLE GEOCHEMISTRY

KR 4814	4813	4812	4811	4810	4809	4808	4807	4806	4805	4804	4803	4802	4801	4800	4799	4798	4797	4796	4795
Cu	40	60	40	40	60	100	240	40	20	40	60	40	40	40	40	40	40	20	20
Pb	40	60	60	60	60	120	320	120	60	40	60	60	40	40	40	40	40	60	100
Zn	160	240	150	240	220	210	210	130	190	250	230	150	140	210	210	240	200	190	90
Ag	<5	<5	<5	2	<5	<5	<5	2	2	2	2	2	<5	<5	<5	<5	<5	2	<5
Mn	700	700	450	750	600	700	500	200	400	550	700	600	450	800	800	650	750	700	1050
Co	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bi	40	<20	<20	<20	<20	<20	<20	30	<20	<20	<20	<20	<20	<20	<20	20	<20	<20	<20
As	<5	<5	<5	<5	<5	<5	40	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Sr	1	<1	<1	5	30	3	1	1	3	1	1	3	<1	1	1	<1	1	<1	<1
Ba	1000	3000	3000	3000	1000	1000	1000	1000	1000	3000	3000	3000	1000	1000	3000	1000	3000	3000	3000
Fe	2.35%	2.22%	2.00%	2.40%	2.40%	3.00%	5.60%	1.80%	1.45%	2.60%	2.10%	2.05%	1.75%	2.05%	2.10%	2.40%	2.01%	2.00%	2.00%
W	2	5	<2	2	5	10	5	2	2	2	2	5	2	2	2	2	2	2	2
Mg	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2

**GEOPEKO**  
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD, DEVONPORT BASE

SCALE 1:250 (Horizontal) 1:100 (Vertical)

No. KT 10/74-M-18

E.L. 10/76 BLACK BLUFF, TASMANIA  
MARINER 3

DATE: APRIL '79  
GEOLOGIST: G.L.B.  
DRAWN: J.P.M.  
CHECKED: *[Signature]*

COSTEAN 4